

# Service Manual

CD Stereo System

Model No. **SA-AKX34PH**  
**SA-AKX34PN**

Product Color: (K)...Black Type




Please refer to the original service manual for:

- CD Mechanism Unit (BRS11C), Order No. PSG1201019AE
- Speaker system SB-AKX34PN-K, Order No. PSG1202004CE

## WARNING

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

## IMPORTANT SAFETY NOTICE

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

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# 1 Safety Precautions

## 1.1. General Guidelines

1. 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.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out 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  $1\text{M}\Omega$  and  $5.2\text{M}\Omega$ .

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

### 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  $1.5\text{k}\Omega$ , 10 watts resistor, in parallel with a  $0.15\mu\text{F}$  capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
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.

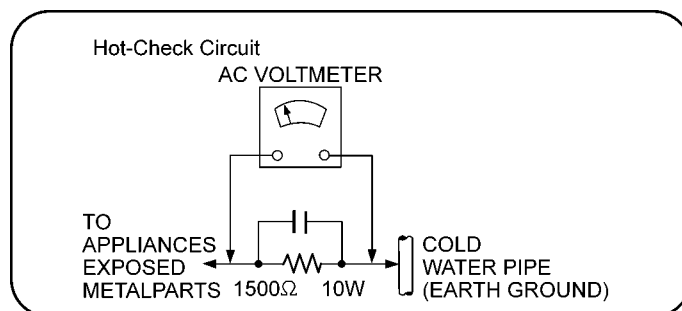


Figure 1

## 1.2. Before Use (For PH only)

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 110V ~ 127V or 220V ~ 240V, set to the "110V ~ 127V or 220V ~ 240V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

## 1.3. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5703, C5704 (For PH), C5705 (For PH), C5708) through a  $10\Omega$ , 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 110~127 V / 220~240 V, 50/60 Hz in Power ON, FM Tuner, No Signal, volume minimal mode should be ~ 600 mA (PH).

Current consumption at AC 120 V, 60 Hz in Power ON, FM Tuner, No Signal, volume minimal mode should be ~ 600 mA (PN).

## 1.4. 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.

## 1.5. Caution For Fuse Replacement

**CAUTION:**

Replace with the same type fuse:  
(Manufacturer: LITTELFUSE, INC, Type: 233, F1, 8A, 125V) (For PN only)

**CAUTION:**

Replace with the same type fuse:  
(Manufacturer: HOLLYLAND, INC, Type: 50T, F1, 6.3A, 250V) (For PH only)



## 1.6. Safety Parts Information

### Safety Parts List:

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

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

| Safety | Ref No. | Part No.     | Part Name & Description               | Remarks  |
|--------|---------|--------------|---------------------------------------|----------|
| ⚠      | 8       | REX1536      | 1P RED WIRE (VOLTAGE SELECTOR-SMPS)   | PH       |
| ⚠      | 9       | REXX1122-J   | 1P BLACK WIRE (VOLTAGE SELECTOR-SMPS) | PH       |
| ⚠      | 20      | RKMX1011-K1  | TOP CABINET                           |          |
| ⚠      | 21      | RGRX1008M-A  | REAR PANEL                            | PN       |
| ⚠      | 21      | RGRX1008N-A  | REAR PANEL                            | PH       |
| ⚠      | 301     | RAE1034Z-V   | TRAVERSE ASS'Y                        |          |
| ⚠      | A2      | K2CB2YY00059 | AC CORD                               | PN       |
| ⚠      | A2      | K2CQ2CA00007 | AC CORD                               | PH       |
| ⚠      | A3      | RQT9617-M    | O/I BOOK (Sp)                         | PN       |
| ⚠      | A3      | RQT9619-M    | O/I BOOK (Sp)                         | PH       |
| ⚠      | PCB9    | REP4783F     | SMPS P.C.B.                           | (RTL) PH |
| ⚠      | PCB9    | REP4783DA    | SMPS P.C.B.                           | (RTL) PN |
| ⚠      | PCB11   | REP4783F     | VOLTAGE SELECTOR P.C.B.               | (RTL) PH |
| ⚠      | DZ5701  | ERZV05Z471CS | ZNR                                   |          |
| ⚠      | S5701   | K0ABCA000007 | SW AC VOLTAGE SELECTOR                | PH       |
| ⚠      | L5706   | G0B612H00002 | LINE FILTER                           | PH       |
| ⚠      | L5707   | G0B612H00002 | LINE FILTER                           | PN       |
| ⚠      | T5701   | G4DYZ0000051 | MAIN TRANSFORMER                      | PH       |
| ⚠      | T5701   | G4DYZ0000060 | MAIN TRANSFORMER                      | PN       |
| ⚠      | T5751   | ETS19AB2E6AG | SUB TRANSFORMER                       |          |
| ⚠      | T6000   | G4DYA0000214 | SWITCHING TRANSFORMER                 |          |
| ⚠      | PC5701  | B3PBA0000503 | PHOTO COUPLER                         |          |
| ⚠      | PC5702  | B3PBA0000503 | PHOTO COUPLER                         |          |
| ⚠      | PC5720  | B3PBA0000503 | PHOTO COUPLER                         |          |
| ⚠      | PC5799  | B3PBA0000503 | PHOTO COUPLER                         |          |
| ⚠      | F1      | K5D632BK0007 | FUSE                                  | PH       |
| ⚠      | F1      | K5D802APA008 | FUSE                                  | PN       |
| ⚠      | TH5000  | D4CC11040013 | THERMISTOR                            |          |
| ⚠      | TH5702  | D4CAA2R20001 | THERMISTOR                            |          |
| ⚠      | TH5860  | D4CC11040013 | THERMISTOR                            |          |
| ⚠      | TH5861  | D4CC11040013 | THERMISTOR                            | PN       |
| ⚠      | P5701   | K2AA2B000011 | AC INLET                              | PH       |
| ⚠      | P5701   | K2AB2B000007 | AC INLET                              | PN       |
| ⚠      | R5708   | ERJ8GEYJ155V | 1.5M 1/4W                             |          |
| ⚠      | R5709   | ERJ8GEYJ155V | 1.5M 1/4W                             |          |
| ⚠      | C5700   | F1BAF471A013 | 470pF                                 |          |
| ⚠      | C5701   | F0CAF104A105 | 0.1uF                                 |          |
| ⚠      | C5703   | F0CAF224A105 | 0.22uF                                |          |
| ⚠      | C5704   | F1BAF471A013 | 470pF                                 | PH       |
| ⚠      | C5705   | F1BAF471A013 | 470pF                                 | PH       |
| ⚠      | C5708   | F1BAF1020020 | 1000pF                                |          |

## 2 Warning

### 2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic 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 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).

## 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:

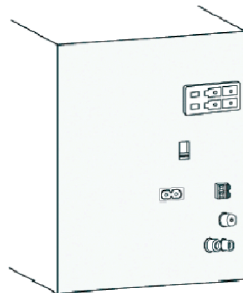
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 790 nm (CD)

Maximum output radiation power from pickup: 100  $\mu$ W/VDE

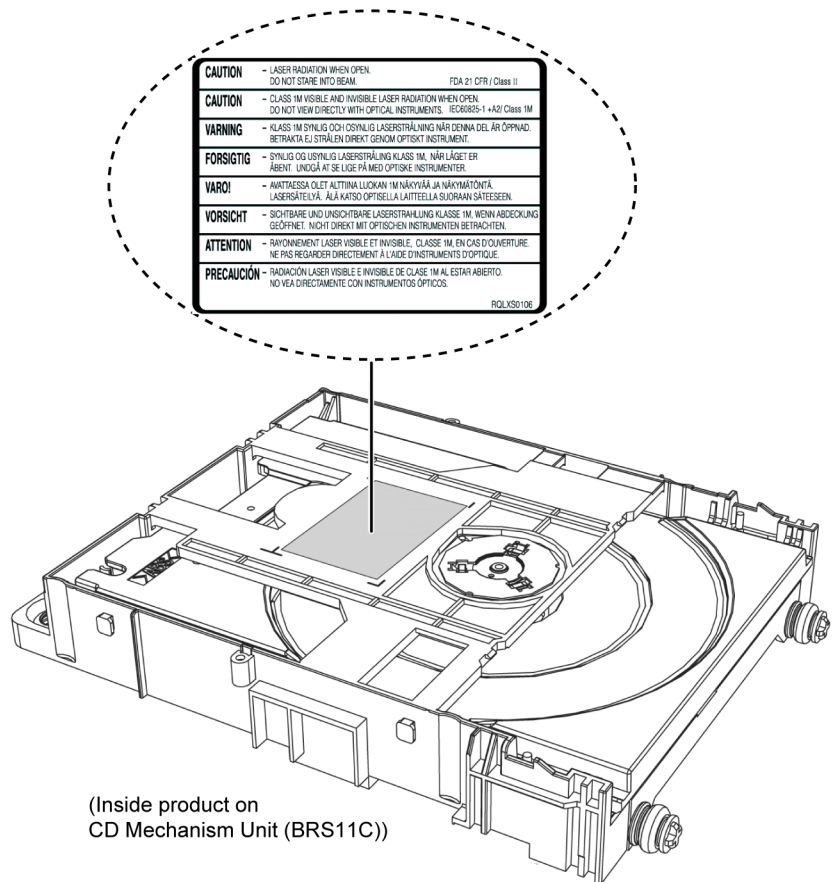
Laser radiation from the pickup unit is safety level, but be sure the followings:

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



(Back of product)

**CLASS 1  
LASER PRODUCT**



(Inside product on  
CD Mechanism Unit (BRS11C))

|                   |   |                       |
|-------------------|---|-----------------------|
| <b>CAUTION</b>    | - LASER RADIATION WHEN OPEN.<br>DO NOT STARE INTO BEAM.   | FDA 21 CFR / Class II |
| <b>CAUTION</b>    | - CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.<br>DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M    |                       |
| <b>VARNING</b>    | - KLASS 1M SYNLIK OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD.<br>BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.             |                       |
| <b>FORSIGTIG</b>  | - SYNLIG OG USYNLIG LASERSTRÅLNING KLASSE 1M. IKK PÅSETT ELLER<br>ÅBENT. UNNGÅ ÅT SE LØGE PÅ MED OPTISKE INSTRUMENTER.                    |                       |
| <b>VARO!</b>      | - AVATTAESSA OLET ALTIIDIN LUKKAN 1M NÄKYYVÄÄ JA NÄKYMÄTÖNTÄ<br>LASERGAITELYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.          |                       |
| <b>VORSICHT</b>   | - SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG KLASSE 1M. WENN ABDECKUNG<br>GEÖFFNET, NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.     |                       |
| <b>ATTENTION</b>  | - RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 1M. EN CAS D'OUVERTURE,<br>NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE. |                       |
| <b>PRECAUCIÓN</b> | - RADIACIÓN LASER VISIBLE E INVISIBLE DE CLASE 1M AL ESTAR ABIERTO.<br>NO VEA DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS.                      |                       |

RQLXS0108

## 2.3. Service caution based on Legal restrictions

### 2.3.1. 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>(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 FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.

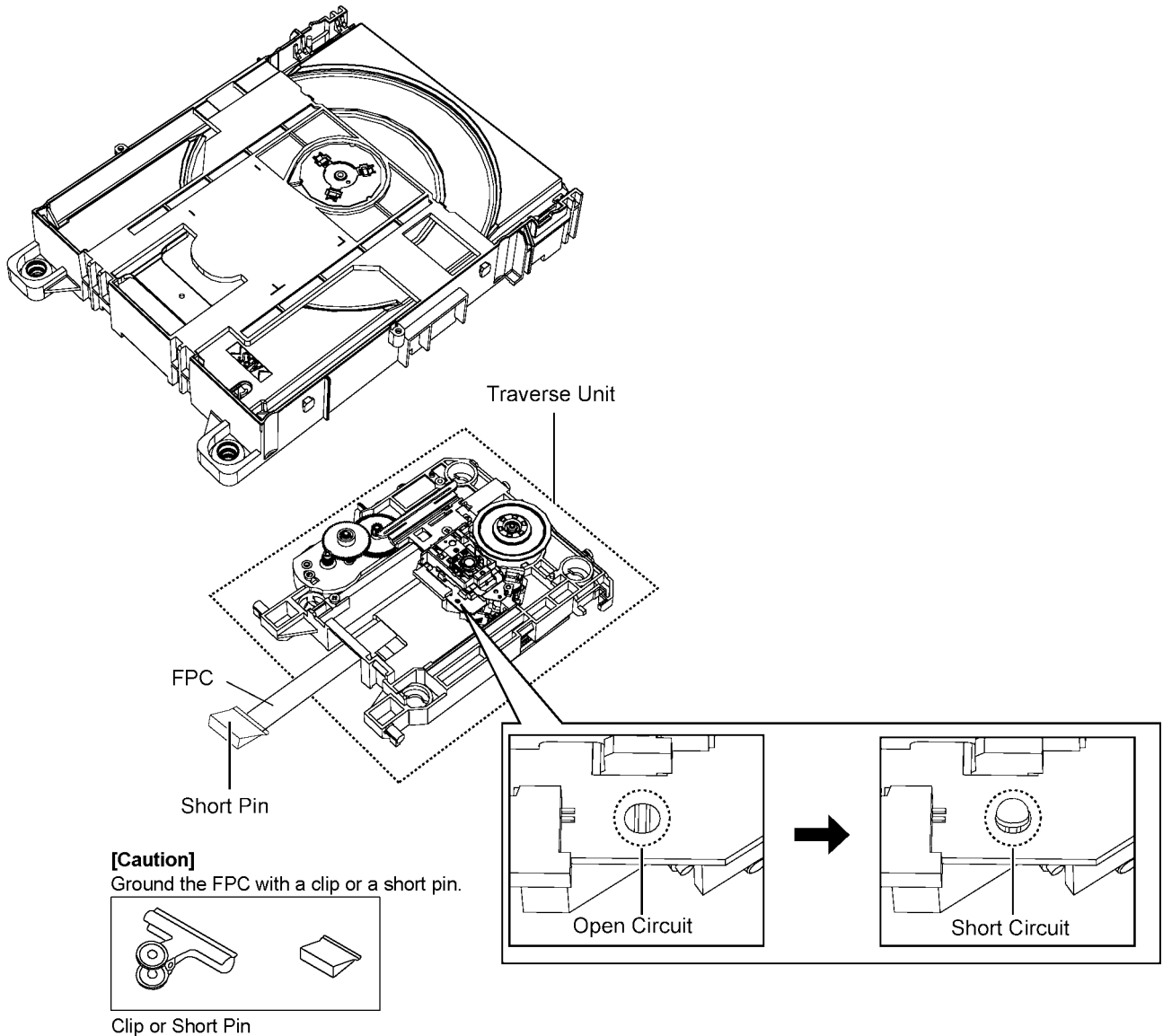


Figure A

## 2.4.2. Grounding for electrostatic breakdown prevention

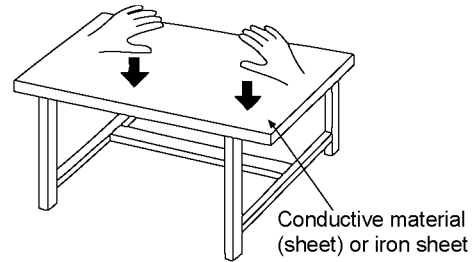
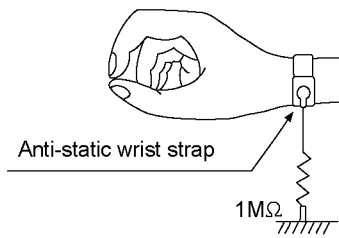
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

### 2.4.2.1. Worktable grounding

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

### 2.4.2.2. Human body grounding

1. Use the anti-static wrist strap to discharge the static electricity form your body.



## 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.

- **CD Mechanism Unit (BRS11C):**

1) This model uses CD Mechanism Unit (BRS11C).

- **Micro-processor:**

1) The following components are supplied as an assembled part.  
- Micro-processor IC, IC2003 (RFKWMAX34M0)

- **Speaker System:**

1) This model uses Speaker System, SB-AKX34PN-K.

## 4 Specifications

### ■ Amplifier section

#### RMS output power stereo mode

|                             |  |
|-----------------------------|--|
| Front Ch (both ch driven)   | 190 W per channel (4Ω), 1 kHz, 10% THD |
|                             | 250 W per channel (4Ω), 1 kHz, 30% THD |
| Total RMS stereo mode power | 380 W (10% THD)                        |
|                             | 500 W (30% THD)                        |

|                   |        |
|-------------------|--------|
| PMPO Output Power | 5500 W |
|-------------------|--------|

### ■ Tuner, terminals section

#### Preset station

|                |
|----------------|
| FM 30 stations |
| AM 15 stations |

#### Frequency modulation (FM)

|                   |                                      |
|-------------------|--------------------------------------|
| Frequency range   | 87.50 to 108.00 MHz<br>(50 kHz step) |
| Antenna terminals | 75 Ω (unbalanced)                    |

#### Amplitude modulation (AM)

|                 |                                     |
|-----------------|-------------------------------------|
| Frequency range | 522 kHz to 1629 kHz<br>(9 kHz step) |
|-----------------|-------------------------------------|

#### Music port (front)

|             |                     |
|-------------|---------------------|
| Sensitivity | 100 mV, 4.7 kΩ      |
| Terminal    | Stereo, 3.5 mm jack |

#### Aux Input

RCA pin jack

### ■ Disc section

#### Discs played (8 cm or 12 cm)

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

#### Pick up

|             |            |
|-------------|------------|
| Wavelength  | 790 nm(CD) |
| Laser power | CLASS 1    |

#### Audio output (disc)

|                          |               |
|--------------------------|---------------|
| Number of channels       | 2 ch (FL, FR) |
| FL = Front left channel  |               |
| FR = Front right channel |               |
| *MPEG-1 Layer 3          |               |

### ■ USB section

#### USB Port

|                           |                                |
|---------------------------|--------------------------------|
| USB standard              | USB 2.0 full speed             |
| Media file format support | MP3(*.mp3)                     |
| USB device file system    | FAT12, FAT16, FAT32            |
| USB port power            | 500 mA (max)                   |
| Bit rate                  | 16 kbps to 320 kbps (playback) |

#### USB Recording

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

### ■ Internal memory section

#### Memory

|                           |             |
|---------------------------|-------------|
| Memory size               | 2 GB        |
| Media file format support | MP3 (*.mp3) |

#### Memory Recording

|  |                      |
|--|----------------------|
| Bit rate   | 128 kbps             |
| Memory recording speed   | 1x, 3x max (CD only) |
| Recording file format  | MP3 (*.mp3)          |
| Capacity of total songs recorded<br>(use 128 kbps, approximately 1<br>song = 4 mins) | 510 songs            |

### ■ General

|                                   |  |
|-----------------------------------|--|
| Power consumption                 | 77 W   |
| Power Consumption in standby mode | 0.3 W (approximate)  |
| Power supply                      | AC 110 to 127/220 to 240 V,<br>50/60 Hz (for PH)<br>AC 120 V, 60 Hz (for PN) |
| Dimensions (W x H x D)            | 220 mm x 334 mm x 245 mm   |
| Mass                              | 3 kg   |
| Operating temperature range       | 0 °C to +40 °C   |
| Operating humidity range          | 35% to 80% RH<br>(no condensation)   |

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

### ■ System: SC-AKX34PH-K

Main Unit: SA-AKX34PH-K  
Front Speakers: SB-AKX34PN-K

### ■ System: SC-AKX34PN-K

Main Unit: SA-AKX34PN-K  
Front Speakers: SB-AKX34PN-K



## 5 General/Introduction

### 5.1. Media Information

#### NOTE on MP3

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digits numbers in the order you want to play them.

#### Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

#### NOTE on USB

#### Compatible devices

- USB mass storage devices that support bulk-only transfer.
- USB mass storage devices that support USB 2.0 full speed.

#### Supported format

- Folders are defined as album.
- Files are defined as track.
- Track must have the extension ".mp3" or ".MP3".
- CBI (Control/Bulk/Interrupt) is not supported.
- NTFS file system is not supported. (only FAT 12/16/32 file system is supported).
- Some files can fail to work because of the sector size.

#### NOTE on CDs

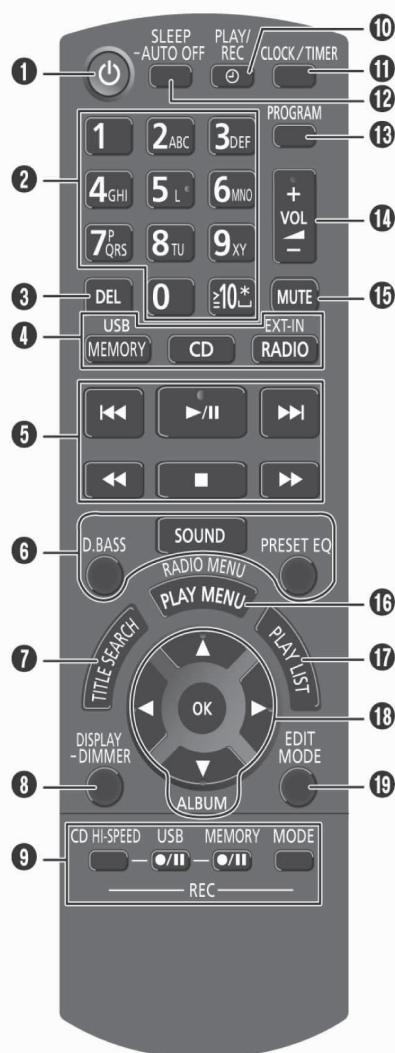
- This unit can access up to 99 tracks.
- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

#### Note:

- Maximum album: 255 albums (include albums without MP3 tracks).
- Maximum track: 2500 tracks
- Maximum track in one album: 999 tracks

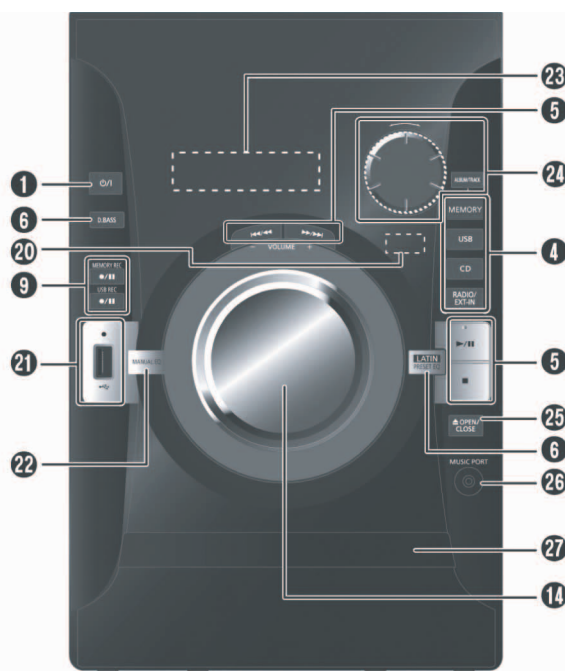
## 6 Location of Controls and Components

### 6.1. 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 Alphanumeric buttons**  
 To select a 2-digit number  
 Example: 16: [⏻10] → [1] → [6]  
 To set a character  
 Example: B: [2] → [2]
- 3 Delete a programmed track**  
 Delete a selected track in a playlist
- 4 Select audio source**
- 5 Basic playback control**
- 6 Select the sound effects**
- 7 Start the title search for internal memory**
- 8 View content information**  
**Decrease the brightness of the display panel**  
 Press and hold the button to use this function.  
 To cancel, press and hold the button again.
- 9 Recording operation control**
- 10 Set the play timer and record timer**
- 11 Set the clock and timer**
- 12 Set the sleep timer**  
**Automatically switch off the system**  
 When you are in disc, USB or internal memory source, the auto off function switches off the system if you do not use the system for 30 minutes.  
 Press and hold the button to use this function.  
 To cancel, press and hold the button again.
- 13 Set the program function**
- 14 Adjust the volume of the system**
- 15 Mute the sound of the system**  
 Press the button again to cancel.  
 "MUTE" is also canceled when you adjust the volume or when you switch off the system.
- 16 Set the play menu item**  
 Set the radio menu item
- 17 Make playlist for internal memory**
- 18 Select the option**
- 19 Set the edit mode for USB or internal memory**

## 6.2. Main Unit Key Button Operation



- 1 Standby/on switch** [⏻], [⏻/⏹]  
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- 4** Select audio source
- 5** Basic playback control
- 6** Select the sound effects
- 9** Recording operation control
- 14** Adjust the volume of the system
- 20** Remote control sensor
- 21** USB port (🔌)  
USB recording indicator
- 22** Select the bass, mid or treble effect
- 23** Display panel
- 24 Browse tracks or albums**  
**CD**  
Turn the knob to browse the track.  
Press [▶/⏸] to start playback from the selection.  
**MP3**  
Press [ALBUM/TRACK] to select album or track and then turn the knob to browse.  
Press [▶/⏸] to start playback from the selection.
- 25** Open or close the disc tray
- 26** Music port jack
- 27** Disc tray

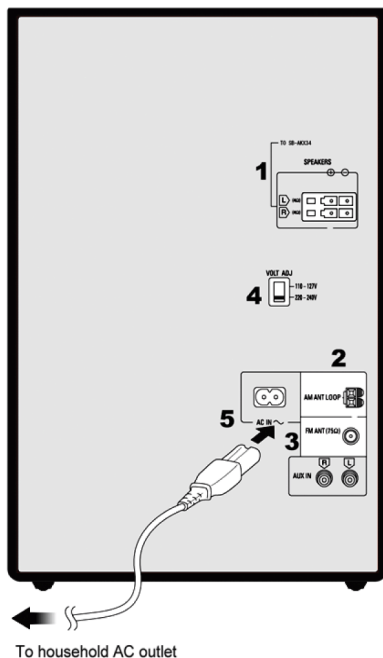
# 7 Installation Instructions

## 7.1. Speaker and A/C Connection

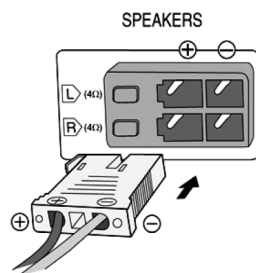
### Making the connections

#### Conserving power

The system consumes approximately 0.3 W when it is in standby mode. Disconnect the power supply if you do not use the system.  
Some settings will be lost after you disconnect the system. You have to set them again.

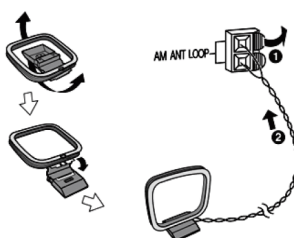


#### 1 Connect the speakers.



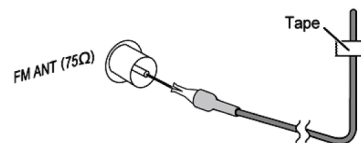
#### 2 Connect the AM loop antenna.

Stand the antenna up on its base until it clicks.



#### 3 Connect the FM indoor antenna.

Place the antenna where reception is best.



#### 4 Set the voltage.

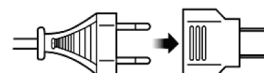
##### VOLT ADJ



Use a flat-head screwdriver to set the voltage selector to the AC voltage in your area.

#### 5 Connect the AC power supply cord.

If the power plug does not fit your socket, use the power plug adapter (supplied).



Use the supplied AC power supply cord with this system only.  
Do not use an AC power supply cord from other equipment.

## 8 Service Mode

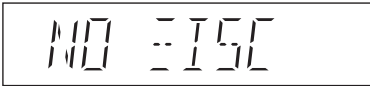
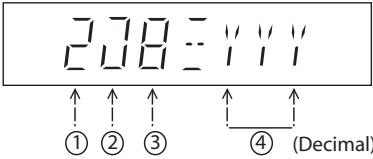
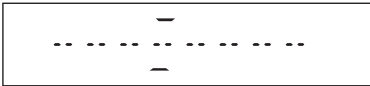
### 8.1. Cold-Start

Here is the procedure to carry out cold-start or initialize to shipping mode.

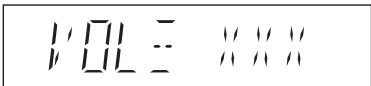


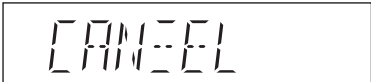

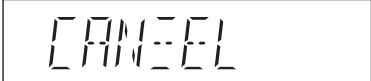

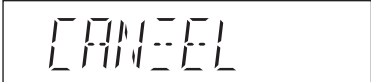
1. Unplug AC power cord
2. Press & hold [POWER] button
3. Plug AC power cord while [POWER] button being pressed  
FL Display will show “\_ \_ \_ \_ \_ \_ \_ \_”
4. Release [POWER] button

## 8.2. Doctor Mode Table

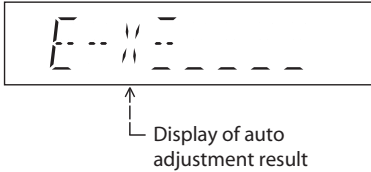
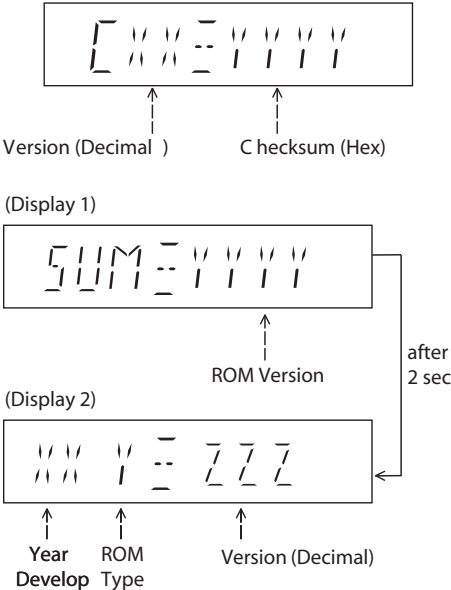
### 8.2.1. Doctor Mode Table 1

| 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 [DELETE] button on remote control or, press [POWER, ⏻] 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. | <br>Version No. (001 ~ 999) → specific for each firmware | In CD mode:<br>1. Enter 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 [SLEEP] button on remote control.   |

## 8.2.2. Doctor Mode Table 2

| Item                                  |  | FL Display   | Key Operation   |
|---------------------------------------|--|--|---|
| Mode Name                             | Description  |  | Front Key   |
| Volume Setting Check                  | To check the volume setting of a main unit.  |  <p>Press [7]: VOL50<br/>Press [8]: VOL35<br/>Press [9]: VOL0</p>  | In Doctor Mode :<br>1. Press [7], [8], [9] button on remote control.  |
| FL Display Check                      | To check the FL segment display<br>All segment will light up while all LED blink at 0.5s, intervals.(if any)   |    | In Doctor mode :<br>1. Press [1] button on remote control.<br><br>2. To cancel, press [0] on remote control.          |
| BRS11C Reliability Test (Traverse)    | To determine CD Mechanism BRS11C Access Inner & Outer disc operation.<br><br>In this mode,ensure the CD is in the main unit.<br><br>Note: Refer to Section 8.3 Fig 2. for process flow .                     |  <p>The counter will increment by one .<br/>When reach 9999 will change to 0000</p> <p>Cancellation Display</p>     | In Doctor Mode :<br>1. Press [10]→[1]→[2] button on remote control.<br><br>2. To cancel, press [0] on remote control. |
| BRS11C Reliability Test (Combination) | To determine CD Mechanism Unit (BRS11C) Open/Close & Access Inner & Outer Disc Operation.<br><br>In this mode,ensure the CD is in the main unit.<br><br>Note: Refer to Section 8.3 Fig 3. for process flow . |  <p>The counter will increment by one .<br/>When reach 9999 will change to 0000</p> <p>Cancellation Display</p>  | In Doctor Mode :<br>1. Press [10]→[1]→[5] button on remote control.<br><br>2. To cancel, press [0] on remote control. |
| BRS11C Reliability Test (Loading)     | To determine CD Mechanism Unit (BRS11C) Open/Close operation.<br><br>In this mode, the tray will open & close.<br><br>Note: Refer to Section 8.3 Fig 1 for process flow .                                    |  <p>The counter will increment by one .<br/>When reach 9999 will change to 0000</p> <p>Cancellation Display</p>  | In Doctor Mode :<br>1. Press [10]→[2]→[1] button on remote control.<br><br>2. To cancel, press [0] on remote control. |

### 8.2.3. Doctor Mode Table 3

| Item                                      |  | FL Display   | Key Operation   |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
|---|--|--|---|---|---|---|---|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|---|---|---|---|---|------------|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|
| Mode Name                                 | Description  |  | Front Key   |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| CD Self- Adjustment (AJST) Result Display | i. Function: To display result of self-adjustment for CD .<br>• This is used for servicing and analysis. | <div></div> <div>Reference table:</div> <table><tr><th>ERROR Code<br/>Status Condition</th><th>0</th><th>1</th><th>2</th><th>4</th><th>6</th><th>8</th><th>A</th><th>C</th><th>E</th><th>F</th></tr><tr><td>AOC1/AOC2</td><td>O</td><td>※</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>-</td></tr><tr><td>ABC2/ABC1</td><td>O</td><td>-</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>-</td></tr><tr><td>2<sup>nd</sup> AOC1</td><td>O</td><td>-</td><td>O</td><td>X</td><td>X</td><td>O</td><td>O</td><td>X</td><td>X</td><td>-</td></tr><tr><td>FAGC/T AGC</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>X</td><td>X</td><td>X</td><td>X</td><td>-</td></tr><tr><td>AGC2</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>△</td></tr></table> <div>O: OK ;<br/>X: NG (In case that time out happens.)<br/>※ Either one of FO AOC, TR AOC and FO coarse AGC is NG .<br/>△ If the AGC is NG (ignore others).</div> | ERROR Code<br>Status Condition  | 0 | 1 | 2 | 4 | 6 | 8 | A | C | E | F | AOC1/AOC2 | O | ※ | O | O | O | O | O | O | O | - | ABC2/ABC1 | O | - | X | O | X | O | X | O | X | - | 2 <sup>nd</sup> AOC1 | O | - | O | X | X | O | O | X | X | - | FAGC/T AGC | O | - | O | O | O | X | X | X | X | - | AGC2 | O | - | O | O | O | O | O | O | O | △ | In Doctor Mode:<br>1. Press [10]⇒[1]⇒[4] button on remote control .<br><br>2.To cancel, press [0] on remote control . |
| ERROR Code<br>Status Condition            | 0  | 1  | 2   | 4 | 6 | 8 | A | C | E | F |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| AOC1/AOC2                                 | O  | ※  | O   | O | O | O | O | O | O | - |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| ABC2/ABC1                                 | O  | -  | X   | O | X | O | X | O | X | - |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| 2 <sup>nd</sup> AOC1                      | O  | -  | O   | X | X | O | O | X | X | - |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| FAGC/T AGC                                | O  | -  | O   | O | O | X | X | X | X | - |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| AGC2                                      | O  | -  | O   | O | O | O | O | O | O | △ |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |
| CD LSI Ve rsion Check                     | For checking CD LSI Version and checksum information.  | <div></div>  | In Doctor Mode :<br>1. Press [4] button on remote control .<br><br>2.To cancel, press [0] on remote control . |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |   |   |            |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |



### 8.3. Reliability Test Mode (CD Mechanism Unit (BRS11C))

Below is the process flow chart of the aging test for the CD Mechanism Unit (BRS11C).

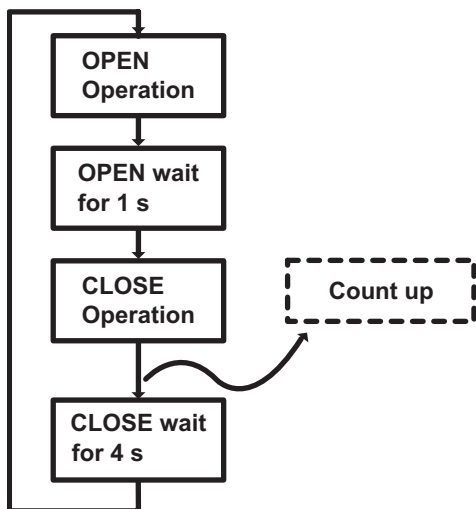


Fig. 1. Reliability Test (Loading)

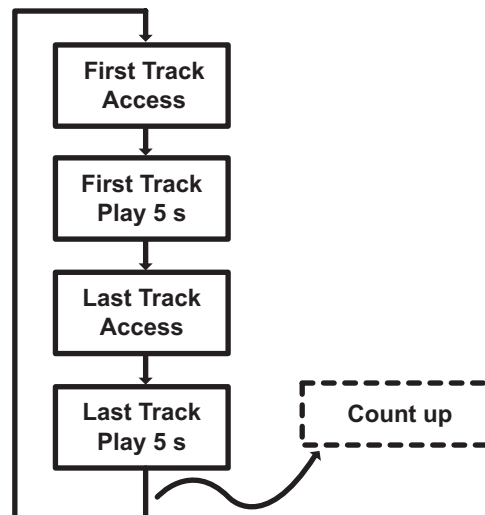


Fig. 2. Reliability Test (Traverse)

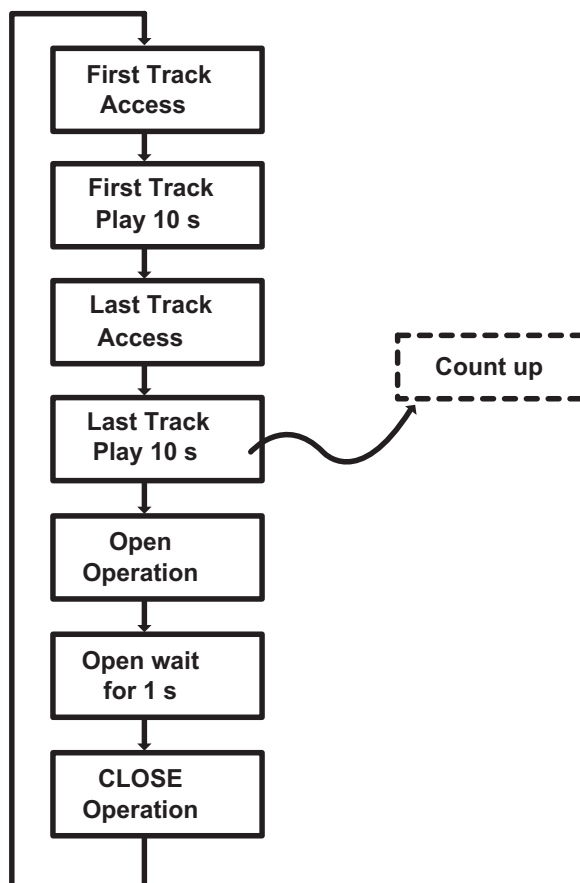





Fig. 3. Reliability Test (Combination)

## 8.4. Self-Diagnostic Mode




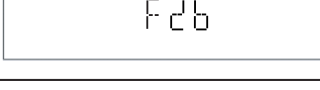
| Item                   |   | FL Display   | Key Operation  |
|------------------------|---|--|--|
| Mode Name              | Description   |  | Front Key  |
| Self Diagnostic Mode   | To enter into self diagnostic checking                                |              | Step 1: Select CD mode (Ensure no disc is inserted).<br><br>Step 2: Press & hold [■] follow by [▶▶/▶▶] 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><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><br>To exit, press [⏻/I] on main unit or remote control.          |

## 8.5. Self-Diagnostic Error Code Table




Self-Diagnostic Function (Refer Section 8.4. Self-Diagnostic Mode) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U\*\*, H\*\* and F\*\* are stored in memory and held unless it is cleared.

The error code is automatically display after entering into self-diagnostic mode.

### 8.5.1. Power Supply Error Code Table

| Error Code | Diagnosis Contents           | Description of error   | Automatic FL Display   | Remarks                                |
|------------|------------------------------|--|--|--|
| F61        | Power Amp IC output abnormal | Upon power on, PCONT=HIGH, DC_DET_AMP after checking LSI.                  |  | Press [■] on main unit for next error. |
| F76        |                              | DC_DET_PWR   |  |  |
| F61-76     |                              | Both DCDET (NG)  |  |  |
| F26        |                              | Communication between CD servo LSI and micro-P abnormal (iPod, Radio, USB) |  |  |

## 8.5.2. CD Mechanism Error Code Table (CD Mechanism Unit (BRS1C))

| Error Code | Diagnostic Contents                                      | Description of error  | Automatic FL Display   | Remarks                                |
|------------|--|---|--|--|
| CD H15     | CD Open Abnormal   | During operation<br>POS_SW_R On fail to be detected with 4 sec. Error No. shall be clear by force or during cold start.   |  | Press [■] on main unit for next error. |
| CD H16     | CD Closing Abnormal                                      | During operation<br>POS_SW_CEN On fail to be detected with 4 sec. Error No. shall be clear by force or during cold start. |  | Press [■] on main unit for next error. |
| F26        | Communication between CD servo LSI and micro-p abnormal. | During switch to CD function, if SENSE = "L" within failsafe time of 20ms.  |  | Press [■] on main unit for next error. |

## 8.6. Sales Demonstration Lock Function

### 8.6.1. Entering into sales Demo Mode

Here is the procedures to enter into Sales Demonstration Lock.

Step 1: Turn on the unit.

Step 2: Select to any mode function.

Step 3: Press [▲OPEN/CLOSE] key then [▶/■] key at the same time, press and hold both [▲OPEN/CLOSE] and [▶/■] keys for 5 sec.

Step 4: The display will show upon entering into this mode for 2 sec..



Note: [▲OPEN/CLOSE] button is invalid and the main unit displays "LOCKED" while the lock function mode is entered.

### 8.6.2. Cancellation

Step 1: Turn on the unit.

Step 2: Select to any mode function.

Step 3: Press [▲OPEN/CLOSE] key then [▶/■] key at the same time, press and hold both [▲OPEN/CLOSE] and [▶/■] keys for 5 sec.

Step 4: The display will show upon entering into this mode for 2 sec..







### 9.1.2. Main P.C.B. (Front side)

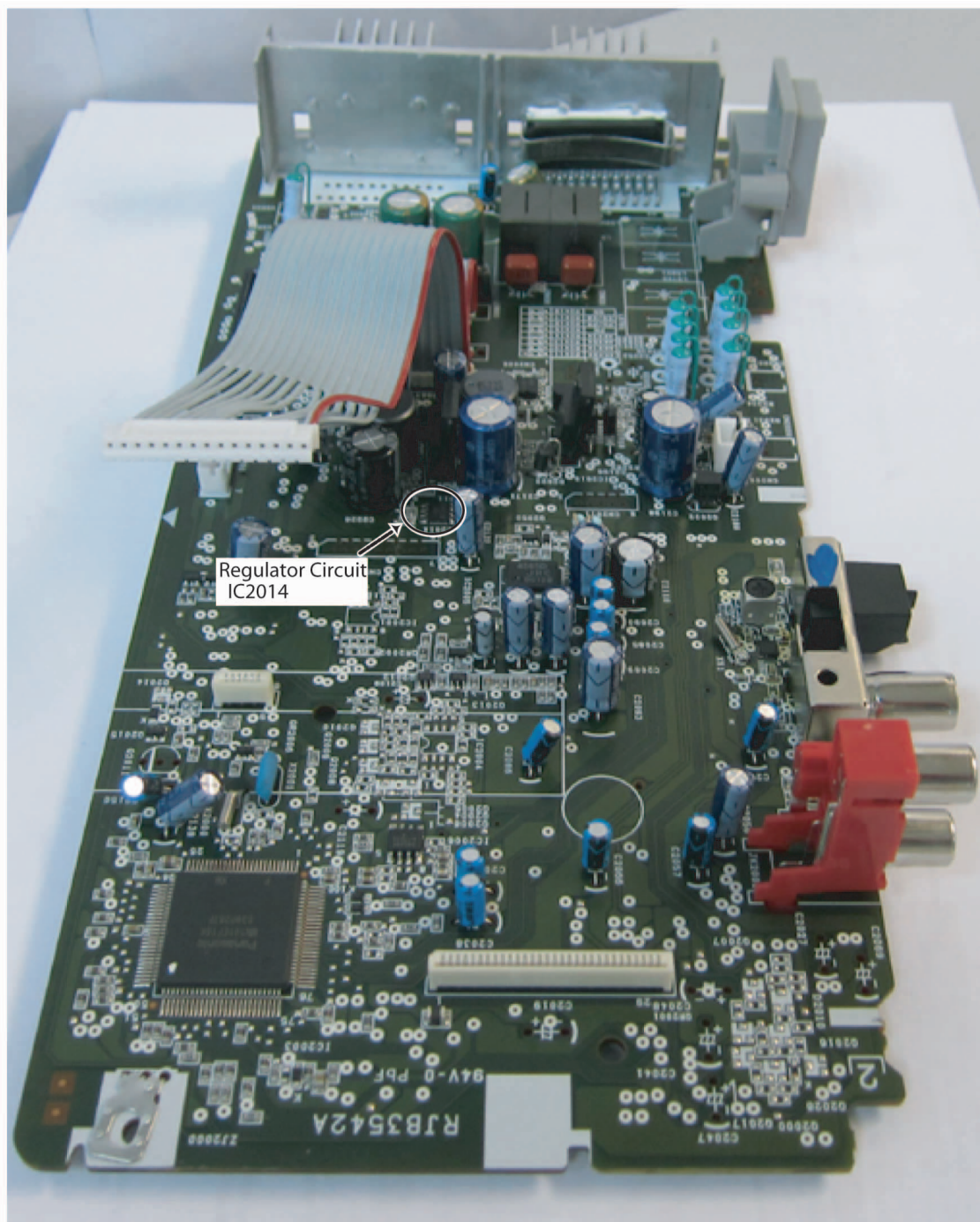


Fig. 2 Main P.C.B.

### 9.1.3. Main P.C.B. (Back Side)

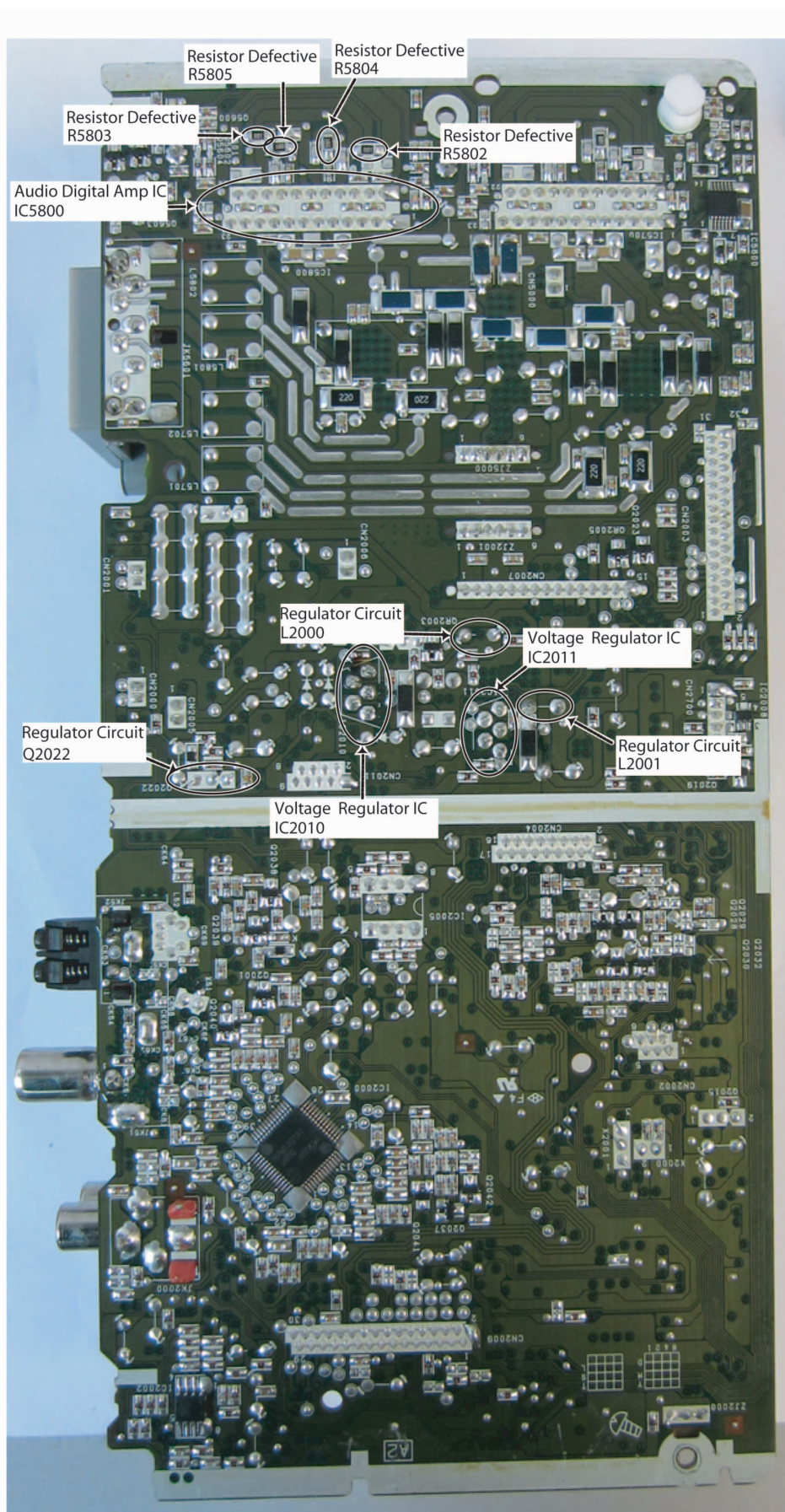


Fig. 3 Main P.C.B.



## 9.2. Troubleshooting Guide for F61 and/or F76

This section illustrates the checking procedures when upon detecting the error of “F61” and/or “F76” after power up of the unit. It is for purpose of troubleshooting and checking in SMPS & Main P.C.B.

| Symptom   |   | Checking Items                    |    | Possible Fault(s)   | Remarks  |
|---|---|-----------------------------------|----|---|--|
| Set cannot ON   | 1 | AC Cord                           | 1  | AC Cord Faulty, Loose connection  | Refer to<br>Section 9.1.1<br>Fig. 1. SMPS<br>P.C.B.            |
|   | 2 | AC Inlet, P5701                   | 2  | P5701 solder crack, dry joint .   |  |
|   | 3 | Fuse, F1                          | 3  | Fuse, F1 Open .   |  |
|   | 4 | Photocoupler<br>PC5702, PC5799    | 4  | PC5702/PC5799 solder crack.<br>Dry joint, short circuit, open circuit.  |  |
|   | 5 | Switching Regulator<br>IC, IC5701 | 5  | IC5701 Faulty .   |  |
|   | 6 | Sub Transformer (T5751)           | 6a | T5751 Faulty.   |  |
|   |   |                                   | 6b | Switching Mode Power Supply Control IC (IC5799) faulty.   |  |
|   |   |                                   | 6c | D5798 faulty.   |  |
| Set can ON<br>then F61                                      | 1 | Speaker Output                    | 1  | Faulty speaker unit, Loose connection, Short .  | Refer to<br>Section 9.1.2<br>Fig. 2. Main P.C.B.               |
|   | 2 | D-AMP circuit                     | 2a | D-AMP IC, IC5800 defective.<br>(Check DC voltage at speaker terminals, 3V and above defective)                                      |  |
|   |   |                                   | 2b | DC Voltage ok but no sound, check DC Voltage at Pin 1.<br>5V ok condition, 2.5V or 0V defective.                                    |  |
|   |   |                                   | 2c | 2a, 2b ok but no sound, check PWM waveform at Pin 10 and Pin 14 .<br>If no PWM, 4 resistors defective (R5802, R5803, R5804, R5805). |  |
|   |   |                                   |    |   |  |
|   |   |                                   |    |   |  |
|   |   |                                   |    |   |  |
| Set can ON<br>then F76                                      | 1 | Main Transformer T5701            | 1a | Short circuit between Pin 11 and Pin 12 .   | Refer to<br>Section 9.1.1<br>Fig. 1. SMPS<br>P.C.B.            |
|   |   |                                   | 1b | Short circuit between Pin 13 and Pin 14 .   |  |
|   |   |                                   | 1c | Short circuit between Pin 16 and Pin 17 .   |  |
|   | 2 | Regulator Circuits                | 2a | IC2010 faulty (No +9V output).  | Refer to<br>Section 9.1.2<br>Fig. 2. and Fig.3.<br>Main P.C.B. |
|   |   |                                   | 2b | L2000 Open.   |  |
|   |   |                                   | 2c | Q2022 faulty (No +5V output).   |  |
|   |   |                                   | 2d | IC2014 faulty (No +3.3V output).  |  |
|   |   |                                   | 2e | IC2011 faulty (No +5V output).  |  |
|   |   |                                   | 2f | L2001 Open.   |  |
|   | 3 | Photocoupler<br>PC5720            | 3  | PC5720 solder crack,<br>Dry joint, short circuit, open circuit.   | Refer to<br>Section 9.1.1<br>Fig. 1. SMPS P.C.B.               |
|   |   |                                   |    |   |  |
| Set can ON<br>working normally<br>for some time<br>then F76 | 1 | Rectifier Diode D5801             | 1a | Improper contact between D5801 to Heatsink .  | Refer to Section<br>9.1.1 Fig. 1. SMPS<br>P.C.B.               |
|   |   | Rectifier Diode D5802             |    | Improper contact between D5802 to Heatsink .  |  |
|   | 2 | Thermistor TH5860,<br>TH5861      | 1b | Set trigger temperature protection .  |  |

### 9.3. D-Amp IC Operation & Control

#### D-AMP IC Operation & Control

- 1) D-AMP IC (C1AB0000497) was used for this model (AKX34).
- 2) Three control pins (signal send from micro-processor IC) were used to control the D-AMP IC operation such as muting, standby and normal operation. They are described as below: -

| No | Pin no | Signal name | Function                    |
|----|--------|-------------|-----------------------------|
| 1  | 4      | F_HOP       | Frequency Hop control.      |
| 2  | 6      | MODE_DA     | Digital Amp On/Off control. |
| 3  | 3      | MUTE_F      | Digital Amp Muting control  |

**Table 1: Digital AMP Pin Control.**

Here is detailed description of the three control pins for the D-AMP IC

A) **MODE\_DA** & **MUTE\_F** were used to switch the D-AMP IC in the following muting status:

- L(Low/OFF): Standby / OFF
- H (High/ON): Operating or Mute

Below is the logic for the two pins used for the control of the D-AMP IC.

| No | MODE_DA | MUTE_F | Digital AMP IC mode status |
|----|---------|--------|----------------------------|
| 1  | L       | X      | OFF (0V)                   |
| 2  | H       | H      | Mute (2.5V)                |
| 3  | H       | L      | Operating(5V)              |

**Table 2: Digital AMP IC Mode Status.**

Note: Standby/OFF condition of D.AMP IC is available / activated only during the following event: Switching of Frequency Hoping, power off and start up (when the unit is undergoing the transition from standby to normal operation mode)

B) **F\_HOP** is used to control the D-AMP operation to avoid interference with AM source by controlling the frequency source used. It will switch from one frequency to the other, depending on the tuned AM frequency.

For 9 KHz Step

| AM Band Frequency | F_HOP | Switching Frequency |
|-------------------|-------|---------------------|
| 522 ~ 558         | H     | 301                 |
| 567 ~ 639         | H     | 350                 |
| 648 ~ 855         | L     | 301                 |
| 864 ~ 945         | H     | 350                 |
| 954 ~ 1152        | L     | 301                 |
| 1161 ~ 1242       | H     | 350                 |
| 1251 ~ 1449       | L     | 301                 |
| 1458 ~ 1539       | H     | 350                 |
| 1548 ~ 1629       | L     | 301                 |

**Table 3: F\_HOP Control during 9 kHz Step**

For 10 KHz Step

| AM Band Frequency | F_HOP | Switching Frequency |
|-------------------|-------|---------------------|
| 520 ~ 560         | H     | 301                 |
| 570 ~ 640         | H     | 350                 |
| 650 ~ 860         | L     | 301                 |
| 870 ~ 950         | H     | 350                 |
| 960 ~ 1160        | L     | 301                 |



|             |   |     |
|-------------|---|-----|
| 1170 ~ 1250 | H | 350 |
| 1260 ~ 1450 | L | 301 |
| 1460 ~ 1540 | H | 350 |
| 1550 ~ 1710 | L | 301 |

**Table 4: F HOP Control during 10 kHz Step**

Note: During activating, the 3 control pins namely MUTE\_F, MUTE\_A and MODE\_DA must be used to cover the “Pop” sound cause by F-HOP switching.

# 10 Service Fixture & Tools

Prepare service tools before process service position.

| Ref. No | Service Tools                               |                         | Remarks |
|---------|---|-------------------------|---------|
| SFT1    | Main P.C.B. (CN2007) - SMPS P.C.B. (CN5802) | REX1527(15P Cable Wire) |         |

# 11 Disassembly and Assembly Instructions

- Illustration is based on SA-AKX34PH-K.

## 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 Top Cabinet
- Disassembly of Front Panel Unit
- Disassembly of Panel P.C.B.
- Disassembly of Memory LED P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Music Port P.C.B.
- Disassembly of CD Lid
- Disassembly of Main P.C.B.
- Replacement of Voltage Regulator (IC2010)
- Replacement of Voltage Regulator (IC2011)
- Replacement of Audio Digital Amp IC (IC5800)
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5702)
- Replacement of Rectifier Diode (D5801)
- Replacement of Rectifier Diode (D5802)
- Replacement of Rectifier Diode (D5803)
- Disassembly of CD Mechanism Unit (BRS11C)
- Disassembly of CD Interface P.C.B.
- Disassembly of CD Servo P.C.B.
- Disassembly of Rear Panel
- Disassembly of Voltage Selector P.C.B.

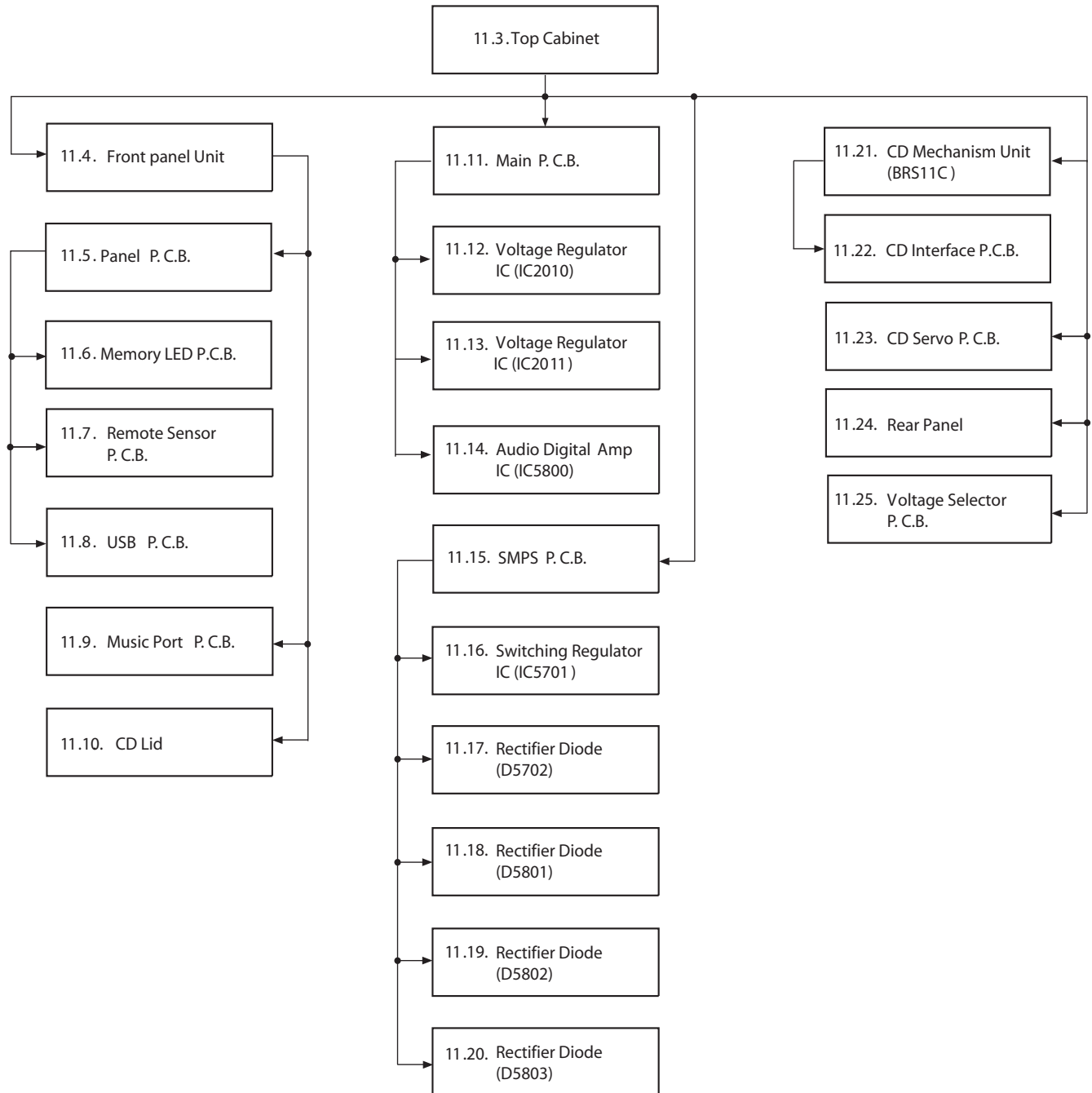
## CAUTION NOTE:

Please use original screw and at correct locations.

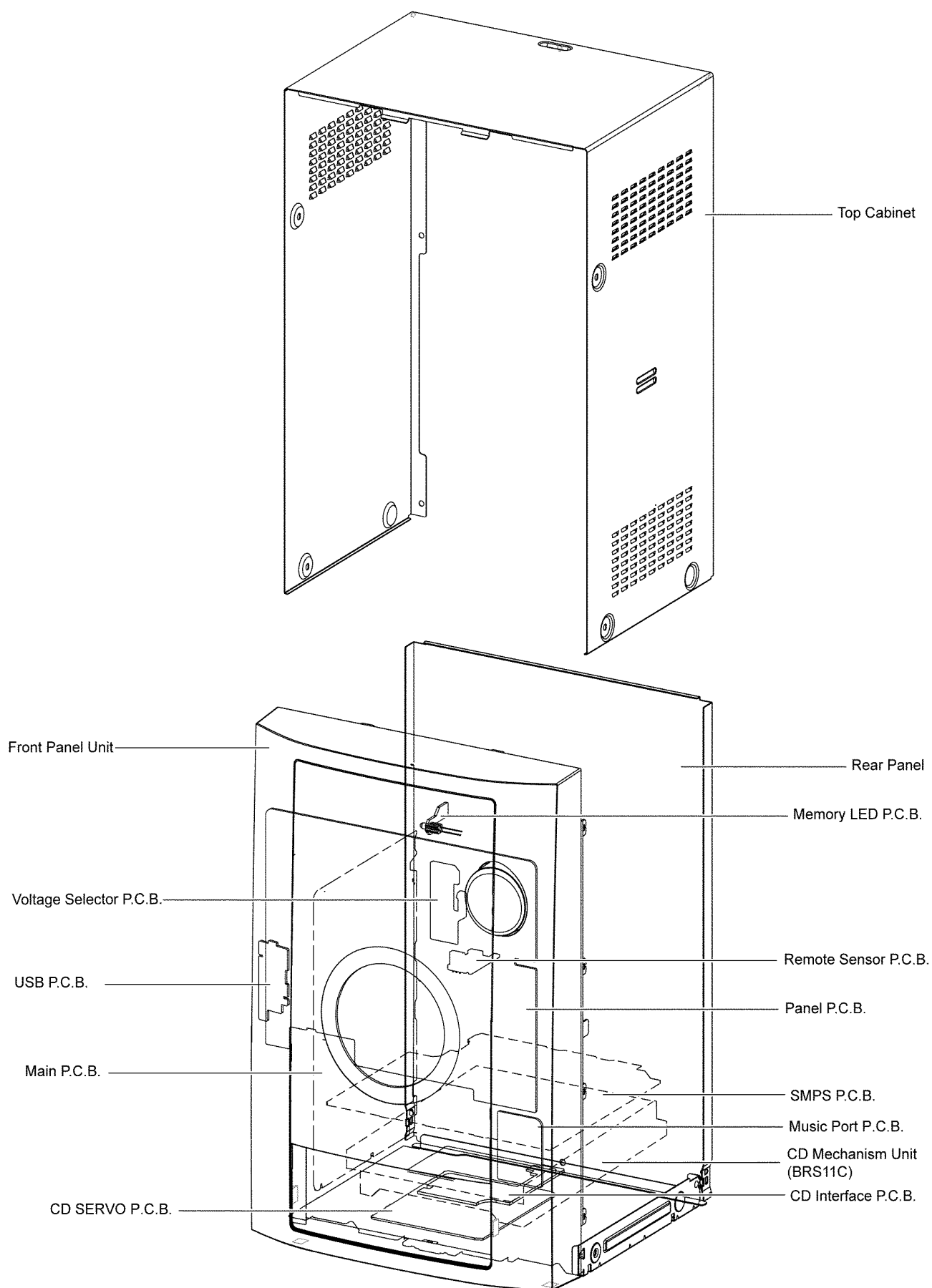
Below shown is part no. of different screw types used:

- |                        |                       |
|------------------------|-----------------------|
| <b>a</b> :RHD30007-K2J | <b>e</b> :XTB3+10JFJ  |
| <b>b</b> :RHD30119-S   | <b>f</b> :RHDX30005-J |
| <b>c</b> :RHD26046-L   | <b>g</b> :RHDX031008  |
| <b>d</b> :RHD30111-31  | <b>h</b> :XTN2+6GFJ   |

## 11.1. Disassembly Flow Chart



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

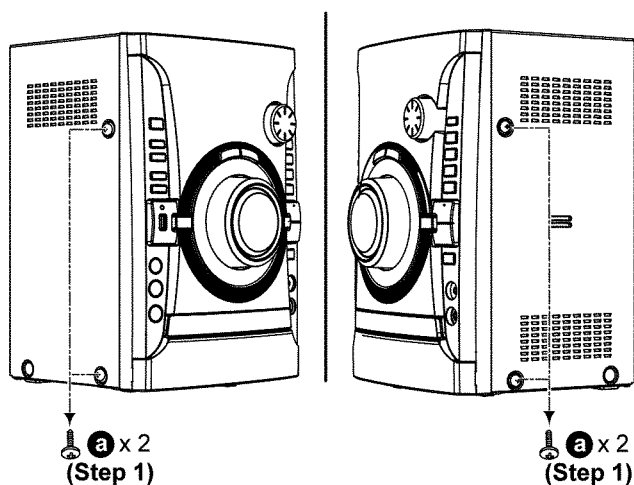


## 11.3. Disassembly of Top Cabinet

**Step 1** Remove 2 screws on each side.

(Left View)

(Right View)

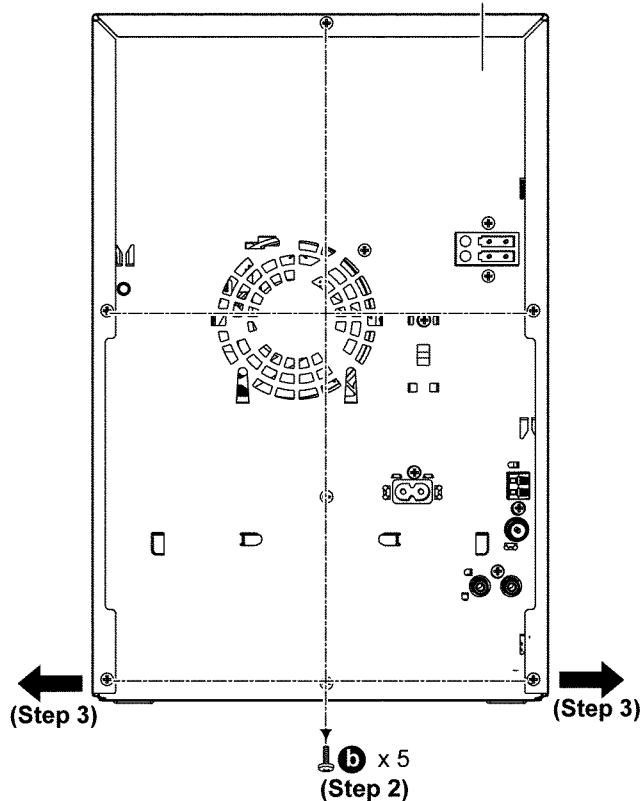


**Step 2** Remove 5 screws.

**Step 3** Slightly pull both side of the Top Cabinet outwards as arrow shown.

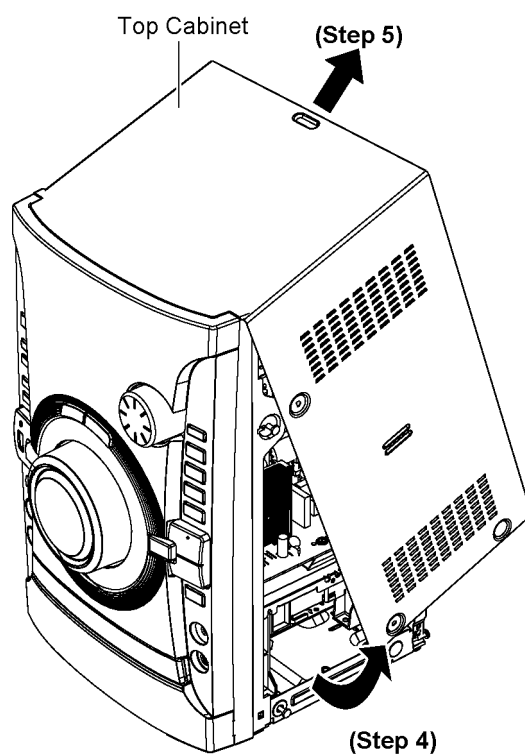
(Back View)

Rear Panel

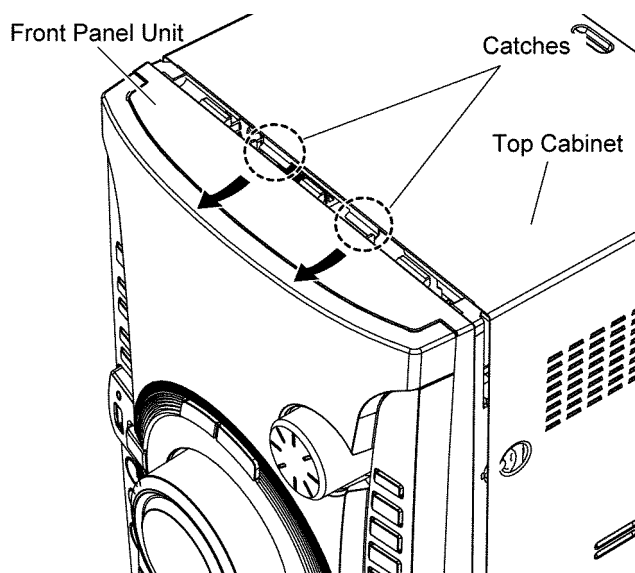


**Step 4** Slightly lift up both side of the Top Cabinet in an outward direction as shown.

**Step 5** Remove the Top Cabinet.



**Caution:** During assembling, ensure that catches of the Top Cabinet are properly located & inserted into Front Panel Unit as shown.

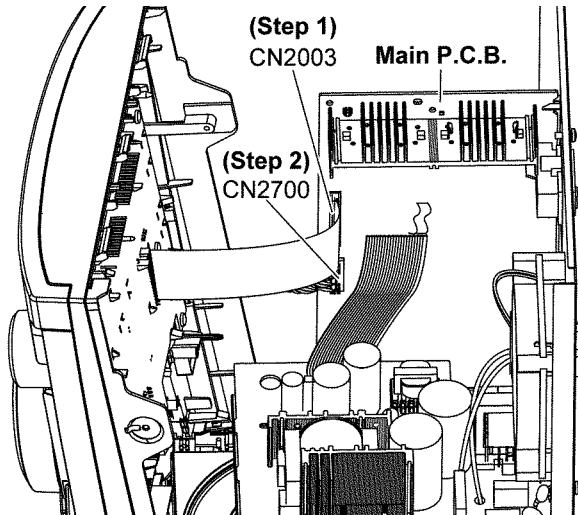


## 11.4. Disassembly of Front Panel Unit

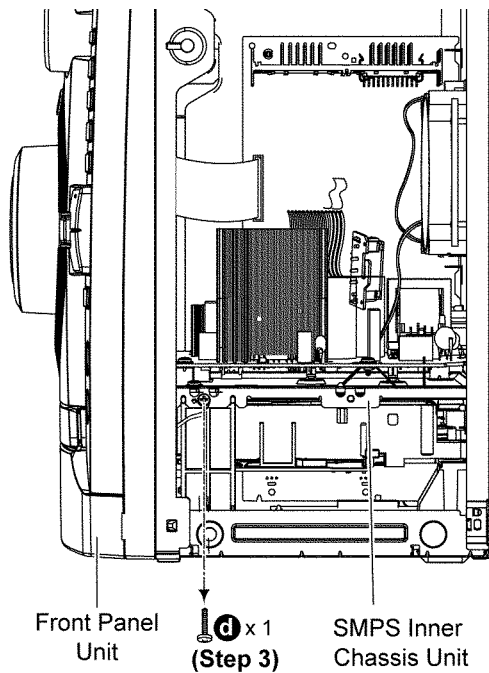
• Refer to “Disassembly of Top Cabinet”.

**Step 1** Detach 27P FFC at the connector (CN2003) on the Main P.C.B.

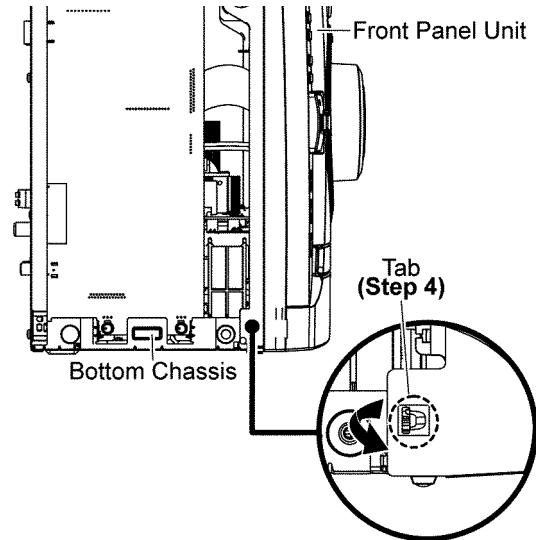
**Step 2** Detach 5P Cable Wire at the connector (CN2700) on the Main P.C.B.



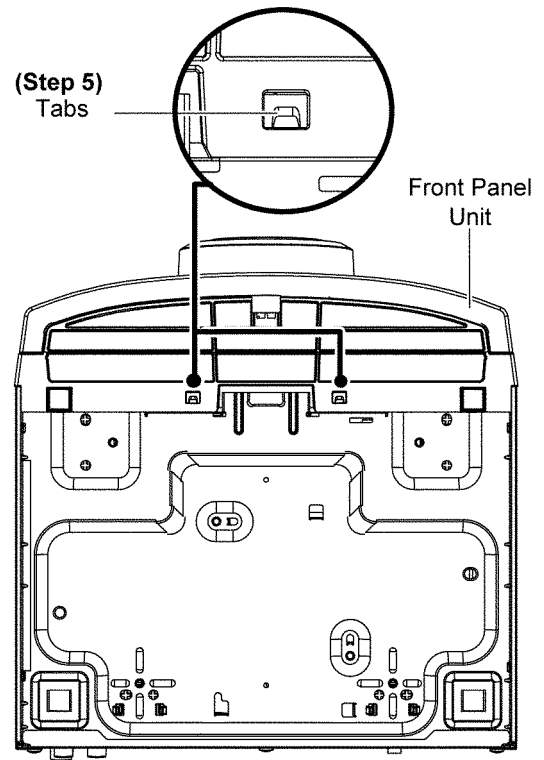
**Step 3** Remove 1 screw at the SMPS Inner Chassis Unit.



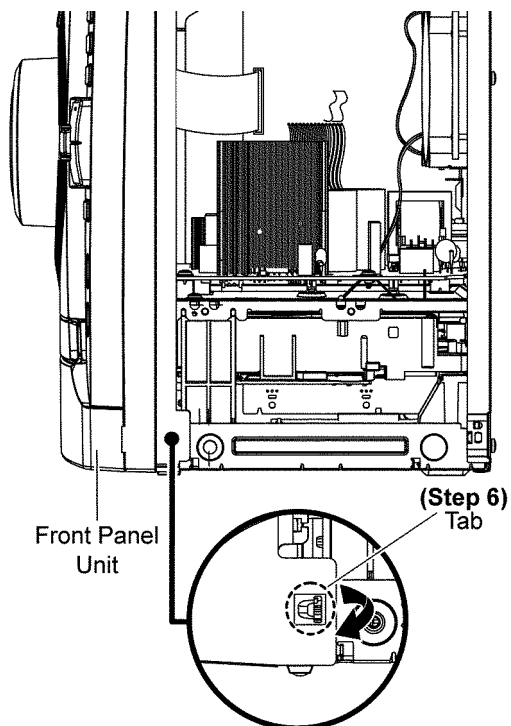
**Step 4** Push inwards slightly at the Bottom Chassis as arrow shown and release tab at left side of Front Panel Unit.



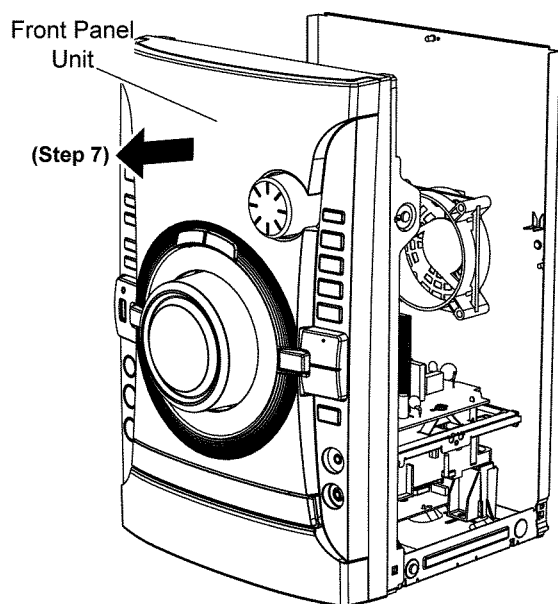
**Step 5** Release tabs at bottom of the unit.



**Step 6** Push inwards slightly at the Bottom Chassis and release tab at right side of Front Panel Unit.



**Step 7** Remove the Front Panel Unit

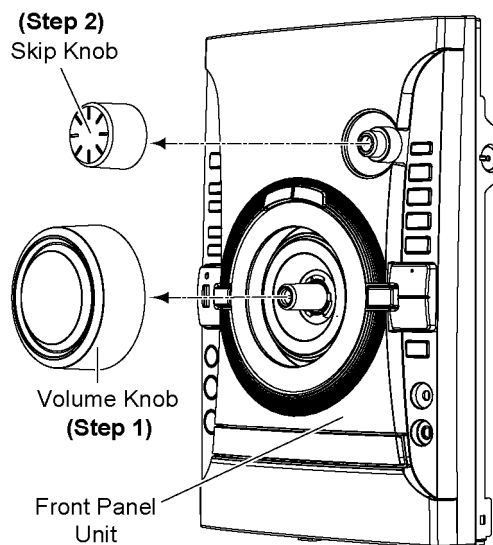


## 11.5. Disassembly of Panel P.C.B.

- Refer to "Disassembly of Top Cabinet".
- Refer to "Disassembly of Front Panel Unit".

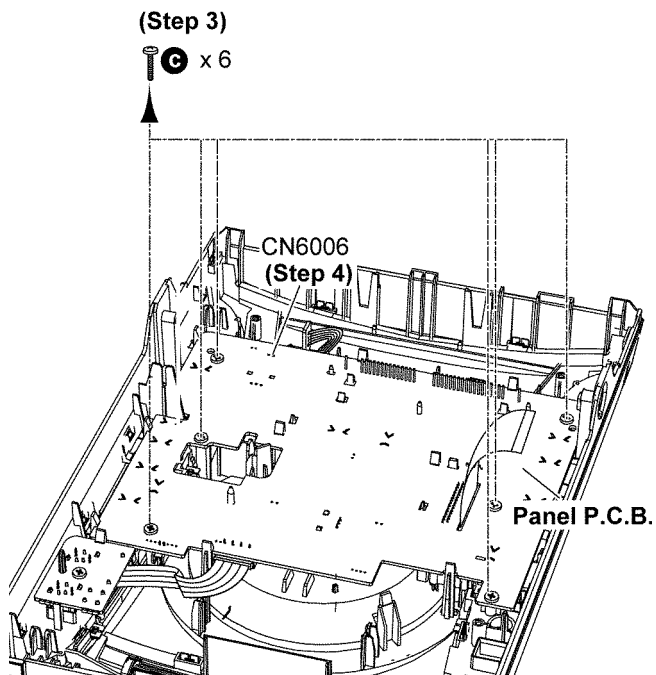
**Step 1** Remove the Volume Knob.

**Step 2** Remove the Skip Knob.



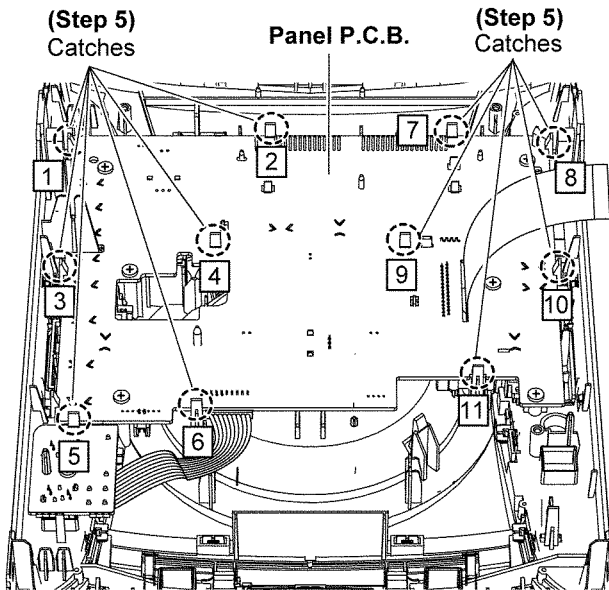
**Step 3** Remove 6 screws.

**Step 4** Detach 2P Cable Wire at the connector (CN6006) on Panel P.C.B..

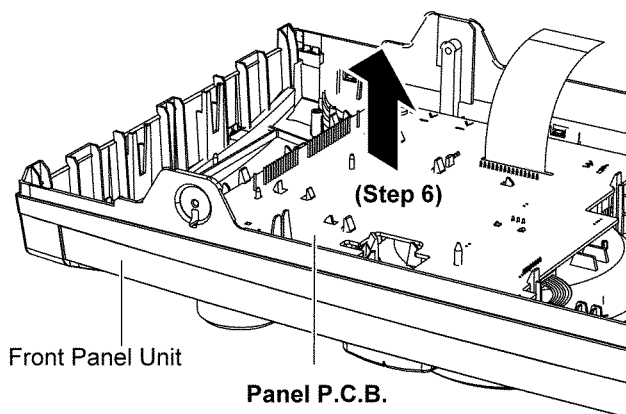




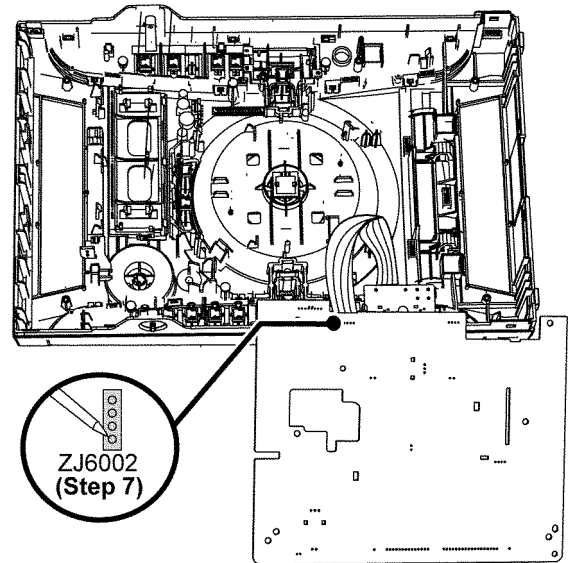
**Step 5** Release catches by following the sequences (1-11).



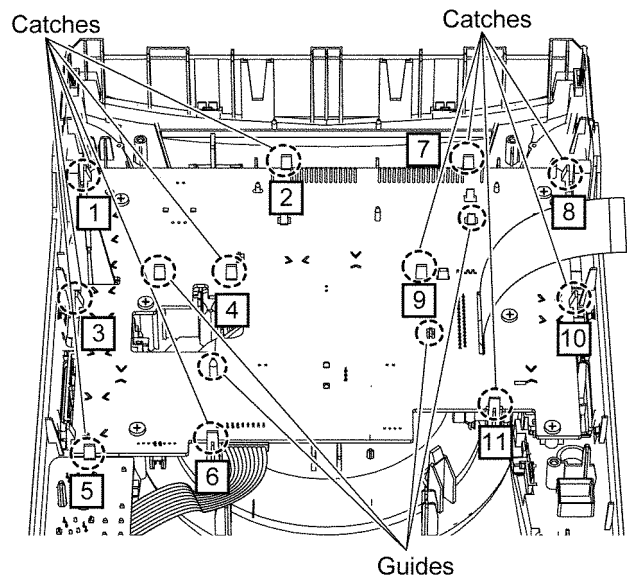
**Step 6** Lift up to remove the Panel P.C.B..



**Step 7** Desolder 4P Cable Wire at the connector (ZJ6002) on Panel P.C.B..



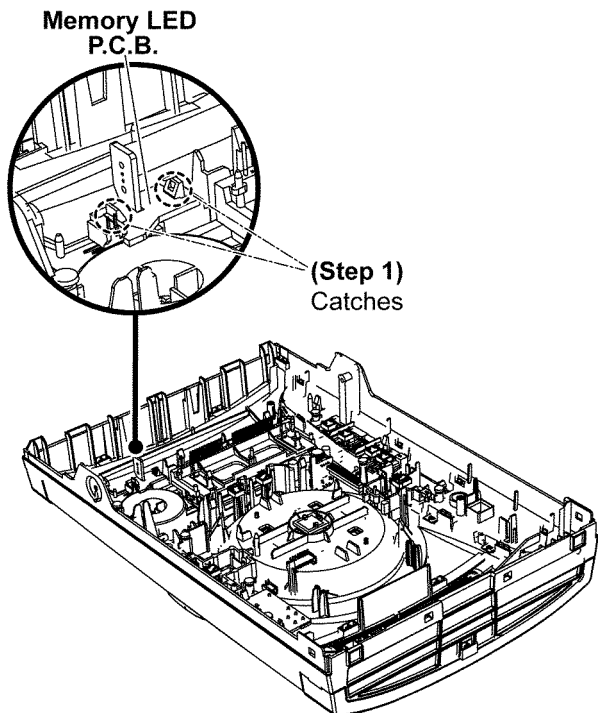
**Caution:** During assembling, ensure that Panel P.C.B. is seated properly through the guides & fully caught.



## 11.6. Disassembly of Memory LED P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Unit”.
- Refer to “Disassembly of Panel P.C.B.”.

**Step 1** Release 2 catches.

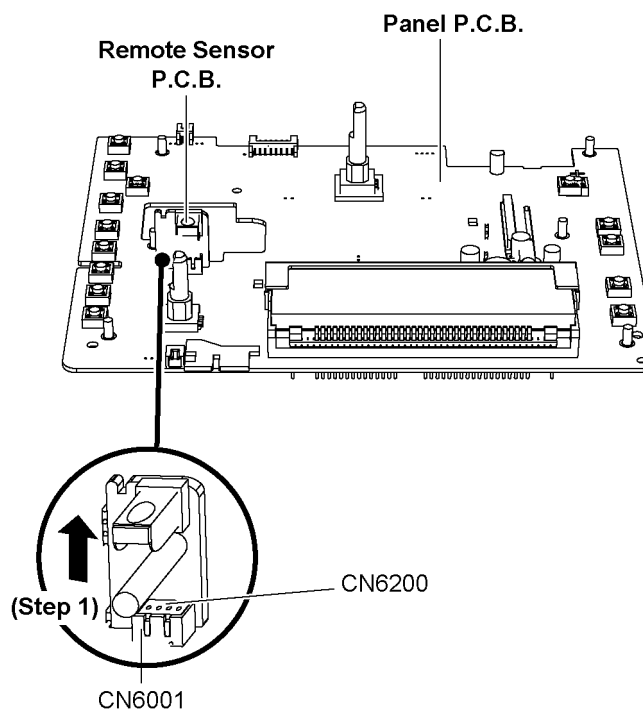


## 11.7. Disassembly of Remote Sensor P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Unit”.
- Refer to “Disassembly of Panel P.C.B.”.

**Step 1** Remove the Remote Sensor P.C.B..

**Caution:** During assembling, ensure that Remote Sensor P.C.B. is properly inserted & fully connected to Panel P.C.B..

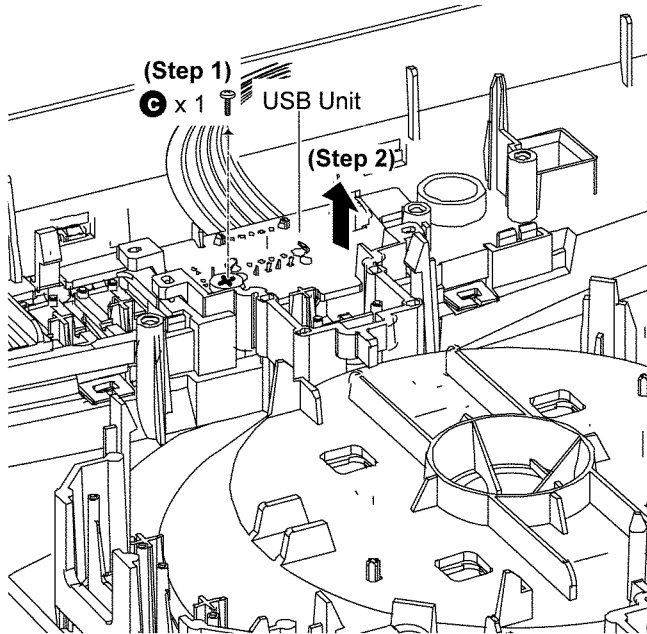


## 11.8. Disassembly of USB P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Unit”.
- Refer to “Disassembly of Panel P.C.B.”.

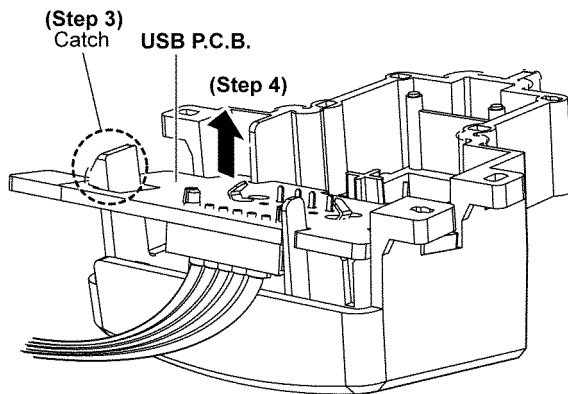
**Step 1** Remove 1 screw.

**Step 2** Remove the USB Unit.



**Step 3** Release 1 catch.

**Step 4** Remove the USB P.C.B..



## 11.9. Disassembly of Music Port P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Unit”.

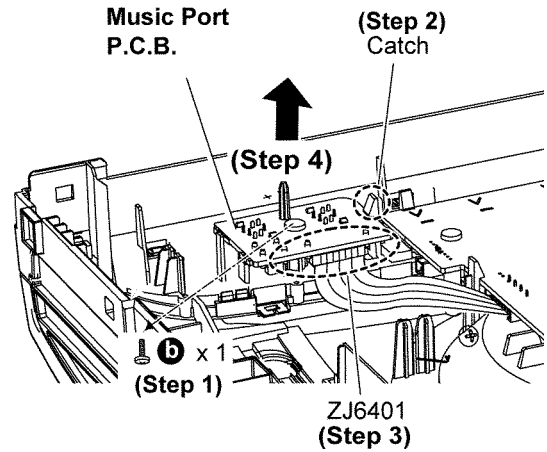
**Step 1** Remove 1 screw.

**Step 2** Release 1 catch.

**Step 3** Desolder 8P Cable Wire at ZJ6401 on Panel P.C.B..

**Step 4** Remove the Music Port P.C.B..

**Caution:** During assembling, ensure that Music Port P.C.B. is properly located & fully caught onto Front Panel.

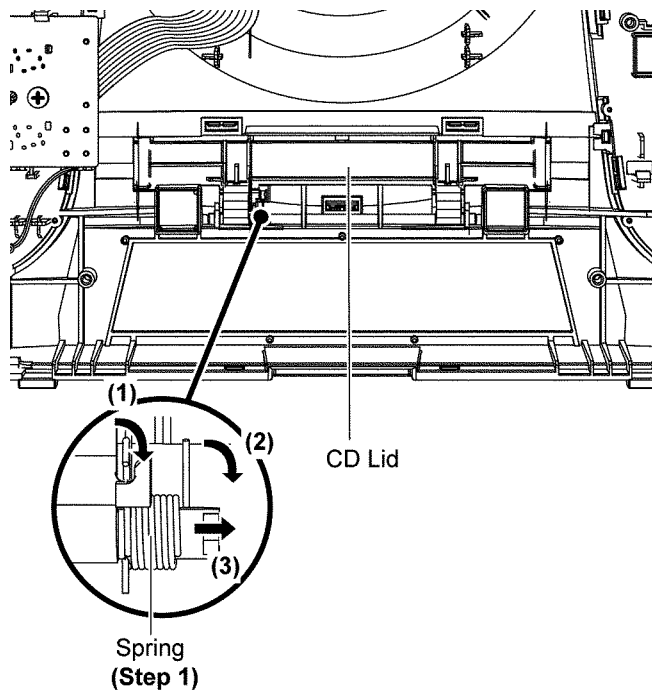


## 11.10. Disassembly of CD Lid

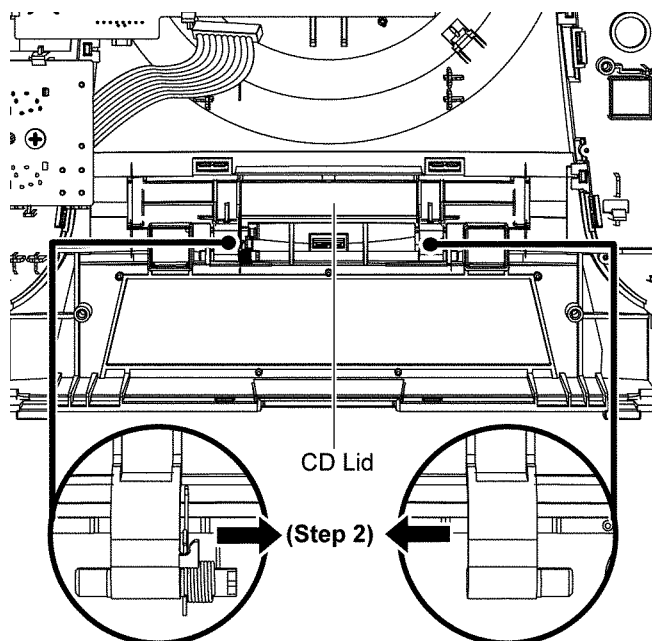
- Refer to "Disassembly of Top Cabinet".
- Refer to "Disassembly of Front Panel Unit".

**Step 1** Remove the spring as arrow shown in order of sequence (1) to (3).

**Caution:** During assembling, ensure that the spring is assembly at right position.



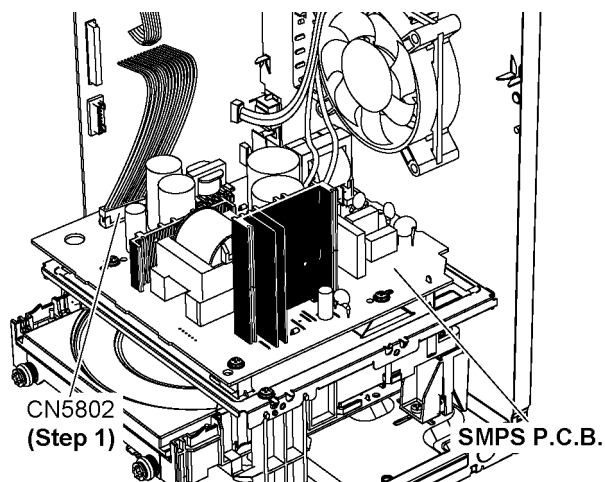
**Step 2** Remove the CD Lid as arrow shown.



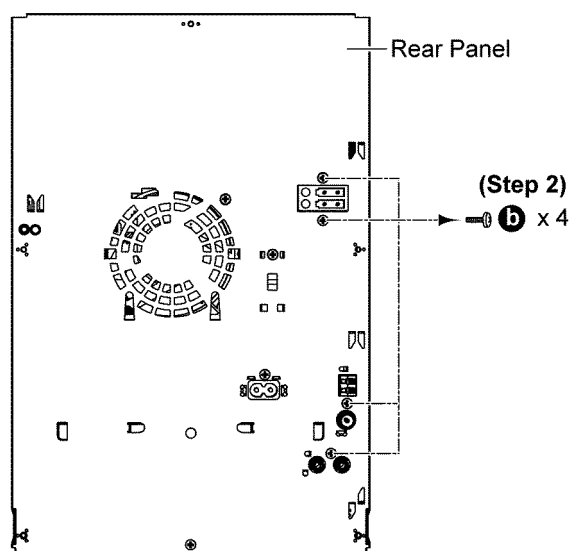
## 11.11. Disassembly of Main P.C.B.

- Refer to "Disassembly of Top Cabinet".
- Refer to "Disassembly of Front Panel Unit".

**Step 1** Detach 15P Cable Wire at the connector (CN5802) on SMPS P.C.B..

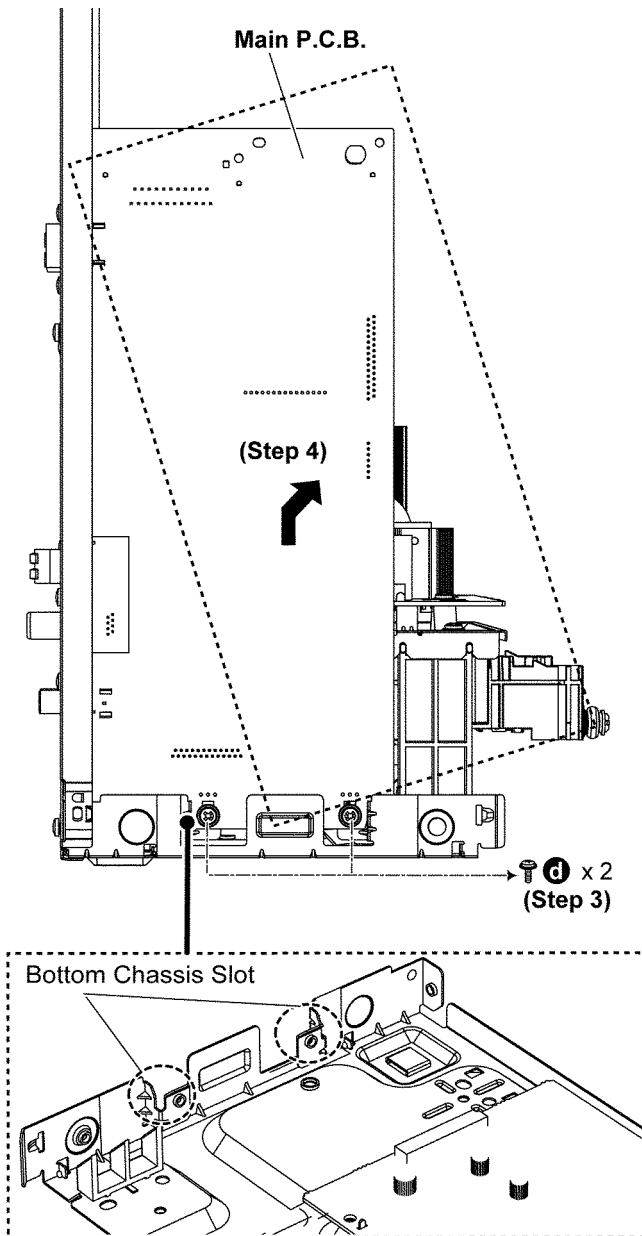


**Step 2** Remove 4 screws.

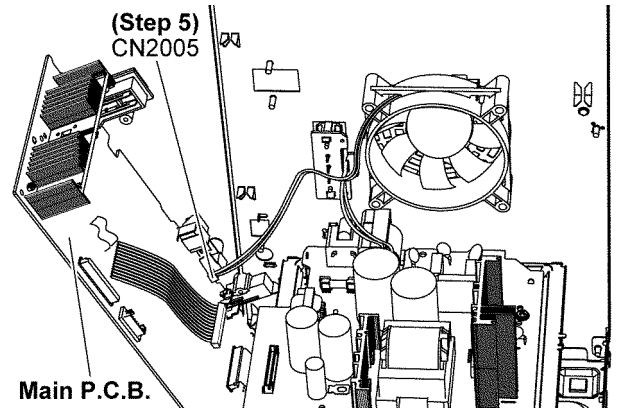


**Step 3** Remove 2 screws.

**Step 4** Slightly lift up the Main P.C.B. from Bottom Chassis slot according to arrow shown.

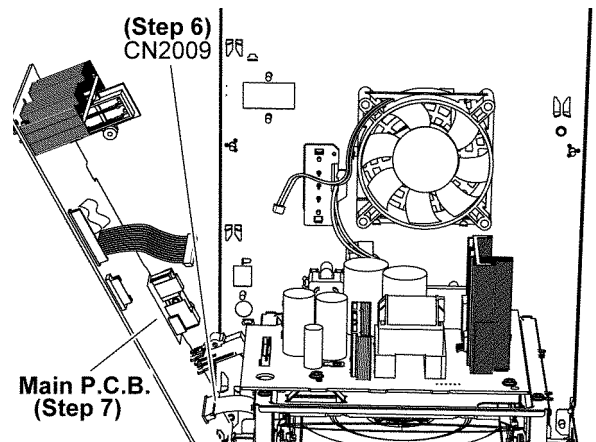


**Step 5** Detach 2P Wire at the connector (CN2005) on the Main P.C.B..

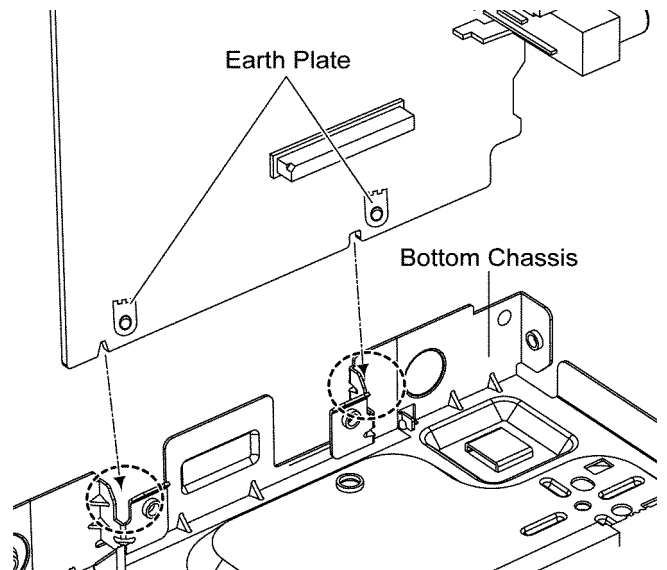


**Step 6** Detach 30P FFC at the connector (CN2009) on Main P.C.B..

**Step 7** Remove Main P.C.B..



**Caution:** During assembling, ensure that earth plate is bended flat against the Main P.C.B. properly when inserted to locators.

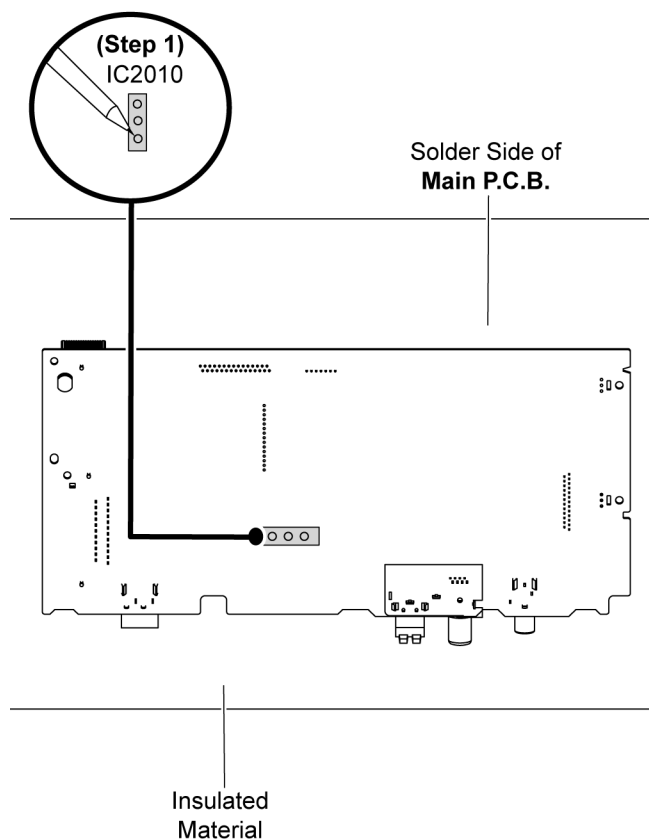


## 11.12. Replacement of Voltage Regulator IC (IC2010)

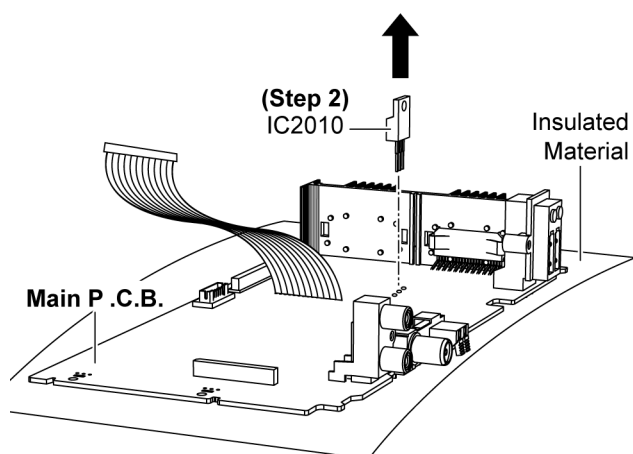
- Refer to “Disassembly of Main P.C.B.”.

### 11.12.1. Disassembly of Voltage Regulator IC (IC2010)

**Step 1** Desolder pins of the Voltage Regulator IC (IC2010) on the solder side of the Main P.C.B..



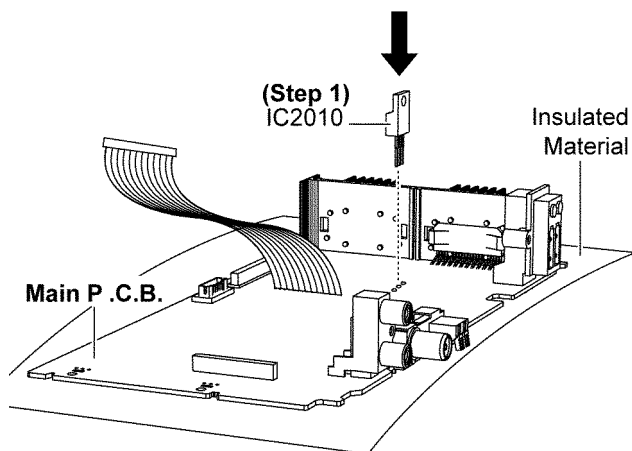
**Step 2** Remove the Voltage Regulator IC (IC2010) from the Main P.C.B..



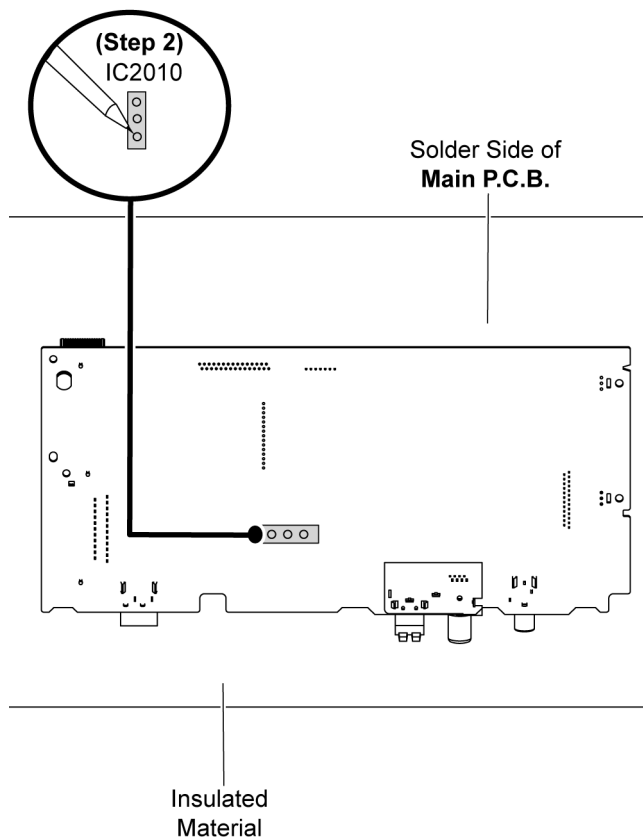
### 11.12.2. Assembly of Voltage Regulator IC (IC2010)

**Step 1** Fix the Voltage Regulator IC (IC2010) on Main P.C.B..

**Caution:** Ensure pins of the Voltage Regulator IC (IC2010) are properly seated on Main P.C.B..



**Step 2** Solder pins of the Voltage Regulator IC (IC2010) on the solder side of Main P.C.B..

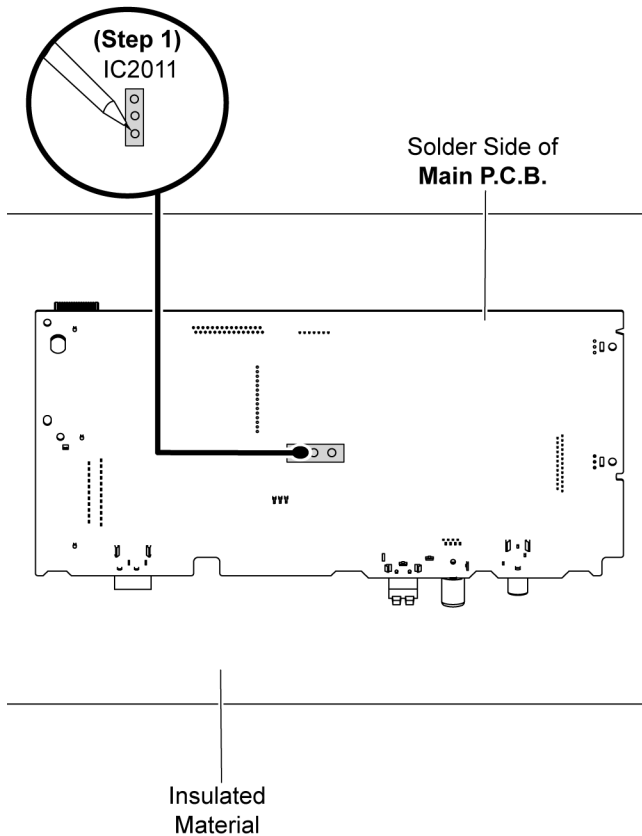


## 11.13. Replacement of Voltage Regulator IC (IC2011)

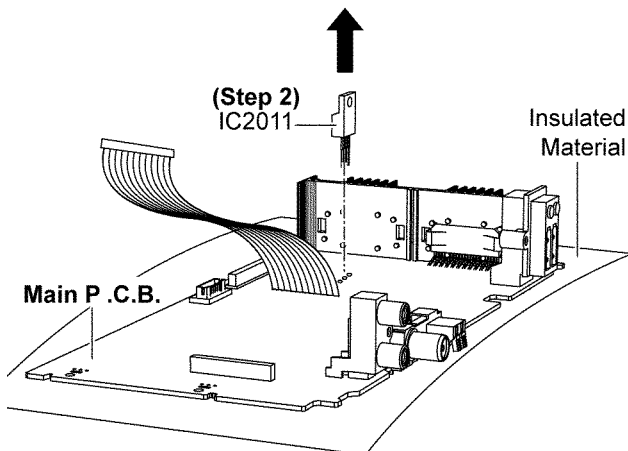
- Refer to “Disassembly of Main P.C.B.”.

### 11.13.1. Disassembly of Voltage Regulator IC (IC2011)

**Step 1** Desolder pins of the Voltage Regulator IC (IC2011) on the solder side of the Main P.C.B..



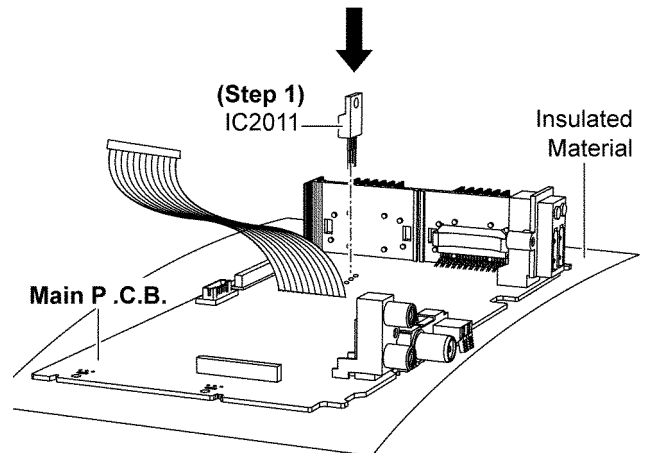
**Step 2** Remove the Voltage Regulator IC (IC2011) from the Main P.C.B..



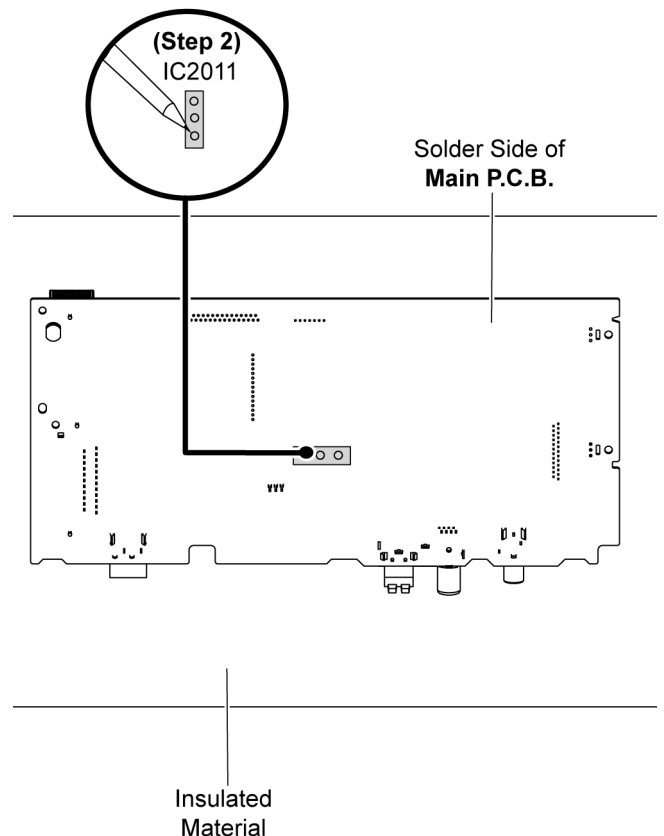
### 11.13.2. Assembly of Voltage Regulator IC (IC2011)

**Step 1** Fix the Voltage Regulator IC (IC2011) on the Main P.C.B..

**Caution:** Ensure pins of the Voltage Regulator IC (IC2011) are properly seated on the Main P.C.B..



**Step 2** Solder pins of the Voltage Regulator IC (IC2011) on the solder side of the Main P.C.B..

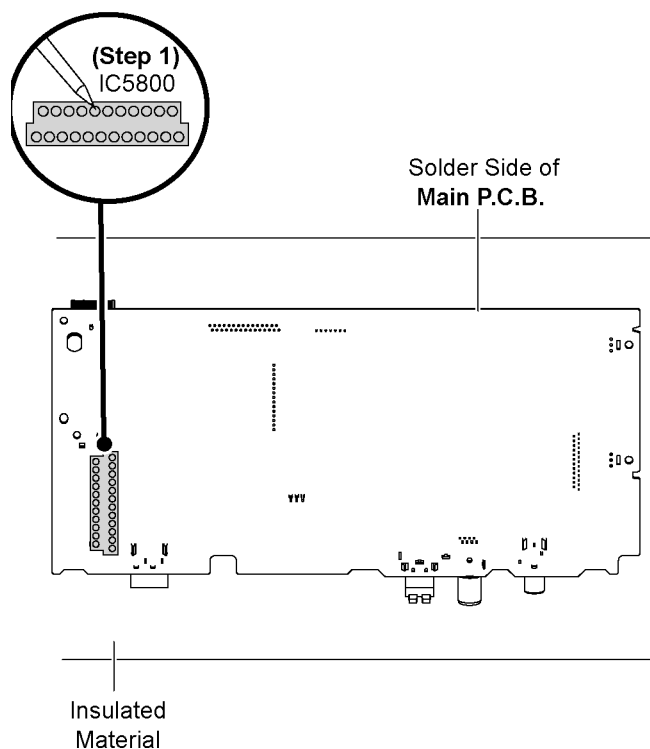


## 11.14. Replacement of Audio Digital Amp IC (IC5800)

- Refer to “Disassembly of Main P.C.B.”.

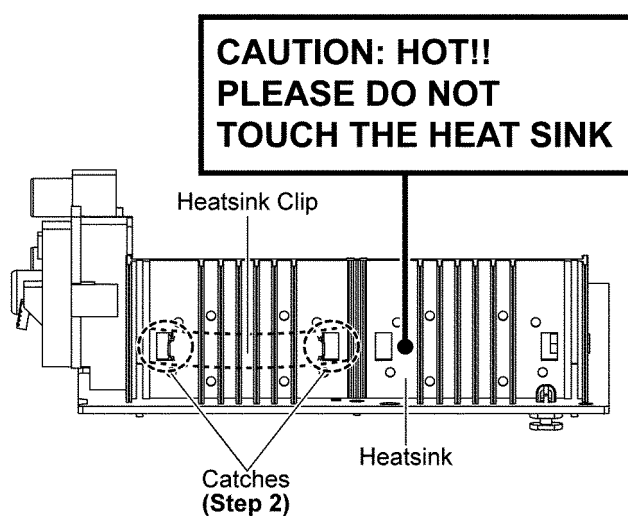
### 11.14.1. Disassembly of Audio Digital Amp IC (IC5800)

**Step 1** Desolder pins of the Audio Digital Amp IC (IC5800) on the solder side of the Main P.C.B..



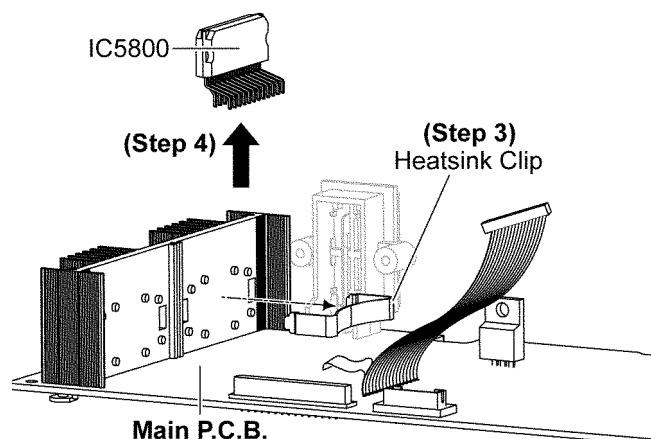
**Step 2** Release 2 catches of Heatsink Clip.

**Caution:** During releasing of 2 catches, avoid touching the Heatsink, due to high temperature.



**Step 3** Remove the Heatsink Clip.

**Step 4** Remove the Audio Digital Amp IC (IC5800).



### 11.14.2. Assembly of Audio Digital Amp IC (IC5800)

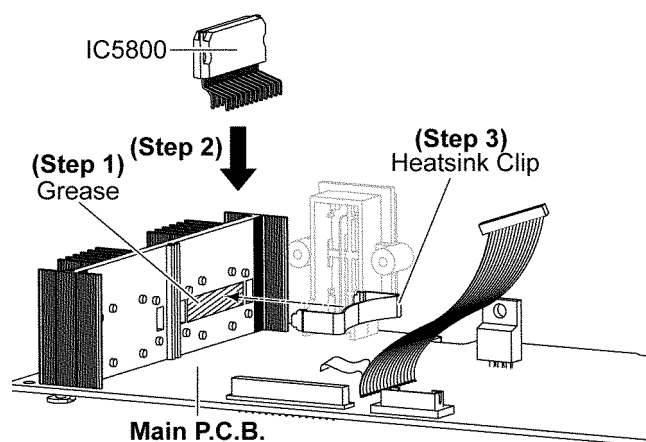
**Step 1** Apply grease to the Heatsink.

**Step 2** Fix the Audio Digital Amp IC (IC5800) on the Main P.C.B.

**Caution:** Ensure pins of the Audio Digital Amp IC (IC5800) are properly seated on the Main P.C.B.

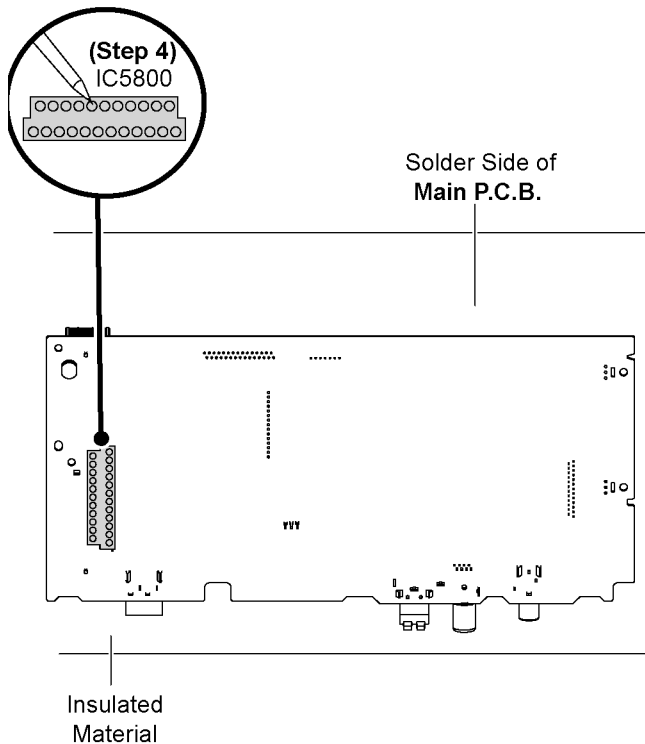
**Step 3** Fix Heatsink Clip to the Heatsink.

**Caution:** During assembling, ensure that Heatsink Clip is caught onto Heatsink properly.





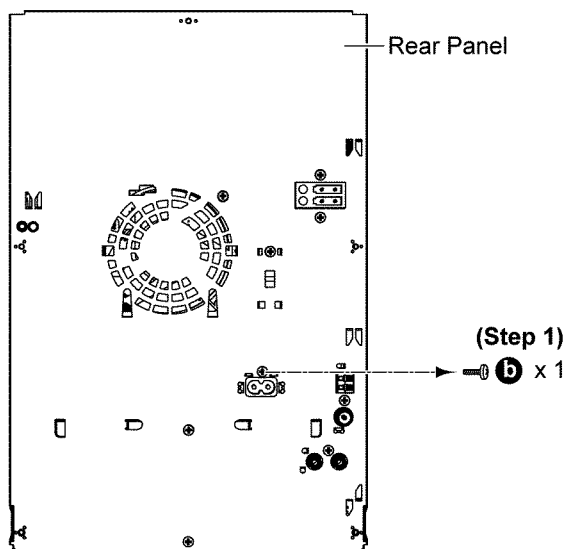
**Step 4** Solder pins of the Audio Digital Amp IC (IC5800) on the solder side of the Main P.C.B..



## 11.15. Disassembly of SMPS P.C.B.

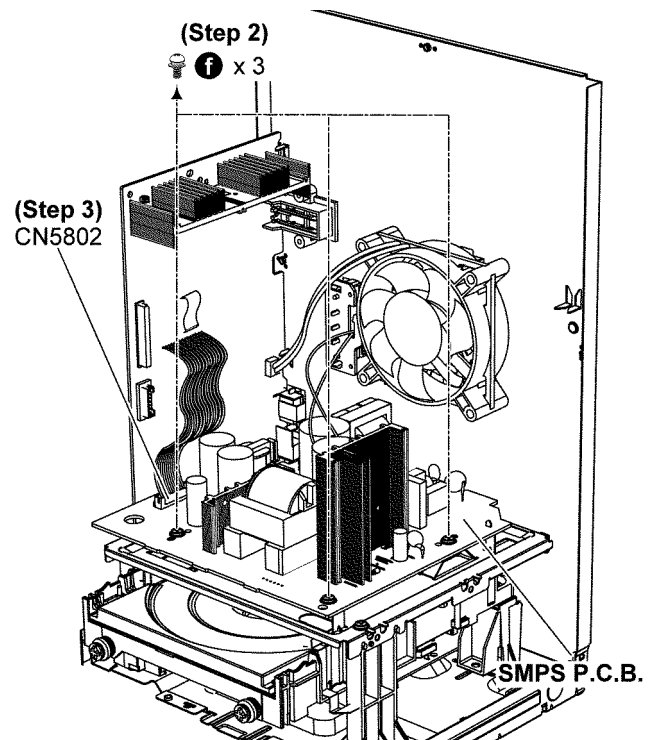
- Refer to “Disassembly of Top Cabinet.”.
- Refer to “Disassembly of Front Panel Unit”.

**Step 1** Remove 1 screw.



**Step 2** Remove 3 screws.

**Step 3** Detach 15P Cable Wire at the connector (CN5802) on SMPS P.C.B..

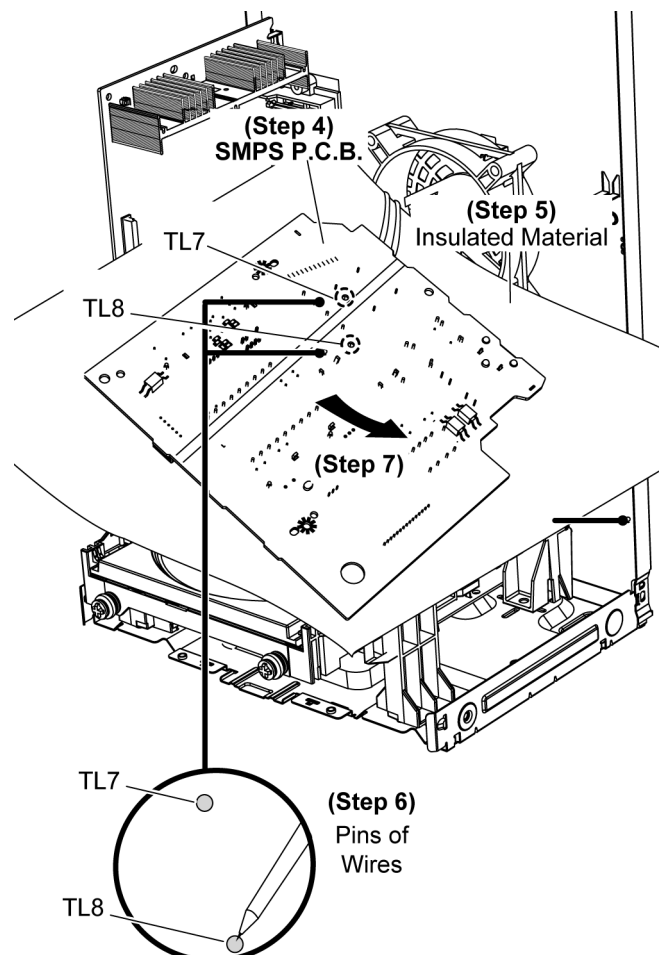


**Step 4** Flip the SMPS P.C.B. and position it according to diagram shown.

**Step 5** Place the SMPS P.C.B. on an insulated material.

**Step 6** Desolder Black Wire (TL7) and Red Wire TL8 (Red).

**Step 7** Remove the SMPS P.C.B..

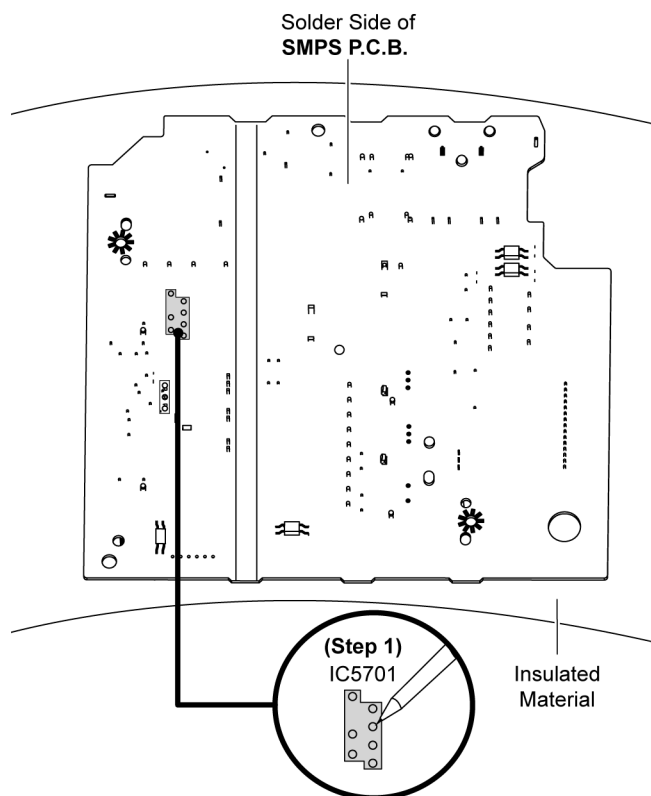


## 11.16. Replacement of Switching Regulator IC (IC5701)

- Refer to “Disassembly of SMPS P.C.B.”.

### 11.16.1. Disassembly of Switching Regulator IC (IC5701)

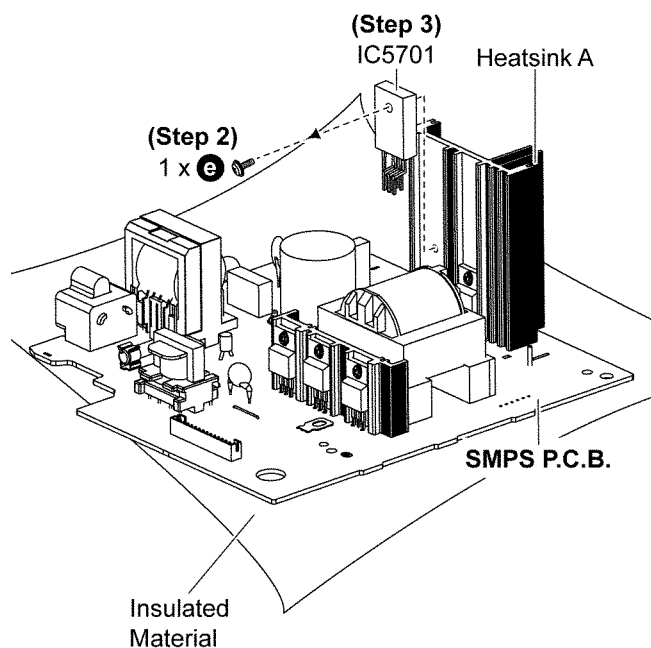
**Step 1** Desolder pins of the Switching Regulator IC (IC5701) on the solder side of the SMPS P.C.B..



**Step 2** Remove 1 screw.

**Step 3** Remove the Switching Regulator IC (IC5701).

**Caution:** Avoid touching the Heatsink A due to its high temperature after prolonged use. Touching it may lead to injuries.



### 11.16.2. Assembly of Switching Regulator IC (IC5701)

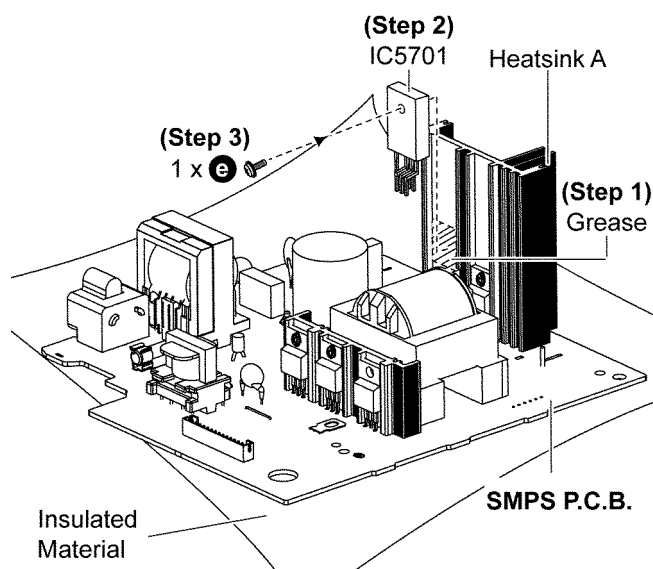
**Step 1** Apply grease to the Heatsink A.

**Step 2** Fix the Switching Regulator IC (IC5701) to the SMPS P.C.B..

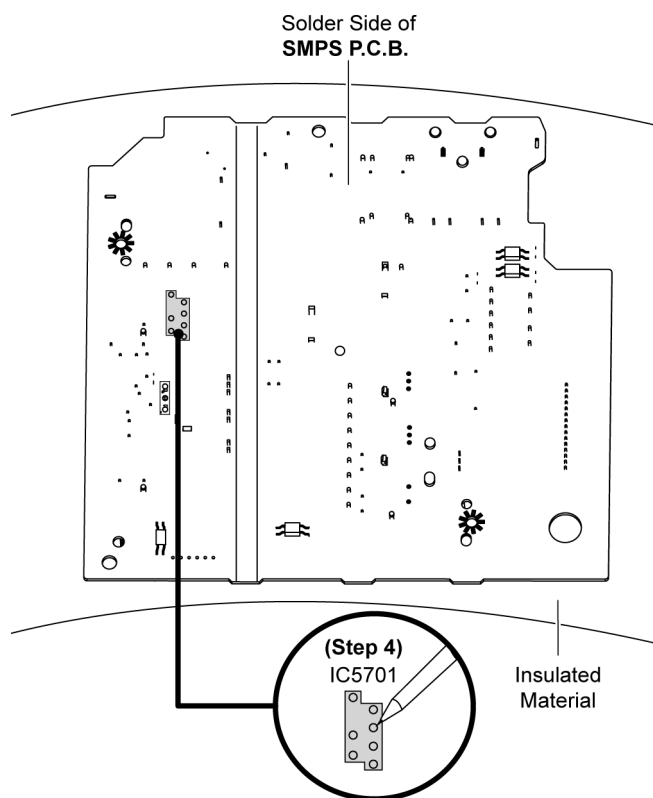
**Caution:** Ensure pins of the Switching Regulator IC (IC5701) are properly inserted on SMPS P.C.B..

**Step 3** Screw the Switching Regulator IC (IC5701) to the Heatsink A.

**Caution:** Ensure the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink A.



**Step 4** Solder pins of the Switching Regulator IC (IC5701) on the solder side of the SMPS P.C.B..



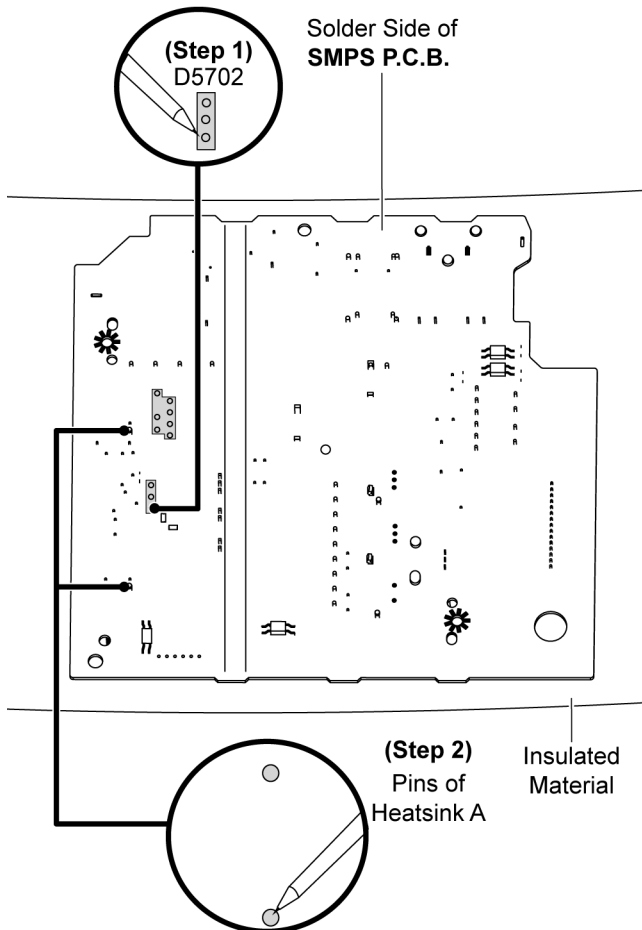
## 11.17. Replacement of Rectifier Diode (D5702)

• Refer to “Disassembly of SMPS P.C.B.”.

### 11.17.1. Disassembly of Rectifier Diode (D5702)

**Step 1** Desolder pins of the Rectifier Diode (D5702) on the solder side of the SMPS P.C.B.

**Step 2** Desolder pins of the Heatsink A.



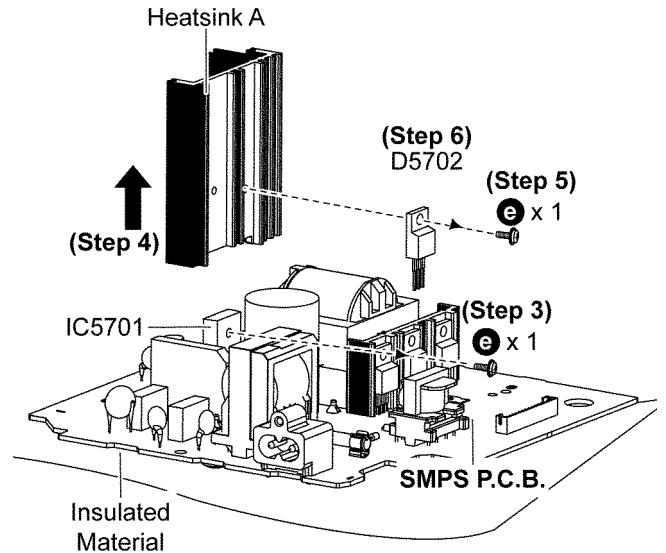
**Step 3** Remove 1 screw at Switching Regulator IC (IC5701).

**Step 4** Remove the Heatsink A with Rectifier Diode (D5702).

**Step 5** Remove 1 screw.

**Step 6** Remove the Rectifier Diode (D5702) from the Heatsink A.

**Caution:** Avoid touching the Heatsink A due to its high temperature after prolong use. Touching it may lead to injuries.



### 11.17.2. Assembly of Rectifier Diode (D5702)

**Step 1** Apply grease to the Heatsink A.

**Step 2** Screw the Rectifier Diode (D5702) to the Heatsink A.

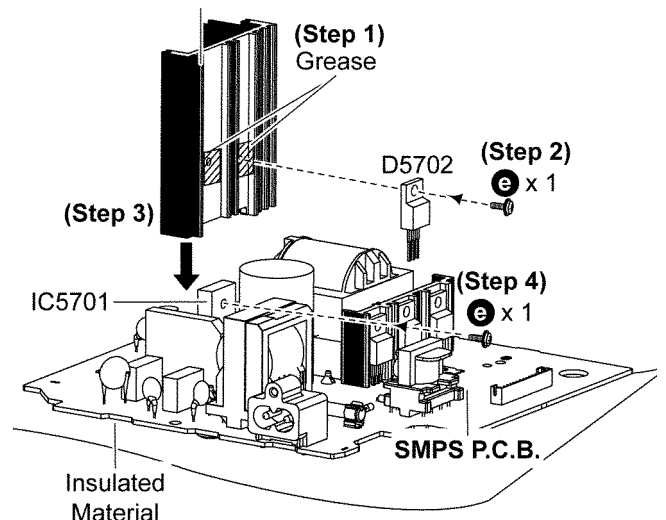
**Caution:** Ensure the Rectifier Diode (D5702) is tightly screwed to the Heatsink A.

**Step 3** Fix the Heatsink A with Rectifier Diode (D5702) on the SMPS P.C.B. as shown.

**Caution:** Ensure the Heatsink A with Rectifier Diode (D5702) are properly seated on the SMPS P.C.B.

**Step 4** Screw the Switching Regulator IC (IC5701) to the Heatsink A.

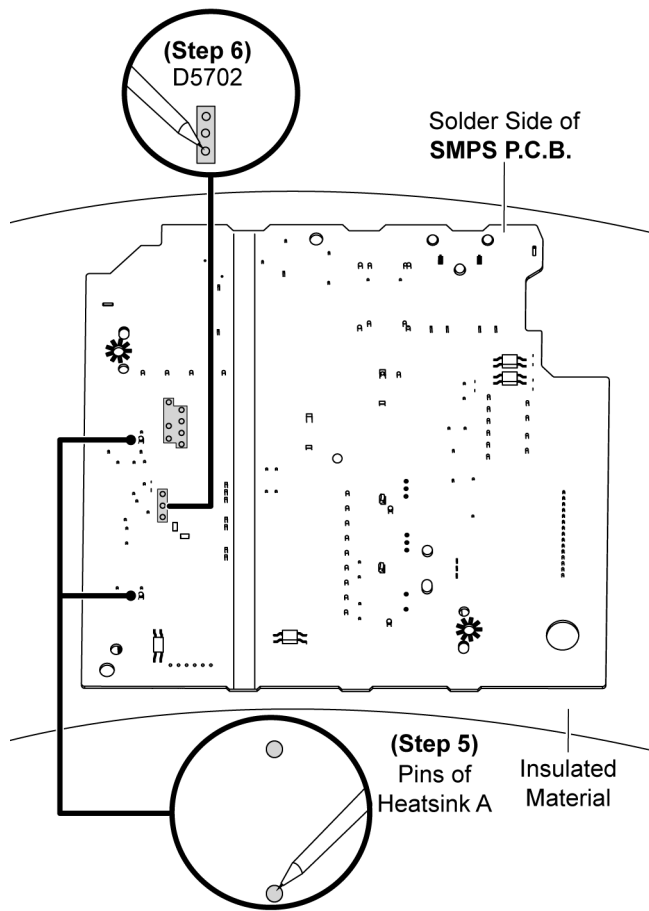
**Caution:** Ensure that the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink A.



**Step 5** Solder pins of the Rectifier Diode (D5702) on the solder side of SMPS P.C.B..

**Step 6** Solder pins of the Heatsink A on the solder side of SMPS P.C.B..

**Caution:** Ensure pins of the Rectifier Diode (D5702) are properly seated and soldered on the SMPS P.C.B..



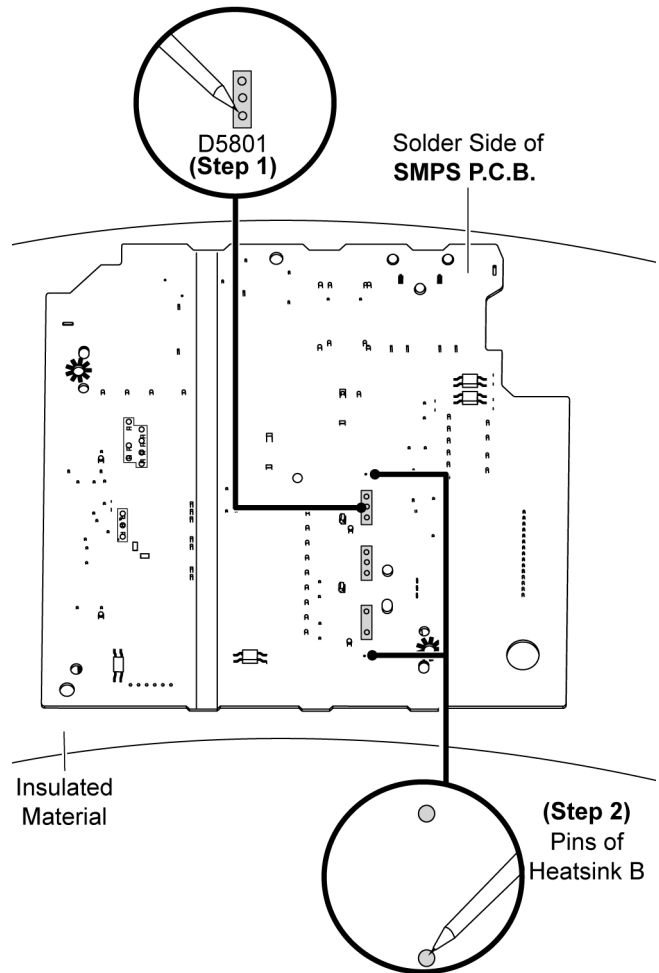
## 11.18. Replacement of Rectifier Diode (D5801)

• Refer to "Disassembly of SMPS P.C.B..".

### 11.18.1. Disassembly of Rectifier Diode (D5801)

**Step 1** Desolder pins of the Rectifier Diode (D5801) on the solder side of SMPS P.C.B.

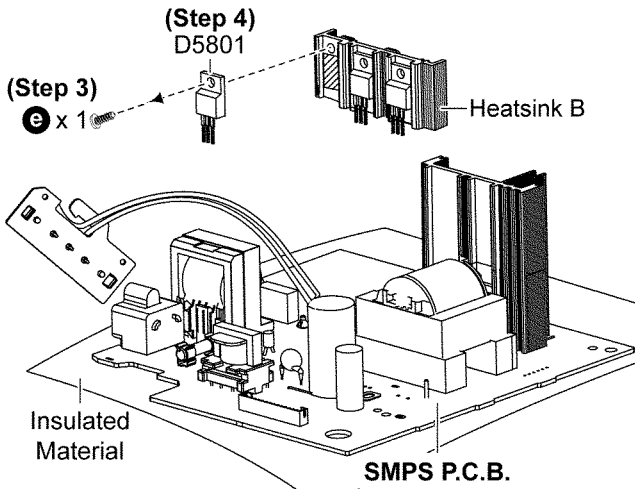
**Step 2** Desolder pins of the Heatsink B.



**Step 3** Remove 1 screw at Rectifier Diode (D5801).

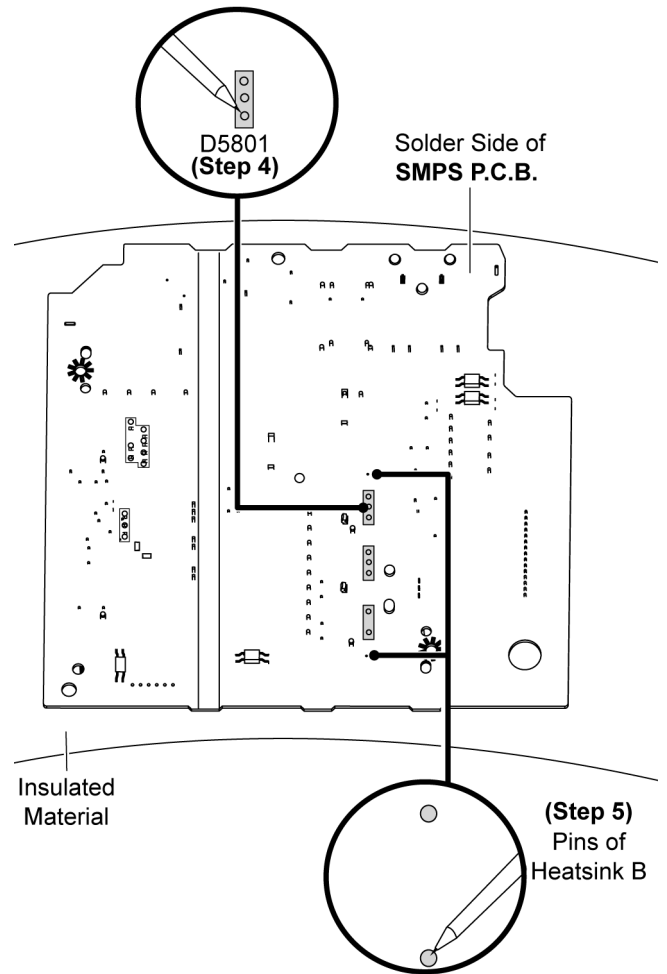
**Step 4** Remove the Rectifier Diode (D5801) from the SMPS P.C.B..

**Caution:** Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.



**Step 4** Solder pins of the Rectifier Diode (D5801) on the solder side of SMPS P.C.B..

**Step 5** Solder pins of the Heatsink B..



### 11.18.2. Assembly of Rectifier Diode (D5801)

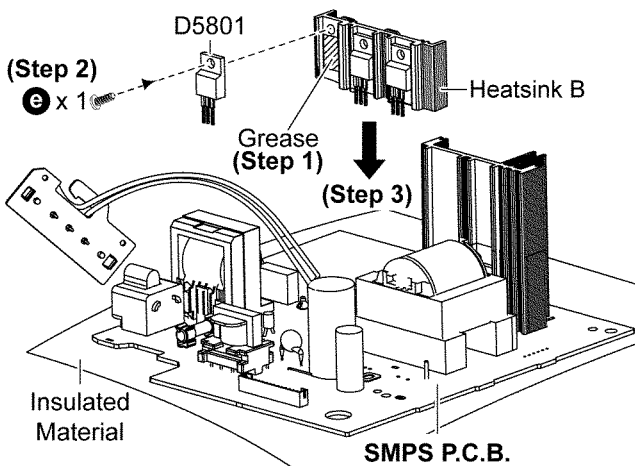
**Step 1** Apply grease to the Heatsink B.

**Step 2** Screw the Rectifier Diode (D5801) to the Heatsink B.

**Caution:** Ensure the Rectifier Diode (D5801) is tightly screwed to the Heatsink B.

**Step 3** Fix the Heatsink B with Rectifier Diode (D5801) on SMPS P.C.B. as shown.

**Caution:** Ensure pins of the Rectifier Diode (D5801) is properly seated on the SMPS P.C.B.



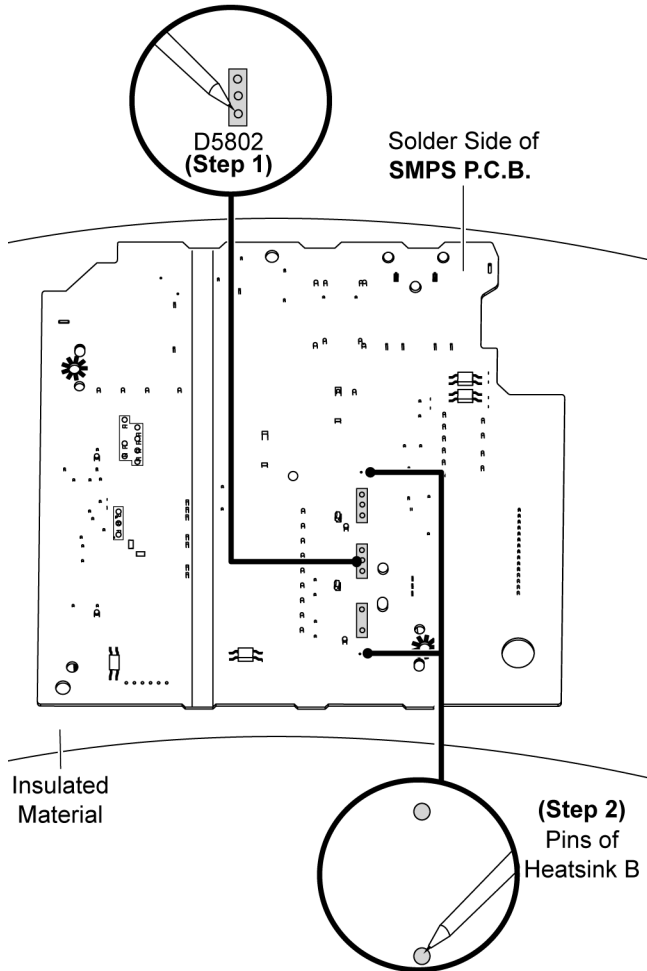
## 11.19. Replacement of Rectifier Diode (D5802)

- Refer to “Disassembly of SMPS P.C.B.”.

### 11.19.1. Disassembly of Rectifier Diode (D5802)

**Step 1** Desolder pins of the Rectifier Diode (D5802) on the solder side of the SMPS P.C.B.

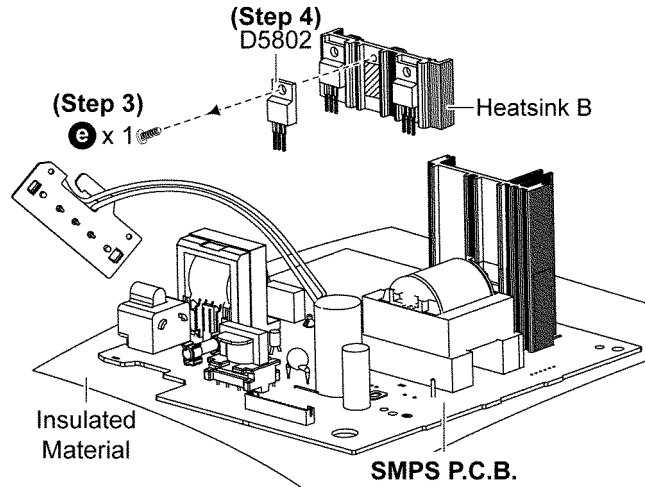
**Step 2** Desolder pins of the Heatsink B.



**Step 3** Remove 1 screw at Rectifier Diode (D5802).

**Step 4** Remove the Rectifier Diode (D5802) from SMPS P.C.B..

**Caution:** Avoid touching the Heatsink B due to its high temperature after prolong use. Touching it may lead to injuries.



### 11.19.2. Assembly of Rectifier Diode (D5802)

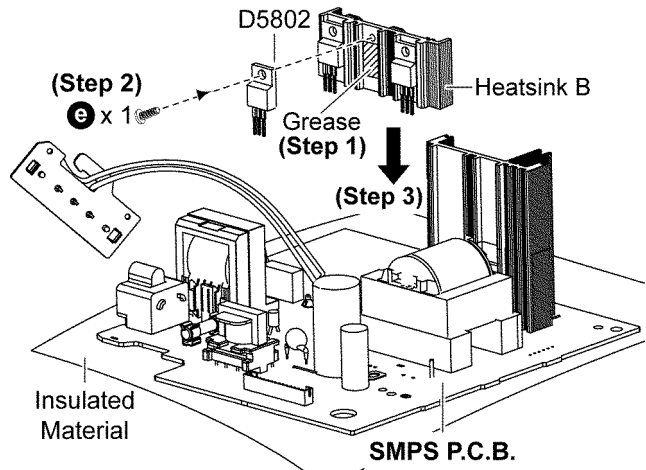
**Step 1** Apply grease to the Heatsink B.

**Step 2** Screw the Rectifier Diode (D5802) to the Heatsink B.

**Caution:** Ensure the Rectifier Diode (D5802) is tightly screwed to the Heatsink B.

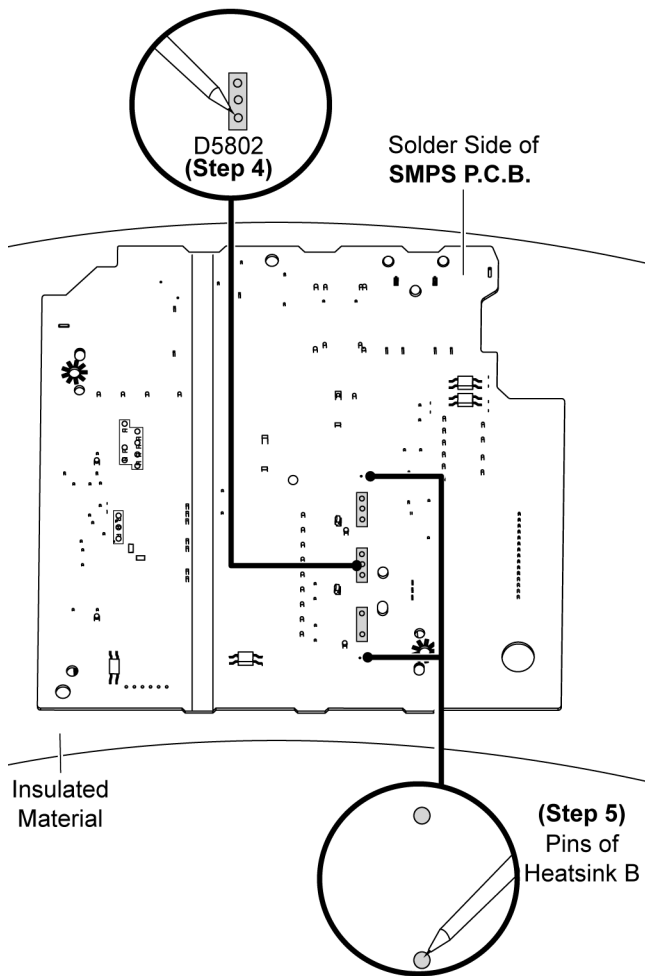
**Step 3** Fix the Heatsink B with Rectifier Diode (D5802) on SMPS P.C.B. as shown.

**Caution:** Ensure pins of the Rectifier Diode (D5802) is properly seated on the SMPS P.C.B.



**Step 4** Solder pins of the Rectifier Diode (D5802) on the solder side of the SMPS P.C.B..

**Step 5** Solder pins of the Heatsink B..



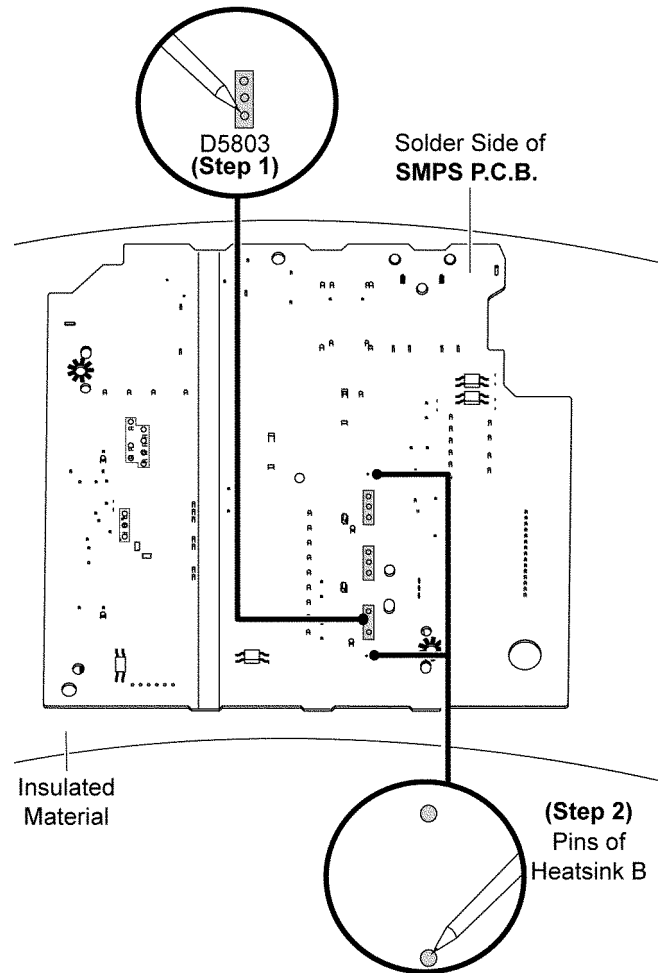
## 11.20. Replacement of Regulator Diode (D5803)

• Refer to "Disassembly of SMPS P.C.B.."

### 11.20.1. Disassembly of Rectifier Diode (D5803)

**Step 1** Desolder pins of the Rectifier Diode (D5803) on the solder side of the SMPS P.C.B.

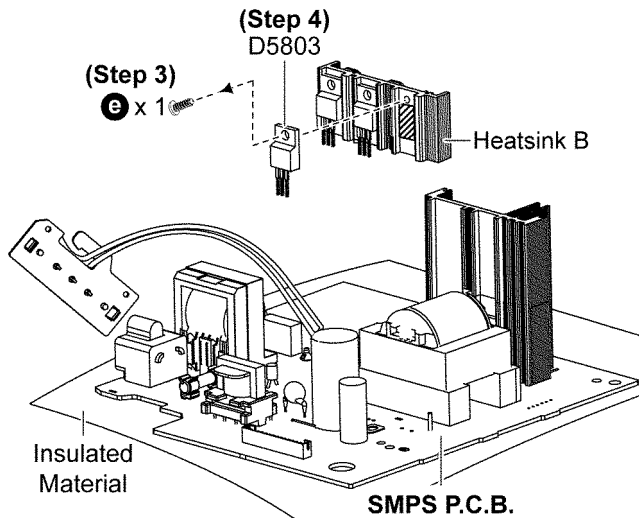
**Step 2** Desolder pins of the Heatsink B.



**Step 3** Remove 1 screw at Rectifier Diode (D5803).

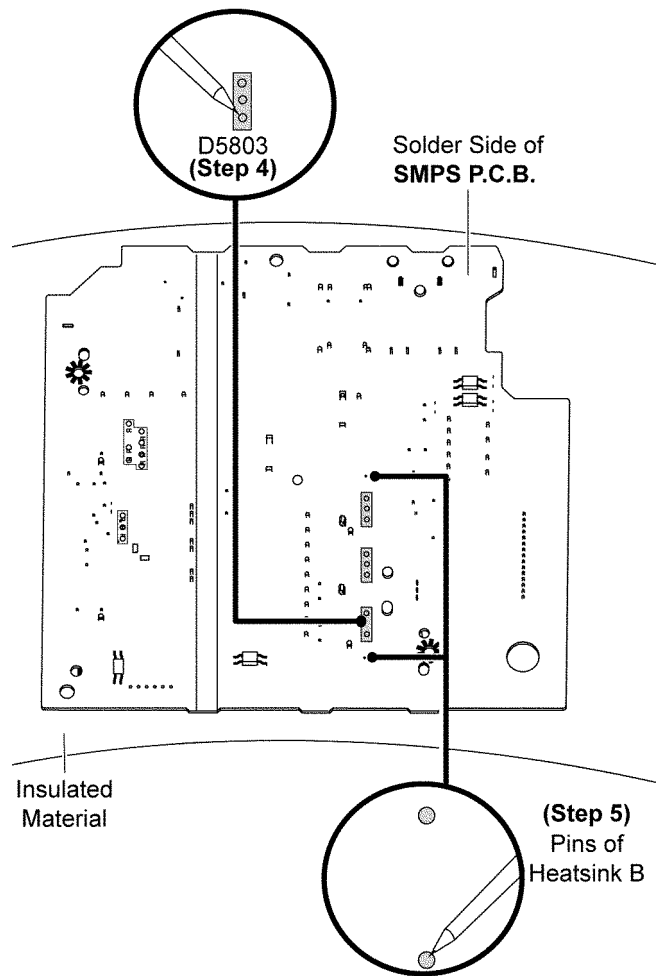
**Step 4** Remove the Rectifier Diode (D5803) from SMPS P.C.B..

**Caution:** Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.



**Step 4** Solder pins of the Rectifier Diode (D5803) on the solder side of the SMPS P.C.B.

**Step 5** Solder pins of the Heatsink B..



### 11.20.2. Assembly of Rectifier Diode (D5803)

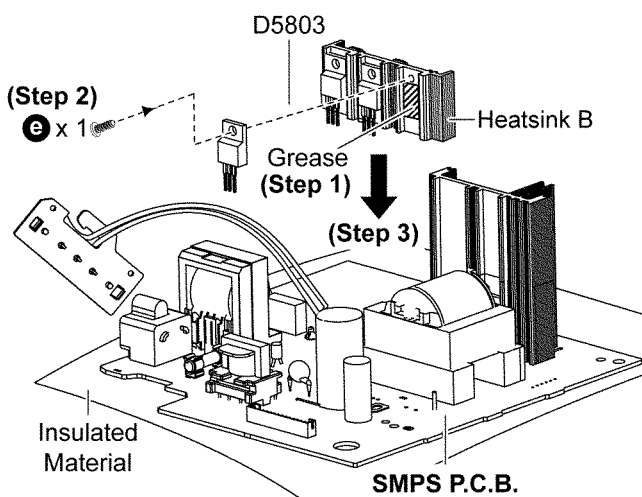
**Step 1** Apply grease to the Heatsink B.

**Step 2** Screw the Rectifier diode (D5803) to the Heatsink B.

**Caution:** Ensure the Rectifier Diode (D5803) is tightly screwed to the Heatsink B.

**Step 3** Fix Heatsink B with Rectifier Diode (D5803) on SMPS P.C.B.

**Caution:** Ensure pins of the Rectifier Diode (D5803) are properly seated on SMPS P.C.B.

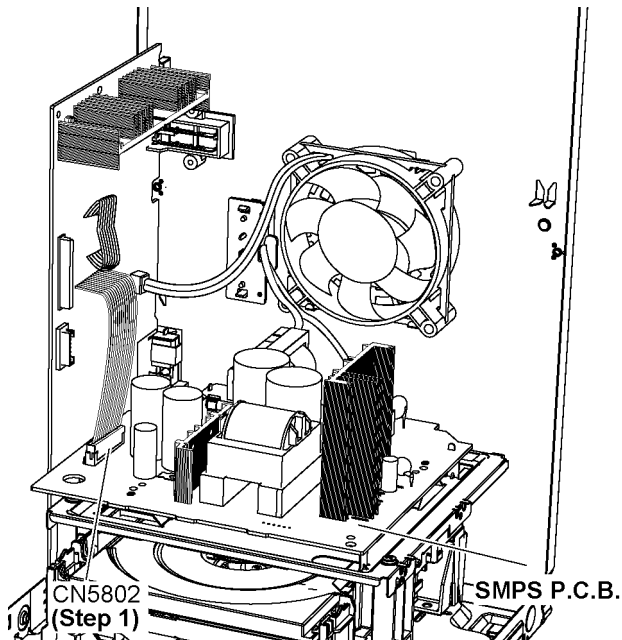




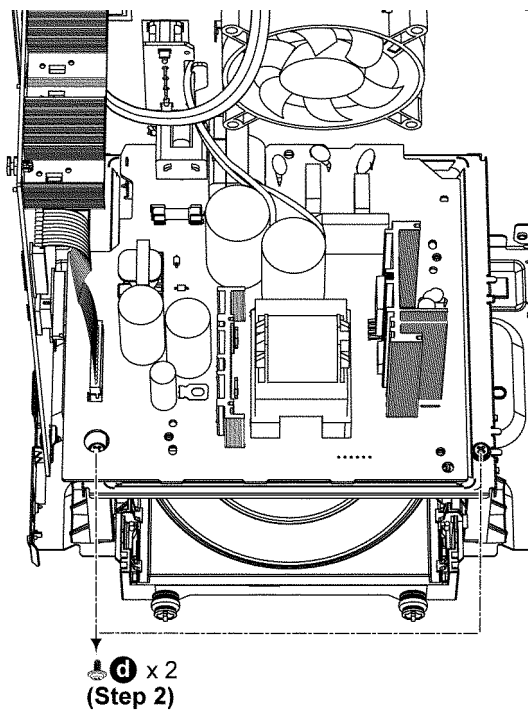
## 11.21. Disassembly of CD Mechanism Unit (BRS11C)

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Unit”.

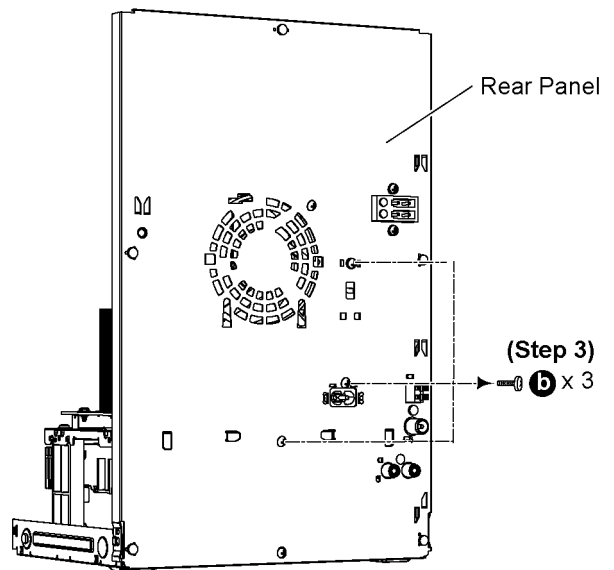
**Step 1** Detach 15P Cable Wire at the connector (CN5802) on the SMPS P.C.B..



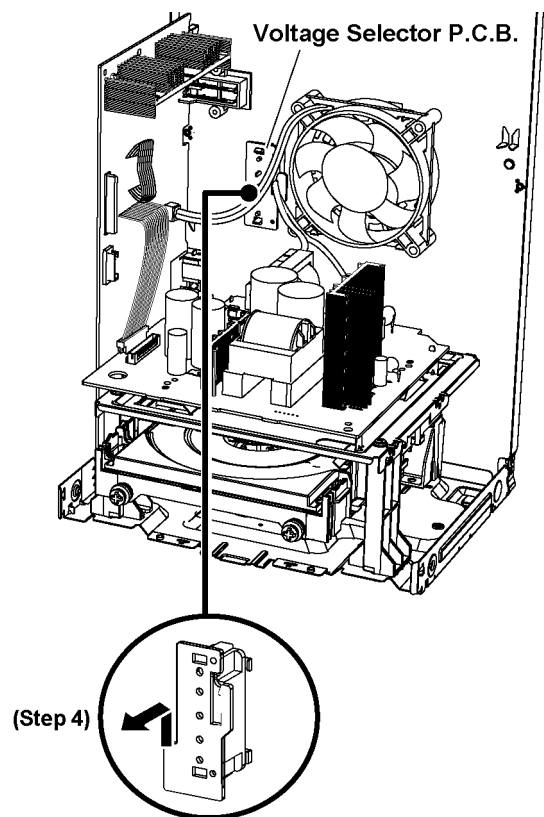
**Step 2** Remove 2 screws.



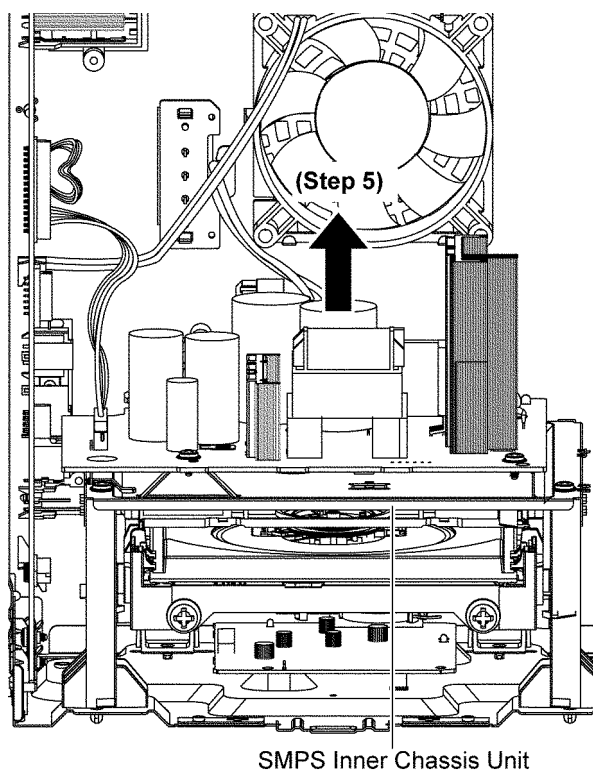
**Step 3** Remove 3 screws.



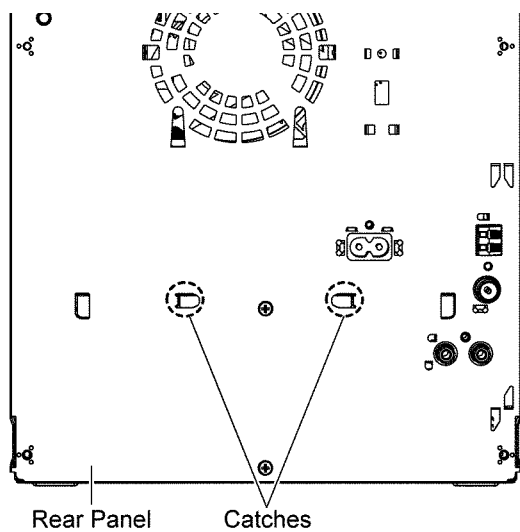
**Step 4** Detach the Voltage Selector P.C.B. from Rear Panel as arrow shown.



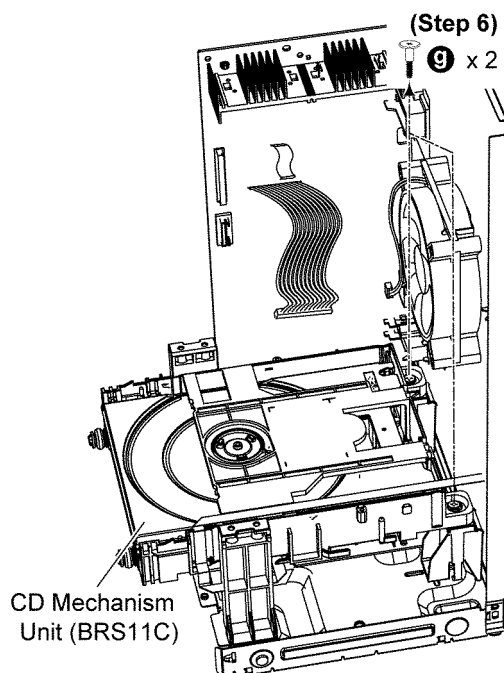
**Step 5** Lift up and remove the SMPS Inner Chassis Unit.



**Caution:** During assembling, ensure that the SMPS Inner Chassis is caught onto the Rear Panel properly.



**Step 6** Remove 2 screws.



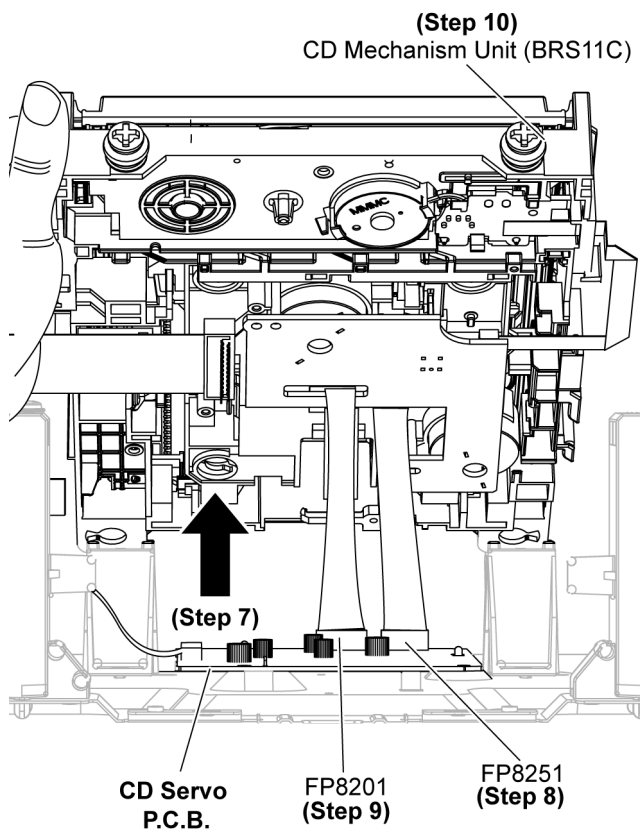
**Step 7** Slightly lift up the CD Mechanism Unit (BRS11C) as shown.

**Caution:** Do not exert too much force as it may damage the wiring within.

**Step 8** Detach 10P FFC at the connector (FP8251) on CD Servo P.C.B..

**Step 9** Detach 24P FFC at the connector (FP8201) on CD Servo P.C.B..

**Step 10** Remove the CD Mechanism Unit (BRS11C).



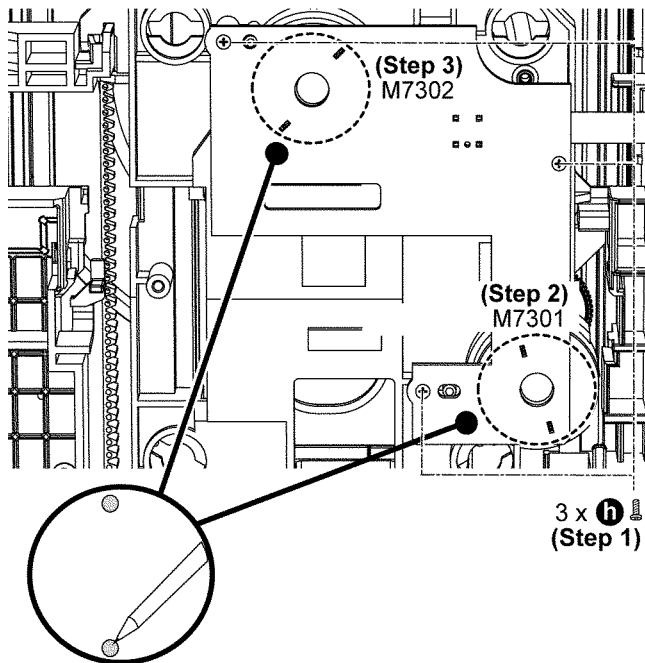
## 11.22. Disassembly of CD Interface P.C.B.

- Refer to “Disassembly of CD Mechanism Unit (BRS11C)”.

**Step 1** Remove 3 screws.

**Step 2** Desolder pins of the motor (M7301).

**Step 3** Desolder pins of the motor (M7302).

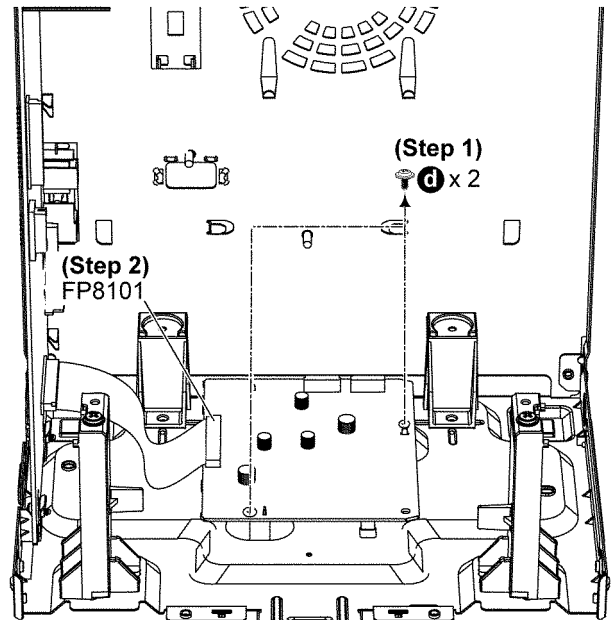


## 11.23. Disassembly of CD Servo P.C.B.

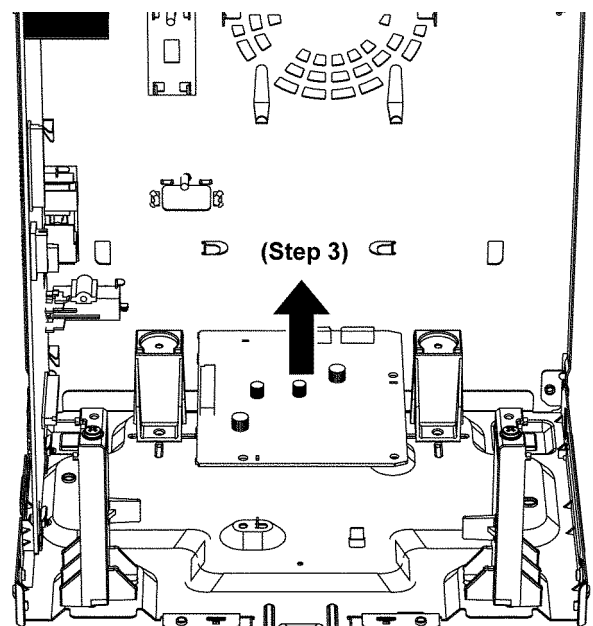
- Refer to “Disassembly of CD Mechanism Unit (BRS11C)”.

**Step 1** Remove 2 screws.

**Step 2** Detach 30P FFC at the connector (FP8101).



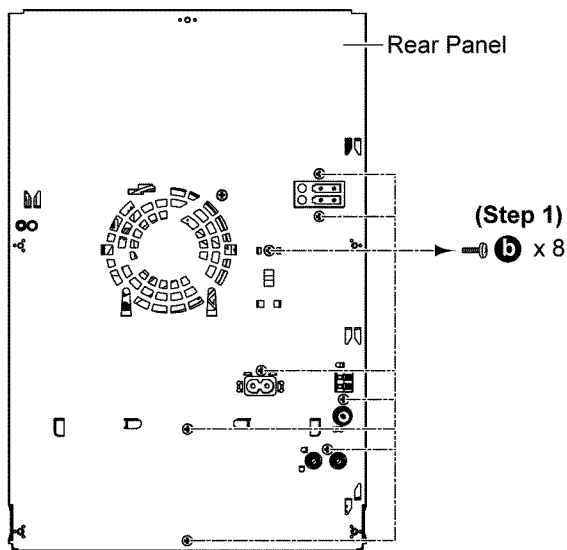
**Step 3** Remove the CD Servo P.C.B..



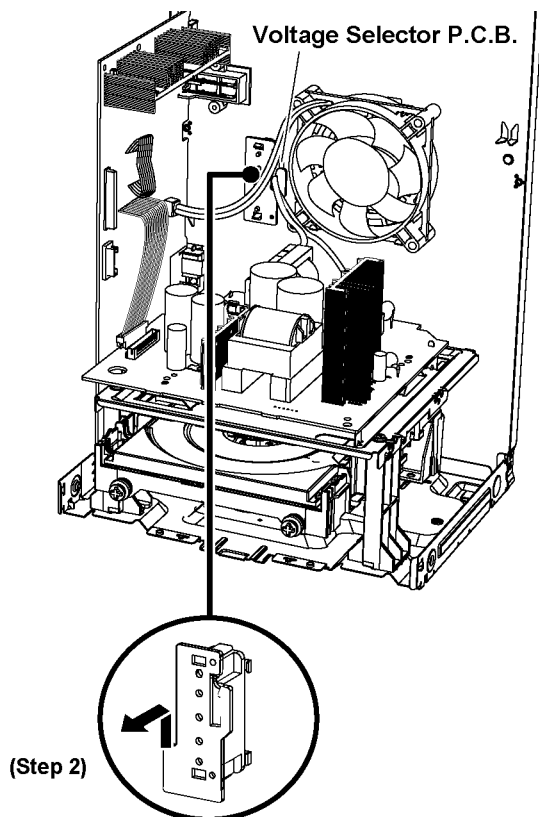
## 11.24. Disassembly of Rear Panel

- Refer to “Disassembly of Top Cabinet”.

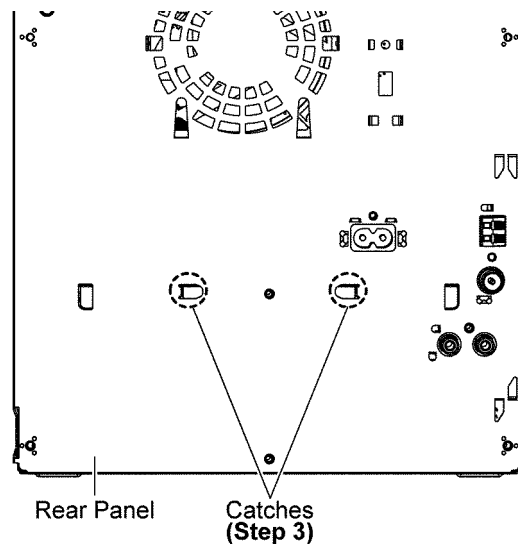
**Step 1** Remove 8 screws.



**Step 2** Detach the Voltage Selector P.C.B. from Rear Panel as arrow shown.

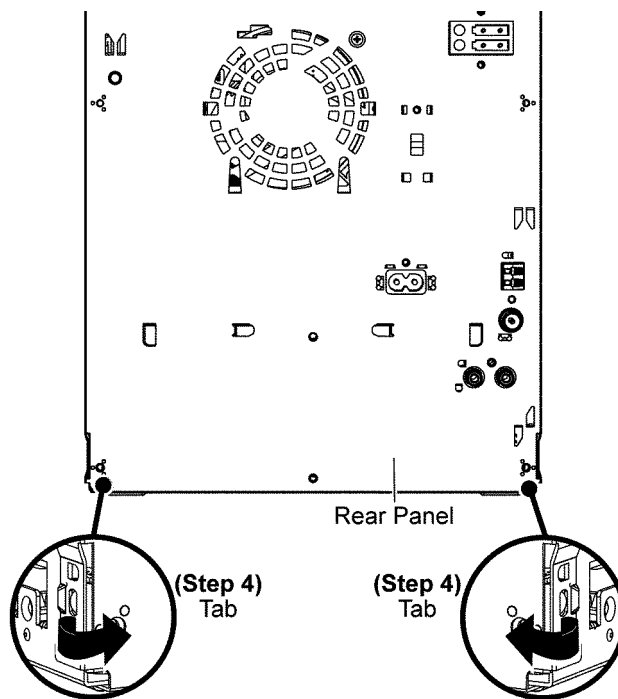


**Step 3** Lift up the SMPS Inner Chassis Unit to release the catch between the SMPS Inner Chassis Unit & the Rear Panel.



**Step 4** Release 2 tabs.

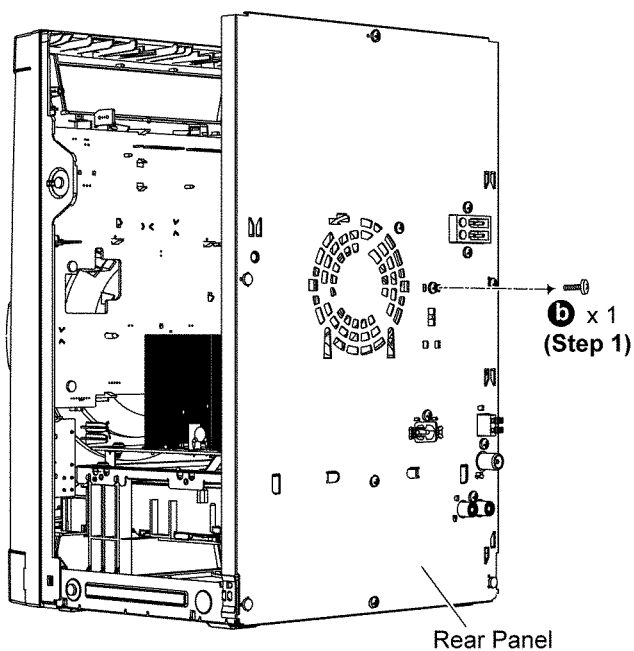
**Step 5** Remove the Rear Panel.



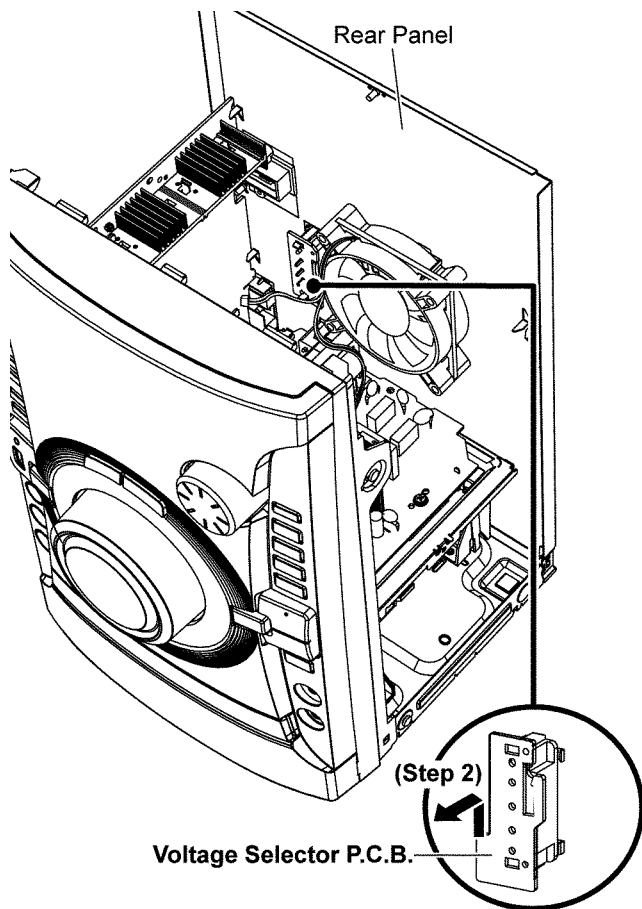
## 11.25. Disassembly of Voltage Selector P.C.B.

- Refer to “Disassembly of Top Cabinet”.

**Step 1** Remove 1 screw.



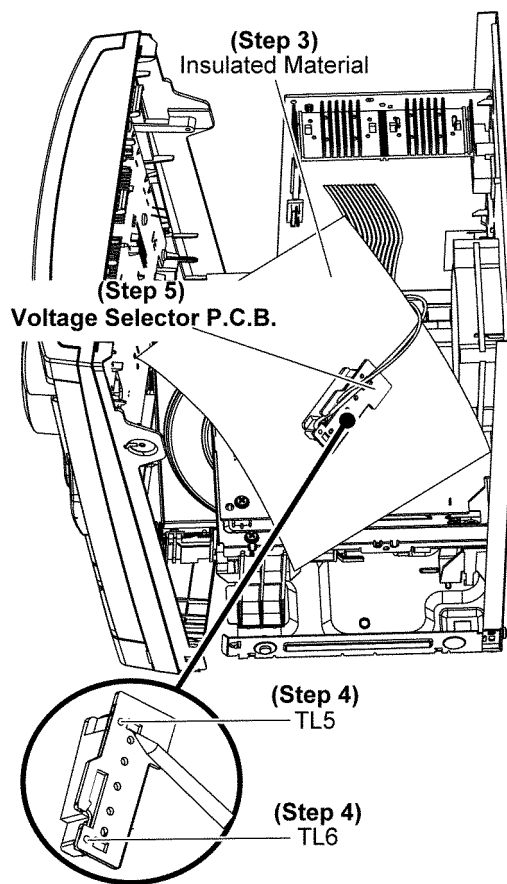
**Step 2** Detach the Voltage Selector P.C.B. from Rear Panel.



**Step 3** Place the Voltage Selector P.C.B. on Insulated Material.

**Step 4** Desolder Black Wire (TL5) and Red Wire (TL6).

**Step 5** Remove the Voltage Selector P.C.B..



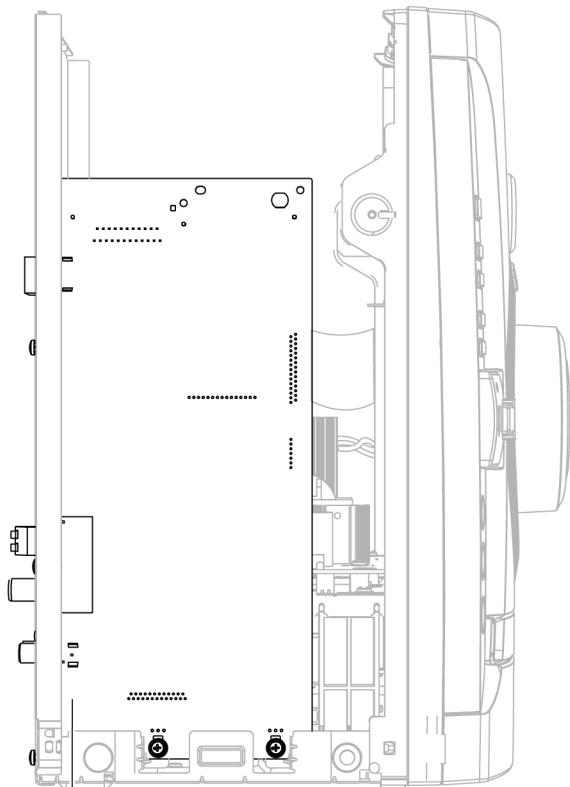
## 12 Service Position

Note: For description of the disassembly procedures, see the Section 11.

### 12.1. Checking and Repairing of Main P.C.B.

**Step 1** Remove Top Cabinet.

**Step 2** Main P.C.B. can be checked & repaired at its original position.



Main P.C.B.  
(Step 2)

### 12.2. Checking and Repairing of Panel P.C.B.

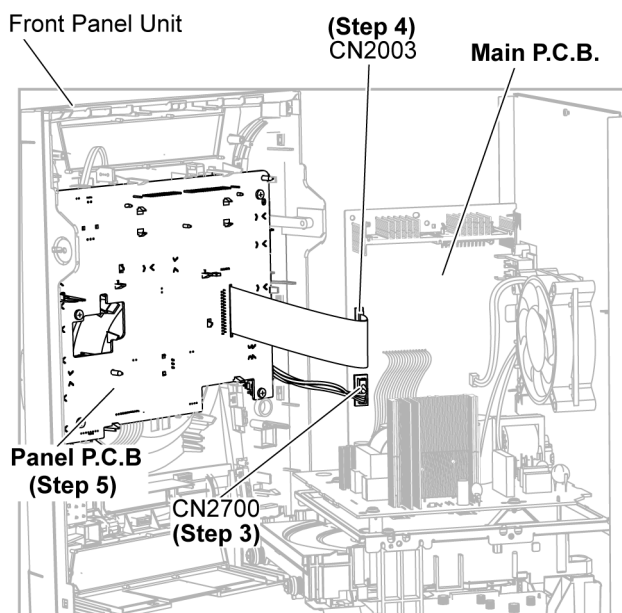
**Step 1** Remove Top Cabinet.

**Step 2** Remove Front Panel Unit.

**Step 3** Attach 5P Cable Wire to the connector (CN2700) on Main P.C.B..

**Step 4** Attach 27P FFC to the connector (CN2003) on Main P.C.B..

**Step 5** Panel P.C.B. can be checked and repaired as diagram shown.



## 12.3. Checking and Repairing of SMPS P.C.B.

**Step 1** Remove Top Cabinet.

**Step 2** Remove Front Panel Unit.

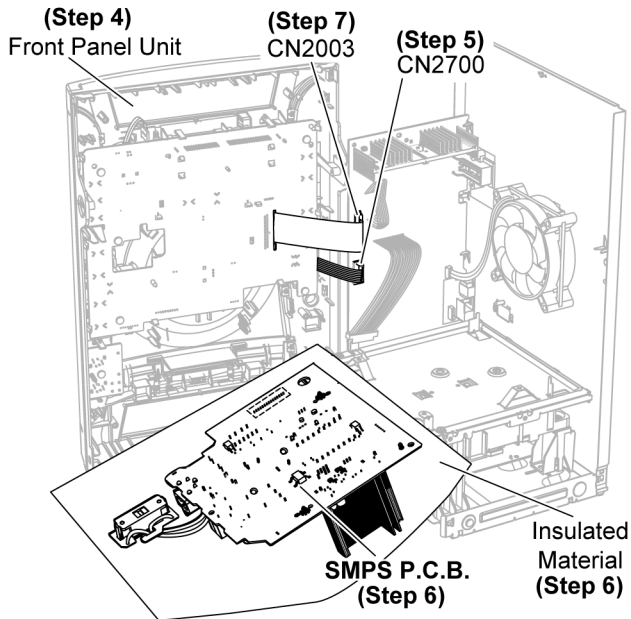
**Step 3** Remove SMPS P.C.B..

**Step 4** Place the Front Panel Unit as diagram shown.

**Step 5** Attach 5P Cable Wire to the connector (CN2700) on Main P.C.B..

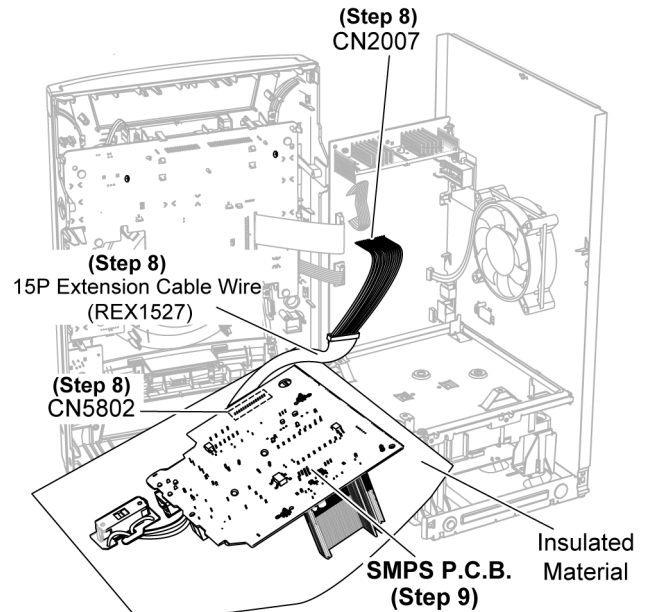
**Step 6** Place the SMPS P.C.B. on the insulated material.

**Step 7** Attach 27P FFC to the connector (CN2003) on Main P.C.B..



**Step 8** Extend the Cable Wire with extension Cable Wire (REX1572 15P Cable Wire) from CN2007 on Main P.C.B. to CN5802 on SMPS P.C.B..

**Step 9** SMPS P.C.B. can be checked and repaired as diagram shown.



## 12.4. Checking and Repairing of CD Servo P.C.B. (Side A)

**Step 1** Remove Top Cabinet.

**Step 2** Remove Front Panel Unit.

**Step 3** Remove SMPS Inner Chassis Unit.

**Step 4** Remove CD Mechanism Unit (BRS11C).

**Step 5** Remove Main P.C.B..

**Step 6** Remove Rear Panel.

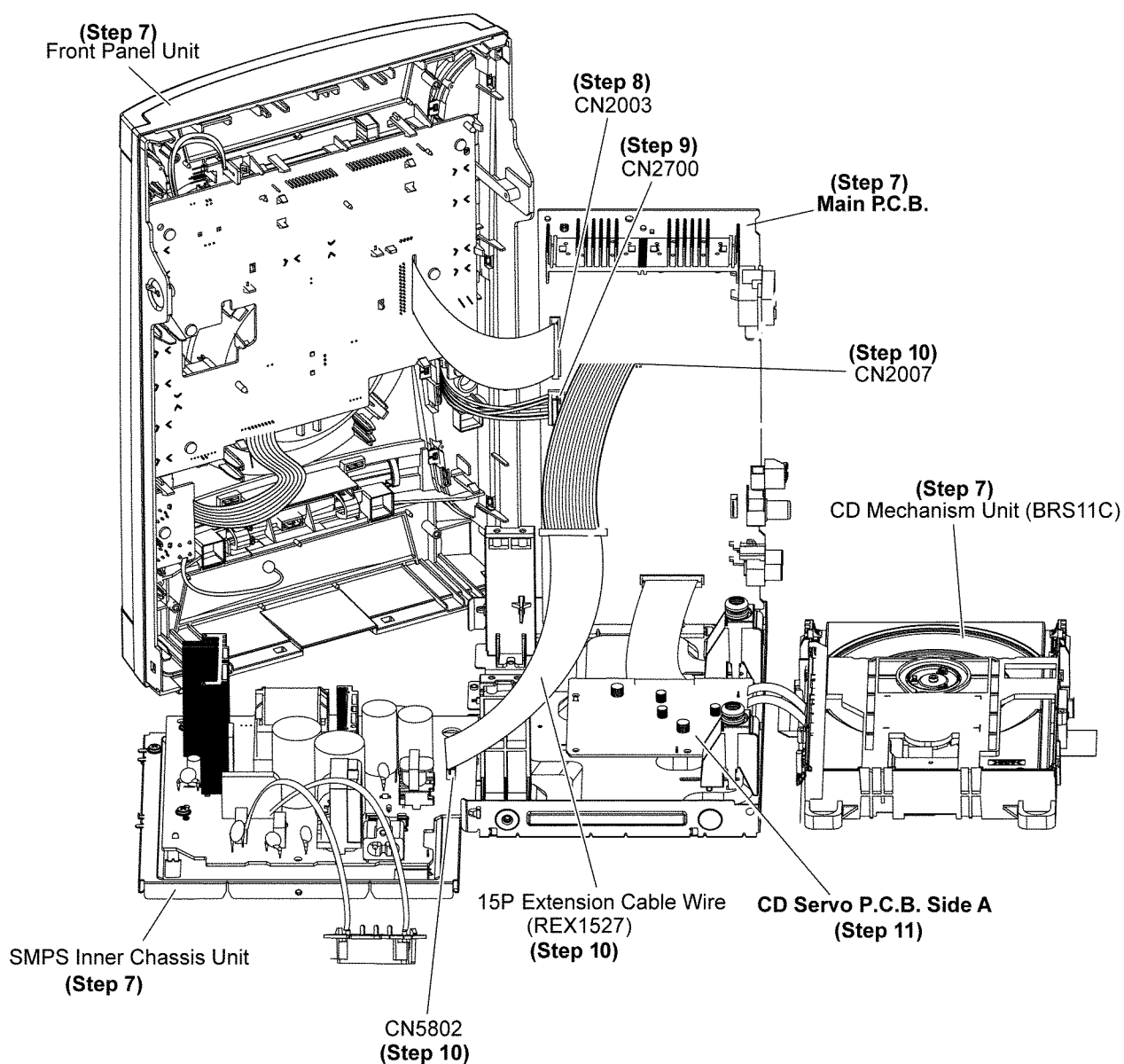
**Step 7** Place the Front Panel Unit, SMPS Inner Chassis Unit, CD Mechanism Unit (BRS11C), Main P.C.B as diagram shown.

**Step 8** Attach 27P FFC to the connector (CN2003) on Main P.C.B..

**Step 9** Attach 5P FFC to the connector (CN2700) on Main P.C.B..

**Step 10** Extend the Cable Wire with extension Cable Wire (REX1527 15P Cable Wire) from CN2007 on Main P.C.B. to CN5802 on SMPS P.C.B..

**Step 11** CD Servo P.C.B. Side A can be checked and repaired as diagram shown.



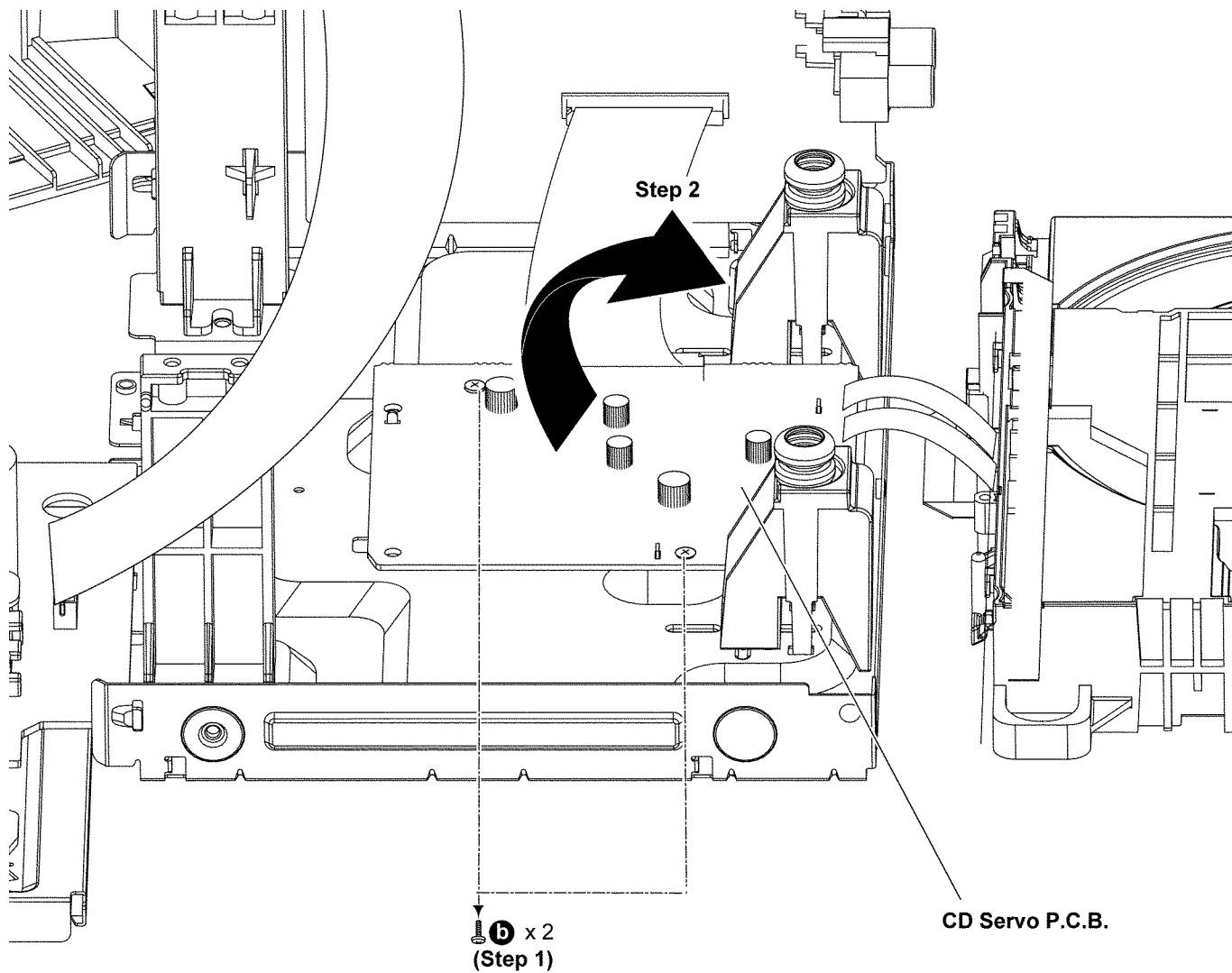


## 12.5. Checking and Repairing of CD Servo P.C.B. (Side B)

- Refer to “Checking and repairing of CD Servo P.C.B. (Side A)”.

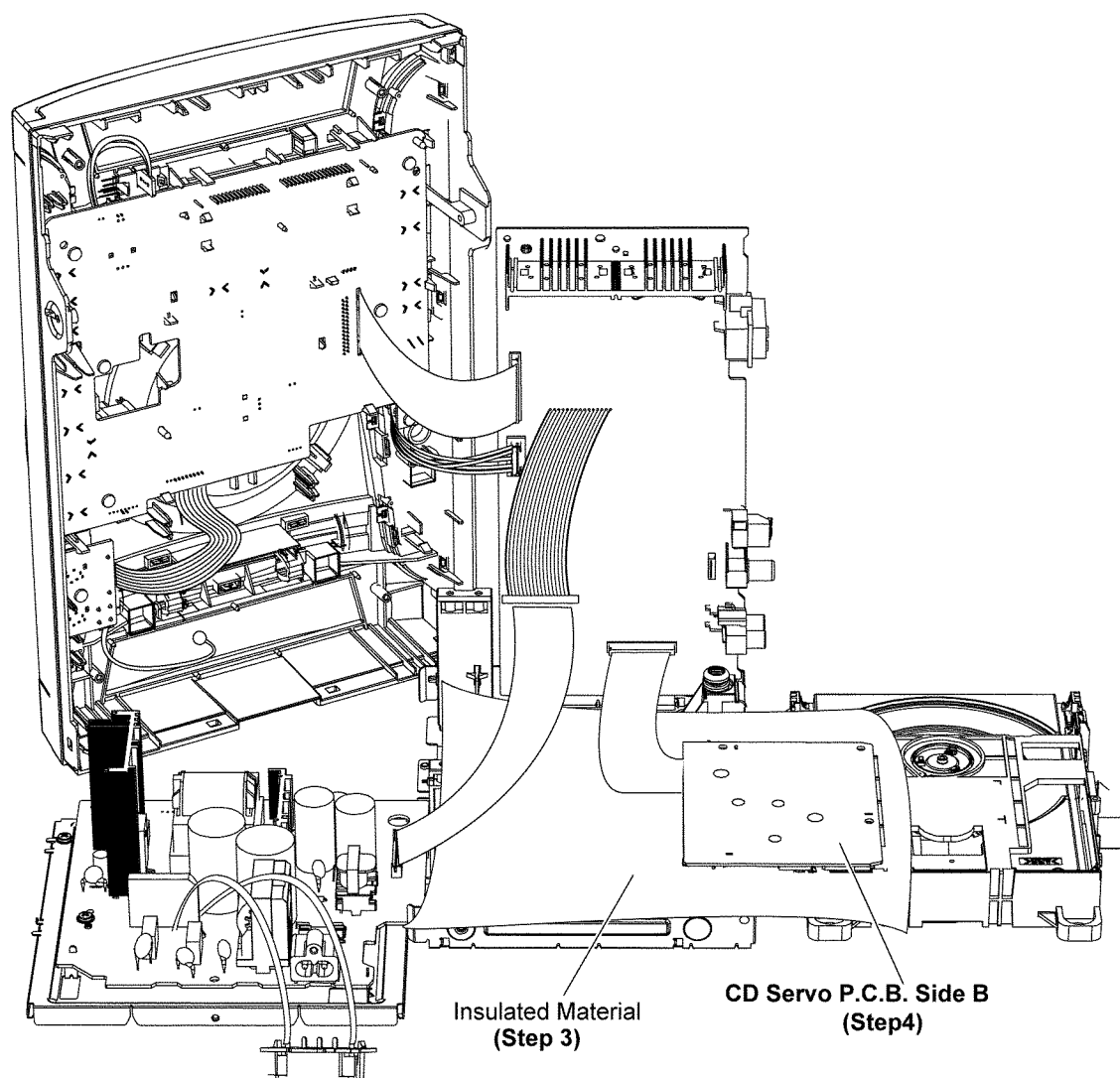
**Step 1** Remove 2 screws.

**Step 2** Flip the Servo P.C.B. as illustration show.



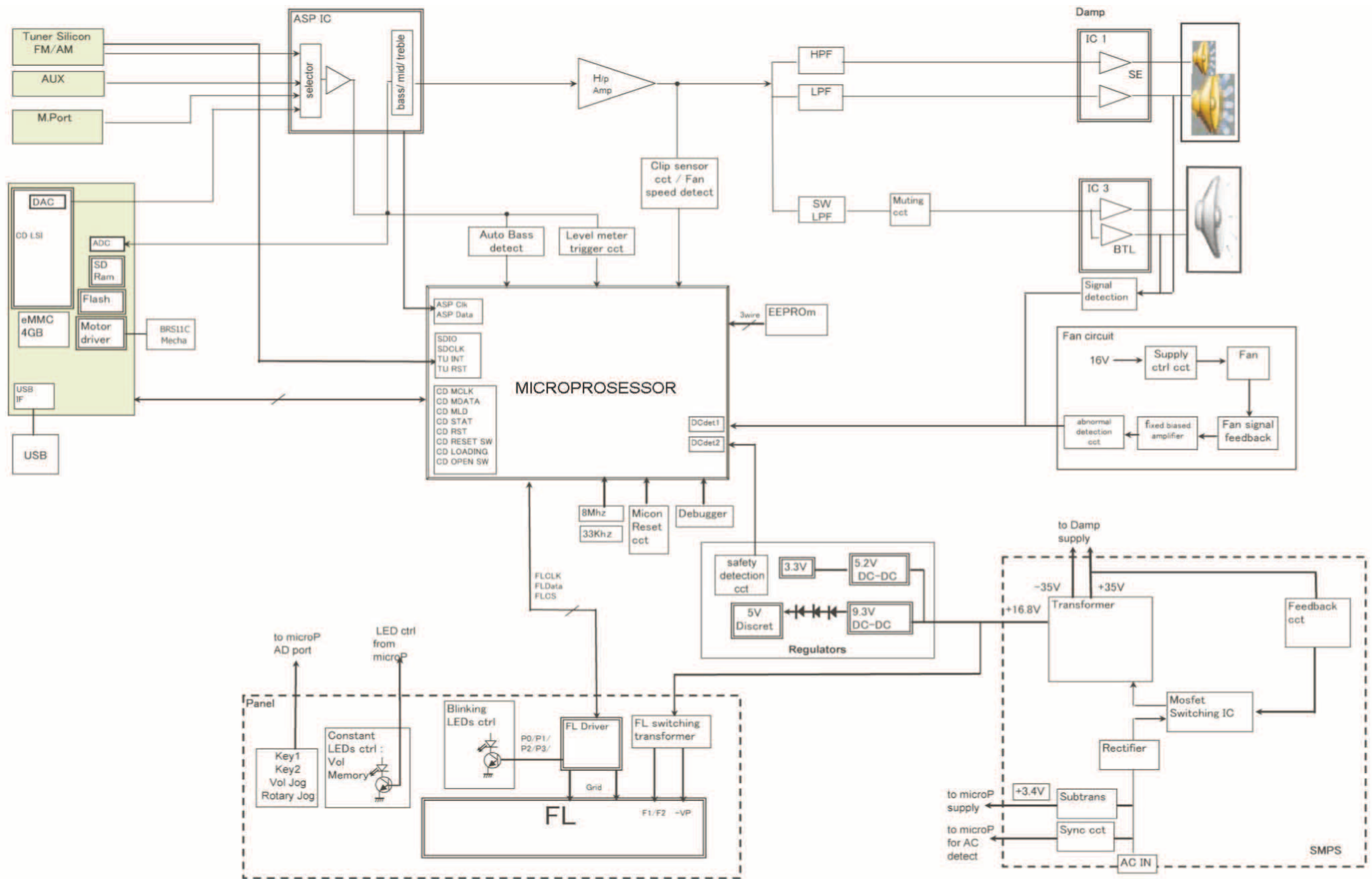
**Step 3** Place the CD Servo P.C.B. on the insulated material.

**Step 4** CD Servo P.C.B. Side B can be checked and repaired as diagram shown.



## 13 Simplified Block Diagram

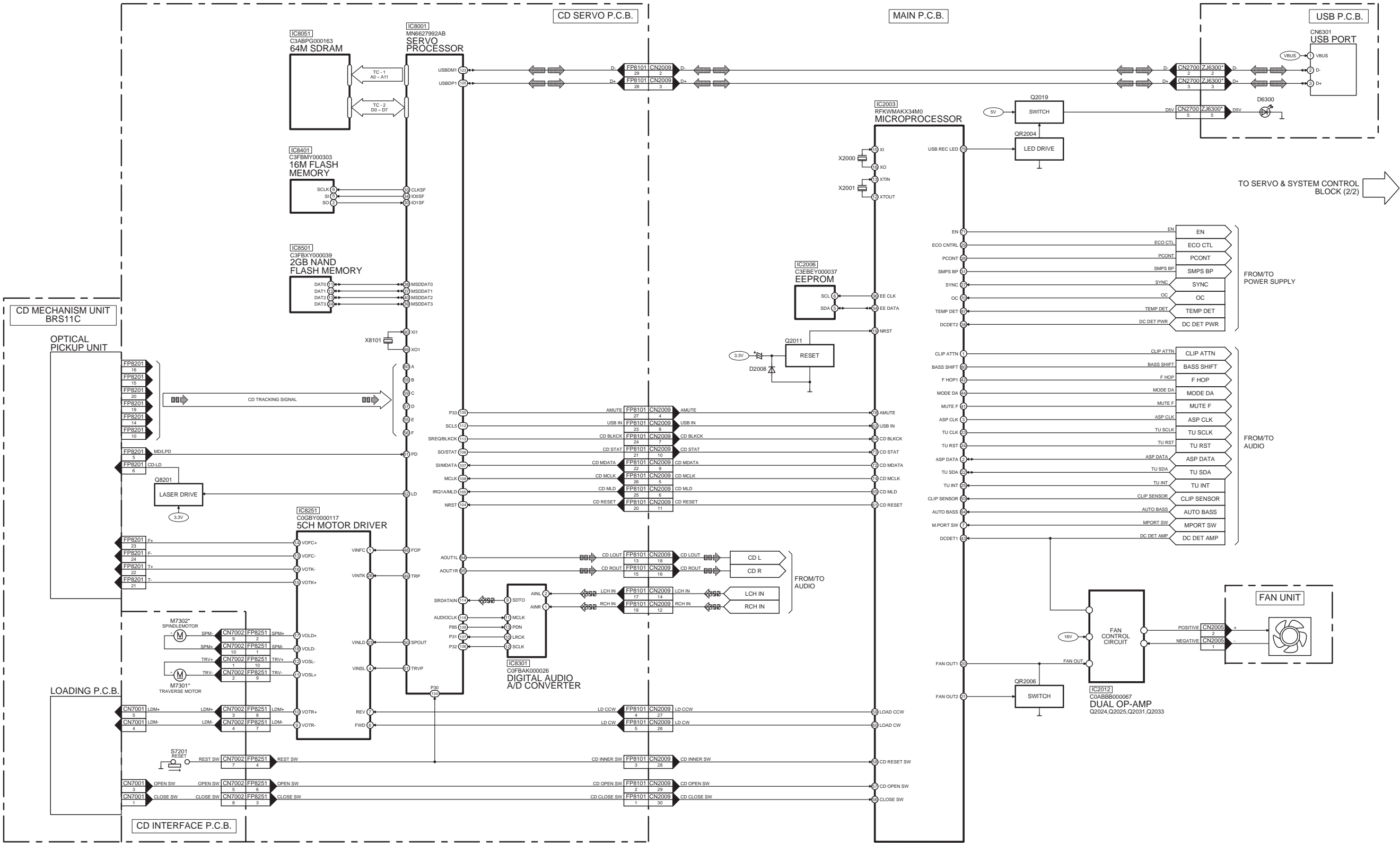
### 13.1. Power Block Diagram



14 Block Diagram

14.1. Servo & System Control

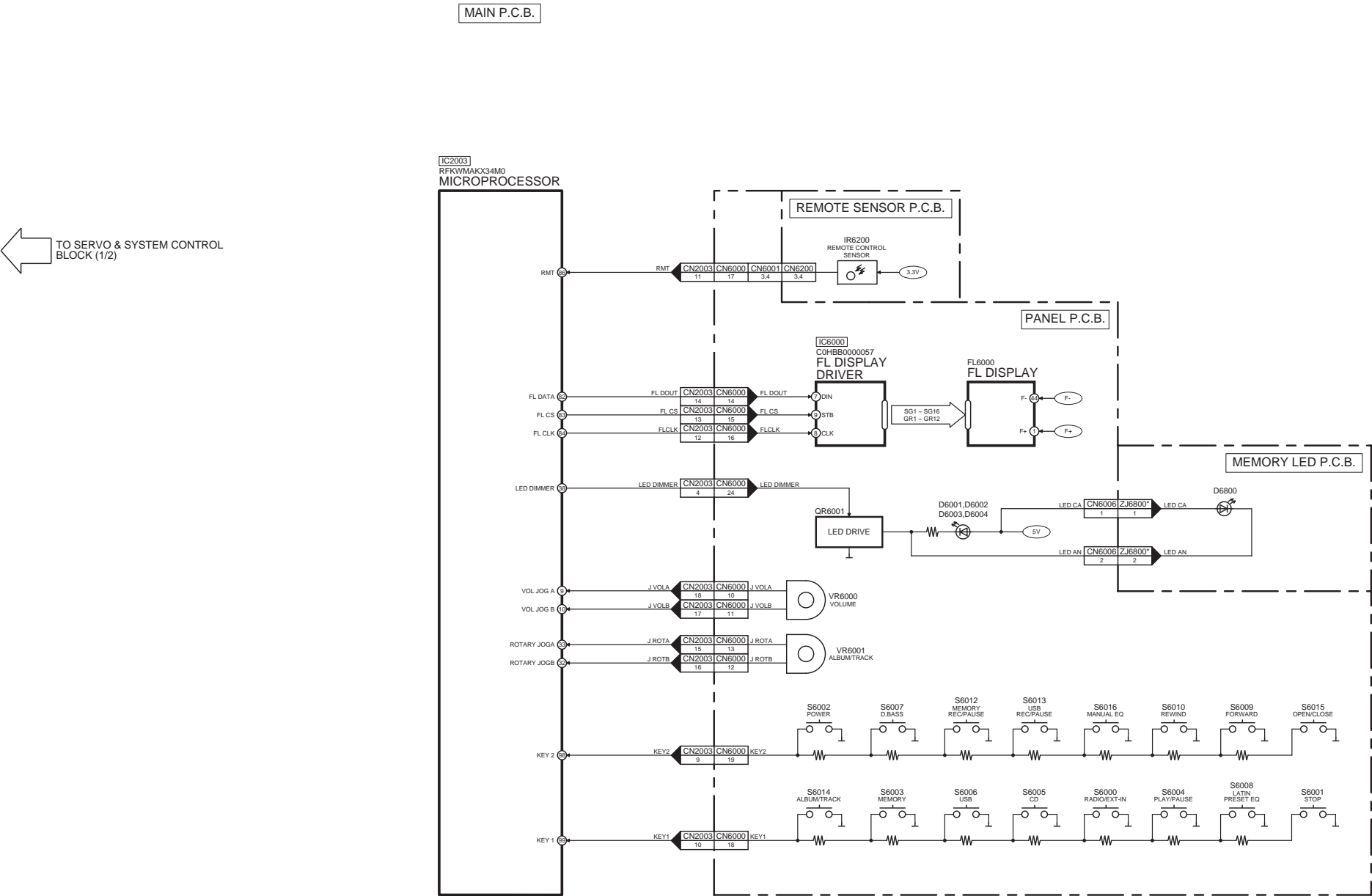
CD AUDIO INPUT SIGNAL LINE    AUDIO OUTPUT SIGNAL LINE    USB SIGNAL LINE



NOTE: “ \* ” REF IS FOR INDICATION ONLY

SA-AKX34PH/PN SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM

 : CD AUDIO INPUT SIGNAL LINE   
  : AUDIO OUTPUT SIGNAL LINE   
  : USB SIGNAL LINE



NOTE: “ \* ” REF IS FOR INDICATION ONLY

SA-AKX34PH/PN SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

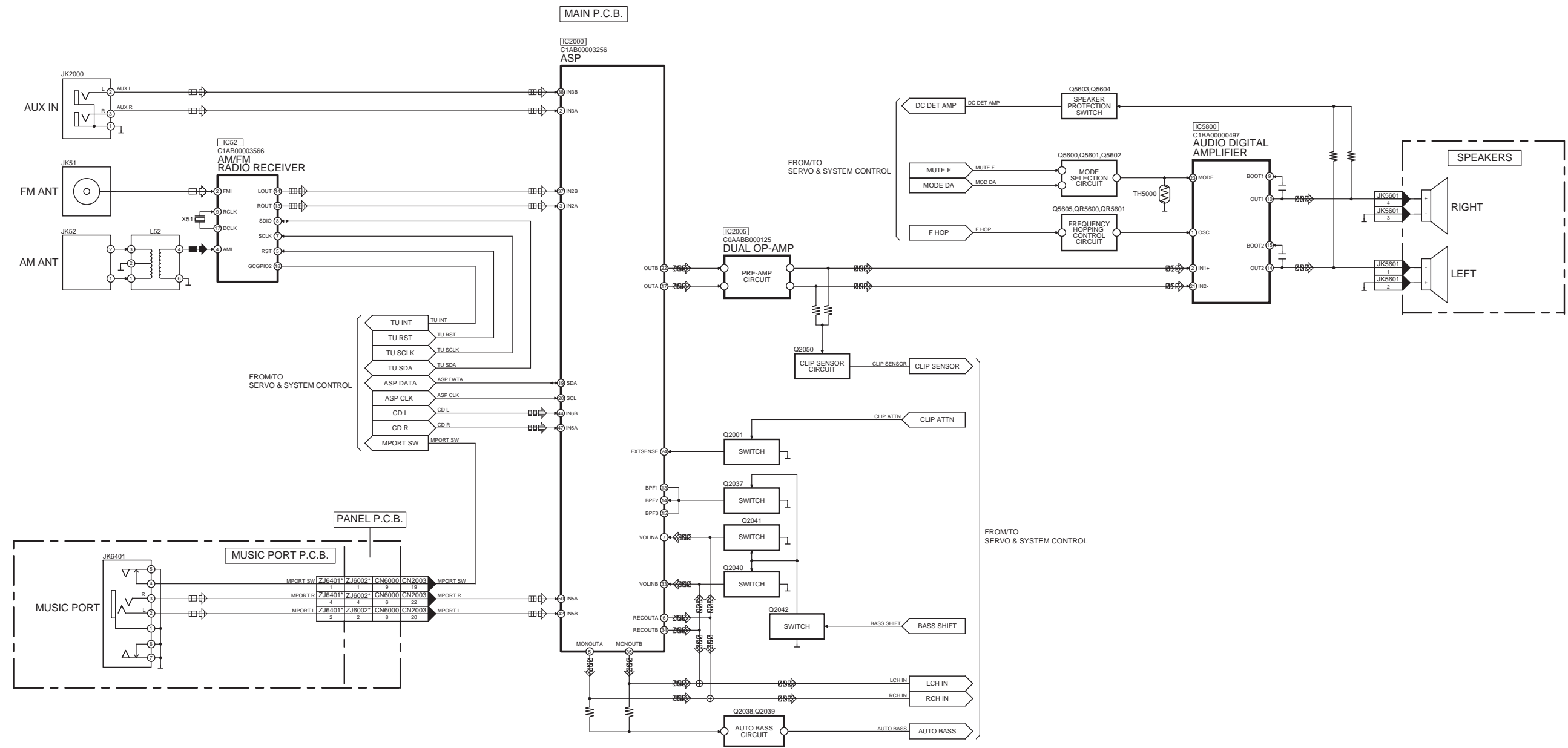
14.2. IC Terminal Chart

| TC | IC8051<br>64M SDRAM |        | SIGNAL NAME | IC8001<br>SERVO PROCESSOR |           |
|----|---------------------|--------|-------------|---------------------------|-----------|
|    | PORT NAME           | PIN NO |             | PIN NO                    | PORT NAME |
| 1  | A0                  | 23     | A0          | 14                        | A0        |
|    | A1                  | 24     | A1          | 15                        | A1        |
|    | A2                  | 25     | A2          | 16                        | A2        |
|    | A3                  | 26     | A3          | 17                        | A3        |
|    | A4                  | 29     | A4          | 20                        | A4        |
|    | A5                  | 30     | A5          | 21                        | A5        |
|    | A6                  | 31     | A6          | 22                        | A6        |
|    | A7                  | 32     | A7          | 23                        | A7        |
|    | A8                  | 33     | A8          | 24                        | A8        |
|    | A9                  | 34     | A9          | 25                        | A9        |
|    | A10                 | 22     | A10         | 13                        | A10       |
|    | A11                 | 35     | A11         | 26                        | A11       |

| TC | IC8051<br>64M SDRAM |         | SIGNAL NAME | IC8001<br>SERVO PROCESSOR |           |
|----|---------------------|---------|-------------|---------------------------|-----------|
|    | PORT NAME           | PIN NO  |             | PIN NO                    | PORT NAME |
| 2  | DQ0 / DQ15          | 2 / 53  | D0          | 142                       | D0        |
|    | DQ1 / DQ14          | 4 / 51  | D1          | 143                       | D1        |
|    | DQ2 / DQ13          | 5 / 50  | D2          | 144                       | D2        |
|    | DQ3 / DQ12          | 7 / 48  | D3          | 2                         | D3        |
|    | DQ4 / DQ11          | 8 / 47  | D4          | 3                         | D4        |
|    | DQ5 / DQ10          | 10 / 45 | D5          | 4                         | D5        |
|    | DQ6 / DQ9           | 11 / 44 | D6          | 5                         | D6        |
|    | DQ7 / DQ8           | 13 / 42 | D7          | 6                         | D7        |

# 14.3. Audio

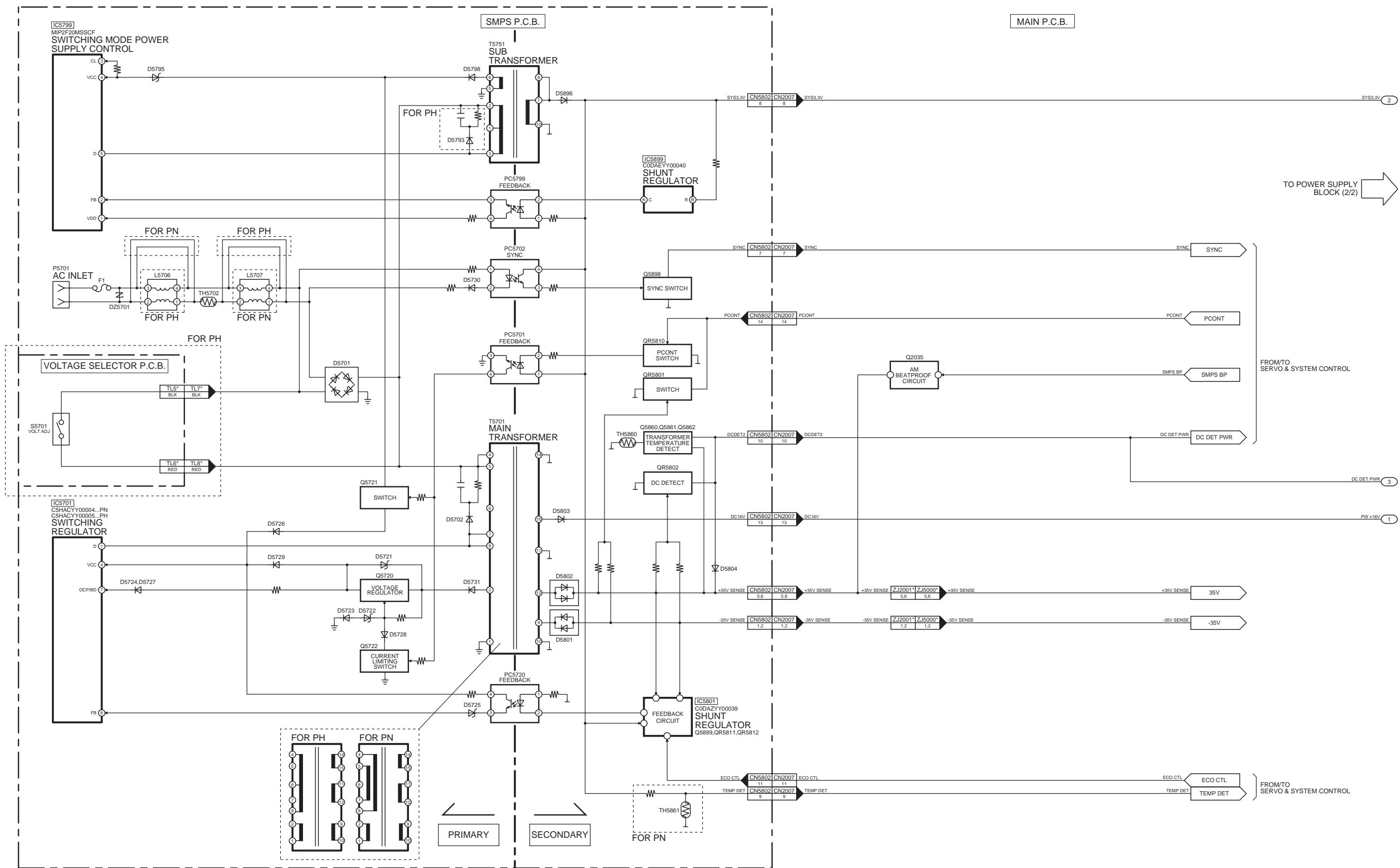
: CD AUDIO INPUT SIGNAL LINE   
 : AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE   
 : AUDIO OUTPUT SIGNAL LINE   
 : AM SIGNAL LINE   
 : FM SIGNAL LINE



NOTE: “ \* ” REF IS FOR INDICATION ONLY

SA-AKX34PH/PN AUDIO BLOCK DIAGRAM

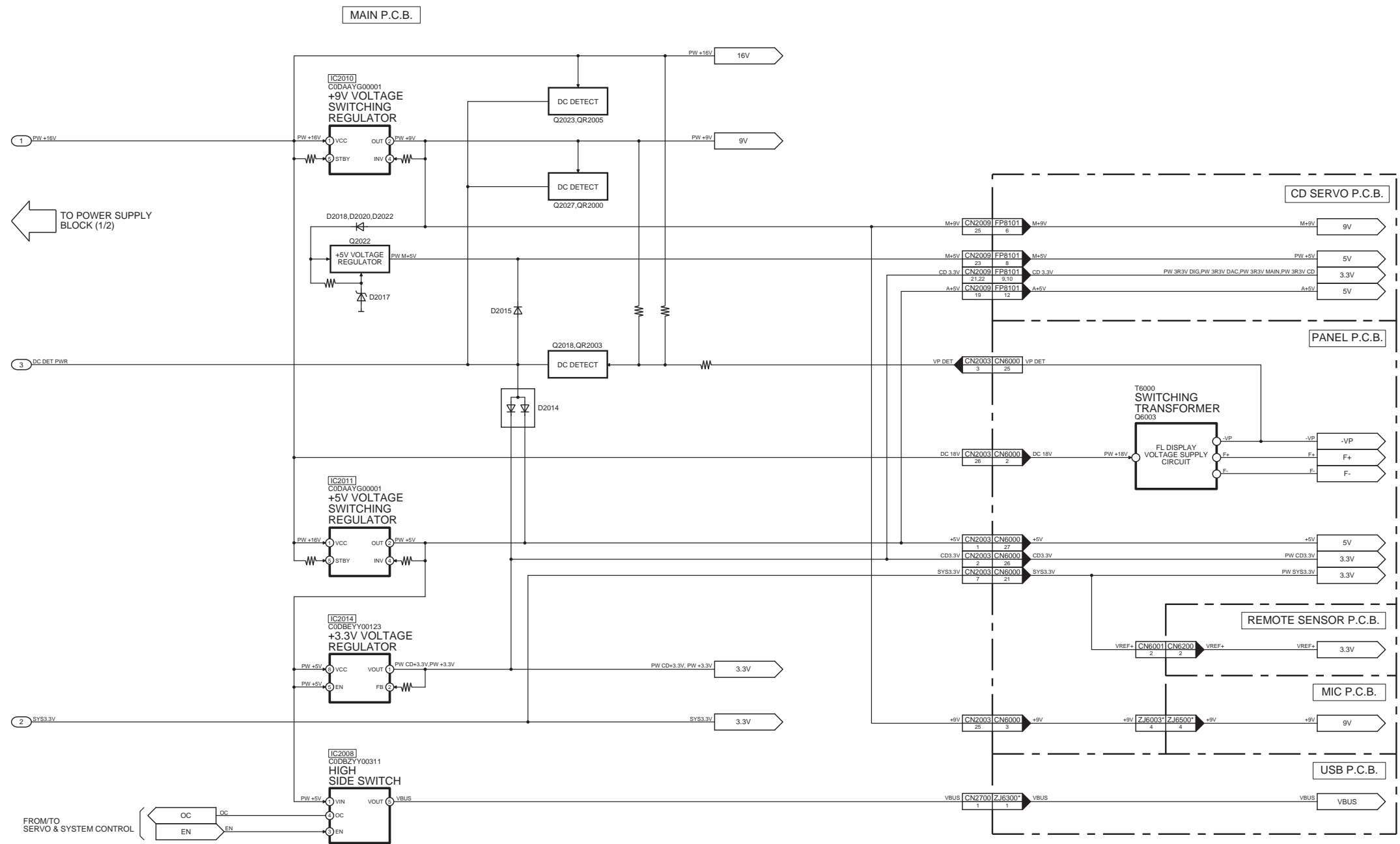
14.4. Power Supply



NOTE: " \* " REF IS FOR INDICATION ONLY

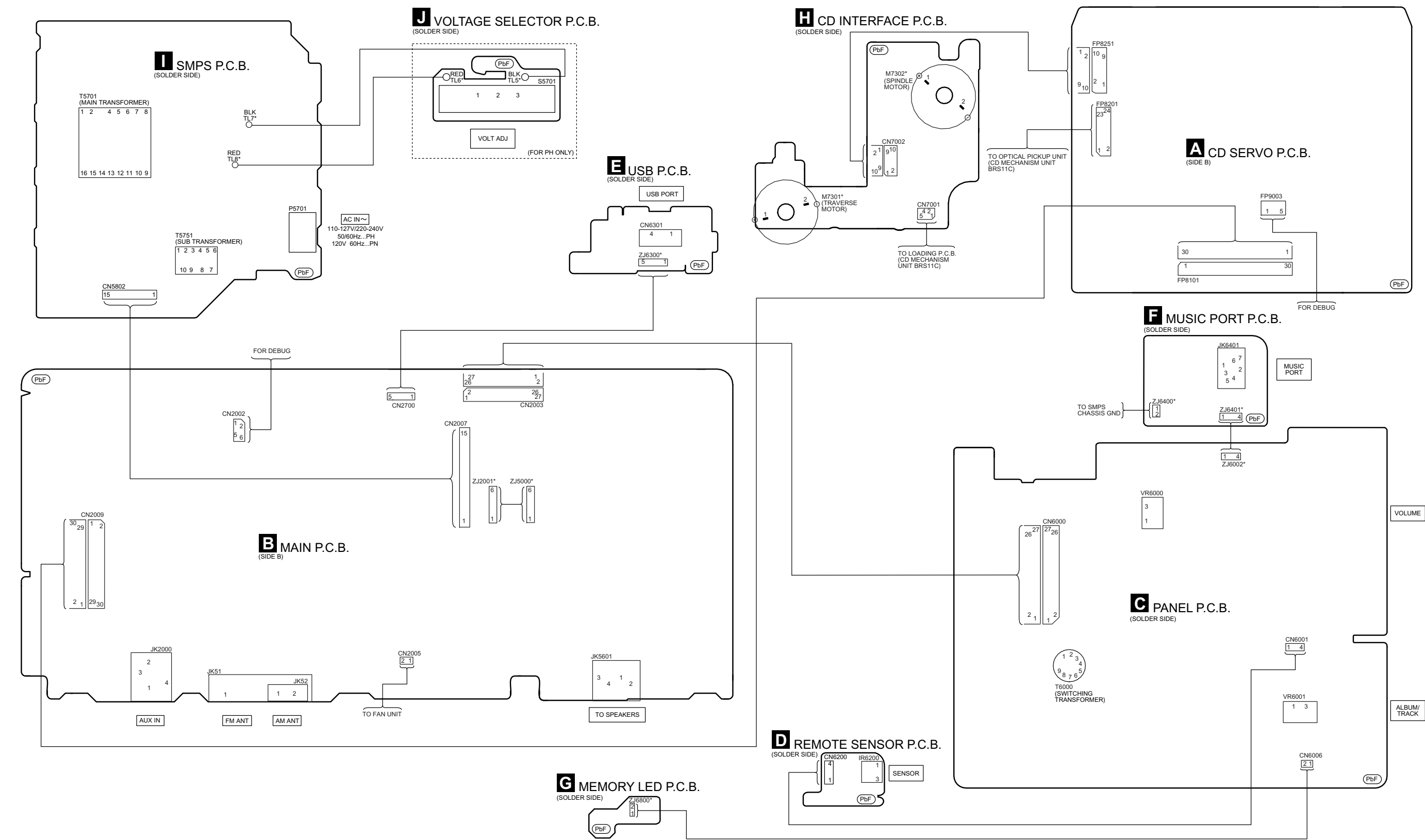
SA-AKX34PH/PN POWER SUPPLY (1/2) BLOCK DIAGRAM





SA-AKX34PH/PN POWER SUPPLY (2/2) BLOCK DIAGRAM

15 Wiring Connection Diagram



NOTE: " \* " REF IS FOR INDICATION ONLY.

SA-AKX34PH/PN WIRING CONNECTION DIAGRAM

# 16 Schematic Diagram

## 16.1. Schematic Diagram Notes

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

### Notes:

|                |                                   |
|----------------|-----------------------------------|
| <b>S5701:</b>  | Voltage ADJ switch (For PH only). |
| <b>S6000:</b>  | Radio/EXT-IN switch.              |
| <b>S6001:</b>  | Stop (■) switch.                  |
| <b>S6002:</b>  | Power (⏻/⏻) switch.               |
| <b>S6003:</b>  | Memory switch.                    |
| <b>S6004:</b>  | Play/Pause (▶/⏸) switch.          |
| <b>S6005:</b>  | CD switch.                        |
| <b>S6006:</b>  | USB switch.                       |
| <b>S6007:</b>  | D.BASS switch.                    |
| <b>S6008:</b>  | Latin Preset EQ switch.           |
| <b>S6009:</b>  | Forward (▶▶ / ▶▶) switch.         |
| <b>S6010:</b>  | Rewind (◀◀ / ◀◀) switch.          |
| <b>S6012:</b>  | Memory Rec/ Pause switch.         |
| <b>S6013:</b>  | USB Rec/ Pause switch.            |
| <b>S6014:</b>  | Album/Track switch.               |
| <b>S6015:</b>  | Open/Close switch (▲).            |
| <b>S6016:</b>  | Manual EQ switch.                 |
| <b>S7201:</b>  | Reset switch.                     |
| <b>VR6001:</b> | Volume Jog.                       |
| <b>VR6002:</b> | Album/Track Jog.                  |

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

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

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

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

AC rated voltage capacitors:

C5700, C5701, C5703, C5704 (For PH), C5705 (For PH), C5708

- Resistor

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

- Capacitor

Unit of capacitance is  $\mu$ F, 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                               |
| — | : -B signal line                               |
| ⏻ | : CD Audio input signal line                   |
| ⏻ | : AUX/Tuner/Music Port Audio input signal line |
| ⏻ | : Audio output signal line                     |
| ⏻ | : USB signal line                              |
| ■ | : AM signal line                               |
| □ | : FM signal line                               |

- For PH only

CAUTION:
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 6.3A 250V FUSE

RISK OF FIRE-REPLACE FUSE AS MARKED.

- For PN only

CAUTION:
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 8A 125V FUSE

RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION


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

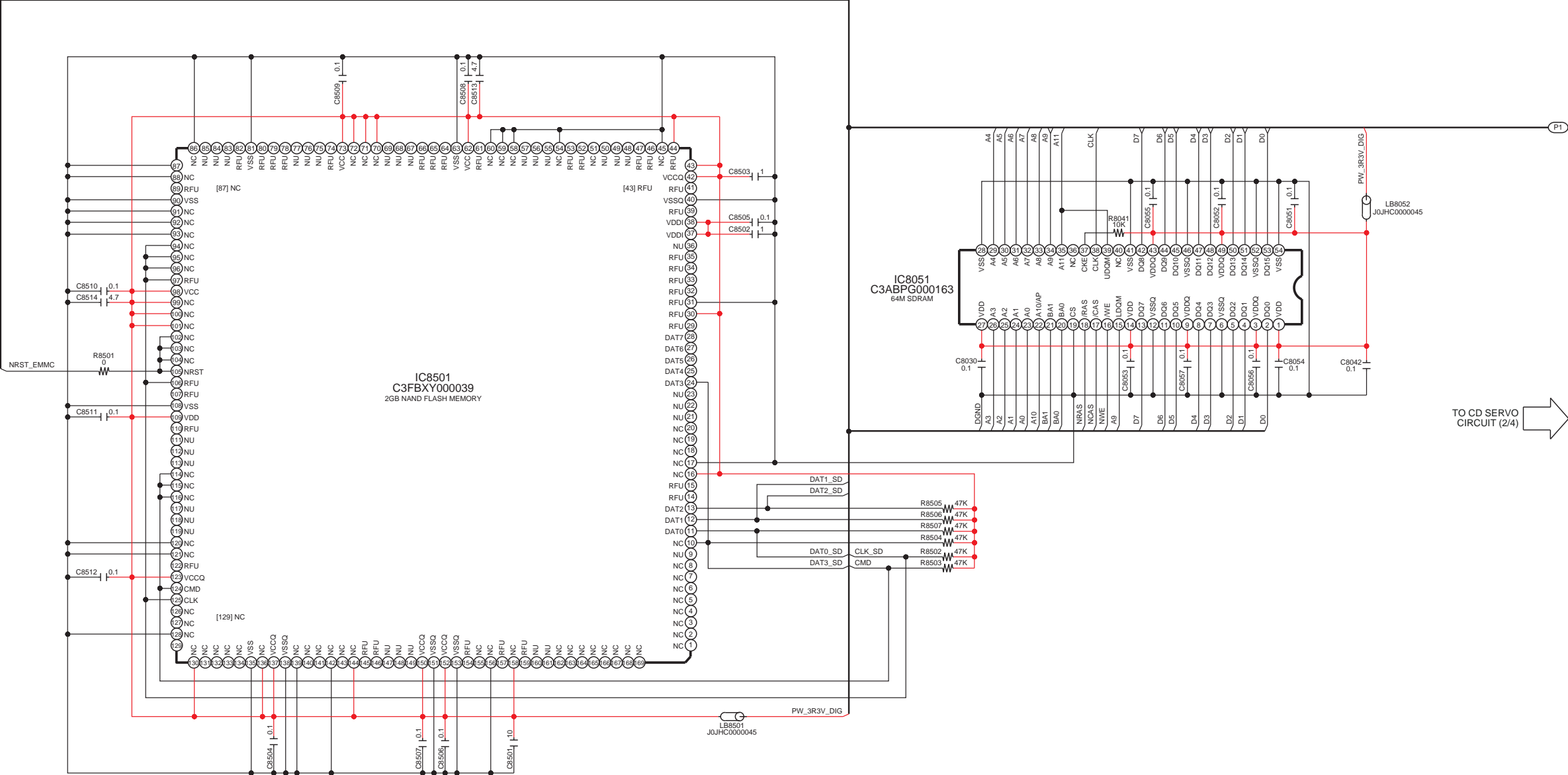


16.2. CD Servo Circuit

SCHEMATIC DIAGRAM - 1

**A** CD SERVO CIRCUIT

— : +B SIGNAL LINE     : CD AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE     : USB SIGNAL LINE

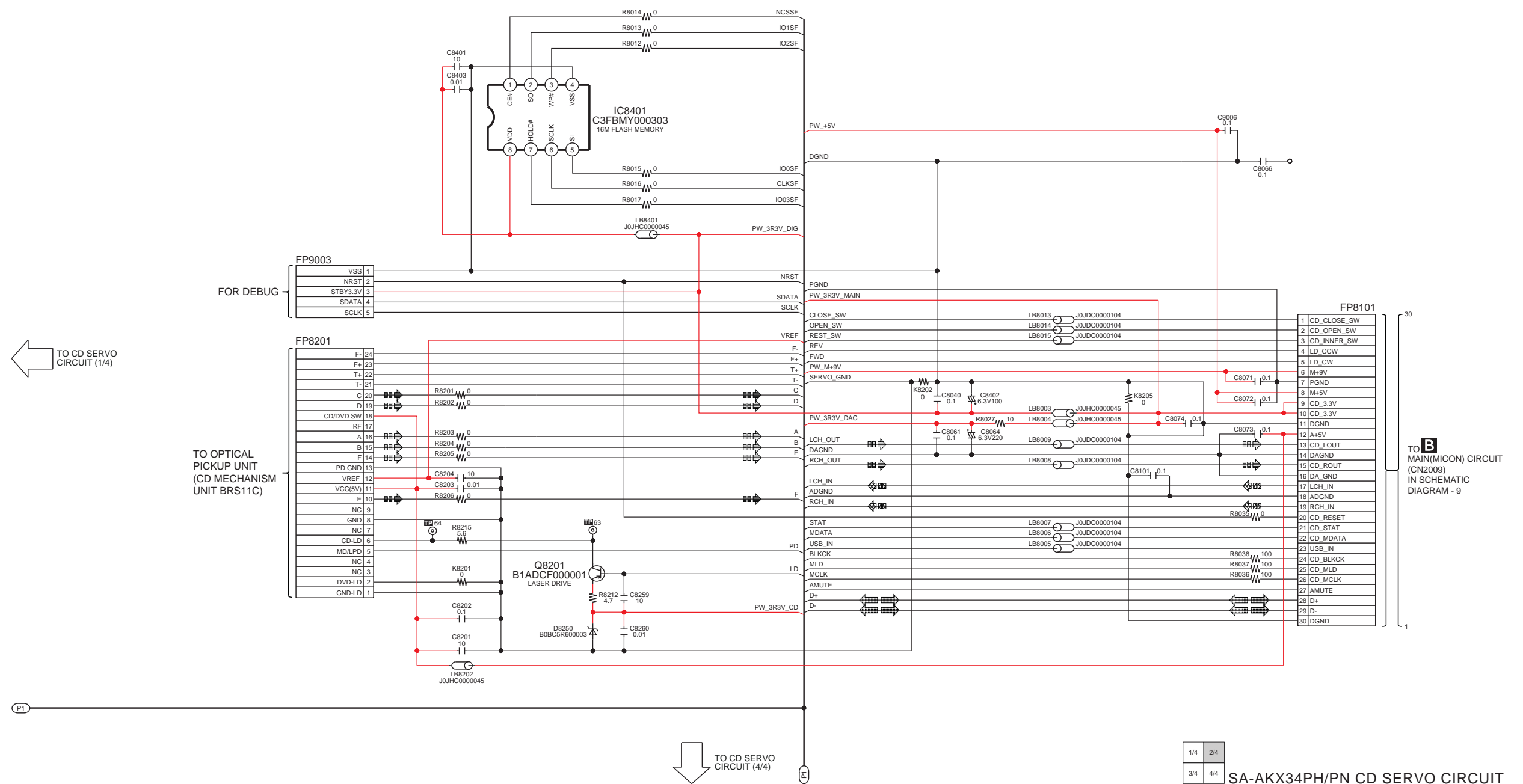


TO CD SERVO  
CIRCUIT (2/4)

TO CD SERVO  
CIRCUIT (3/4)

SCHEMATIC DIAGRAM - 2  
**A** CD SERVO CIRCUIT

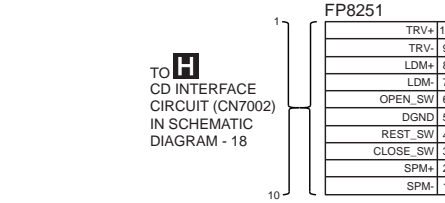
— : +B SIGNAL LINE     : CD AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE     : USB SIGNAL LINE



## A CD SERVO CIRCUIT



## A CD SERVO CIRCUIT



TO CD SERVICE  
CIRCUIT (3/4)

↑ TO CD SERVO  
CIRCUIT (2/4)

|               |               |
|---------------|---------------|
| $\frac{1}{4}$ | $\frac{2}{4}$ |
| $\frac{3}{4}$ | $\frac{4}{4}$ |

SA-AKX34PH/PN CD SERVO CIRCUIT



A horizontal timeline consisting of a single line with 14 vertical tick marks. The segments between the tick marks are numbered 1 through 14, starting from the left and ending on the right.

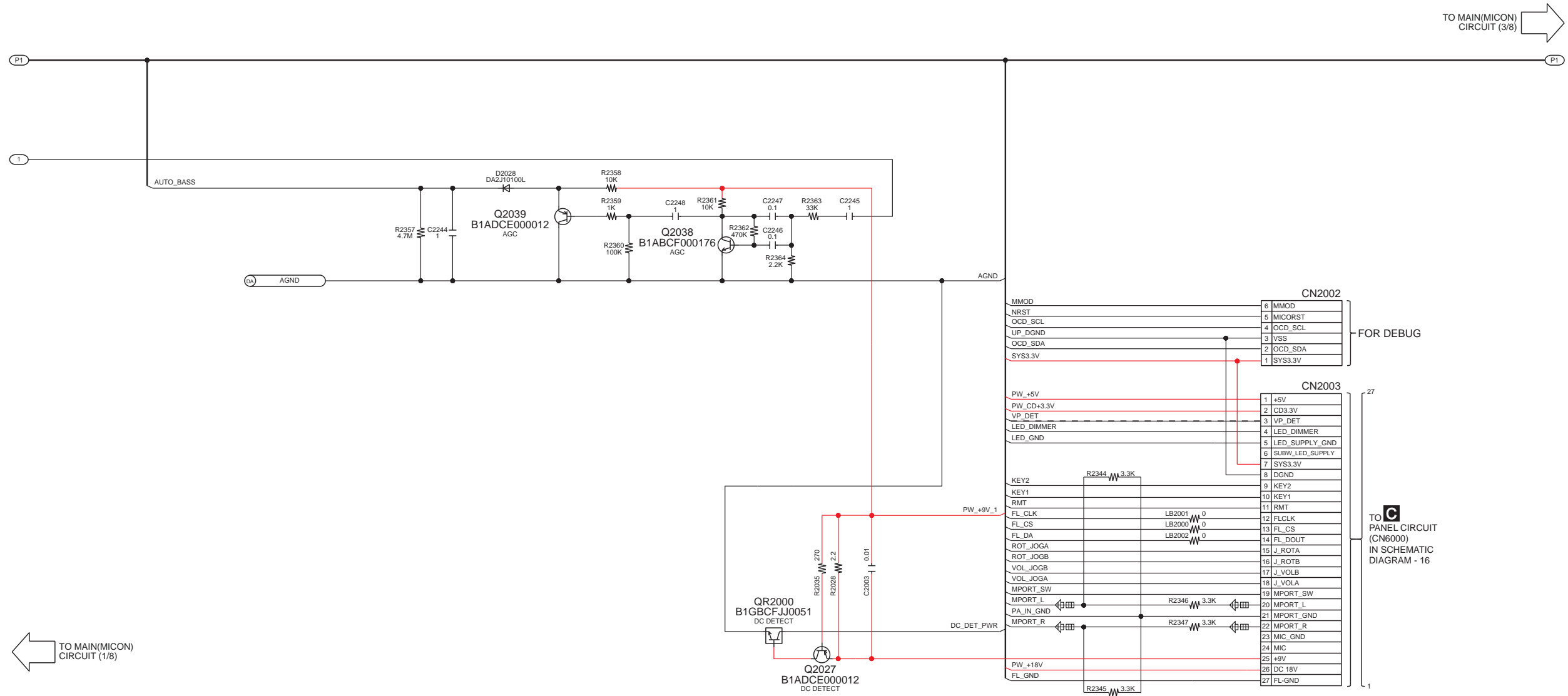
## B MAIN(MICON) CIRCUIT



SCHEMATIC DIAGRAM - 6

**B** MAIN(MICON) CIRCUIT

— : +B SIGNAL LINE     : CD AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE     : FM SIGNAL LINE  
— : -B SIGNAL LINE     : AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE     : AM SIGNAL LINE     : USB SIGNAL LINE



TO MAIN(MICON)  
CIRCUIT (1/8)

TO MAIN(MICON)  
CIRCUIT (6/8)

MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 12  
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 13 ~ 14

|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-AKX34PH/PN MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 7

B MAIN(MICON) CIRCUIT

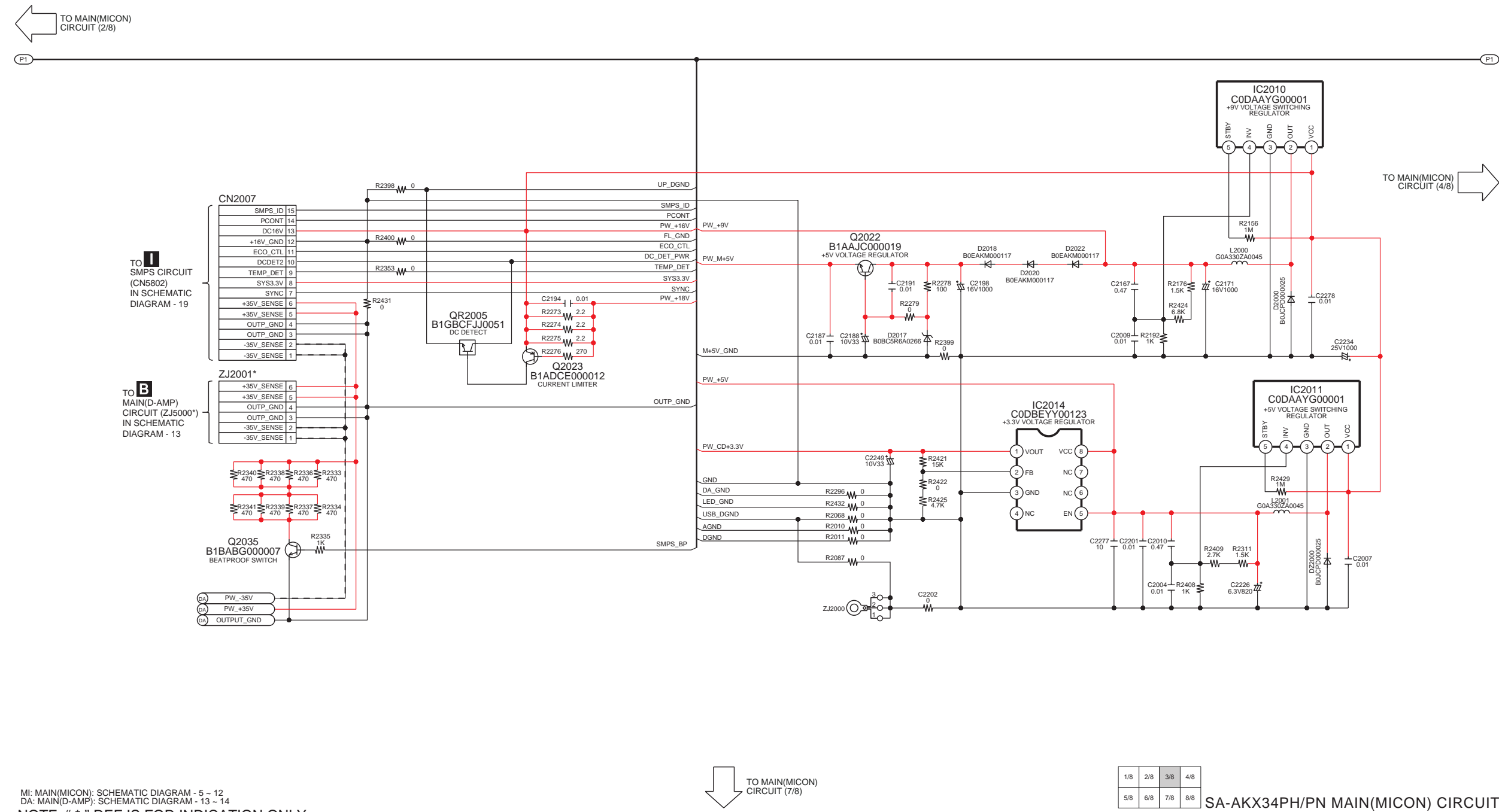
- : +B SIGNAL LINE

— : -B SIGNAL LINE
- : CD AUDIO INPUT SIGNAL LINE

: AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE
- : AUDIO OUTPUT SIGNAL LINE

: AM SIGNAL LINE
- : FM SIGNAL LINE

: USB SIGNAL LINE





SCHEMATIC DIAGRAM - 9  
**B** MAIN(MICON) CIRCUIT

- : +B SIGNAL LINE
- : -B SIGNAL LINE
- : CD AUDIO INPUT SIGNAL LINE
- : AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE
- : AUDIO OUTPUT SIGNAL LINE
- : AM SIGNAL LINE
- : FM SIGNAL LINE
- : USB SIGNAL LINE

TO **A**  
CD SERVO CIRCUIT  
(FP8101)  
IN SCHEMATIC  
DIAGRAM - 2

↑  
TO MAIN(MICON)  
CIRCUIT (1/8)

→  
TO MAIN(MICON)  
CIRCUIT (6/8)

MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 12  
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 13 ~ 14

|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-AKX34PH/PN MAIN(MICON) CIRCUIT

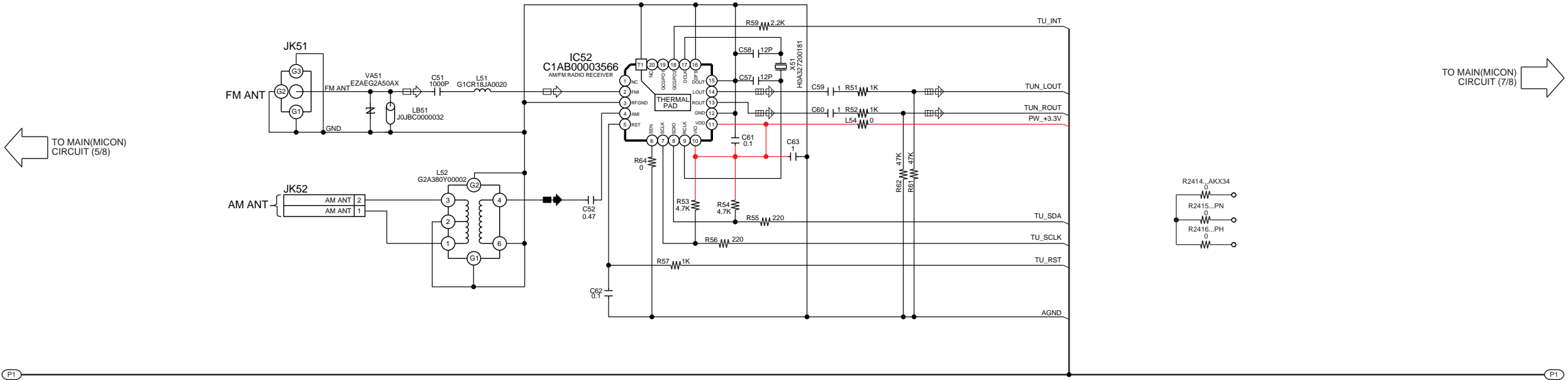
SCHEMATIC DIAGRAM - 10

**B** MAIN(MICON) CIRCUIT

— : +B SIGNAL LINE     : CD AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE     : FM SIGNAL LINE

— : -B SIGNAL LINE     : AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE     : AM SIGNAL LINE     : USB SIGNAL LINE

↑ TO MAIN(MICON)  
CIRCUIT (2/8)



MI: MAIN(MICON); SCHEMATIC DIAGRAM - 5 ~ 12  
DA: MAIN(D-AMP); SCHEMATIC DIAGRAM - 13 ~ 14

|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-AKX34PH/PN MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 11

B

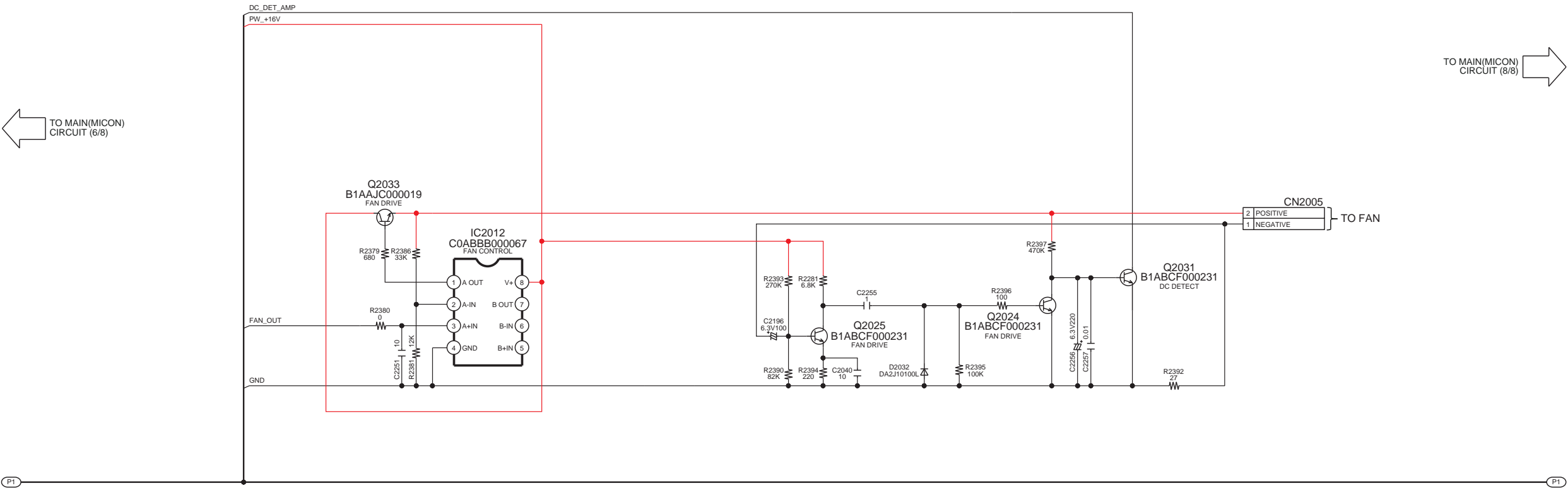
MAIN(MICON) CIRCUIT

- : +B SIGNAL LINE
- : -B SIGNAL LINE
- : CD AUDIO INPUT SIGNAL LINE
- : AUX/TUNER/MUSIC PORT AUDIO INPUT SIGNAL LINE
- : AUDIO OUTPUT SIGNAL LINE
- : AM SIGNAL LINE
- : FM SIGNAL LINE
- : USB SIGNAL LINE

↑  
TO MAIN(MICON)  
CIRCUIT (3/8)

←  
TO MAIN(MICON)  
CIRCUIT (6/8)

→  
TO MAIN(MICON)  
CIRCUIT (8/8)



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 12  
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 13 ~ 14

|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-AKX34PH/PN MAIN(MICON) CIRCUIT

29 30 31 32 33 34 35 36 37 38 39 40 41 42

## B MAIN(MICON) CIRCUIT



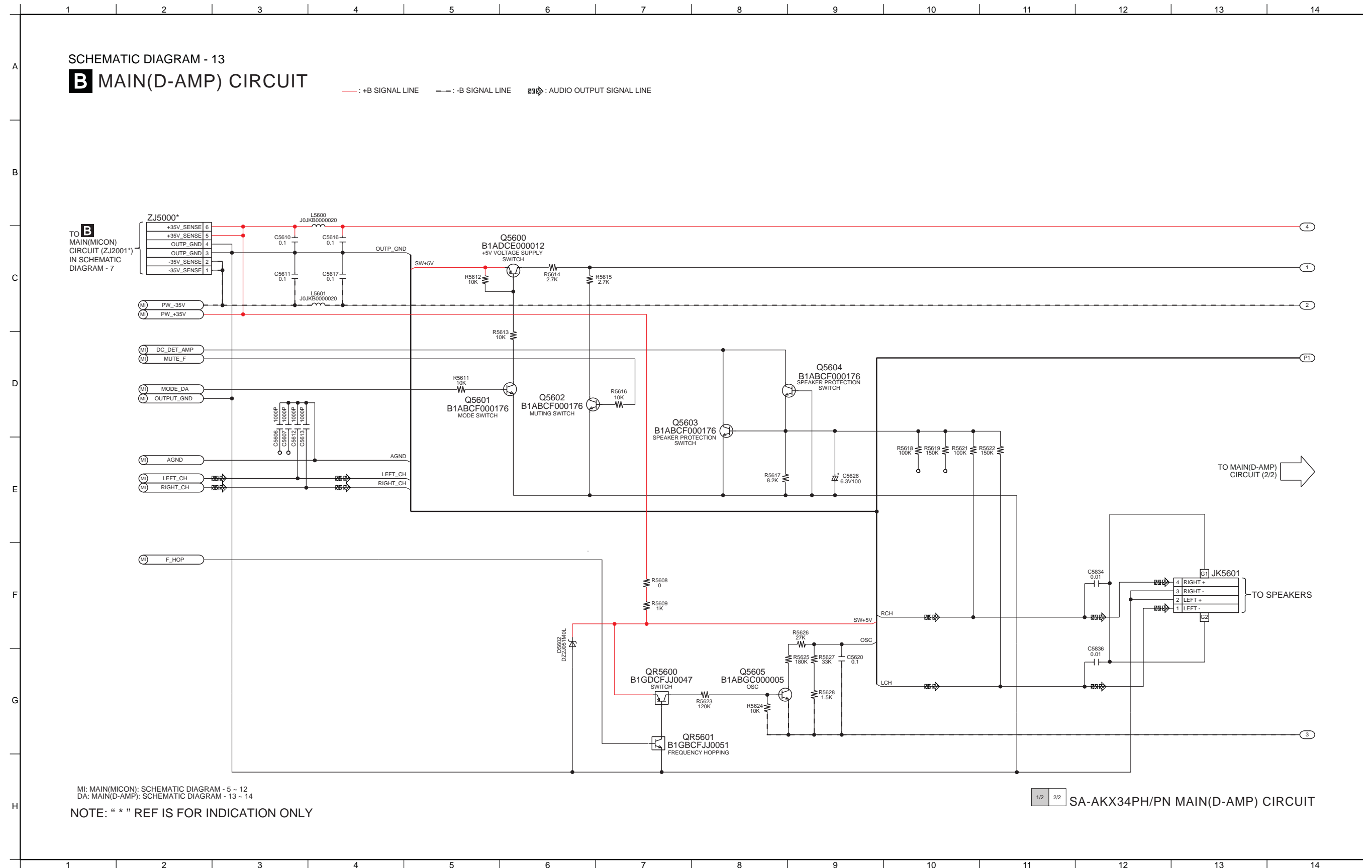
TO **E**  
USB CIRCUIT  
(ZJ6300\*)  
IN SCHEMATIC  
DIAGRAM - 17

|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-AKX34PH/PN MAIN(MICON) CIRCUIT

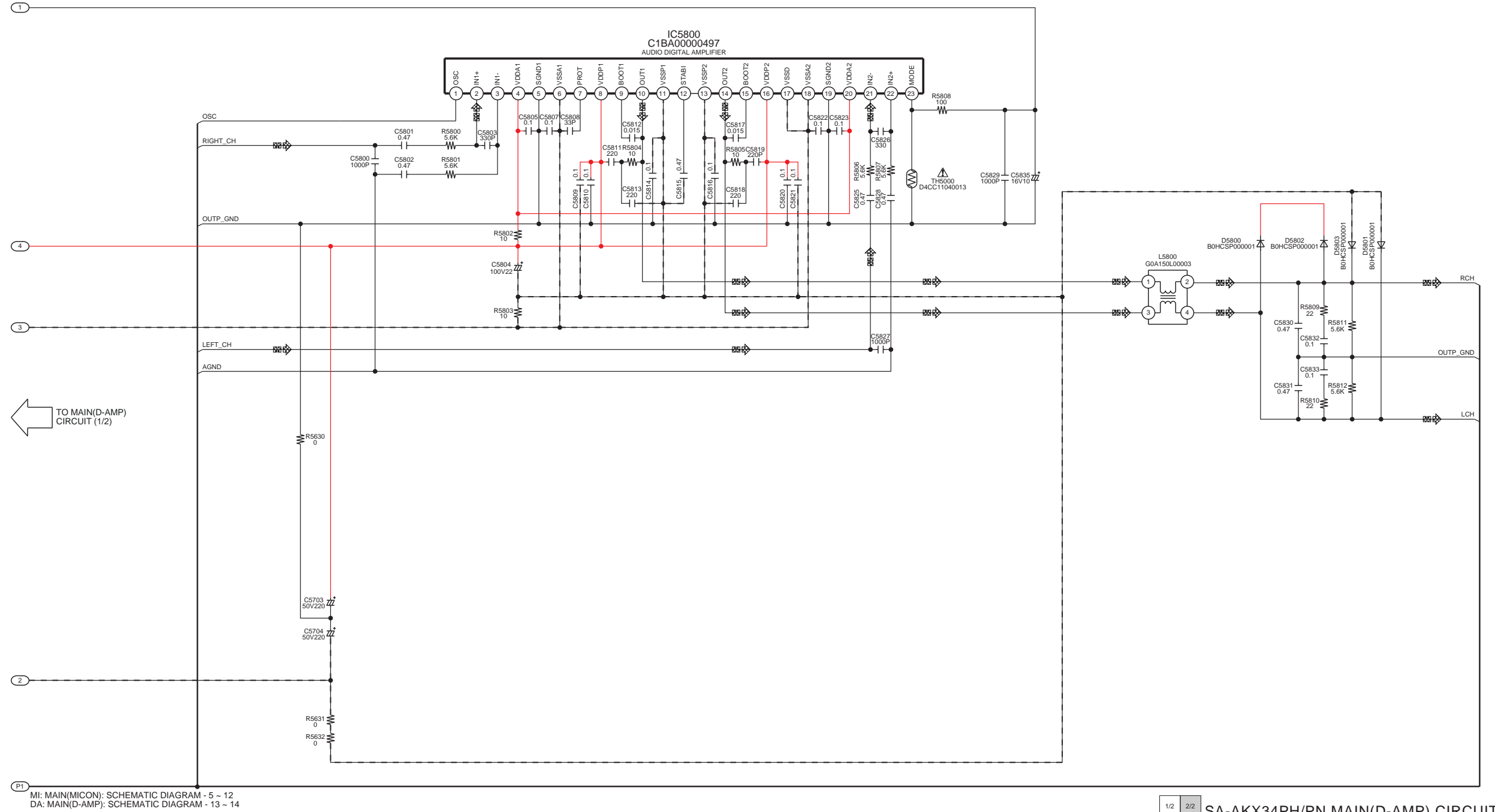


### 16.4. Main(D-Amp) Circuit



## B MAIN(D-AMP) CIRCUIT

— : +B SIGNAL LINE      — : -B SIGNAL LINE       : AUDIO OUTPUT SIGNAL LINE



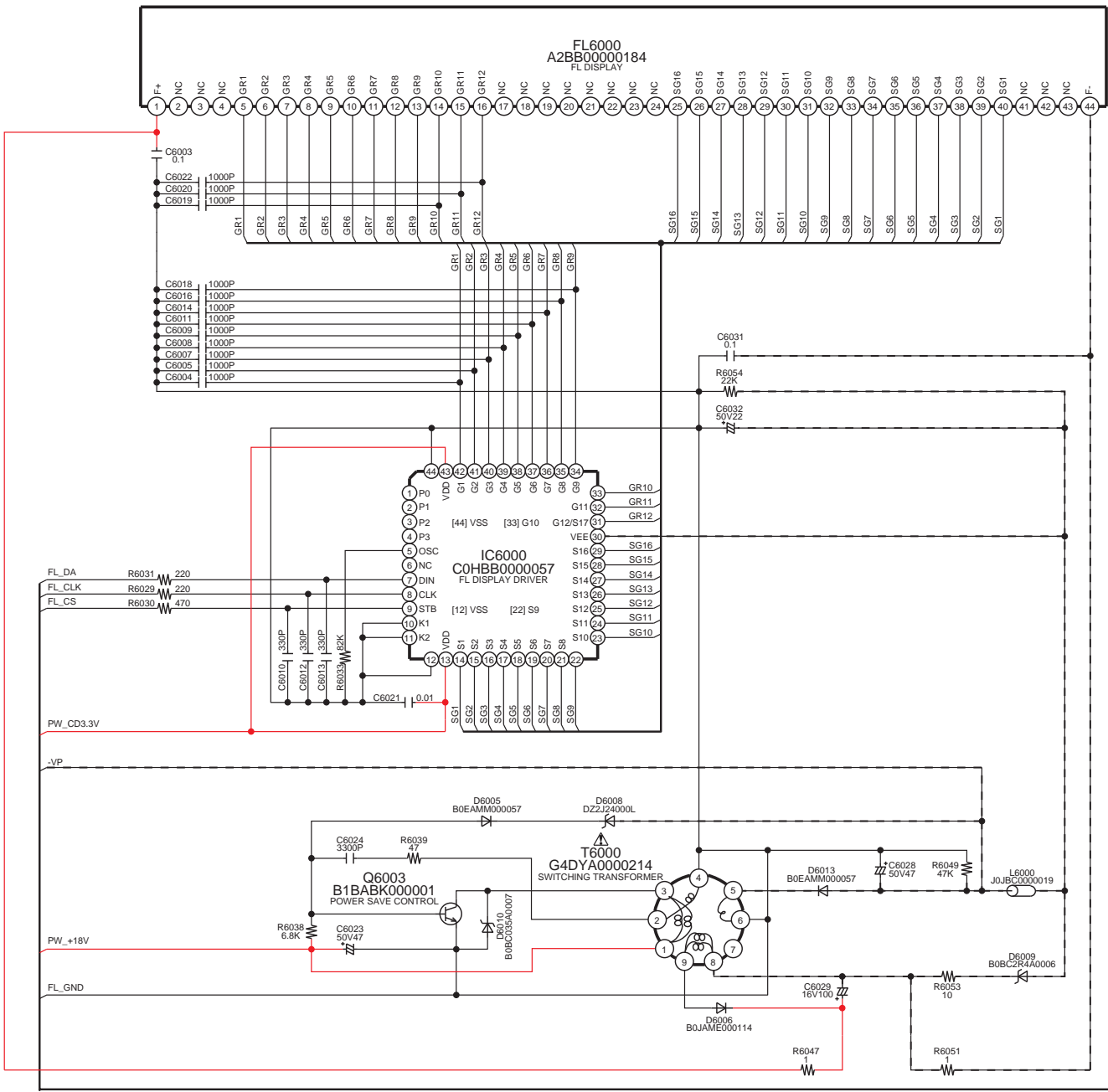
1/2 2/2 SA-AKX34PH/PN MAIN(D-AMP) CIRCUIT

16.5. Panel Circuit

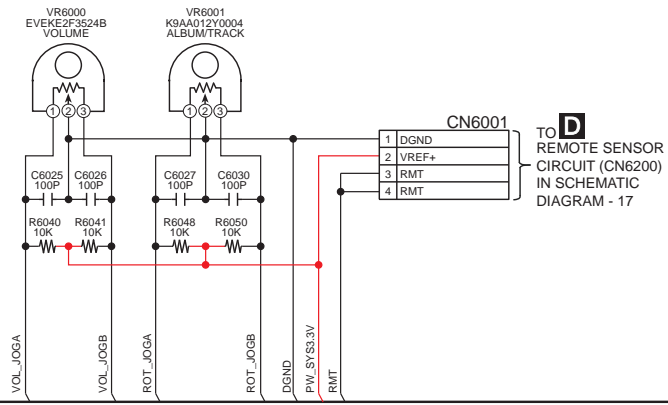
SCHEMATIC DIAGRAM - 15

**C** PANEL CIRCUIT

— : +B SIGNAL LINE    — : -B SIGNAL LINE     : MUSIC PORT AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE



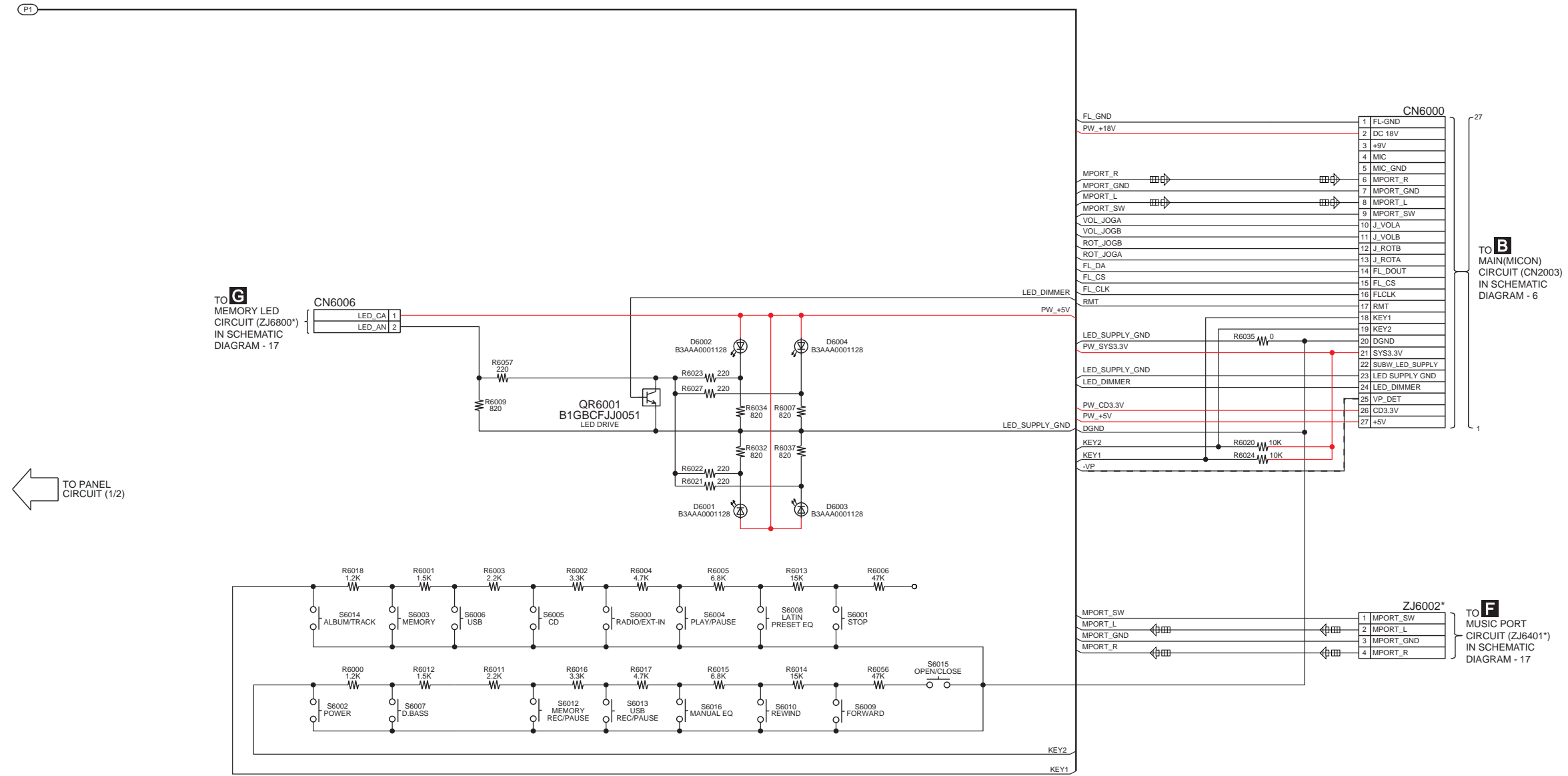
TO PANEL  
CIRCUIT (2/2)



SCHEMATIC DIAGRAM - 16

**C** PANEL CIRCUIT

— : +B SIGNAL LINE    — : -B SIGNAL LINE    : MUSIC PORT AUDIO INPUT SIGNAL LINE    : AUDIO OUTPUT SIGNAL LINE



NOTE: " \* " REF IS FOR INDICATION ONLY

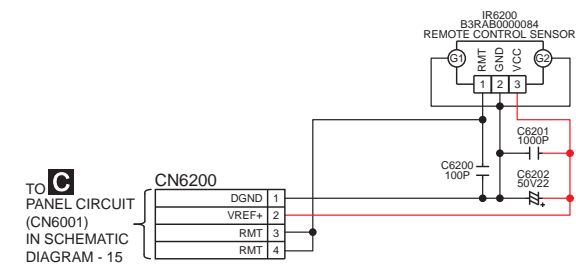
1/2 2/2 SA-AKX34PH/PN PANEL CIRCUIT

## 16.6. Remote Sensor, USB, Music Port and Memory LED Circuit

SCHEMATIC DIAGRAM - 17

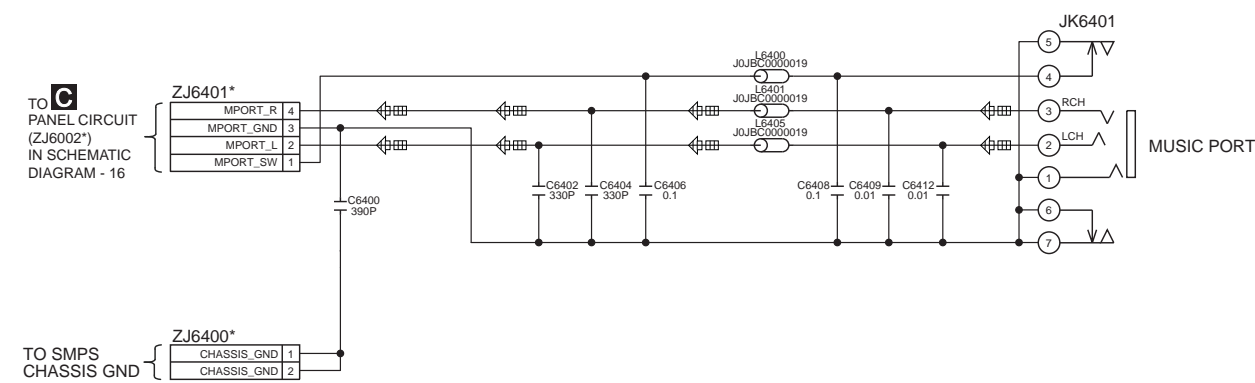
## D REMOTE SENSOR CIRCUIT

—: +B SIGNAL LINE



## F MUSIC PORT CIRCUIT

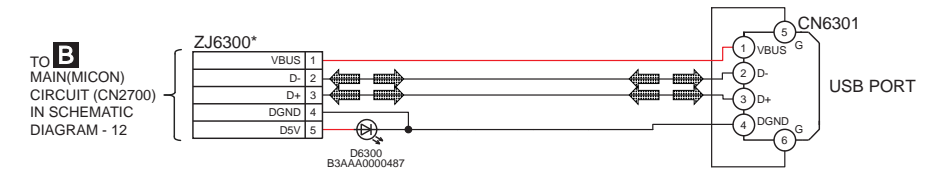
 : MUSIC PORT AUDIO INPUT SIGNAL LINE       : AUDIO OUTPUT SIGNAL LINE



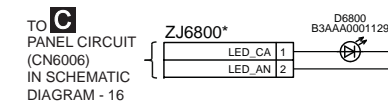
NOTE: " \* " REF IS FOR INDICATION ONLY

## E USB CIRCUIT

— : +B SIGNAL LINE      ➡ : USB SIGNAL LINE



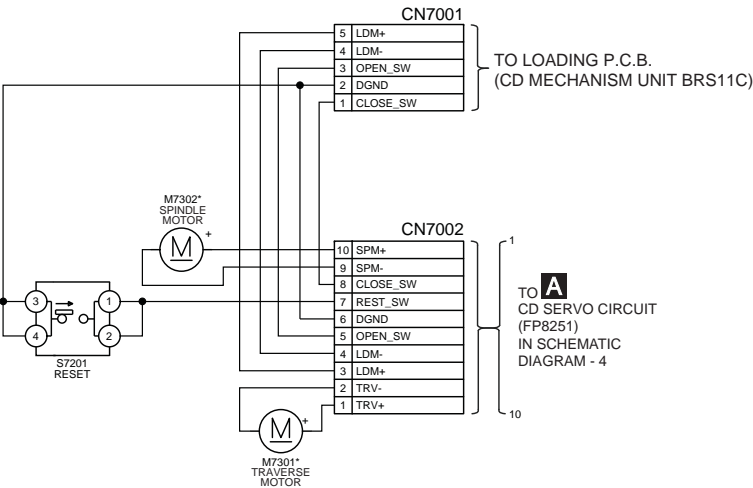
## G MEMORY LED CIRCUIT



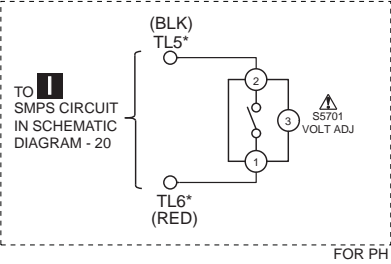
SA-AKX34PH/PN REMOTE SENSOR / USB / MUSIC PORT / MEMORY LED CIRCUIT

16.7. CD Interface and Voltage Selector Circuit

SCHEMATIC DIAGRAM - 18  
**H** CD INTERFACE CIRCUIT



**J** VOLTAGE SELECTOR CIRCUIT



NOTE: " \* " REF IS FOR INDICATION ONLY

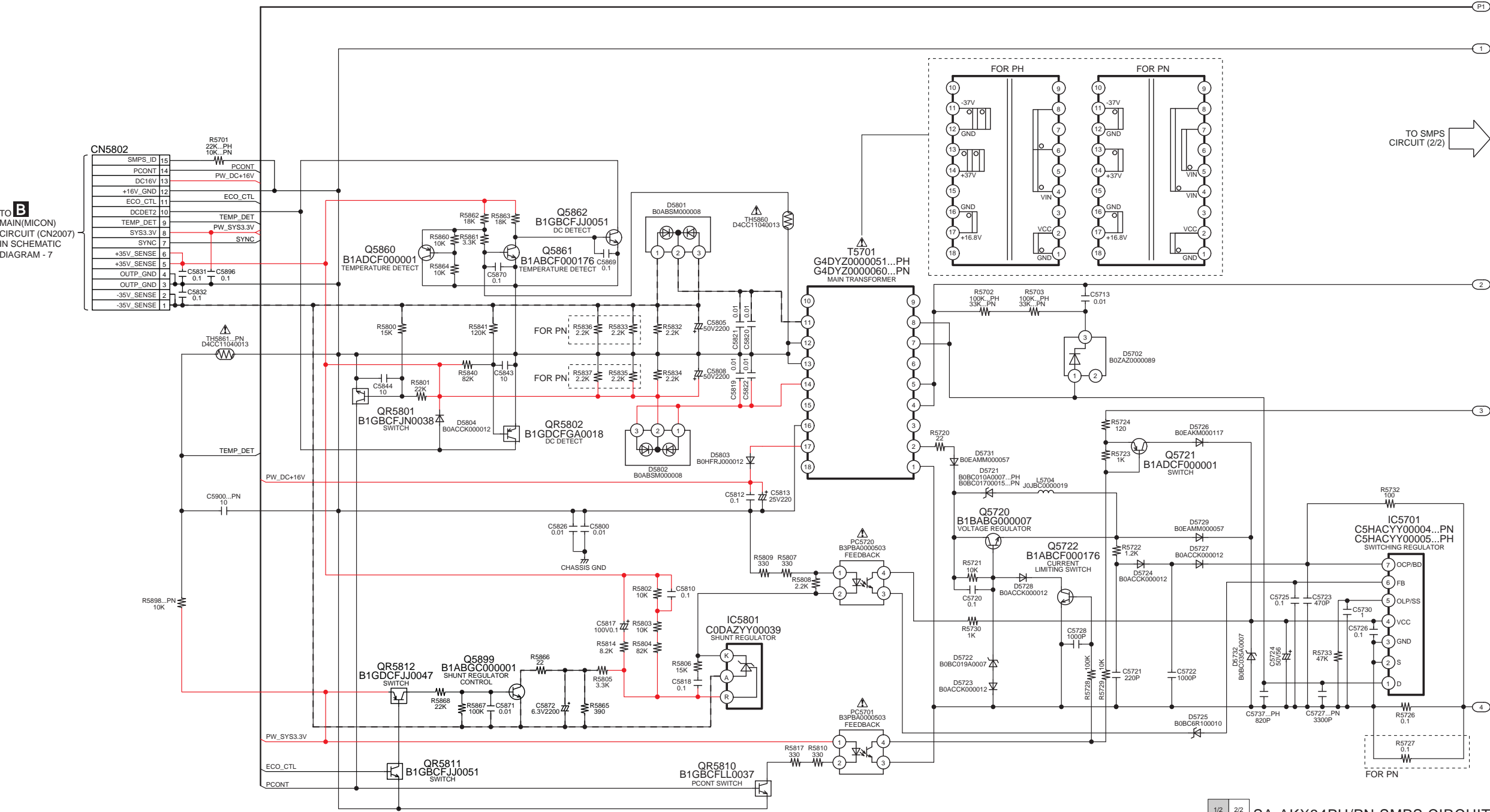
SA-AKX34PH/PN CD INTERFACE / VOLTAGE SELECTOR CIRCUIT

# 16.8. SMPS Circuit

SCHEMATIC DIAGRAM - 19

## I SMPS CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE



1/2 2/2 SA-AKX34PH/PN SMPS CIRCUIT

## I SMPS CIRCUIT

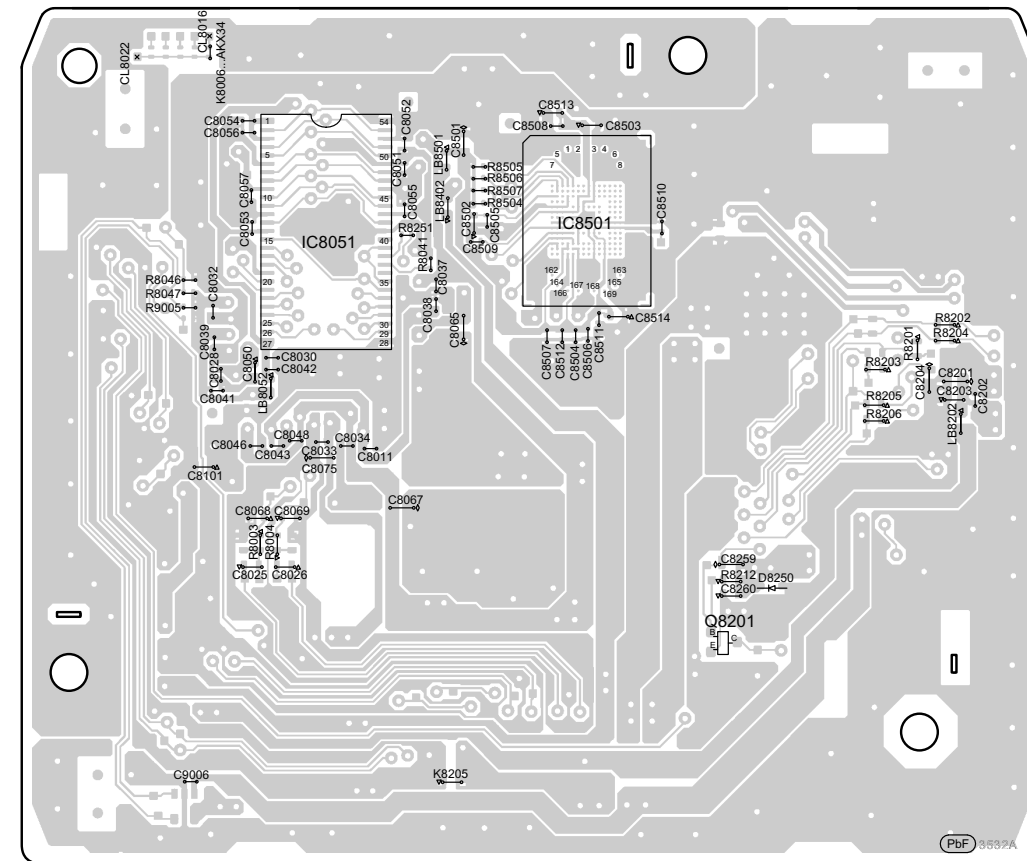


1/2 2/2 SA-AKX34PH/PN SMPS CIRCUIT

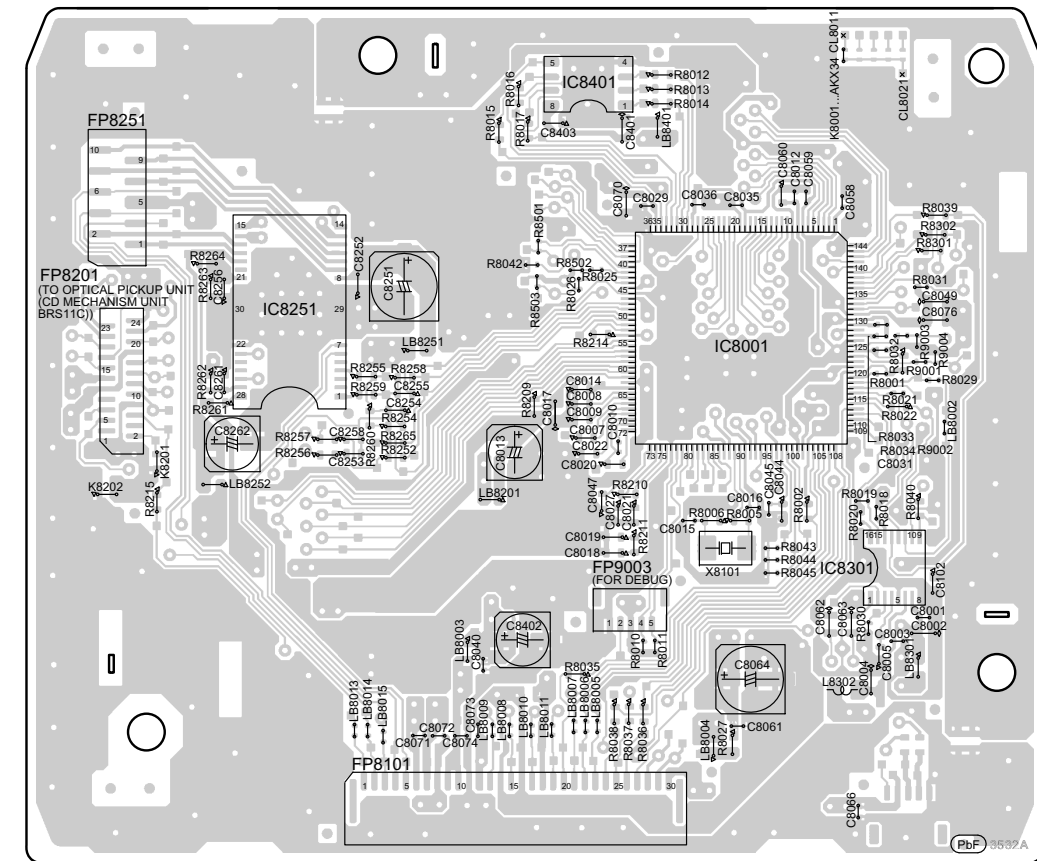


### 17.1. CD Servo P.C.B.

**A** CD SERVO P.C.B. (REP4749A)



(SIDE A)



(SIDE B)

SA-AKX34PH/PN  
CD SERVO P.C.B.

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

94

## H

G

F

F

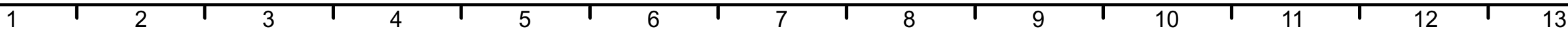
D

c

D

•

NOTE: " \* " REF IS FOR INDICATION ONLY.



95

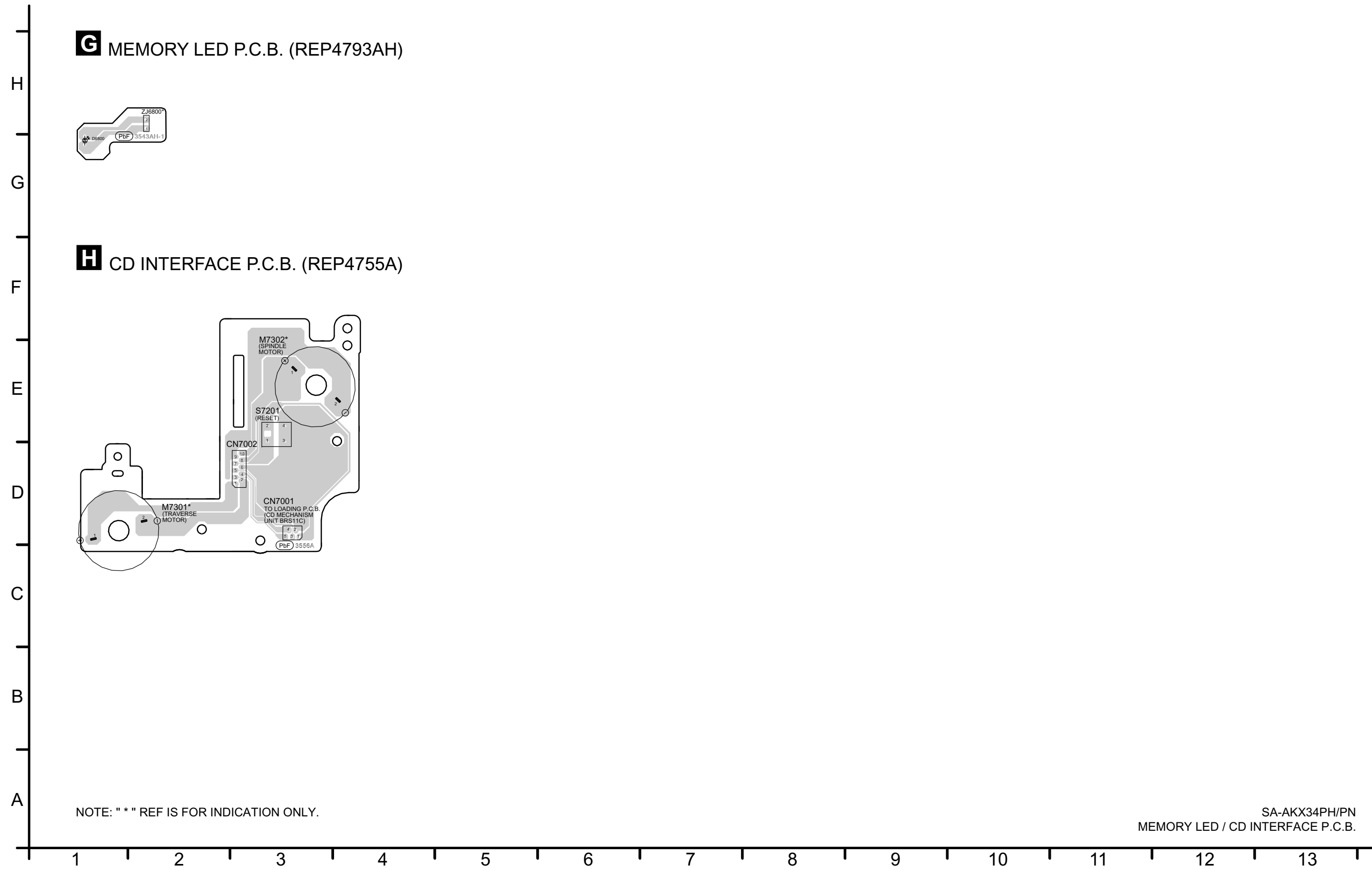
A vertical scale with labels A, B, C, D, E, F, G, H from bottom to top.

Diagram of a sensor component. The component is a rectangular circuit board with several components labeled: CN6200 (top left), IR6200 (top right), CN6202 (bottom left), and PbF 3543AB-1 (bottom center). A box labeled "SENSOR" is connected to the right side of the component. The component also has a series of numbered pins (1, 2, 3, 4) on the left side.

[illegible]

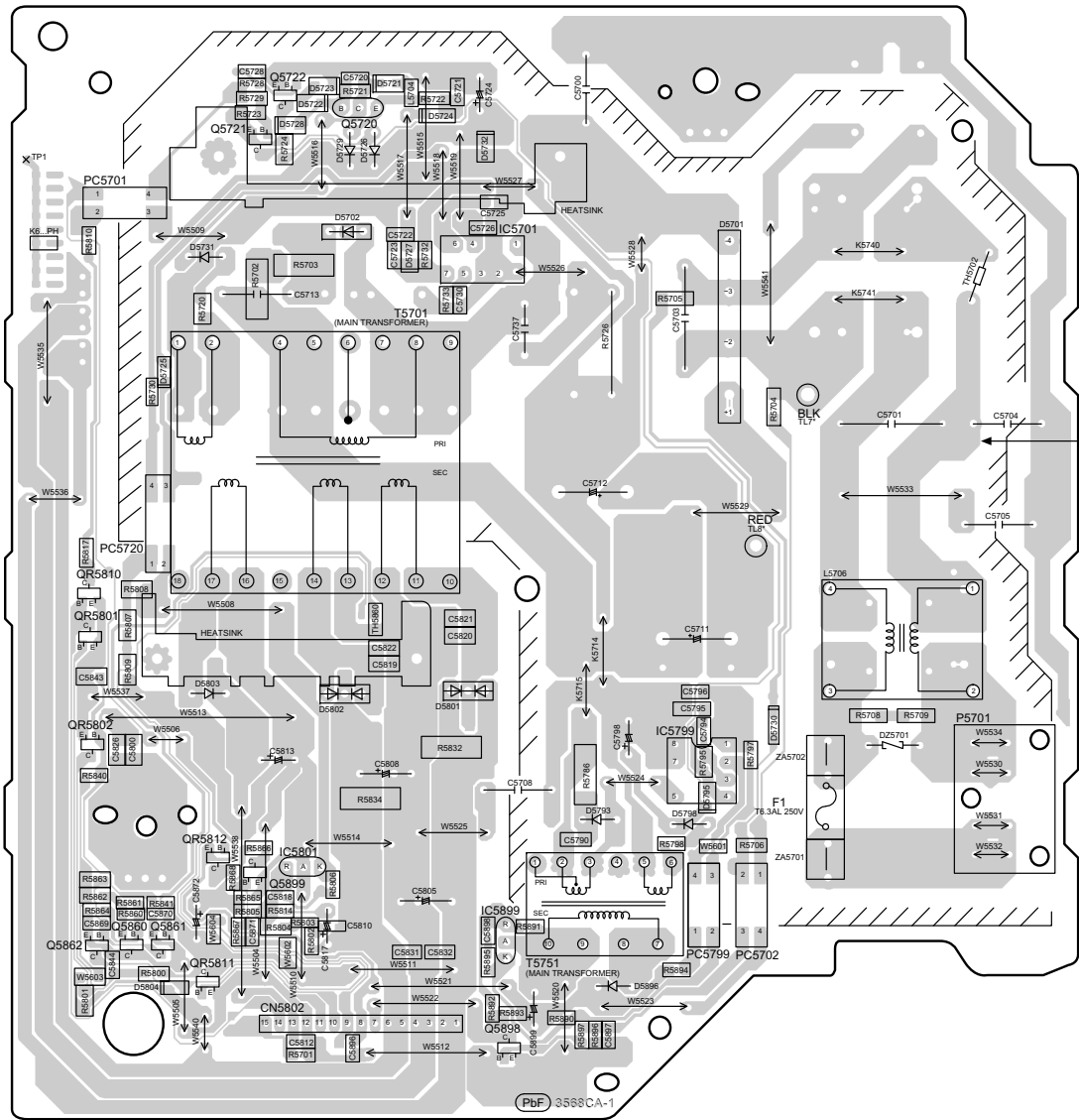
96

17.5. Memory LED and CD Interface P.C.B

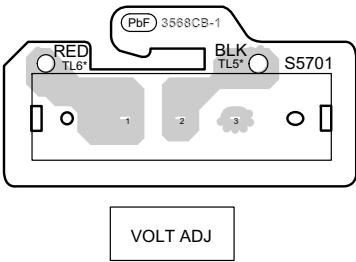


17.6. SMPS and Voltage Selector (PH)

**I** SMPS P.C.B. (REP4783F...PH)



**J** VOLTAGE SELECTOR P.C.B. (REP4783F...PH)



NOTE: " \* " REF IS FOR INDICATION ONLY.

SA-AKX34PH/PN  
SMPS / VOLTAGE SELECTOR P.C.B.

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

AC IN ~  
120V 60Hz

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





# 18 Appendix Information of Schematic Diagram

## 18.1. Voltage & Waveform Chart

### 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.

### 18.1.1. CD Servo P.C.B. (1/3)

| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 3.2    | 1.4 | 1.4 | 0.7 | 0.7 | 1.2 | 3.3 | 1.2 | 0   | 3.3 | 3.2  | 3.3 | 0   | 0.1 | 1.8 | 1.8 | 1.7 | 3.3 | 0   | 1.7 |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| CD PLAY | 1.7    | 1.7 | 1.7 | 0   | 3.3 | 3.3 | 1.5 | 3.3 | 3.3 | 2.5 | 8    | 3.3 | 0.7 | 3.2 | 3.3 | 0   | 3.3 | 3.3 | 3.3 | 3.3 |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51   | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| CD PLAY | 3.3    | 3.3 | 0   | 3.3 | 3.3 | 0   | 1.2 | 1.7 | 1.7 | 1.5 | 1.6  | 0   | 1.7 | 1.7 | 2   | 2   | 1.8 | 1.9 | 1.9 | 1.8 |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 61     | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71   | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| CD PLAY | 0.2    | 2.4 | 0   | 3.3 | 1.7 | 1.7 | 1   | 1   | 1   | 1.2 | 1.3  | 1.7 | 1.7 | 1.4 | 1.4 | 0.5 | 0   | 3.3 | 3.3 | 0.9 |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 81     | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91   | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| CD PLAY | 0      | 0   | 0   | 0   | 0   | 0   | 1.2 | 3.2 | 1.5 | 0   | 0    | 3.3 | 0   | 1.7 | 1.7 | 1.2 | 3.3 | 0   | 0   | 0   |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 101    | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111  | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| CD PLAY | 1.2    | 0   | 3.3 | 3.3 | 3.2 | 3.3 | 3.3 | 3.3 | 1.5 | 1.5 | 1.32 | 3.3 | 3.3 | 0   | 1.3 | 1.3 | 1.3 | 1.3 | 3.3 | 3.3 |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 121    | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131  | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| CD PLAY | 1.2    | 0   | 0   | 3.3 | 0   | 0   | 0   | 3.3 | 0   | 0   | 3.3  | 0   | 3.2 | 3.2 | 0   | 0.8 | 0.8 | 1.6 | 0   | 0   |
| REF NO. | IC8001 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 141    | 142 | 143 | 144 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| CD PLAY | 0      | 1.2 | 1.4 | 0.7 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| REF NO. | IC8051 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 3.3    | 0.7 | 3.3 | 0.7 | 1.4 | 0   | 1.4 | 0.7 | 3.3 | 1.4 | 1.4  | 0   | 1.4 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0   | 0   |
| REF NO. | IC8051 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| CD PLAY | 0      | 0   | 0.1 | 1.8 | 1.8 | 1.7 | 3.3 | 0   | 1.7 | 1.7 | 1.7  | 1.7 | 0   | 3.3 | 3.3 | 0   | 3.3 | 1.5 | 3.3 | 0   |
| REF NO. | IC8051 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51   | 52  | 53  | 54  |     |     |     |     |     |     |
| CD PLAY | 0      | 0.6 | 3.3 | 1.2 | 1.2 | 0   | 1.2 | 0.6 | 3.3 | 1.2 | 1.2  | 0   | 1.2 | 0   |     |     |     |     |     |     |
| REF NO. | IC8251 |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 1.6    | 9.1 | 2.5 | 1.6 | 2.4 | 3   | 3   | 9   | 0   | 0   | 4.6  | 4.6 | 2.6 | 2.7 | 2.6 | 2.7 | 2   | 3.1 | 5   | 0   |

SA-AKX34PH/PN CD SERVO P.C.B.

### 18.1.2. CD Servo P.C.B. (2/3)

| REF NO. | IC8251 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 1.5    | 0   | 1.5 | 9.3 | 9.3 | 1.7 | 1.7 | 3.3 | 0   | 0   |     |     |     |     |     |     |     |     |     |     |
| REF NO. | IC8301 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  |     |     |     |     |
| CD PLAY | 2.3    | 1.5 | 0   | 0   | 0   | 5   | 3.2 | 0   | 0   | 0.9 | 0.9 | 0.9 | 0   | 3.3 | 0   | 0   |     |     |     |     |
| REF NO. | IC8401 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   |     |     |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 1.8    | 2.5 | 3.3 | 0   | 3.2 | 0.8 | 3.3 | 3.3 |     |     |     |     |     |     |     |     |     |     |     |     |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 3.0 | 0   | 0   | 3.0 | 0   | 0   | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| CD PLAY | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3.0 | 0   | 0   | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| CD PLAY | 0      | 3.0 | 3.0 | 3.0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 61     | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| CD PLAY | 0      | 3.0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 3.0 | 3.0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 81     | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| CD PLAY | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 101    | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| CD PLAY | 3.0    | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 0   | 0   | 3.0 | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 3.0 | 0   | 0   | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 121    | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| CD PLAY | 0      | 0   | 3.0 | 3.0 | 3.0 | 0   | 0   | 0   | 0   | 3.0 | 0   | 0   | 0   | 0   | 0   | 3.0 | 3.0 | 0   | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 141    | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| CD PLAY | 0      | 0   | 0   | 3.0 | 0   | 0   | 0   | 0   | 0   | 3.0 | 0   | 3.0 | 0   | 0   | 0   | 0   | 0   | 3.0 | 0   | 0   |
| REF NO. | IC8501 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 161    | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 |     |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     |     |     |     |     |     |     |     |     |     |

SA-AKX34PH/PN CD SERVO P.C.B.

### 18.1.3. CD Servo P.C.B. (3/3)

| REF NO. | Q8201 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | E     | C | B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 2.4   | 2 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SA-AKX34PH/PN CD SERVO P.C.B.

### 18.1.4. Main P.C.B. (1/3)

| REF NO.  | IC52   |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
|----------|--------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| TUNER    | 0      | 1.5 | 0   | 3.0 | 3.0 | 0   | 3.0 | 3.3  | 3.3 | 3.3 | 3.3 | 0   | 1.4 | 0.3 | 0   | 0   | 3.3 | 3.0 | 0   | 0   |
| REF NO.  | IC2000 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| POWER ON | 0      | 3.1 | 2.0 | 0   | 4.4 | 4.4 | 4.4 | 4.4  | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0   | 0   | 3.3 | 3.3 |
| STANDBY  | 0      | 0   | 0   | 0   | 4.4 | 4.4 | 4.4 | 4.4  | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0   | 0   | 3.3 | 3.3 |
| REF NO.  | IC2000 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| POWER ON | 8.6    | 0   | 0.2 | 0   | 0.7 | 4.4 | 4.4 | 0.3  | 4.2 | 4.2 | 4.2 | 4.2 | 4.3 | 4.4 | 4.4 | 0   | 2.0 | 3.1 | 0   | 0   |
| STANDBY  | 8.6    | 0   | 0.2 | 0   | 0.7 | 4.4 | 4.4 | 0.3  | 4.2 | 4.2 | 4.2 | 4.2 | 4.3 | 4.4 | 4.4 | 0   | 0   | 0   | 0   | 0   |
| REF NO.  | IC2000 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48   | 49  | 50  | 51  | 52  |     |     |     |     |     |     |     |     |
| POWER ON | 0      | 3.0 | 0   | 4.0 | 0   | 4.3 | 4.0 | 0    | 0   | 3.0 | 0   | 0   |     |     |     |     |     |     |     |     |
| STANDBY  | 0      | 0   | 0   | 0   | 0   | 4.3 | 0   | 0    | 0   | 0   | 0   | 0   |     |     |     |     |     |     |     |     |
| REF NO.  | IC2003 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| POWER ON | 0      | 3.3 | 3.3 | 0   | 0   | 0   | 1.2 | 0    | 3.3 | 3.3 | 0   | 1.5 | 1.6 | 0   | 1.1 | 1.7 | 3.3 | 1.8 | 3.2 | 3.2 |
| STANDBY  | 0      | 3.3 | 3.3 | 0   | 0   | 0   | 1.2 | 0    | 3.3 | 3.3 | 0   | 1.5 | 1.6 | 0   | 1.1 | 1.7 | 3.3 | 1.8 | 3.2 | 0   |
| REF NO.  | IC2003 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| POWER ON | 3.2    | 3.2 | 3.3 | 0   | 3.0 | 0   | 1.9 | 3.3  | 0   | 3.3 | 0   | 0   | 0   | 0   | 0   | 1.7 | 1.8 | 0   | 0   | 0   |
| STANDBY  | 0      | 3.2 | 3.3 | 0   | 3.0 | 0   | 1.9 | 3.3  | 0   | 3.3 | 0   | 0   | 0   | 0   | 0   | 1.7 | 1.8 | 0   | 0   | 0   |
| REF NO.  | IC2003 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48   | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| POWER ON | 0      | 0   | 3.0 | 0   | 0   | 0   | 0   | 3.3  | 0   | 0   | 0   | 3.3 | 3.3 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| STANDBY  | 0      | 0   | 3.0 | 0   | 0   | 0   | 0   | 3.3  | 0   | 0   | 0   | 3.3 | 3.3 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| REF NO.  | IC2003 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 61     | 62  | 63  | 64  | 65  | 66  | 67  | 68   | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| POWER ON | 0      | 0   | 0   | 3.0 | 3.0 | 0   | 0   | 0    | 3.3 | 0   | 0   | 0   | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0   | 0   | 0   |
| STANDBY  | 0      | 0   | 0   | 3.0 | 3.0 | 0   | 0   | 0    | 3.3 | 0   | 0   | 0   | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0   | 0   | 0   |
| REF NO.  | IC2003 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 81     | 82  | 83  | 84  | 85  | 86  | 87  | 88   | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| POWER ON | 0      | 3.3 | 3.3 | 0   | 0   | 3.3 | 3.3 | 3.3  | 3.3 | 0   | 0   | 0   | 0.6 | 0.9 | 3.3 | 0   | 0.9 | 3.3 | 2.6 | 3.3 |
| STANDBY  | 0      | 3.3 | 3.3 | 0   | 0   | 3.3 | 3.3 | 3.3  | 3.3 | 0   | 0   | 0   | 0.6 | 0.9 | 3.3 | 0   | 0.9 | 3.3 | 2.6 | 3.3 |
| REF NO.  | IC2005 |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE     | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8    |     |     |     |     |     |     |     |     |     |     |     |     |
| CD PLAY  | 9.0    | 9.0 | 9.0 | 0   | 9.0 | 9.0 | 9.0 | 17.8 |     |     |     |     |     |     |     |     |     |     |     |     |
| STANDBY  | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 17.8 |     |     |     |     |     |     |     |     |     |     |     |     |

SA-AKX34PH/PN MAIN P.C.B.

### 18.1.5. Main P.C.B. (2/3)

| REF NO.  | IC2006 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
|----------|--------|-----|-----|------|-------|-------|-------|------|-------|-----|-------|-------|-------|------|-----|------|-------|-------|-----|------|
| MODE     | 1      | 2   | 3   | 4    | 5     | 6     | 7     | 8    |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 0      | 0   | 0   | 0    | 2.0   | 3.0   | 3.0   | 3.3  |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 0      | 0   | 0   | 0    | 2.0   | 3.0   | 3.0   | 3.3  |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC2008 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 5.2    | 0   | 3.3 | 3.3  | 5.2   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 5.2    | 0   | 3.3 | 3.3  | 5.2   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC2010 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 18.2   | 9.3 | 0   | 1    | 2.9   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 18.2   | 9.3 | 0   | 1    | 2.9   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC2011 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 18.0   | 5.2 | 0   | 1.0  | 2.9   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 18.0   | 5.2 | 0   | 1.0  | 2.9   |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC2012 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     | 6     | 7     | 8    |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 7.1    | 0.5 | 0.5 | 0    | 0     | 0     | 0     | 18.0 |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 7.1    | 0.5 | 0.5 | 0    | 0     | 0     | 0     | 18.0 |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC2014 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     | 6     | 7     | 8    |       |     |       |       |       |      |     |      |       |       |     |      |
| POWER ON | 3.4    | 0.8 | 0   | 0    | 5.1   | 0     | 0     | 5.2  |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 3.4    | 0.8 | 0   | 0    | 5.1   | 0     | 0     | 5.2  |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | IC5800 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 1      | 2   | 3   | 4    | 5     | 6     | 7     | 8    | 9     | 10  | 11    | 12    | 13    | 14   | 15  | 16   | 17    | 18    | 19  | 20   |
| CD PLAY  | -11.0  | 0   | 0   | 34.5 | 0     | -32.9 | -24.6 | 35.6 | 0     | 0   | -34.0 | -31.0 | -34.0 | 0    | 9.0 | 34.6 | -34.0 | -34.0 | 0   | 34.0 |
| STANDBY  | -11.0  | 0   | 0   | 34.5 | 0     | -32.9 | -24.6 | 35.6 | 0     | 0   | -34.0 | -31.0 | -34.0 | 0    | 9.0 | 34.6 | -34.0 | -34.0 | 0   | 34.0 |
| REF NO.  | IC5800 |     |     |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| MODE     | 21     | 22  | 23  |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| CD PLAY  | 0      | 0   | 5.0 |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| STANDBY  | 0      | 0   | 2.3 |      |       |       |       |      |       |     |       |       |       |      |     |      |       |       |     |      |
| REF NO.  | Q2001  |     |     |      | Q2011 |       |       |      | Q2023 |     |       |       | Q2035 |      |     |      | Q2037 |       |     |      |
| MODE     | E      | C   | B   |      | E     | C     | B     |      | E     | C   | B     |       | E     | C    | B   |      | E     | C     | B   |      |
| CD PLAY  | 0      | 0   | 0   |      | 0     | 3.3   | 0     |      | 18.2  | 0   | 18.1  |       | 0     | 34.1 | 2.0 |      | 0     | 4.4   | 3.0 |      |
| STANDBY  | 0      | 0   | 0   |      | 0     | 3.3   | 0     |      | 18.2  | 0   | 18.1  |       | 0     | 34.1 | 2.0 |      | 0     | 4.4   | 3.0 |      |
| REF NO.  | Q2038  |     |     |      | Q2039 |       |       |      | Q2040 |     |       |       | Q2041 |      |     |      | Q2042 |       |     |      |
| MODE     | E      | C   | B   |      | E     | C     | B     |      | E     | C   | B     |       | E     | C    | B   |      | E     | C     | B   |      |
| CD PLAY  | 0      | 1.9 | 1.5 |      | 0.9   | 0     | 1.9   |      | 0     | 4.3 | 4.4   |       | 0     | 4.4  | 4.3 |      | 0     | 3.3   | 0   |      |
| STANDBY  | 0      | 1.9 | 1.5 |      | 0.9   | 0     | 1.9   |      | 0     | 4.3 | 4.4   |       | 0     | 4.4  | 4.3 |      | 0     | 3.3   | 0   |      |

SA-AKX34PH/PN MAIN P.C.B.

### 18.1.6. Main P.C.B. (3/3)

| REF NO.  | Q2050  |     |     |  | Q5603  |      |     |  | Q5604  |     |     |  | Q5605  |     |     |  | QR5600 |     |     |  |
|----------|--------|-----|-----|--|--------|------|-----|--|--------|-----|-----|--|--------|-----|-----|--|--------|-----|-----|--|
| MODE     | E      | C   | B   |  | E      | C    | B   |  | E      | C   | B   |  | E      | C   | B   |  | E      | C   | B   |  |
| CD PLAY  | 0      | 0   | 9.0 |  | 0      | 3.3  | 0   |  | 0      | 3.3 | 0   |  | -37.1  | 2.4 | 1.0 |  | 5.0    | 1.0 | 4.8 |  |
| STANDBY  | 0      | 0   | 0.2 |  | 0      | 3.3  | 0   |  | 0      | 3.3 | 0   |  | -37.1  | 2.4 | 1.0 |  | 5.0    | 1.0 | 4.8 |  |
| REF NO.  | QR5601 |     |     |  |        |      |     |  |        |     |     |  |        |     |     |  |        |     |     |  |
| MODE     | E      | C   | B   |  |        |      |     |  |        |     |     |  |        |     |     |  |        |     |     |  |
| CD PLAY  | 0      | 4.8 | 0   |  |        |      |     |  |        |     |     |  |        |     |     |  |        |     |     |  |
| STANDBY  | 0      | 4.8 | 0   |  |        |      |     |  |        |     |     |  |        |     |     |  |        |     |     |  |
| REF NO.  | Q2018  |     |     |  | Q2022  |      |     |  | Q2024  |     |     |  | Q2025  |     |     |  | Q2027  |     |     |  |
| MODE     | E      | C   | B   |  | E      | C    | B   |  | E      | C   | B   |  | E      | C   | B   |  | E      | C   | B   |  |
| POWER ON | 0      | 5.0 | 0   |  | 5.1    | 7.0  | 5.8 |  | 0      | 3.2 | 1.0 |  | 0      | 1.0 | 5.0 |  | 9.0    | 8.9 | 9.0 |  |
| STANDBY  | 0      | 5.0 | 0   |  | 5.1    | 7.0  | 5.8 |  | 0      | 3.2 | 1.0 |  | 0      | 1.0 | 5.0 |  | 9.0    | 8.9 | 9.0 |  |
| REF NO.  | Q2031  |     |     |  | Q2033  |      |     |  | Q5600  |     |     |  | Q5601  |     |     |  | Q5602  |     |     |  |
| MODE     | E      | C   | B   |  | E      | C    | B   |  | E      | C   | B   |  | E      | C   | B   |  | E      | C   | B   |  |
| POWER ON | 0      | 3.3 | 3.2 |  | 16.0   | 18.2 | 7.1 |  | 5.1    | 5.1 | 4.5 |  | 0      | 5   | 0   |  | 0      | 0   | 0.6 |  |
| STANDBY  | 0      | 3.3 | 3.2 |  | 16.0   | 18.2 | 7.1 |  | 5.1    | 5.1 | 4.5 |  | 0      | 5   | 0   |  | 0      | 0   | 0.6 |  |
| REF NO.  | QR2000 |     |     |  | QR2003 |      |     |  | QR2005 |     |     |  | QR2006 |     |     |  |        |     |     |  |
| MODE     | E      | C   | B   |  | E      | C    | B   |  | E      | C   | B   |  | E      | C   | B   |  |        |     |     |  |
| POWER ON | 0      | 0   | 8.9 |  | 0      | 3.3  | 0   |  | 0      | 3.3 | 0   |  | 0      | 3.2 | 3.2 |  |        |     |     |  |
| STANDBY  | 0      | 0   | 8.9 |  | 0      | 3.3  | 0   |  | 0      | 3.3 | 0   |  | 0      | 3.2 | 3.2 |  |        |     |     |  |
| REF NO.  | Q2019  |     |     |  | QR2004 |      |     |  |        |     |     |  |        |     |     |  |        |     |     |  |
| MODE     | E      | C   | B   |  | E      | C    | B   |  |        |     |     |  |        |     |     |  |        |     |     |  |
| USB      | 5.2    | 5.0 | 0   |  | 0      | 0    | 3.3 |  |        |     |     |  |        |     |     |  |        |     |     |  |
| STANDBY  | 5.2    | 0   | 0   |  | 0      | 0    | 0   |  |        |     |     |  |        |     |     |  |        |     |     |  |

SA-AKX34PH/PN MAIN P.C.B.

### 18.1.7. Panel P.C.B.

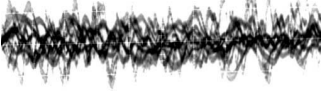



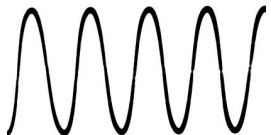


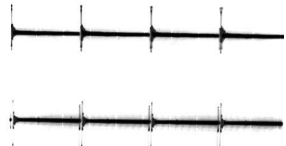
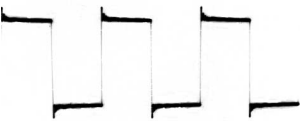
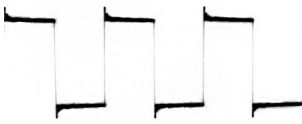
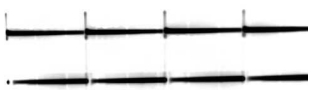

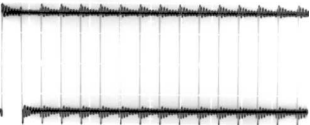
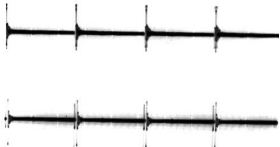
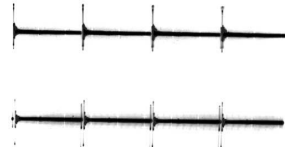
| REF NO.  | IC6000 |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MODE     | 1      | 2     | 3     | 4     | 5      | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |
| POWER ON | 0      | 0     | 0     | 0     | 2.0    | 0     | 0     | 0     | 2.3   | 0     | 0     | 0     | 3.4   | -16.2 | -16.2 | -19.9 | -21.9 | -20.0 | -21.9 | -19.9 |
| STANDBY  | 0      | 0     | 0     | 0     | 2.0    | 0     | 0     | 0     | 2.3   | 0     | 0     | 0     | 3.4   | -16.2 | -16.2 | -19.9 | -21.9 | -20.0 | -21.9 | -19.9 |
| REF NO.  | IC6000 |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MODE     | 21     | 22    | 23    | 24    | 25     | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    |
| POWER ON | -19.9  | -21.9 | -23.7 | -21.9 | -14.2  | -21.9 | -16.2 | -21.9 | -23.9 | -24.3 | -24.3 | -22.0 | -21.9 | 3.40  | -21.9 | -21.9 | -21.9 | 21.9  | -21.9 | -21.9 |
| STANDBY  | -19.9  | -21.9 | -23.7 | -21.9 | -14.2  | -21.9 | -16.2 | -21.9 | -23.9 | -24.3 | -24.3 | -22.0 | -21.9 | 3.40  | -21.9 | -21.9 | -21.9 | 21.9  | -21.9 | -21.9 |
| REF NO.  | IC6000 |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MODE     | 41     | 42    | 43    | 44    |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| POWER ON | -22.0  | -22.0 | 3.4   | 0     |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STANDBY  | -22.0  | -22.0 | 3.4   | 0     |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| REF NO.  | Q6003  |       |       |       | QR6001 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MODE     | E      | C     | B     |       | E      | C     | B     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| POWER ON | 0      | 17.8  | 0     |       | 0      | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STANDBY  | 0      | 17.8  | 0     |       | 0      | 0     | 0     |       |       |       |       |       |       |       |       |       |       |       |       |       |

SA-AKX34PH/PN PANEL P.C.B.

### 18.1.8. SMPS P.C.B.

| REF NO.                   | IC5701 |     |       |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
|---------------------------|--------|-----|-------|------|--------|------|------|---|--------|-------|-----|--|--------|------|---|--|--------|-----|-----|--|
| MODE                      | 1      | 2   | 3     | 4    | 5      | 6    | 7    |   |        |       |     |  |        |      |   |  |        |     |     |  |
| POWER ON                  | 164.8  | 0   | 0     | 19.1 | 0      | 1.4  | 0.5  |   |        |       |     |  |        |      |   |  |        |     |     |  |
| STANDBY                   | 164.8  | 0   | 0     | 19.1 | 0      | 1.4  | 0.5  |   |        |       |     |  |        |      |   |  |        |     |     |  |
| REF NO.                   | IC5799 |     |       |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| MODE                      | 1      | 2   | 3     | 4    | 5      | 6    | 7    | 8 |        |       |     |  |        |      |   |  |        |     |     |  |
| POWER ON                  | 5.9    | 1.0 | 2.3   | 11.0 | 164.2  | 0    | 0    | 0 |        |       |     |  |        |      |   |  |        |     |     |  |
| STANDBY                   | 5.9    | 1.0 | 2.3   | 11.0 | 164.2  | 0    | 0    | 0 |        |       |     |  |        |      |   |  |        |     |     |  |
| REF NO.                   | IC5801 |     |       |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| MODE                      | K      | A   | R     |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| POWER ON                  | 2.4    | 2.0 | -30.0 |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| STANDBY                   | 2.4    | 2.0 | -30.0 |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| REF NO.                   | IC5899 |     |       |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| MODE                      | K      | A   | R     |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| POWER ON                  | 1.2    | 0   | 0     |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| STANDBY                   | 1.2    | 0   | 0     |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |
| REF NO.                   | Q5720  |     |       |      | Q5721  |      |      |   | Q5722  |       |     |  | Q5860  |      |   |  | Q5861  |     |     |  |
| MODE                      | E      | C   | B     |      | E      | C    | B    |   | E      | C     | B   |  | E      | C    | B |  | E      | C   | B   |  |
| POWER ON                  | 7.3    | 8.5 | 7.6   |      | 19.7   | 19.7 | 19.0 |   | 0      | 19.6  | 0   |  | 0      | 35.2 | 0 |  | 1.3    | 0   | 0.7 |  |
| STANDBY                   | 7.4    | 8.6 | 7.7   |      | 19.7   | 19.7 | 19.0 |   | 0      | 19.6  | 0   |  | 0      | 35.2 | 0 |  | 1.3    | 0   | 0.7 |  |
| REF NO.                   | Q5862  |     |       |      | Q5898  |      |      |   | Q5899  |       |     |  | QR5801 |      |   |  | QR5802 |     |     |  |
| MODE                      | E      | C   | B     |      | E      | C    | B    |   | E      | C     | B   |  | E      | C    | B |  | E      | C   | B   |  |
| POWER ON                  | 0      | 0   | 0.7   |      | 0      | 3.3  | 0    |   | -30.0  | -30.0 | 0   |  | 0      | 3.1  | 0 |  | 0      | 3.3 | 6.6 |  |
| STANDBY                   | 0      | 3.3 | 0     |      | 0      | 3.3  | 0    |   | -30.0  | -30.0 | 0   |  | 0      | 3.1  | 0 |  | 0      | 3.3 | 6.6 |  |
| REF NO.                   | QR5810 |     |       |      | QR5811 |      |      |   | QR5812 |       |     |  |        |      |   |  |        |     |     |  |
| MODE                      | E      | C   | B     |      | E      | C    | B    |   | E      | C     | B   |  |        |      |   |  |        |     |     |  |
| POWER ON                  | 0      | 0   | 3.1   |      | 0      | 0.5  | 2.0  |   | 3.3    | 0     | 0.5 |  |        |      |   |  |        |     |     |  |
| STANDBY                   | 0      | 0   | 3.1   |      | 0      | 0.5  | 2.0  |   | 3.3    | 0     | 0.5 |  |        |      |   |  |        |     |     |  |
| SA-AKX34PH/PN SMPS P.C.B. |        |     |       |      |        |      |      |   |        |       |     |  |        |      |   |  |        |     |     |  |

### 18.1.9. Waveform Table

|   |  |  |  |
|---|--|--|--|
| <p>WF No. IC52-2,13,14 (PLAY)</p>  <p>0.1Vp-p(200usec/div)</p>   | <p>WF No. IC2000-2,3,42,50 (PLAY)</p>  <p>0.48Vp-p(1usec/div)</p> | <p>WF No. IC2000-5,6,7 (PLAY)</p>  <p>2Vp-p(200usec/div)</p>             | <p>WF No. IC2000-17,22 (PLAY)</p>  <p>0.48Vp-p(1usec/div)</p>   |
| <p>WF No. IC2000-44,47 (PLAY)</p>  <p>1.1Vp-p(50usec/div)</p>    | <p>WF No. IC2003-12,13 (PLAY)</p>  <p>4Vp-p(50nsec/div)</p>       | <p>WF No. IC2003-15,16 (PLAY)</p>  <p>3Vp-p(10usec/div)</p>              | <p>WF No. IC2005-1,2,6,7 (PLAY)</p>  <p>0.52Vp-p(1usec/div)</p> |
| <p>WF No. IC5800-10,14 (PLAY)</p>  <p>44Vp-p(1usec/div)</p>     | <p>WF No. IC5800-2,21 (PLAY)</p>  <p>2Vp-p(1usec/div)</p>        | <p>WF No. IC8001-55,56,57,58,59,60 (PLAY)</p>  <p>0.5Vp-p(2usec/div)</p> | <p>WF No. IC8001-94,95 (PLAY)</p>  <p>2.5Vp-p(200usec/div)</p>  |
| <p>WF No. IC8001-123,125 (PLAY)</p>  <p>0.4Vp-p(5usec/div)</p> | <p>WF No. IC8301-1,2 (PLAY)</p>  <p>2Vp-p(200usec/div)</p>      | <p>WF No. IC8301-9 (PLAY)</p>  <p>0.4Vp-p(1usec/div)</p>               |  |

## 18.2. Illustration of ICs, Transistor and Diode

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| C0ABBB000067 (8P)<br>   | C0FBAK000026(16P)<br>C3ABPG000163(54P)<br>     | C0HBB0000057 (44P)<br>                     | C0DBEYY00123 (8P)<br>C3FBMY000303 (8P)<br> | C1BA00000497 (23P)<br>                           | C1AB00003566 (20P)<br>C3FBXY000039 (169P)<br>  |
| C1AB00003256 (52P)<br>RFKWMAXX34M0 (100P)<br>MN6627992AB (144P)<br> | C0GBY0000117<br>                               | C3EBEY000037 (8P)<br>                      | C0AABB000125 (8P)<br>                      | MIP2F20MSSCF (8P)<br>                            | C0DBZYY00311<br>   |
| C5HACYY00004 (7P) (PN)<br>C5HACYY00005 (7P) (PH)<br>                | C0DAAYG00001<br>                               | B1BABG000007<br>                           | C0DAZYY00039<br>C0DAEYY00040<br>           | B1ABCF000176<br>B1ABGC000001<br>B1ABGC000005<br> | B1ADCE000012<br>B1ADCF000001<br>B1GBCFJJ0051<br>B1GBCFLL0037<br>B1GDCFGA0018<br>B1GBCFGN0016<br>B1GDCFJJ0047   |
| B1AAJC000019<br>  | B1BABK000001<br>                               | B0HFRJ000012<br>B0ZAZ0000089<br>           | B0ABSM000008<br>                           | B0ADDJ000032<br>B1ABCF000231<br>                 | B1GBCFJN0038<br>   |
| B3AAA0000487<br>B3AAA0001128<br>B3AAA0001129<br>                    | B0FBAR000049<br>                               | DZ2J033M0L<br>DZ2J24000L<br>DZ2J051M0L<br> |  |  | B0BC010A0007 (PH)<br>B0BC01700015 (PN)<br>B0BC019A0007<br>B0BC035A0007<br>B0BC2R4A0006<br>B0BC6R100010<br>B0BC9R000008<br>B0BC5R600003<br>B0BC5R6A0266<br> |
| B0ECET000002<br>  | B0ACCK000005<br>B0ACCK000012<br>DA2J10100L<br> | B0HCSP000001<br>B0JCPD000025<br>           |  |  |  |



## 18.3. Terminal Function of ICs

### 18.3.1. IC2003 (RFKWMAX34M0): IC MICRO-PROCESSOR

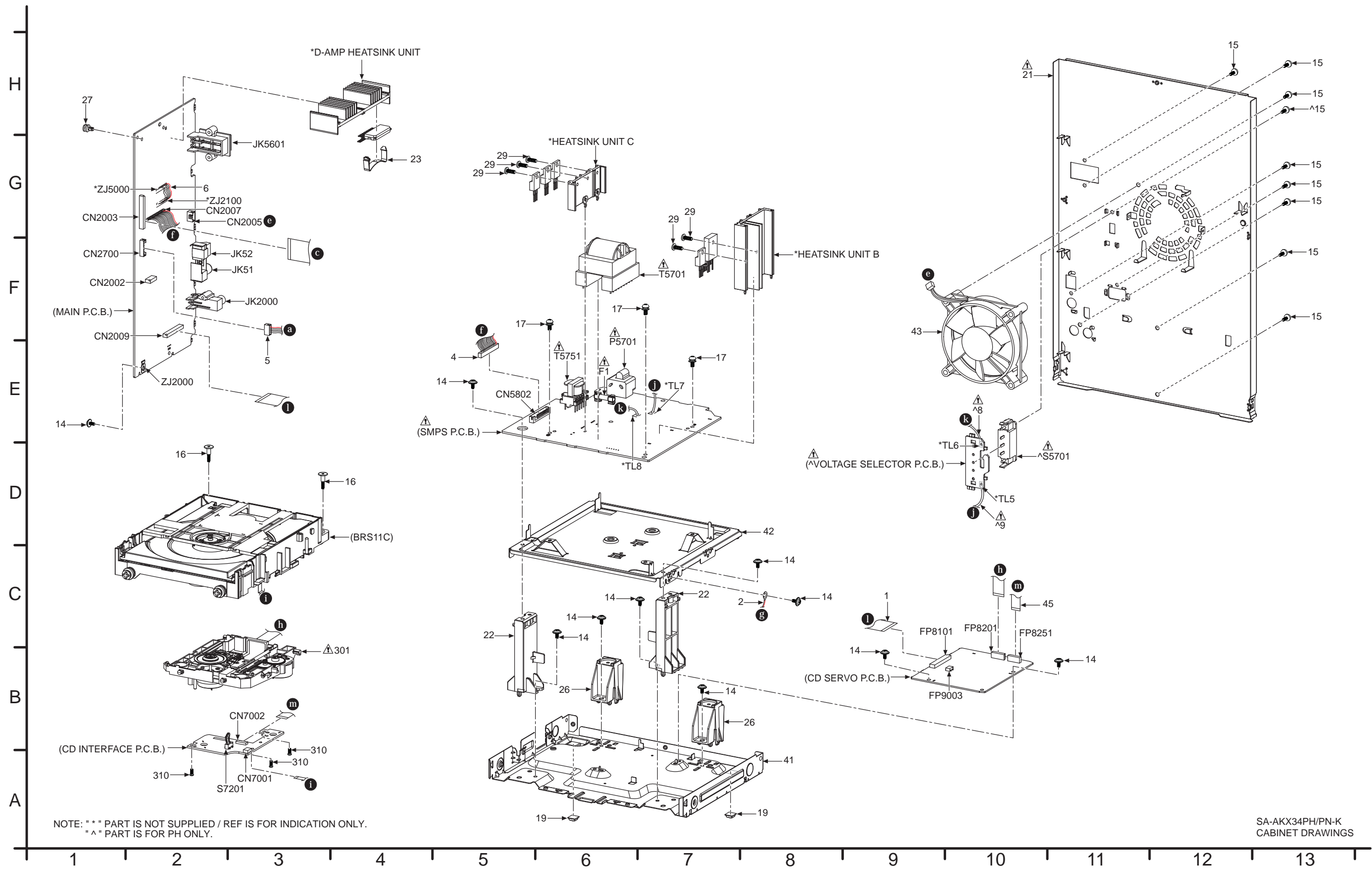
| Pin No. | Terminal Name | I/O | Function  |
|---------|---------------|-----|---|
| 1       | CLIP_ATTN     | O   | Clipping attenuation                            |
| 2       | ASP_DATA      | O   | ASP data  |
| 3       | ASP_CLK       | O   | ASP Clock                                       |
| 4       | OCD_SDA       | O   | OCD Serial data                                 |
| 5       | SW_MUTE       | O   | Subwoofer Muting                                |
| 6       | OCD_SCL       | O   | OC Serial Clock                                 |
| 7       | M.PORT_SW     | I   | Music Port Detect                               |
| 8       | HP_SW         | I   | Headphone Detect                                |
| 9       | VOL_JOGA      | I   | Volume Jog A Signal                             |
| 10      | VOL_JOGB      | I   | Volume Jog B Signal                             |
| 11      | MM0D0 (GND)   | -   | Ground  |
| 12      | XTOUT         | O   | Oscillator Output                               |
| 13      | XTIN          | I   | Oscillator Input                                |
| 14      | VSS           | -   | Ground  |
| 15      | XI            | I   | Oscillator Input                                |
| 16      | XO            | O   | Oscillator Output                               |
| 17      | VDD3.3        | -   | +3.3 Voltage Supply                             |
| 18      | VDD1.8        | -   | +1.8 Voltage Supply                             |
| 19      | NRST          | I   | Reset Input (Active L)                          |
| 20      | FAN_OUT1      | O   | Fan Speed Control 1                             |
| 21      | FAN_OUT2      | O   | Fan Speed Control 2                             |
| 22      | TU_SDA        | O   | Tuner Serial Data                               |
| 23      | TU_CLK        | O   | Tuner Clock                                     |
| 24      | TU_RST        | O   | Tuner Reset                                     |
| 25      | TU_INT        | I   | Tuner Interrupt                                 |
| 26      | PCONT         | O   | Power Control                                   |
| 27      | SYNC          | I   | AC Failure Detection Input                      |
| 28      | DCDET2        | I   | DC Detect (D-AMP IC Failure Detection)          |
| 29      | ECO_CNTRL     | O   | Eco Mode Control                                |
| 30      | NC            | -   | No Connection                                   |
| 31      | SMPS_BP       | O   | SMPS Breatproof                                 |
| 32      | ROTARY JOGB   | O   | Rotary jog for browse operation (Album & Track) |
| 33      | ROTARY JOGA   | O   | Rotary jog for browse operation (Album & Track) |
| 34      | EE_DATA       | O   | EEPROM IC Serial data                           |
| 35      | EE_CS         | O   | EEPROM IC Chip select                           |
| 36      | EE_CLK        | O   | EEPROM IC Serial clock                          |
| 37      | VDD18         | -   | +1.8V Voltage Supply                            |
| 38      | LED DIMMER    | O   | LCD Display Brightness Control                  |
| 39      | VSS           | -   | Ground  |
| 40      | NC            | -   | No Connection                                   |
| 41      | MUTE_F        | O   | Digital Amp Muting control                      |
| 42      | F_HOP1        | O   | Frequency Hopping                               |
| 43      | DCDECT1       | I   | DC Detect (Power Supply Failure Detection)      |
| 44      | MODE_DA       | O   | Digital Amp On/Off control                      |
| 45      | BASS_CTR      | O   | Bass Control                                    |
| 46      | MUSIC_CTR     | O   | Music Control                                   |
| 47      | NC            | -   | No Connection                                   |
| 48      | NC            | -   | No Connection                                   |
| 49      | NC            | -   | No Connection                                   |
| 50      | NC            | -   | No Connection                                   |
| 51      | SW_LVL_1      | O   | Subwoofer Level Setting 1                       |
| 52      | SW_LVL_2      | O   | Subwoofer Level Setting 2                       |
| 53      | NC            | -   | No Connection                                   |
| 54      | NC            | -   | No Connection                                   |

| Pin No. | Terminal Name      | I/O | Function   |
|---------|--------------------|-----|--|
| 55      | NC                 | -   | No Connection  |
| 56      | CLOSE_SW           | I   | CD Close Switch Detection                            |
| 57      | CD_OPEN_SW         | I   | CD Open Switch Detection                             |
| 58      | CD_RESET_SW        | I   | CD Reset Detection                                   |
| 59      | LOAD_CCW           | O   | Loading Motor Turning Counter-Clockwise (Tray Close) |
| 60      | LOAD_CW            | O   | Loading Motor Turning Counter-Clockwise (Tray Open)  |
| 61      | CD_RESET           | O   | CD Reset   |
| 62      | USB_IN             | I   | USB Input Detection                                  |
| 63      | VSS                | -   | Ground   |
| 64      | CD_BLKCK           | I   | CD Block Clock                                       |
| 65      | CD_MLD             | O   | CD Loading   |
| 66      | NC                 | -   | No Connection  |
| 67      | REGION 3           | I   | Region Setting 3                                     |
| 68      | NC                 | -   | No Connection  |
| 69      | CR TIMER           | I   | CR Timer   |
| 70      | OC                 | I   | USB Over Current                                     |
| 71      | EN                 | O   | USB Enable   |
| 72      | CD_MDATA (SYS_RXD) | O   | CD data  |
| 73      | CD_STAT (SYS_TXD)  | I   | CD Status  |
| 74      | CD_MCLK            | O   | CD Clock   |
| 75      | NC                 | -   | No Connection  |
| 76      | NC                 | -   | No Connection  |
| 77      | NC                 | -   | No Connection  |
| 78      | AMUTE              | I   | Amp Muting control                                   |
| 79      | USB REC LED        | O   | USB Rec LED Drive                                    |
| 80      | BASS_SHIFT         | O   | Bass Level Meter Adjustment                          |
| 81      | MUTE_A             | O   | Audio Output Muting                                  |
| 82      | FL_DATA            | O   | FL Display data input                                |
| 83      | FL_CS              | O   | FL Display Data Input                                |
| 84      | FL_CLK             | O   | FL Display Clock                                     |
| 85      | REGION 2           | I   | Region Setting 2                                     |
| 86      | RMT                | I   | Remote Control Signal                                |
| 87      | NC                 | -   | No Connection  |
| 88      | NC                 | -   | No Connection  |
| 89      | VDD                | -   | Voltage supply                                       |
| 90      | NC                 | -   | No Connection  |
| 91      | VSS                | -   | Ground   |
| 92      | REGION 1           | AN0 | Region Setting 1                                     |
| 93      | CLIP SENSOR        | AN1 | Clipping sensor (Volume & ASP Bass control)          |
| 94      | AUTO BASS          | AN2 | Auto Bass setting adjustment                         |
| 95      | SMPS_ID            | AN3 | SMPS Type Detection                                  |
| 96      | LVL MTR            | AN4 | Bass Lever Meter Control                             |
| 97      | TEMP_DET           | AN5 | Temperature Detect                                   |
| 98      | KEY 2              | AN6 | Key 2 Input  |
| 99      | KEY 1              | AN7 | Key 1 Input  |
| 100     | VREF+              | -   | Voltage Supply                                       |

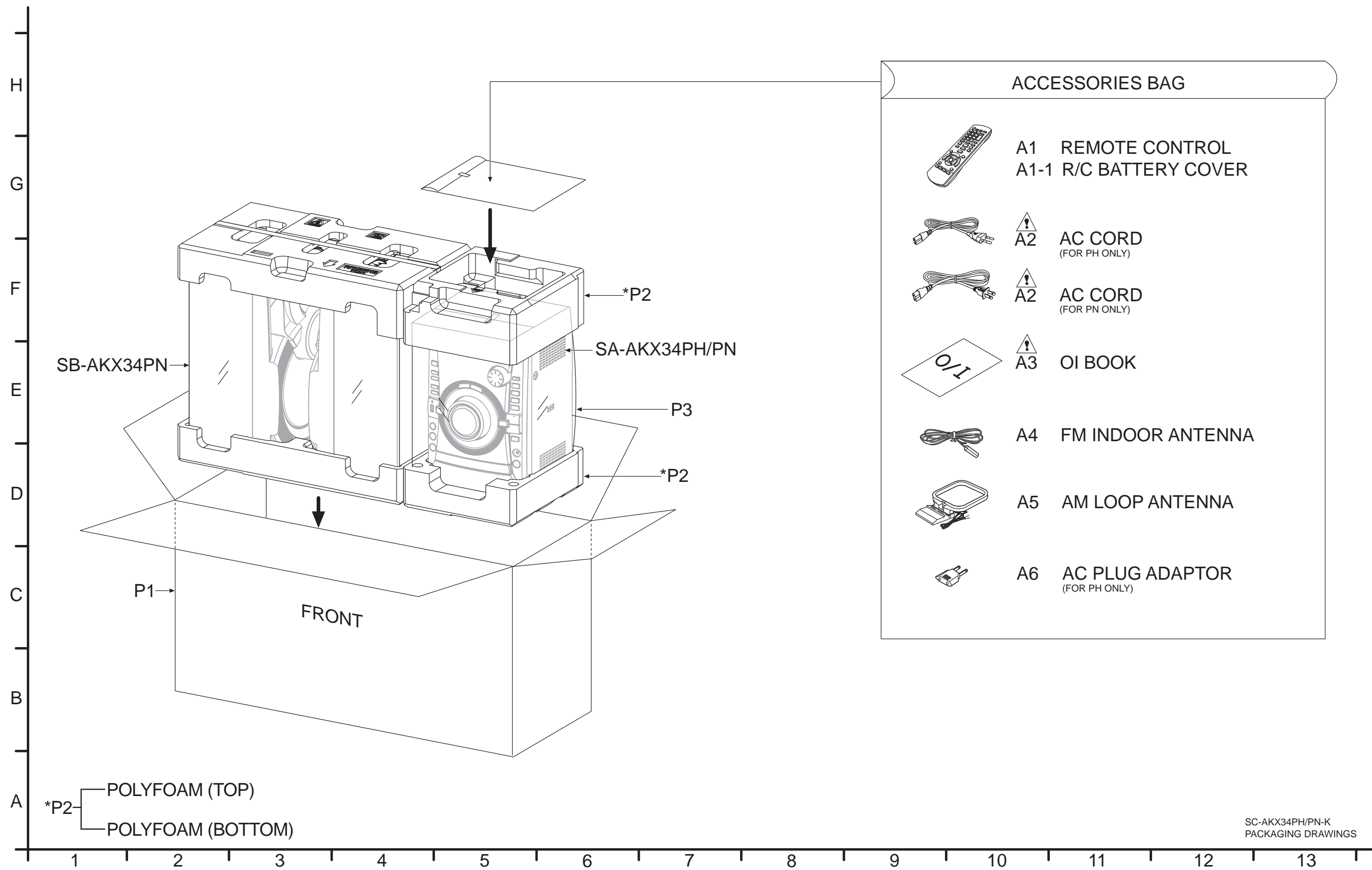


### 19.1.1. Cabinet Parts Location





19.1.2. Packaging





### 19.1.3. Mechanical Replacement Part List

#### Important Safety Notice

Components identified by  $\Delta$  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 PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.
- Reference for O/I book languages are as follows:

|     |                 |     |         |     |            |     |                     |
|-----|-----------------|-----|---------|-----|------------|-----|---------------------|
| Ar: | Arabic          | Du: | Dutch   | It: | Italian    | Sp: | Spanish             |
| Cf: | Canadian French | En: | English | Ko: | Korean     | S:  | 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 |     |                     |

| Safety   | Ref. No. | Part No.     | Part Name & Description                    | Qty | Remarks |
|----------|----------|--------------|--|-----|---------|
|          |          |              | CABINET AND CHASSIS                        |     |         |
|          | 1        | REE1708      | 30P FFC (MAIN-CD SERVO)                    | 1   |         |
|          | 2        | REXX1159-1   | 2P CABLE WIRE (MUSIC PORT - INNER CHASSIS) | 1   |         |
|          | 3        | REX1487      | 4P CABLE WIRE (PANEL-MUSIC PORT)           | 1   |         |
|          | 4        | REX1527      | 15P CABLE WIRE (MAIN-SMPS)                 | 1   |         |
|          | 5        | REX1472      | 5P CABLE WIRE (USB-MAIN)                   | 1   |         |
|          | 6        | REX1531      | 6P CABLE WIRE (MAIN-MAIN)                  | 1   |         |
|          | 7        | REE1647      | 27P FFC (MAIN-PANEL)                       | 1   |         |
| $\Delta$ | 8        | REX1536      | 1P RED WIRE (VOLTAGE SELECTOR-SMPS)        | 1   | PH      |
| $\Delta$ | 9        | REXX1122-J   | 1P BLACK WIRE (VOLTAGE SELECTOR-SMPS)      | 1   | PH      |
|          | 10       | RGW0428-S    | VOLUME KNOB                                | 1   |         |
|          | 11       | RGW0429-K    | SKIP KNOB                                  | 1   |         |
|          | 12       | RHD26046-L   | SCREW                                      | 8   |         |
|          | 13       | RHD30007-K2J | SCREW                                      | 4   |         |
|          | 14       | RHD30111-31  | SCREW                                      | 10  |         |
|          | 15       | RHD30119-S   | SCREW                                      | 14  | PH      |
|          | 15       | RHD30119-S   | SCREW                                      | 13  | PH      |
|          | 16       | RHDX031008   | SCREW                                      | 2   |         |


| Safety   | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|----------|----------|--------------|-------------------------|-----|---------|
|          | 17       | RHDX30005-J  | SCREW                   | 3   |         |
|          | 18       | RFKGAKX34PHK | FRONT PANEL ASS'Y       | 1   |         |
|          | 18-1     | RMGX0033A-K  | CD LID CUSHION          | 1   |         |
|          | 18-2     | RGK2307B-K1  | CD LID                  | 1   |         |
|          | 18-3     | RKAX0042-K   | LEG CUSHION             | 2   |         |
|          | 18-4     | RKW0984-K1   | LCD WINDOW              | 1   |         |
|          | 18-5     | RMB0930      | CD LID SPRING           | 1   |         |
|          | 19       | RKAX0042-K   | LEG CUSHION             | 2   |         |
| $\Delta$ | 20       | RKMX1011-K1  | TOP CABINET             | 1   |         |
| $\Delta$ | 21       | RGRX1008M-A  | REAR PANEL              | 1   | PN      |
| $\Delta$ | 21       | RGRX1008N-A  | REAR PANEL              | 1   | PH      |
|          | 22       | RMAX1007     | CHASSIS SUPPORT         | 2   |         |
|          | 23       | RMGX0035     | HEAT SINK CLIP A        | 1   |         |
|          | 24       | RMNX0151     | LED HOLDER              | 4   |         |
|          | 26       | RMQX1088     | MECHA HOLDER            | 2   |         |
|          | 27       | RMX0444      | PCB SPACER              | 1   |         |
|          | 29       | XTB3+10JFJ   | SCREW                   | 5   |         |
|          | 31       | RGK2308A-K1  | SIDE ORNAMENT L         | 1   |         |
|          | 32       | RGK2309A-K   | SIDE ORNAMENT R         | 1   |         |
|          | 33       | RGK2325A-S   | USB ORNAMENT            | 1   |         |
|          | 34       | RGK2328-S    | PLAY BUTTON ORNAMENT    | 1   |         |
|          | 35       | RGU2764-K    | POWER BUTTON            | 1   |         |
|          | 36       | RGU2791-K    | FUNCTION BUTTON         | 1   |         |
|          | 37       | RGU2763-S    | PUSH/PLAY BUTTON        | 1   |         |
|          | 38       | RGU2765-K    | CD OPEN CLOSE BUTTON    | 1   |         |
|          | 39       | RGU2792-K    | SKIP BUTTON             | 1   |         |
|          | 41       | RMKX1031A-1  | BOTTOM CHASSIS          | 1   |         |
|          | 42       | RMKX1037-3   | INNER CHASSIS           | 1   |         |
|          | 43       | L6FALEFH0030 | FAN UNIT ASS'Y          | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description          | Qty | Remarks |
|--------|----------|--------------|----------------------------------|-----|---------|
|        | 44       | REX1521      | 2P CABLE WIRE (PANEL-MEMORY LED) | 1   |         |
|        | 45       | REE1671      | 10P FFC (CD SERVO-CD INTER-FACE) | 1   |         |
|        | 46       | RMNV0079-1   | FL HOLDER                        | 1   |         |
|        | 47       | RGL0764-Q    | USB REC LIGHT PIECE              | 1   |         |
|        |          |              |                                  |     |         |
|        |          |              | TRAVERSE DECK                    |     |         |
|        |          |              |                                  |     |         |
| ⚠      | 301      | RAE1034Z-V   | TRAVERSE ASS'Y                   | 1   |         |
|        | 310      | XTN2+6GFJ    | SCREW                            | 3   |         |
|        |          |              |                                  |     |         |
|        |          |              | PACKING MATERIALS                |     |         |
|        |          |              |                                  |     |         |
|        | P1       | RPG9749      | PACKING CASE                     | 1   | PN      |
|        | P1       | RPG9750      | PACKING CASE                     | 1   | PH      |
|        | P2       | RPN2350      | POLYFOAM                         | 1   |         |
|        | P3       | RPF0198      | MIRAMAT SHEET                    | 1   |         |
|        |          |              |                                  |     |         |
|        |          |              | ACCESSORIES                      |     |         |
|        |          |              |                                  |     |         |
|        | A1       | N2QAYB000637 | REMOTE CONTROL                   | 1   |         |
|        | A1-1     | RKK-PM500EBK | R/C BATTERY COVER                | 1   |         |
| ⚠      | A2       | K2CB2YY00059 | AC CORD                          | 1   | PN      |
| ⚠      | A2       | K2CQ2CA00007 | AC CORD                          | 1   | PH      |
| ⚠      | A3       | RQT9617-M    | O/I BOOK (Sp)                    | 1   | PN      |
| ⚠      | A3       | RQT9619-M    | O/I BOOK (Sp)                    | 1   | PH      |
|        | A4       | RSAX0002     | FM INDOOR ANTENNA                | 1   |         |
|        | A5       | N1DY000010   | AM LOOP ANTENNA                  | 1   |         |
|        | A6       | K2DAY00002   | AC PLUG ADAPTOR                  | 1   | PH      |



## 19.2. Electrical 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".
- 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 PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

| Safety  | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks  |
|---|----------|--------------|-------------------------|-----|----------|
|   |          |              | PRINTED CIRCUIT BOARDS  |     |          |
|   | PCB1     | REP4749A     | CD SERVO P.C.B.         | 1   | (RTL)    |
|   | PCB2     | REP4768J     | MAIN P.C.B.             | 1   | (RTL) PH |
|   | PCB2     | REP4768H     | MAIN P.C.B.             | 1   | (RTL) PN |
|   | PCB3     | REP4793AA    | PANEL P.C.B.            | 1   | (RTL)    |
|   | PCB4     | REP4793AB    | REMOTE SENSOR P.C.B.    | 1   | (RTL)    |
|   | PCB5     | REP4793AC    | USE P.C.B.              | 1   | (RTL)    |
|   | PCB6     | REP4793AA    | MUSIC PORT P.C.B.       | 1   | (RTL)    |
|   | PCB7     | REP4793AH    | MEMORY LED P.C.B.       | 1   | (RTL)    |
|   | PCB8     | REP4755A     | CD INTERFACE P.C.B.     | 1   | (RTL)    |
|  | PCB9     | REP4783F     | SMPS P.C.B.             | 1   | (RTL) PH |
|  | PCB9     | REP4783DA    | SMPS P.C.B.             | 1   | (RTL) PN |
|  | PCB10    | REP4783F     | VOLTAGE SELECTOR P.C.B. | 1   | (RTL) PH |
|   |          |              | INTERGRATED CIRCUITS    |     |          |
|   | IC52     | C1AB00003566 | IC                      | 1   |          |
|   | IC2000   | C1AB00003256 | IC                      | 1   |          |
|   | IC2003   | RFKWMAX34M0  | IC                      | 1   |          |
|   | IC2005   | C0AABB000125 | IC                      | 1   |          |
|   | IC2006   | C3EBEY000037 | IC                      | 1   |          |
|   | IC2008   | C0DBZY00311  | IC                      | 1   |          |
|   | IC2010   | C0DAAYG00001 | IC                      | 1   |          |
|   | IC2011   | C0DAAYG00001 | IC                      | 1   |          |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | IC2012   | C0ABBB000067 | IC                      | 1   |         |
|        | IC2014   | C0DBEYY00123 | IC                      | 1   |         |
|        | IC5701   | C5HACY000004 | IC                      | 1   | PN      |
|        | IC5701   | C5HACY000005 | IC                      | 1   | PH      |
|        | IC5799   | MIP2F20MSSCF | IC                      | 1   |         |
|        | IC5800   | C1BA00000497 | IC                      | 1   |         |
|        | IC5801   | C0DAZYY00039 | IC                      | 1   |         |
|        | IC5899   | C0DAEYY00040 | IC                      | 1   |         |
|        | IC6000   | C0HBB0000057 | IC                      | 1   |         |
|        | IC8001   | MN6627992AB  | IC                      | 1   |         |
|        | IC8051   | C3ABPG000163 | IC                      | 1   |         |
|        | IC8251   | C0GBY0000117 | IC                      | 1   |         |
|        | IC8301   | C0FBAK000026 | IC                      | 1   |         |
|        | IC8401   | C3FBMY000303 | IC                      | 1   |         |
|        | IC8501   | C3FBXY000039 | IC                      | 1   |         |
|        |          |              | TRANSISTORS             |     |         |
|        | Q2001    | B1ABCF000231 | TRANSISTOR              | 1   |         |
|        | Q2011    | B1GBCFL0037  | TRANSISTOR              | 1   |         |
|        | Q2018    | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | Q2019    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q2022    | B1AAJC000019 | TRANSISTOR              | 1   |         |
|        | Q2023    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q2024    | B1ABCF000231 | TRANSISTOR              | 1   |         |
|        | Q2025    | B1ABCF000231 | TRANSISTOR              | 1   |         |
|        | Q2027    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q2031    | B1ABCF000231 | TRANSISTOR              | 1   |         |
|        | Q2033    | B1AAJC000019 | TRANSISTOR              | 1   |         |
|        | Q2035    | B1BAG0000007 | TRANSISTOR              | 1   |         |
|        | Q2037    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q2038    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q2039    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q2040    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q2041    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q2042    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q2050    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q5600    | B1ADCE000012 | TRANSISTOR              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | Q5601    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5602    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5603    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5604    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5605    | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q5720    | B1BAG0000007 | TRANSISTOR              | 1   |         |
|        | Q5721    | B1ADCF000001 | TRANSISTOR              | 1   |         |
|        | Q5722    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5860    | B1ADCF000001 | TRANSISTOR              | 1   |         |
|        | Q5861    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5862    | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | Q5898    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q5899    | B1ABGC000001 | TRANSISTOR              | 1   |         |
|        | Q6003    | B1BABK000001 | TRANSISTOR              | 1   |         |
|        | Q8201    | B1ADCF000001 | TRANSISTOR              | 1   |         |
|        | QR2000   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR2003   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR2004   | B1GBCFGN0016 | TRANSISTOR              | 1   |         |
|        | QR2005   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR2006   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR5600   | B1GDCFJJ0047 | TRANSISTOR              | 1   |         |
|        | QR5601   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR5801   | B1GBCFJN0038 | TRANSISTOR              | 1   |         |
|        | QR5802   | B1GDCFGA0018 | TRANSISTOR              | 1   |         |
|        | QR5810   | B1GBCFLL0037 | TRANSISTOR              | 1   |         |
|        | QR5811   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR5812   | B1GDCFJJ0047 | TRANSISTOR              | 1   |         |
|        | QR6001   | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | DIODES                  |     |         |
|        |          |              |                         |     |         |
|        | D2000    | B0JCPD000025 | DIODE                   | 1   |         |
|        | D2001    | DA2J10100L   | DIODE                   | 1   |         |
|        | D2002    | DZ2J033M0L   | DIODE                   | 1   |         |
|        | D2003    | DZ2J033M0L   | DIODE                   | 1   |         |
|        | D2008    | DA2J10100L   | DIODE                   | 1   |         |
|        | D2011    | DZ2J033M0L   | DIODE                   | 1   |         |
|        | D2014    | B0ADDJ000032 | DIODE                   | 1   |         |
|        | D2015    | B0ACCK000005 | DIODE                   | 1   |         |
|        | D2017    | B0BC5R6A0266 | DIODE                   | 1   |         |
|        | D2018    | B0EAKM000117 | DIODE                   | 1   |         |
|        | D2020    | B0EAKM000117 | DIODE                   | 1   |         |
|        | D2022    | B0EAKM000117 | DIODE                   | 1   |         |
|        | D2028    | DA2J10100L   | DIODE                   | 1   |         |
|        | D2032    | DA2J10100L   | DIODE                   | 1   |         |
|        | D2300    | DA2J10100L   | DIODE                   | 1   |         |
|        | D5602    | DZ2J051M0L   | DIODE                   | 1   |         |
|        | D5701    | B0FBAR000049 | DIODE                   | 1   |         |
|        | D5702    | B0ZAZ0000089 | DIODE                   | 1   |         |
|        | D5721    | B0BC010A0007 | DIODE                   | 1   | PH      |
|        | D5721    | B0BC01700015 | DIODE                   | 1   | PN      |
|        | D5722    | B0BC019A0007 | DIODE                   | 1   |         |
|        | D5723    | B0ACCK000012 | DIODE                   | 1   |         |
|        | D5724    | B0ACCK000012 | DIODE                   | 1   |         |
|        | D5725    | B0BC6R100010 | DIODE                   | 1   |         |
|        | D5726    | B0EAKM000117 | DIODE                   | 1   |         |
|        | D5727    | B0ACCK000012 | DIODE                   | 1   |         |
|        | D5728    | B0ACCK000012 | DIODE                   | 1   |         |
|        | D5729    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D5730    | B0ECET000002 | DIODE                   | 1   |         |
|        | D5731    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D5732    | B0BC035A0007 | DIODE                   | 1   |         |
|        | D5793    | B0HAMP000094 | DIODE                   | 1   | PH      |
|        | D5795    | B0BC9R000008 | DIODE                   | 1   |         |
|        | D5798    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D5800    | B0HCSP000001 | DIODE                   | 1   |         |
|        | D5801    | B0ABSM000008 | DIODE                   | 1   |         |
|        | D5801    | B0HCSP000001 | DIODE                   | 1   |         |
|        | D5802    | B0ABSM000008 | DIODE                   | 1   |         |
|        | D5802    | B0HCSP000001 | DIODE                   | 1   |         |
|        | D5803    | B0HCSP000001 | DIODE                   | 1   |         |
|        | D5803    | B0HFRJ000012 | DIODE                   | 1   |         |
|        | D5804    | B0ACCK000012 | DIODE                   | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | D5896    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D6001    | B3AAA0001128 | DIODE                   | 1   |         |
|        | D6002    | B3AAA0001128 | DIODE                   | 1   |         |
|        | D6003    | B3AAA0001128 | DIODE                   | 1   |         |
|        | D6004    | B3AAA0001128 | DIODE                   | 1   |         |
|        | D6005    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D6006    | B0JAME000114 | DIODE                   | 1   |         |
|        | D6008    | DZ2J24000L   | DIODE                   | 1   |         |
|        | D6009    | B0BC2R4A0006 | DIODE                   | 1   |         |
|        | D6010    | B0BC035A0007 | DIODE                   | 1   |         |
|        | D6013    | B0EAMM000057 | DIODE                   | 1   |         |
|        | D6300    | B3AAA0000487 | DIODE                   | 1   |         |
|        | D6800    | B3AAA0001129 | DIODE                   | 1   |         |
|        | D8250    | B0BC5R600003 | DIODE                   | 1   |         |
|        | DZ2000   | B0JCPD000025 | DIODE                   | 1   |         |
| ⚠      | DZ5701   | ERZV05Z471CS | ZNR                     | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | VARISTOR                |     |         |
|        |          |              |                         |     |         |
|        | VA51     | EZAEG2A50AX  | VARISTOR                | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | SWITCHES                |     |         |
|        |          |              |                         |     |         |
| ⚠      | S5701    | K0ABCA000007 | SW AC VOLTAGE SELECTOR  | 1   | PH      |
|        | S6000    | EVQ21405RJ   | SW RADIO/EXT-IN         | 1   |         |
|        | S6001    | EVQ21405RJ   | SW STOP                 | 1   |         |
|        | S6002    | EVQ21405RJ   | SW POWER                | 1   |         |
|        | S6003    | EVQ21405RJ   | SW MEMORY               | 1   |         |
|        | S6004    | EVQ21405RJ   | SW PLAY/PAUSE           | 1   |         |
|        | S6005    | EVQ21405RJ   | SW CD                   | 1   |         |
|        | S6006    | EVQ21405RJ   | SW USB                  | 1   |         |
|        | S6007    | EVQ21405RJ   | SW D.BASS               | 1   |         |
|        | S6008    | EVQ21405RJ   | SW LATIN/PRESET EQ      | 1   |         |
|        | S6009    | EVQ21405RJ   | SW FORWARD              | 1   |         |
|        | S6010    | EVQ21405RJ   | SW REWIND               | 1   |         |
|        | S6012    | EVQ21405RJ   | SW MEMORY REC/PAUSE     | 1   |         |
|        | S6013    | EVQ21405RJ   | SW USB REC / PAUSE      | 1   |         |
|        | S6014    | EVQ21405RJ   | SW ALBUM/TRACK          | 1   |         |
|        | S6015    | EVQ21405RJ   | SW OPEN/CLOSE           | 1   |         |
|        | S6016    | EVQ21405RJ   | SW MANUAL EQ            | 1   |         |
|        | S7201    | K0L1BA000158 | SW RESET                | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | CONNECTORS              |     |         |
|        |          |              |                         |     |         |
|        | CN2002   | K1MY06AA0124 | 6P CONNECTOR            | 1   |         |
|        | CN2003   | K1MY27AA0124 | 27P CONNECTOR           | 1   |         |
|        | CN2005   | K1KA02AA0186 | 2P CONNECTOR            | 1   |         |
|        | CN2007   | K1YZ15000001 | 15P CONNECTOR           | 1   |         |
|        | CN2009   | K1MY30AA0124 | 30P CONNECTOR           | 1   |         |
|        | CN2700   | K1KA05AA0193 | 5P CONNECTOR            | 1   |         |
|        | CN5802   | K1KA15AA0194 | 15P CONNECTOR           | 1   |         |
|        | CN6000   | K1MY27AA0124 | 27P CONNECTOR           | 1   |         |
|        | CN6001   | K1KA04A00553 | 4P CONNECTOR            | 1   |         |
|        | CN6006   | K1KA02BA0125 | 2P CONNECTOR            | 1   |         |
|        | CN6200   | K1KB04B00043 | 4P CONNECTOR            | 1   |         |
|        | CN6301   | K1FY104A0007 | USB CONNECTOR           | 1   |         |
|        | CN7001   | K1MY05BA0539 | 5P CONNECTOR            | 1   |         |
|        | CN7002   | K1MY10BA0539 | 10P CONNECTOR           | 1   |         |
|        | FP8101   | K1MY30BA0046 | 30P CONNECTOR           | 1   |         |
|        | FP8201   | K1MN24A00062 | 24P CONNECTOR           | 1   |         |
|        | FP8251   | K1MN10AA0076 | 10P CONNECTOR           | 1   |         |
|        | FP9003   | K1KA05AA0051 | 5P CONNECTOR            | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | COILS AND INDUCTORS     |     |         |
|        |          |              |                         |     |         |
|        | L51      | G1CR18JA0020 | INDUCTOR                | 1   |         |
|        | L52      | G2A380Y00002 | ANTENNA COIL            | 1   |         |
|        | L2000    | G0A330ZA0045 | CHOKE COIL              | 1   |         |
|        | L2001    | G0A330ZA0045 | CHOKE COIL              | 1   |         |

| Safety | Ref. No. | Part No.      | Part Name & Description | Qty | Remarks |
|--------|----------|---------------|-------------------------|-----|---------|
|        | L2004    | G1C100KA0101  | INDUCTOR                | 1   |         |
|        | L5600    | J0JKB0000020  | INDUCTOR                | 1   |         |
|        | L5601    | J0JKB0000020  | INDUCTOR                | 1   |         |
|        | L5704    | J0JBC0000019  | INDUCTOR                | 1   |         |
| △      | L5706    | G0B612H00002  | LINE FILTER             | 1   | PH      |
| △      | L5707    | G0B612H00002  | LINE FILTER             | 1   | PN      |
|        | L5800    | G0A150L00003  | CHOKE COIL              | 1   |         |
|        | L6000    | J0JBC0000019  | INDUCTOR                | 1   |         |
|        | L6400    | J0JBC0000019  | INDUCTOR                | 1   |         |
|        | L6401    | J0JBC0000019  | INDUCTOR                | 1   |         |
|        | L6405    | J0JBC0000019  | INDUCTOR                | 1   |         |
|        | L8302    | G1C100KA0101  | INDUCTOR                | 1   |         |
|        | LB51     | J0JBC0000032  | INDUCTOR                | 1   |         |
|        | LB2006   | J0JBC0000019  | INDUCTOR                | 1   |         |
|        | LB8002   | J0JCC00000407 | INDUCTOR                | 1   |         |
|        | LB8003   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8004   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8005   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8006   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8007   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8008   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8009   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8010   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8011   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8013   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8014   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8015   | J0JDC0000104  | INDUCTOR                | 1   |         |
|        | LB8052   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8201   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8202   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8251   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8252   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8301   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8401   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8402   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        | LB8501   | J0JHC0000045  | INDUCTOR                | 1   |         |
|        |          |               |                         |     |         |
|        |          |               | TRANSFORMERS            |     |         |
|        |          |               |                         |     |         |
| △      | T5701    | G4DYZ0000051  | MAIN TRANSFORMER        | 1   | PH      |
| △      | T5701    | G4DYZ0000060  | MAIN TRANSFORMER        | 1   | PN      |
| △      | T5751    | ETS19AB2E6AG  | SUB TRANSFORMER         | 1   |         |
| △      | T6000    | G4DYA0000214  | SWITCHING TRANSFORMER   | 1   |         |
|        |          |               |                         |     |         |
|        |          |               | PHOTO COUPLERS          |     |         |
|        |          |               |                         |     |         |
| △      | PC5701   | B3PBA0000503  | PHOTO COUPLER           | 1   |         |
| △      | PC5702   | B3PBA0000503  | PHOTO COUPLER           | 1   |         |
| △      | PC5720   | B3PBA0000503  | PHOTO COUPLER           | 1   |         |
| △      | PC5799   | B3PBA0000503  | PHOTO COUPLER           | 1   |         |
|        |          |               |                         |     |         |
|        |          |               | EARTH PLATE             |     |         |
|        |          |               |                         |     |         |
|        | ZJ2000   | K9ZZ00001279  | EARTH PLATE             | 1   |         |
|        |          |               |                         |     |         |
|        |          |               | OSCILLATORS             |     |         |
|        |          |               |                         |     |         |
|        | X51      | H0A327200181  | CRYSTAL OSCILLATOR      | 1   |         |
|        | X2000    | H0A327200181  | CRYSTAL OSCILLATOR      | 1   |         |
|        | X2001    | H2B800400007  | CRYSTAL OSCILLATOR      | 1   |         |
|        | X8101    | H0J338300002  | CRYSTAL OSCILLATOR      | 1   |         |
|        |          |               |                         |     |         |
|        |          |               | VARIABLE RESISTORS      |     |         |
|        |          |               |                         |     |         |
|        | VR6000   | EVEKE2F3524B  | VOLUME JOG              | 1   |         |
|        | VR6001   | K9AA012Y0004  | VARIABLE RESISTORS      | 1   |         |
|        |          |               |                         |     |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        |          |              | REMOTE SENSOR           |     |         |
|        |          |              |                         |     |         |
|        | IR6200   | B3RAB0000084 | REMOTE SENSOR           | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | LCD DISPLAY             |     |         |
|        |          |              |                         |     |         |
|        | FL6000   | A2BB00000184 | LCD DISPLAY             | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | FUSE                    |     |         |
|        |          |              |                         |     |         |
| △      | F1       | K5D632BK0007 | FUSE                    | 1   | PH      |
| △      | F1       | K5D802APA008 | FUSE                    | 1   | PN      |
|        |          |              |                         |     |         |
|        |          |              | FUSE HOLDERS            |     |         |
|        |          |              |                         |     |         |
|        | ZA5701   | K3GE1ZZ00001 | FUSE HOLDER             | 1   |         |
|        | ZA5702   | K3GE1ZZ00001 | FUSE HOLDER             | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | THERMISTORS             |     |         |
|        |          |              |                         |     |         |
| △      | TH5000   | D4CC11040013 | THERMISTOR              | 1   |         |
| △      | TH5702   | D4CAA2R20001 | THERMISTOR              | 1   |         |
| △      | TH5860   | D4CC11040013 | THERMISTOR              | 1   |         |
| △      | TH5861   | D4CC11040013 | THERMISTOR              | 1   | PN      |
|        |          |              |                         |     |         |
|        |          |              | JACKS                   |     |         |
|        |          |              |                         |     |         |
|        |          |              |                         |     |         |
|        | JK51     | K4ZZ02000103 | JK FM ANT               | 1   |         |
|        | JK52     | K4AC02B00042 | JK AM ANT               | 1   |         |
|        | JK2000   | K2HA204B0153 | JK AUX IN               | 1   |         |
|        | JK5601   | K4AL04B00001 | JK SPEAKER              | 1   |         |
|        | JK6401   | K2HC103A0031 | JK HEADPHONE            | 1   |         |
| △      | P5701    | K2AA2B000011 | AC INLET                | 1   | PH      |
| △      | P5701    | K2AB2B000007 | AC INLET                | 1   | PN      |
|        |          |              |                         |     |         |
|        |          |              | CHIP JUMPERS            |     |         |
|        |          |              |                         |     |         |
|        |          |              |                         |     |         |
|        | K4       | D0GBR00JA008 | 0 1/10W                 | 1   | PN      |
|        | K6       | D0GBR00JA008 | 0 1/10W                 | 1   | PH      |
|        | K8001    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | K8006    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | K8201    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | K8202    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | K8205    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | L54      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2000   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2001   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2002   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2003   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2004   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2005   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | LB2007   | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | C2202    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W1       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W2       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W3       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W4       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W5       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W6       | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W7       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W8       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W9       | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W10      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W11      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W14      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W15      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W16      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W17      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W18      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W19      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W22      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W23      | D0GBR00JA008 | 0 1/10W                 | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | W24      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W25      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W26      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W27      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W28      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W29      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W30      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W31      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W32      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W33      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W34      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W35      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W36      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W37      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W38      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W39      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W40      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W41      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W42      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W43      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W44      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W45      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W46      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W47      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W48      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W49      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W50      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W51      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W52      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W53      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W54      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W55      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W56      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W57      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W58      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W59      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W60      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W61      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W62      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W63      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W64      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W65      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W66      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W67      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W68      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W69      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W70      | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | W71      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W72      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W73      | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W401     | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W403     | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W5601    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | W5602    | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W5603    | D0GDR00JA017 | 0 1/8W                  | 1   |         |
|        | W5604    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | RESISTORS               |     |         |
|        |          |              |                         |     |         |
|        | R51      | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R52      | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R53      | D0GA472JA023 | 4.7K 1/16W              | 1   |         |
|        | R54      | D0GA472JA023 | 4.7K 1/16W              | 1   |         |
|        | R55      | D0GA221JA023 | 220 1/16W               | 1   |         |
|        | R56      | D0GB221JA007 | 220 1/10W               | 1   |         |
|        | R57      | D0GA102JA023 | 1K 1/16W                | 1   |         |
|        | R59      | D0GB222JA008 | 2.2K 1/10W              | 1   |         |
|        | R61      | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R62      | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R64      | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2000    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2001    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R2002    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R2003    | D0GB392JA008 | 3.9K 1/10W              | 1   |         |
|        | R2004    | D0GB392JA008 | 3.9K 1/10W              | 1   |         |
|        | R2005    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2006    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2007    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2008    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2010    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2011    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2012    | D0GB182JA008 | 1.8K 1/10W              | 1   |         |
|        | R2013    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2014    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2017    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2018    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2019    | D0GB683JA008 | 68K 1/10W               | 1   |         |
|        | R2020    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2021    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2026    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2027    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2028    | D0GB2R2JA007 | 2.2 1/10W               | 1   |         |
|        | R2035    | D0GB271JA008 | 270 1/10W               | 1   |         |
|        | R2051    | D0GB122JA008 | 1.2K 1/10W              | 1   |         |
|        | R2052    | D0GB122JA008 | 1.2K 1/10W              | 1   |         |
|        | R2054    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2056    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2057    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2058    | D0GB273JA008 | 27K 1/10W               | 1   |         |
|        | R2059    | D0GB273JA008 | 27K 1/10W               | 1   |         |
|        | R2060    | D0GB223JA008 | 22K 1/10W               | 1   |         |
|        | R2061    | D0GB223JA008 | 22K 1/10W               | 1   |         |
|        | R2062    | D0GB154JA008 | 150K 1/10W              | 1   |         |
|        | R2063    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R2064    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R2065    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2066    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2067    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2068    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2069    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2070    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2073    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2074    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2075    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2076    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2077    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2078    | D0GB563JA008 | 56K 1/10W               | 1   |         |
|        | R2079    | D0AF330JA039 | 33 1/2W                 | 1   |         |
|        | R2082    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2083    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2084    | D0GB103JA008 | 10K 1/10W               | 1   | PH      |
|        | R2085    | D0GB104JA008 | 100K 1/10W              | 1   | PN      |
|        | R2085    | D0GB122JA008 | 1.2K 1/10W              | 1   | PH      |
|        | R2087    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2093    | D0GB392JA008 | 3.9K 1/10W              | 1   |         |
|        | R2094    | D0GB392JA008 | 3.9K 1/10W              | 1   |         |
|        | R2095    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2096    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2098    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R2099    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2102    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R2103    | D0GB182JA008 | 1.8K 1/10W              | 1   |         |
|        | R2105    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2107    | D0AF220JA039 | 22 1/2W                 | 1   |         |
|        | R2108    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2112    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2113    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2114    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2115    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2117    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2118    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2120    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2121    | D0GB475JA008 | 4.7M 1/10W              | 1   |         |
|        | R2123    | D0GB564JA008 | 560K 1/10W              | 1   |         |
|        | R2126    | D0GB473JA008 | 47K 1/10W               | 1   | PH      |
|        | R2126    | ERJ3GEYJ473V | 47K 1/10W               | 1   | PN      |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R2127    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2128    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2130    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2134    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2136    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2137    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R2138    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R2140    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2146    | D0GB563JA008 | 56K 1/10W               | 1   |         |
|        | R2150    | D0GB563JA008 | 56K 1/10W               | 1   |         |
|        | R2152    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R2153    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2154    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R2156    | D0GB105JA008 | 1M 1/10W                | 1   |         |
|        | R2157    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2162    | D0GB330JA008 | 33 1/10W                | 1   |         |
|        | R2163    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2165    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2173    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R2174    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2176    | D0HB152ZA002 | 1.5K 1/16W              | 1   |         |
|        | R2177    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R2178    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2182    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2185    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2189    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2192    | D0HB102ZA002 | 1K 1/16W                | 1   |         |
|        | R2193    | D0GB330JA008 | 33 1/10W                | 1   |         |
|        | R2196    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2198    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2205    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R2206    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R2218    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2224    | D0GB471JA008 | 470 1/10W               | 1   |         |
|        | R2225    | D0GB471JA008 | 470 1/10W               | 1   |         |
|        | R2226    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2227    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2229    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2246    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R2247    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2248    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R2250    | D0GB183JA008 | 18K 1/10W               | 1   |         |
|        | R2251    | D0GB123JA008 | 12K 1/10W               | 1   |         |
|        | R2268    | D0GB272JA008 | 2.7K 1/10W              | 1   |         |
|        | R2272    | D0GB272JA008 | 2.7K 1/10W              | 1   |         |
|        | R2273    | D0GB2R2JA007 | 2.2 1/10W               | 1   |         |
|        | R2274    | D0GB2R2JA007 | 2.2 1/10W               | 1   |         |
|        | R2275    | D0GB2R2JA007 | 2.2 1/10W               | 1   |         |
|        | R2276    | D0GB271JA008 | 270 1/10W               | 1   |         |
|        | R2278    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R2279    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2281    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R2294    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R2295    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R2296    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2305    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2308    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2310    | ERJ3RBD1002V | 10K 1/16W               | 1   | PN      |
|        | R2310    | ERJ3RBD223V  | 22K 1/16W               | 1   | PH      |
|        | R2311    | D0HB152ZA002 | 1.5K 1/16W              | 1   |         |
|        | R2329    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2332    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2333    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2334    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2335    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2336    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2337    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2338    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2339    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2340    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2341    | ERG2SJ471E   | 470 2W                  | 1   |         |
|        | R2343    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2344    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R2345    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2346    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2347    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R2348    | D0GB333JA008 | 33K 1/10W               | 1   |         |
|        | R2349    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2350    | D0GB474JA008 | 470K 1/10W              | 1   |         |
|        | R2351    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2352    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2353    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2355    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R2356    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2357    | D0GB475JA008 | 4.7M 1/10W              | 1   |         |
|        | R2358    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2359    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2360    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2361    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R2362    | D0GB474JA008 | 470K 1/10W              | 1   |         |
|        | R2363    | D0GB333JA008 | 33K 1/10W               | 1   |         |
|        | R2364    | D0GB222JA008 | 2.2K 1/10W              | 1   |         |
|        | R2365    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2366    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2372    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2373    | D0GB183JA008 | 18K 1/10W               | 1   |         |
|        | R2374    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2375    | D0GB183JA008 | 18K 1/10W               | 1   |         |
|        | R2376    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2377    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R2379    | D0GB681JA008 | 680 1/10W               | 1   |         |
|        | R2380    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2381    | D0GB123JA008 | 12K 1/10W               | 1   |         |
|        | R2386    | ERJ3GEYJ333V | 33K 1/10W               | 1   |         |
|        | R2390    | D0GB823JA008 | 82K 1/10W               | 1   |         |
|        | R2392    | D0AF270JA039 | 27 1/2W                 | 1   |         |
|        | R2393    | D0GB274JA008 | 270K 1/10W              | 1   |         |
|        | R2394    | D0GB221JA008 | 220 1/10W               | 1   |         |
|        | R2395    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R2396    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R2397    | D0GB474JA008 | 470K 1/10W              | 1   |         |
|        | R2398    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2399    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2400    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2406    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2408    | D0HB102ZA002 | 1K 1/16W                | 1   |         |
|        | R2409    | ERJ3RBD272V  | 2.7K 1/16W              | 1   |         |
|        | R2414    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2415    | D0GBR00JA008 | 0 1/10W                 | 1   | PN      |
|        | R2416    | D0GBR00JA008 | 0 1/10W                 | 1   | PH      |
|        | R2419    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2420    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2421    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R2422    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2424    | ERJ3RBD682V  | 6.8K 1/16W              | 1   |         |
|        | R2425    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R2429    | D0GB105JA008 | 1M 1/10W                | 1   |         |
|        | R2431    | D0GFR00JA017 | 0 1/4W                  | 1   |         |
|        | R2432    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R2442    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R2443    | D0GB331JA008 | 330 1/10W               | 1   |         |
|        | R5608    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R5609    | ERG2SJ102E   | 1K 2W                   | 1   |         |
|        | R5611    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R5612    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R5613    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R5614    | D0GB272JA008 | 2.7K 1/10W              | 1   |         |
|        | R5615    | D0GB272JA008 | 2.7K 1/10W              | 1   |         |
|        | R5616    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R5617    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R5618    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R5619    | D0GB154JA008 | 150K 1/10W              | 1   |         |
|        | R5621    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R5622    | D0GB154JA008 | 150K 1/10W              | 1   |         |
|        | R5623    | D0GB124JA008 | 120K 1/10W              | 1   |         |
|        | R5624    | D0GB103JA008 | 10K 1/10W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R5625    | D0GB184JA008 | 180K 1/10W              | 1   |         |
|        | R5626    | ERJ3RBD273V  | 27K 1/16W               | 1   |         |
|        | R5627    | ERJ3RBD333V  | 33K 1/16W               | 1   |         |
|        | R5628    | D0HB152ZA002 | 1.5K 1/16W              | 1   |         |
|        | R5630    | D0YRR0000001 | 0 1W                    | 1   |         |
|        | R5631    | D0YRR0000001 | 0 1W                    | 1   |         |
|        | R5632    | D0YRR0000001 | 0 1W                    | 1   |         |
|        | R5701    | ERJ3RBD1002V | 10K 1/16W               | 1   | PN      |
|        | R5701    | ERJ3RBD223V  | 22K 1/16W               | 1   | PH      |
|        | R5702    | D0GZ104JA012 | 100K 1W                 | 1   | PH      |
|        | R5702    | D0GZ333JA012 | 33K 1W                  | 1   | PN      |
|        | R5703    | D0GZ104JA012 | 100K 1W                 | 1   | PH      |
|        | R5703    | D0GZ333JA012 | 33K 1W                  | 1   | PN      |
|        | R5704    | ERJ8GEYJ224V | 220K 1/4W               | 1   |         |
|        | R5705    | ERJ8GEYJ224V | 220K 1/4W               | 1   |         |
|        | R5706    | D0GD824JA017 | 820K 1/8W               | 1   |         |
| ⚠      | R5708    | ERJ8GEYJ155V | 1.5M 1/4W               | 1   |         |
| ⚠      | R5709    | ERJ8GEYJ155V | 1.5M 1/4W               | 1   |         |
|        | R5720    | D0GD220JA017 | 22 1/8W                 | 1   |         |
|        | R5721    | D0GD103JA017 | 10K 1/8W                | 1   |         |
|        | R5722    | D0GD122JA017 | 1.2K 1/8W               | 1   |         |
|        | R5723    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R5724    | D0GD121JA017 | 120 1/8W                | 1   |         |
|        | R5726    | ERX2SZJR10P  | 0.1 2W                  | 1   |         |
|        | R5727    | ERX2SZJR10P  | 0.1 2W                  | 1   | PN      |
|        | R5728    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R5729    | D0GD103JA017 | 10K 1/8W                | 1   |         |
|        | R5730    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R5732    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R5733    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R5786    | D0GZ204JA012 | 200K 1W                 | 1   | PH      |
|        | R5795    | D0GD474JA017 | 470K 1/8W               | 1   |         |
|        | R5797    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R5798    | D0GB220JA008 | 22 1/10W                | 1   |         |
|        | R5800    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5800    | D0GD153JA017 | 15K 1/8W                | 1   |         |
|        | R5801    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5801    | D0GD223JA017 | 22K 1/8W                | 1   |         |
|        | R5802    | D0GF100JA014 | 10 1/4W                 | 1   |         |
|        | R5802    | ERJ3RBD103V  | 10K 1/16W               | 1   |         |
|        | R5803    | D0GF100JA014 | 10 1/4W                 | 1   |         |
|        | R5803    | ERJ3RBD103V  | 10K 1/16W               | 1   |         |
|        | R5804    | D0GF100JA014 | 10 1/4W                 | 1   |         |
|        | R5804    | ERJ6RBD823V  | 82K 1/10W               | 1   |         |
|        | R5805    | D0GF100JA014 | 10 1/4W                 | 1   |         |
|        | R5805    | ERJ3RBD332V  | 3.3K 1/16W              | 1   |         |
|        | R5806    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R5806    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5807    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5807    | D0GD331JA017 | 330 1/8W                | 1   |         |
|        | R5808    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R5808    | D0GD222JA017 | 2.2K 1/8W               | 1   |         |
|        | R5809    | D0GD331JA017 | 330 1/8W                | 1   |         |
|        | R5809    | D0GZ220JA012 | 22 1W                   | 1   |         |
|        | R5810    | D0GB331JA008 | 330 1/10W               | 1   |         |
|        | R5810    | D0GZ220JA012 | 22 1W                   | 1   |         |
|        | R5811    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5812    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R5814    | D0GB822JA008 | 8.2K 1/10W              | 1   |         |
|        | R5817    | D0GB331JA008 | 330 1/10W               | 1   |         |
|        | R5832    | D0GZ222JA012 | 2.2K 1W                 | 1   |         |
|        | R5833    | D0GZ222JA012 | 2.2K 1W                 | 1   | PN      |
|        | R5834    | D0GZ222JA012 | 2.2K 1W                 | 1   |         |
|        | R5835    | D0GZ222JA012 | 2.2K 1W                 | 1   | PN      |
|        | R5836    | D0GZ222JA012 | 2.2K 1W                 | 1   | PN      |
|        | R5837    | D0GZ222JA012 | 2.2K 1W                 | 1   | PN      |
|        | R5840    | D0GB823JA008 | 82K 1/10W               | 1   |         |
|        | R5841    | D0GB124JA008 | 120K 1/10W              | 1   |         |
|        | R5860    | ERJ3GEYF103V | 10K 1/10W               | 1   |         |
|        | R5861    | ERJ3GEYF332V | 3.3K 1/10W              | 1   |         |
|        | R5862    | D0GD183JA017 | 18K 1/8W                | 1   |         |
|        | R5863    | D0GD183JA017 | 18K 1/8W                | 1   |         |
|        | R5864    | ERJ3GEYF103V | 10K 1/10W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R5865    | ERJ3RBD391V  | 390 1/16W               | 1   |         |
|        | R5866    | D0GD220JA017 | 22 1/8W                 | 1   |         |
|        | R5867    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R5868    | D0GB223JA008 | 22K 1/10W               | 1   |         |
|        | R5890    | D0GB222JA008 | 2.2K 1/10W              | 1   |         |
|        | R5891    | ERJ3RBD333V  | 33K 1/16W               | 1   |         |
|        | R5892    | D0HB102ZA002 | 1K 1/16W                | 1   |         |
|        | R5893    | ERJ3RBD103V  | 10K 1/16W               | 1   |         |
|        | R5894    | D0GB151JA008 | 150 1/10W               | 1   |         |
|        | R5895    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R5896    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R5897    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R5898    | ERJ3GEYF103V | 10K 1/10W               | 1   | PN      |
|        | R6000    | D0GB122JA008 | 1.2K 1/10W              | 1   |         |
|        | R6001    | D0GB152JA008 | 1.5K 1/10W              | 1   |         |
|        | R6002    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R6003    | D0GB222JA008 | 2.2K 1/10W              | 1   |         |
|        | R6004    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R6005    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R6006    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R6007    | ERJ3GEYJ821V | 820 1/10W               | 1   |         |
|        | R6009    | ERJ3GEYJ821V | 820 1/10W               | 1   |         |
|        | R6011    | D0GB222JA008 | 2.2K 1/10W              | 1   |         |
|        | R6012    | D0GB152JA008 | 1.5K 1/10W              | 1   |         |
|        | R6013    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R6014    | D0GB153JA008 | 15K 1/10W               | 1   |         |
|        | R6015    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R6016    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R6017    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R6018    | D0GB122JA008 | 1.2K 1/10W              | 1   |         |
|        | R6020    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6021    | ERJ3GEYJ221V | 220 1/10W               | 1   |         |
|        | R6022    | ERJ3GEYJ221V | 220 1/10W               | 1   |         |
|        | R6023    | ERJ3GEYJ221V | 220 1/10W               | 1   |         |
|        | R6024    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6027    | ERJ3GEYJ221V | 220 1/10W               | 1   |         |
|        | R6029    | D0GB221JA007 | 220 1/10W               | 1   |         |
|        | R6030    | D0GB471JA008 | 470 1/10W               | 1   |         |
|        | R6031    | D0GB221JA007 | 220 1/10W               | 1   |         |
|        | R6032    | ERJ3GEYJ821V | 820 1/10W               | 1   |         |
|        | R6033    | D0GB823JA008 | 82K 1/10W               | 1   |         |
|        | R6034    | ERJ3GEYJ821V | 820 1/10W               | 1   |         |
|        | R6035    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R6037    | ERJ3GEYJ821V | 820 1/10W               | 1   |         |
|        | R6038    | D0GB682JA008 | 6.8K 1/10W              | 1   |         |
|        | R6039    | D0GB470JA008 | 47 1/10W                | 1   |         |
|        | R6040    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6041    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6047    | D0GB1R0JA008 | 1 1/10W                 | 1   |         |
|        | R6048    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6049    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R6050    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R6051    | D0GB1R0JA008 | 1 1/10W                 | 1   |         |
|        | R6053    | D0GB100JA008 | 10 1/10W                | 1   |         |
|        | R6054    | D0GB223JA008 | 22K 1/10W               | 1   |         |
|        | R6056    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R6057    | ERJ3GEYJ221V | 220 1/10W               | 1   |         |
|        | R8001    | ERJ2GEOR00X  | 0 1/16W                 | 1   |         |
|        | R8002    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R8003    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R8004    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R8005    | D0GB105JA008 | 1M 1/10W                | 1   |         |
|        | R8006    | D0GB221JA008 | 220 1/10W               | 1   |         |
|        | R8010    | D0GA104JA023 | 100K 1/16W              | 1   |         |
|        | R8011    | D0GA104JA023 | 100K 1/16W              | 1   |         |
|        | R8012    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8013    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8014    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8015    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8016    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8017    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8018    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8019    | D0GA473JA023 | 47K 1/16W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R8020    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8021    | D0GA330JA023 | 33 1/16W                | 1   |         |
|        | R8022    | D0GB100JA008 | 10 1/10W                | 1   |         |
|        | R8025    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8026    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8027    | D0GB100JA008 | 10 1/10W                | 1   |         |
|        | R8029    | D0GA330JA023 | 33 1/16W                | 1   |         |
|        | R8030    | D0GA104JA023 | 100K 1/16W              | 1   |         |
|        | R8031    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        | R8032    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8033    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8034    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8035    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8036    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8037    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8038    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8039    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8040    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8041    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        | R8042    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        | R8043    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8044    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8045    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8046    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        | R8047    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        | R8201    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8202    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8203    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8204    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8205    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8206    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8209    | D0GB225JA008 | 2.2M 1/10W              | 1   |         |
|        | R8210    | D0GB821JA008 | 820 1/10W               | 1   |         |
|        | R8211    | D0GB272JA008 | 2.7K 1/10W              | 1   |         |
|        | R8212    | D0GB4R7JA008 | 4.7 1/10W               | 1   |         |
|        | R8214    | D0GB103JA008 | 10K 1/10W               | 1   |         |
|        | R8215    | D0GB5R6JA008 | 5.6 1/10W               | 1   |         |
|        | R8251    | D0GA330JA023 | 33 1/16W                | 1   |         |
|        | R8252    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R8254    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R8255    | D0GB332JA008 | 3.3K 1/10W              | 1   |         |
|        | R8256    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8257    | D0GB562JA008 | 5.6K 1/10W              | 1   |         |
|        | R8258    | D0GB273JA008 | 27K 1/10W               | 1   |         |
|        | R8259    | D0GB472JA008 | 4.7K 1/10W              | 1   |         |
|        | R8260    | D0GB473JA008 | 47K 1/10W               | 1   |         |
|        | R8261    | D0GB101JA008 | 100 1/10W               | 1   |         |
|        | R8262    | D0GB100JA008 | 10 1/10W                | 1   |         |
|        | R8263    | D0GB102JA008 | 1K 1/10W                | 1   |         |
|        | R8264    | D0GB122JA008 | 1.2K 1/10W              | 1   |         |
|        | R8265    | D0GB104JA008 | 100K 1/10W              | 1   |         |
|        | R8301    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8302    | D0GBR00JA008 | 0 1/10W                 | 1   |         |
|        | R8501    | ERJ2GE0R00X  | 0 1/16W                 | 1   |         |
|        | R8502    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8503    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8504    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8505    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8506    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R8507    | D0GA473JA023 | 47K 1/16W               | 1   |         |
|        | R9001    | ERJ2RKD300X  | 30 1/16W                | 1   |         |
|        | R9002    | ERJ2RKD300X  | 30 1/16W                | 1   |         |
|        | R9003    | D0GA153JA023 | 15K 1/16W               | 1   |         |
|        | R9004    | D0GA153JA023 | 15K 1/16W               | 1   |         |
|        | R9005    | D0GA103JA023 | 10K 1/16W               | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | CAPACITORS              |     |         |
|        |          |              |                         |     |         |
|        | C51      | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C52      | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C57      | F1H1H120A230 | 12pF 50V                | 1   |         |
|        | C58      | F1H1H120A230 | 12pF 50V                | 1   |         |
|        | C59      | F1H1A105A025 | 1uF 10V                 | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C60      | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C61      | F1G1C104A077 | 0.1uF 16V               | 1   |         |
|        | C62      | F1G1C104A077 | 0.1uF 16V               | 1   |         |
|        | C63      | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2000    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2003    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2004    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2005    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2007    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2008    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2009    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2010    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2013    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C2015    | F1H1H2210001 | 220pF 50V               | 1   |         |
|        | C2016    | F1H1H2210001 | 220pF 50V               | 1   |         |
|        | C2020    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2021    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2022    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2023    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2024    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2026    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2028    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2029    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2031    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2032    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2033    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2034    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2038    | F2A1C100A207 | 10uF 16V                | 1   |         |
|        | C2039    | F2A1C100A207 | 10uF 16V                | 1   |         |
|        | C2040    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2043    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2046    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2049    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C2050    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C2053    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2054    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C2056    | F2A1A330B138 | 33uF 10V                | 1   |         |
|        | C2057    | F2A1H4R7A213 | 4.7uF 50V               | 1   |         |
|        | C2061    | F2A1H1R0A213 | 1.0uF 50V               | 1   |         |
|        | C2066    | F2A1H1R0A213 | 1.0uF 50V               | 1   |         |
|        | C2067    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2068    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2070    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2071    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2072    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2073    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2074    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2075    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2076    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2077    | F1H1H333A220 | 0.033uF 50V             | 1   |         |
|        | C2078    | F1H1H563A748 | 0.056uF 50V             | 1   |         |
|        | C2079    | F1H1H563A748 | 0.056uF 50V             | 1   |         |
|        | C2080    | F1H1H563A748 | 0.056uF 50V             | 1   |         |
|        | C2081    | F1H1H563A748 | 0.056uF 50V             | 1   |         |
|        | C2082    | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C2083    | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C2084    | F1H1C683A087 | 0.068uF 16V             | 1   |         |
|        | C2085    | F2A1H3R3A213 | 3.3uF 50V               | 1   |         |
|        | C2086    | F2A1H3R3A213 | 3.3uF 50V               | 1   |         |
|        | C2087    | F1H0J4750004 | 4.7uF 6.3V              | 1   |         |
|        | C2088    | F1H1C683A087 | 0.068uF 16V             | 1   |         |
|        | C2089    | F2A1H3R3A213 | 3.3uF 50V               | 1   |         |
|        | C2090    | F2A1H1R0A213 | 1.0uF 50V               | 1   |         |
|        | C2092    | F1H1C683A087 | 0.068uF 16V             | 1   |         |
|        | C2093    | F2A1C221B456 | 220uF 16V               | 1   |         |
|        | C2094    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2095    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2099    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2102    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2107    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2108    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2110    | F2A1E2210093 | 220uF 25V               | 1   |         |
|        | C2114    | F2A1C221B456 | 220uF 16V               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C2115    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2116    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2117    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2121    | F1H1H470A004 | 47pF 50V                | 1   |         |
|        | C2123    | F1H1H180A230 | 18pF 50V                | 1   |         |
|        | C2126    | F1H1H470A004 | 47pF 50V                | 1   |         |
|        | C2127    | F1H1H821A831 | 820pF 50V               | 1   |         |
|        | C2128    | F1H1H562A219 | 5600pF 50V              | 1   |         |
|        | C2129    | F1H1H180A230 | 18pF 50V                | 1   |         |
|        | C2130    | F1J1H104A459 | 0.1uF 50V               | 1   |         |
|        | C2132    | F2A1A330B138 | 33uF 10V                | 1   |         |
|        | C2133    | F1H1H821A831 | 820pF 50V               | 1   |         |
|        | C2134    | F1H0J4750004 | 4.7uF 6.3V              | 1   |         |
|        | C2135    | F1H0J4750004 | 4.7uF 6.3V              | 1   |         |
|        | C2137    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2139    | F2A0J221B034 | 220uF 6.3V              | 1   |         |
|        | C2141    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2143    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2144    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2148    | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C2150    | F2A1H3R3A213 | 3.3uF 50V               | 1   |         |
|        | C2153    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2163    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C2167    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C2171    | F2A1C102A019 | 1000uF 16V              | 1   |         |
|        | C2173    | F2A0J471B035 | 470uF 6.3V              | 1   |         |
|        | C2187    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2188    | F2A1A330B138 | 33uF 10V                | 1   |         |
|        | C2189    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2190    | F2A1C221B456 | 220uF 16V               | 1   |         |
|        | C2191    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2192    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2193    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2194    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2196    | F2A0J101A181 | 100uF 6.3V              | 1   |         |
|        | C2198    | F2A1C102A019 | 1000uF 16V              | 1   |         |
|        | C2201    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2226    | F2A0J821B044 | 820uF 6.3V              | 1   |         |
|        | C2234    | F2A1E102B396 | 1000uF 25V              | 1   |         |
|        | C2242    | F1J1E1040003 | 0.1uF 25V               | 1   |         |
|        | C2243    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2244    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2245    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2246    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2247    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C2248    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2249    | F2A1A330B138 | 33uF 10V                | 1   |         |
|        | C2251    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2255    | F1H0J1050012 | 1uF 6.3V                | 1   |         |
|        | C2256    | F2A0J221B034 | 220uF 6.3V              | 1   |         |
|        | C2257    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C2277    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C2278    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C5607    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5607    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5610    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5611    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5612    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5613    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5616    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5617    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5620    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5626    | F2A0J101A245 | 100uF 6.3V              | 1   |         |
| ⚠      | C5700    | F1BAF471A013 | 470pF                   | 1   |         |
| ⚠      | C5701    | F0CAF104A105 | 0.1uF                   | 1   |         |
| ⚠      | C5703    | F0CAF224A105 | 0.22uF                  | 1   |         |
|        | C5703    | F2A1H221B436 | 220uF 50V               | 1   |         |
| ⚠      | C5704    | F1BAF471A013 | 470pF                   | 1   | PH      |
|        | C5704    | F2A1H221B436 | 220uF 50V               | 1   |         |
| ⚠      | C5705    | F1BAF471A013 | 470pF                   | 1   | PH      |
| ⚠      | C5708    | F1BAF1020020 | 1000pF                  | 1   |         |
|        | C5711    | F2B2G2210025 | 220uF 400V              | 1   | PH      |
|        | C5712    | F2B2D5610024 | 560uF 200V              | 1   | PN      |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C5712    | F2B2G2210025 | 220uF 400V              | 1   | PH      |
|        | C5713    | F0C2J1030007 | 0.01uF 630V             | 1   |         |
|        | C5720    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5721    | F1H1H2210001 | 220pF 50V               | 1   |         |
|        | C5722    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5723    | F1H1H471A219 | 470pF 50V               | 1   |         |
|        | C5724    | F2A1H5600009 | 56uF 50V                | 1   |         |
|        | C5725    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5726    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5727    | F1B3A3320012 | 3300pF 1000V            | 1   | PN      |
|        | C5728    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5730    | F1H1E105A116 | 1uF 25V                 | 1   |         |
|        | C5737    | F1B3D821A084 | 820pF 2000V             | 1   | PH      |
|        | C5790    | F1K2J2220002 | 2200pF 630V             | 1   | PH      |
|        | C5794    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5795    | F1K1H105A149 | 1uF 50V                 | 1   |         |
|        | C5796    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5798    | F2A1E221B422 | 220uF 25V               | 1   |         |
|        | C5800    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5800    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5801    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C5802    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C5803    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C5804    | F2A2A220A388 | 22uF 100V               | 1   |         |
|        | C5805    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5805    | F2A1H2220043 | 2200uF 50V              | 1   |         |
|        | C5807    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5808    | F1H1H330A230 | 33pF 50V                | 1   |         |
|        | C5808    | F2A1H2220043 | 2200uF 50V              | 1   |         |
|        | C5809    | F1K2A1040007 | 0.1uF 100V              | 1   |         |
|        | C5810    | F1H1H104A013 | 0.1uF 50V               | 2   |         |
|        | C5811    | F1J2A221A030 | 220pF 100V              | 1   |         |
|        | C5812    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5812    | F1H1H153A219 | 0.015uF 50V             | 1   |         |
|        | C5813    | F1J2A221A030 | 220pF 100V              | 1   |         |
|        | C5813    | F2A1E221B422 | 220uF 25V               | 1   |         |
|        | C5814    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5815    | F1H1C474A140 | 0.47uF 16V              | 1   |         |
|        | C5816    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5817    | F1H1H153A219 | 0.015uF 50V             | 1   |         |
|        | C5817    | F2A2AR100002 | 0.10uF 100V             | 1   |         |
|        | C5818    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5818    | F1J2A221A030 | 220pF 100V              | 1   |         |
|        | C5819    | F1J2A221A030 | 220pF 100V              | 1   |         |
|        | C5819    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5820    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5820    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5821    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5821    | F1K2A1040007 | 0.1uF 100V              | 1   |         |
|        | C5822    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5822    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5823    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5825    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C5826    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C5826    | F1J2E1030004 | 0.01uF 250V             | 1   |         |
|        | C5827    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5828    | F1H1A474A107 | 0.47uF 10V              | 1   |         |
|        | C5829    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C5830    | ECQV1H474JL3 | 0.47uF 50V              | 1   |         |
|        | C5831    | ECQV1H474JL3 | 0.47uF 50V              | 1   |         |
|        | C5831    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5832    | F1H1H104A013 | 0.1uF 50V               | 2   |         |
|        | C5833    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5834    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C5835    | F2A1C100A207 | 10uF 16V                | 1   |         |
|        | C5836    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C5843    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C5844    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C5869    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5870    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5871    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C5872    | F2A0J222A247 | 2200uF 6.3V             | 1   |         |
|        | C5896    | F1H1H104A013 | 0.1uF 50V               | 1   |         |



| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C5897    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C5898    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C5899    | F2A1A221B161 | 220uF 10V               | 1   |         |
|        | C5900    | F1J1A106A043 | 10uF 10V                | 1   | PN      |
|        | C6003    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C6004    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6005    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6007    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6008    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6009    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6010    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C6011    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6012    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C6013    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C6014    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6016    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6018    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6019    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6020    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6021    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C6022    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6023    | F2A1H470B412 | 47uF 50V                | 1   |         |
|        | C6024    | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C6025    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C6026    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C6027    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C6028    | F2A1H470B412 | 47uF 50V                | 1   |         |
|        | C6029    | F2A1C101A155 | 100uF 16V               | 1   |         |
|        | C6030    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C6031    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C6032    | F2A1H220B411 | 22uF 50V                | 1   |         |
|        | C6200    | F1H1H101A720 | 100pF 50V               | 1   |         |
|        | C6201    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C6202    | F2A1H220A182 | 22uF 50V                | 1   |         |
|        | C6400    | F1H1H391A013 | 390pF 50V               | 1   |         |
|        | C6402    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C6404    | F1H1H331A013 | 330pF 50V               | 1   |         |
|        | C6406    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C6408    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C6409    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C6412    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C8001    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8002    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8003    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8004    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8005    | F1H0J225A005 | 2.2uF 6.3V              | 1   |         |
|        | C8007    | F1H1A334A025 | 0.33uF 10V              | 1   |         |
|        | C8008    | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C8009    | F1H1H680A230 | 68pF 50V                | 1   |         |
|        | C8010    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8011    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8012    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8013    | F2G0J101A031 | 100uF 6.3V              | 1   |         |
|        | C8014    | F1H1H103A885 | 0.01uF 50V              | 1   |         |
|        | C8015    | F1G1H120A565 | 12pF 50V                | 1   |         |
|        | C8016    | F1G1H120A565 | 12pF 50V                | 1   |         |
|        | C8017    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8018    | F1H1A334A028 | 0.33uF 10V              | 1   |         |
|        | C8019    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C8020    | F1H1H681A013 | 680pF 50V               | 1   |         |
|        | C8021    | F1H1C823A001 | 0.082uF 16V             | 1   |         |
|        | C8022    | F1H0J4750005 | 4.7uF 6.3V              | 1   |         |
|        | C8025    | F1H0J4750005 | 4.7uF 6.3V              | 1   |         |
|        | C8026    | F1H0J4750005 | 4.7uF 6.3V              | 1   |         |
|        | C8027    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C8028    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8029    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8030    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8031    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8032    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8033    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8034    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8035    | F1G1A1040006 | 0.1uF 10V               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C8036    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8037    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8038    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8039    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8040    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8041    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8042    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8043    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8044    | F1H0J4750005 | 4.7uF 6.3V              | 1   |         |
|        | C8045    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8046    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8047    | F1H1H153A885 | 0.015uF 50V             | 1   |         |
|        | C8048    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8049    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8050    | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C8051    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8052    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8053    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8054    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8055    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8056    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8057    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8058    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8059    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8060    | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C8061    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8062    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8063    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8064    | F2G0J221A031 | 220uF 6.3V              | 1   |         |
|        | C8065    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8066    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8067    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8068    | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C8069    | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C8070    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8071    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8072    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8073    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8074    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8075    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8076    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8101    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C8102    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C8201    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8202    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8203    | F1H1H103A885 | 0.01uF 50V              | 1   |         |
|        | C8204    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8251    | F2G1C4700061 | 47uF 16V                | 1   |         |
|        | C8252    | F1H1H103A885 | 0.01uF 50V              | 1   |         |
|        | C8253    | F1H1A154A001 | 0.15uF 10V              | 1   |         |
|        | C8254    | F1H1H153A885 | 0.015uF 50V             | 1   |         |
|        | C8255    | F1H1H182A219 | 1800pF 50V              | 1   |         |
|        | C8256    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C8258    | F1H1H122A219 | 1200pF 50V              | 1   |         |
|        | C8259    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8260    | F1H1H103A885 | 0.01uF 50V              | 1   |         |
|        | C8261    | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C8262    | F2G0J101A031 | 100uF 6.3V              | 1   |         |
|        | C8401    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8402    | F2G0J101A031 | 100uF 6.3V              | 1   |         |
|        | C8403    | F1H1H103A885 | 0.01uF 50V              | 1   |         |
|        | C8501    | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C8502    | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C8503    | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C8504    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8505    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8506    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8507    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8508    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8509    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8510    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8511    | F1G1A1040006 | 0.1uF 10V               | 1   |         |
|        | C8512    | F1G1A1040006 | 0.1uF 10V               | 1   |         |

| Safety | Ref.<br>No. | Part No.     | Part Name &<br>Description    | Qty | Remarks |
|--------|-------------|--------------|-------------------------------|-----|---------|
|        | C8513       | F1H0J4750005 | 4.7uF 6.3V                    | 1   |         |
|        | C8514       | F1H0J4750005 | 4.7uF 6.3V                    | 1   |         |
|        | C9006       | F1G1A1040006 | 0.1uF 10V                     | 1   |         |
|        |             |              |                               |     |         |
|        |             |              | SERVICE FIXTURE<br>& TOOLS    |     |         |
|        |             |              |                               |     |         |
|        | SFT1        | REX1527      | 15P CABLE WIRE<br>(MAIN-SMPS) | 1   |         |

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