

Service Manual

CD Stereo System

Model No. **SA-AKX80PN**
SA-AKX80PS

Product Color: (K)...Black Type



Please refer to the original service manual for:

- CD Mechanism Unit (BRS12C) , Order No. PSG1303059AE
- Speaker system SB-AKX16PN-K, Order No. PSG1301013CE

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

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

1.1.1. Leakage Current Cold Check

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.
When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

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

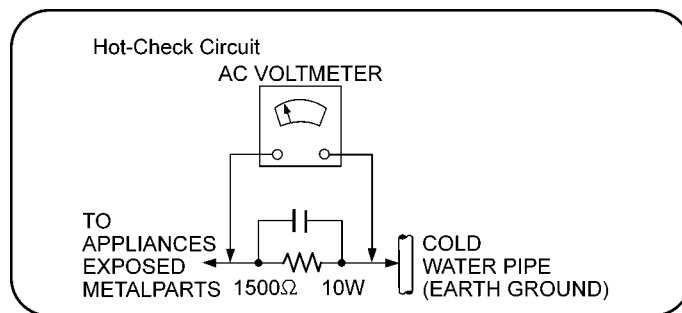


Figure 1-1

1.2. Before Repair and Adjustment

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 120 V, 60 Hz during Power ON in FM Tuner at volume minimal should be ~ 250 mA (PN). Current consumption at AC 220~240 V, 50/60 Hz during Power ON in FM Tuner at volume minimal should be ~ 250 mA (PS).

1.3. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

1.4. Power Supply using SMPS Module

This model uses Switching Mode Power Supply (SMPS Module) to provide the power supply to the unit. Here is the supplied part no. for the SMPS Module

- 1) N0AB3GK00008 (For PN)
- 2) N0AD3GK00001 (For PS)

Disconnect AC power to discharge the AC Capacitors (C1 (For PS), C2) through a 10 Ω , 10 W resistor to ground.

1.4.1. How to Identify SMPS

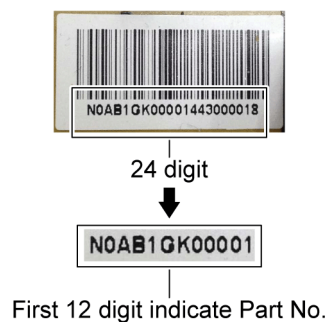


Figure 1-2

1.4.2. For PN

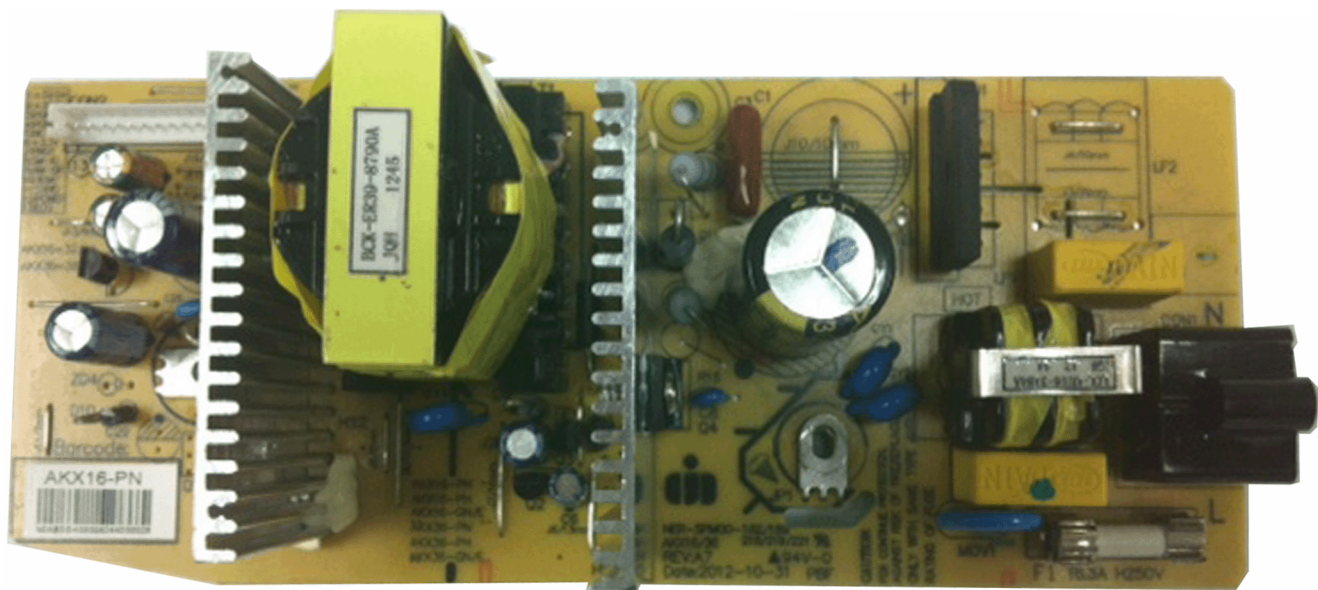


Figure 1-3

1.4.3. For PS

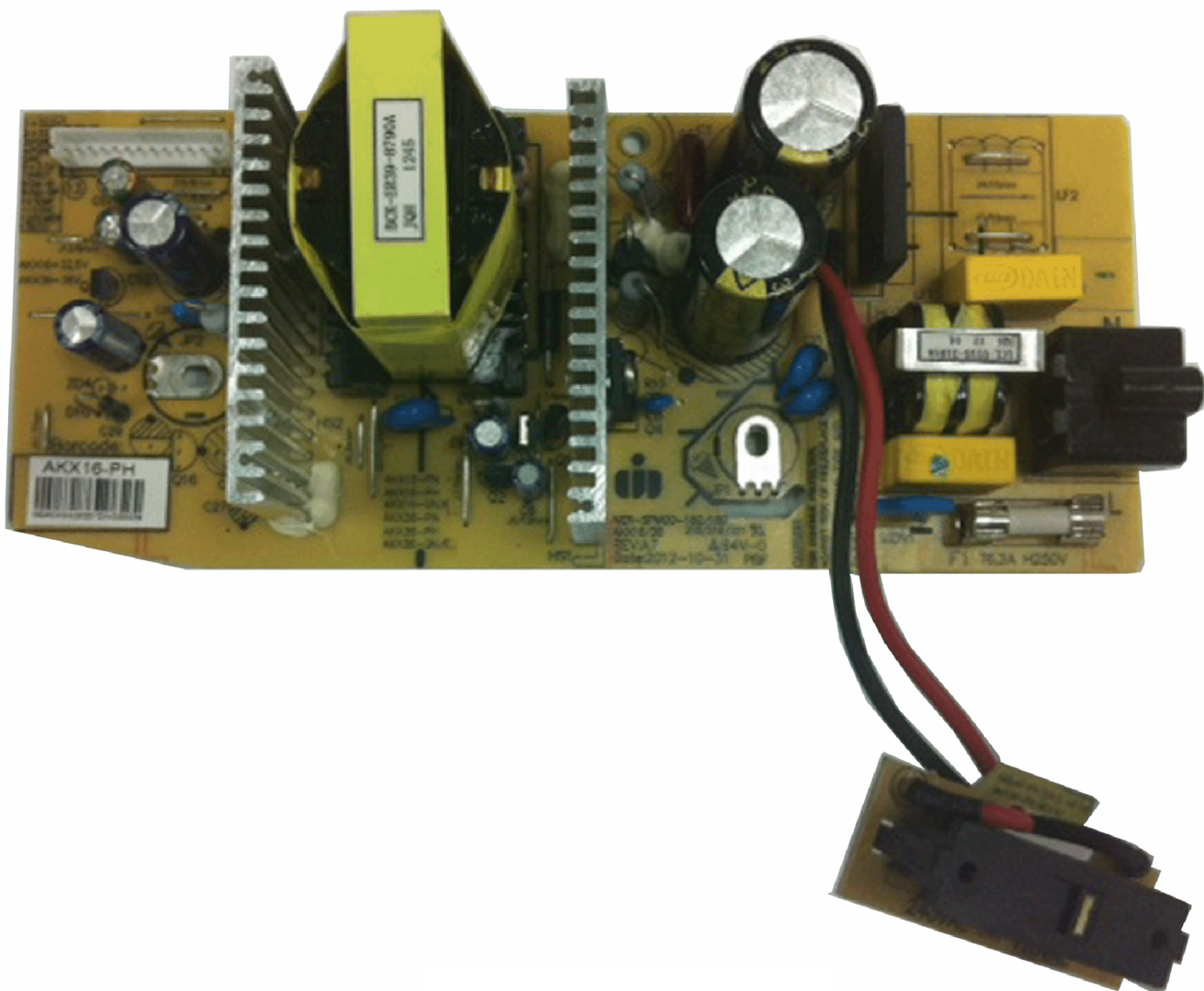


Figure 1-4

1.5. Safety Parts Information

Safety Parts List:

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

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

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	8	RGR0443A-GA	REAR PANEL	PN
⚠	8	RGR0443K-BA	REAR PANEL	PS
⚠	26	RKM0713-K1	TOP CABINET	
⚠	301	RAE1047Z-V	TRAVERSE UNIT	(E.S.D)
⚠	A2	K2CB2CB00022	AC CORD	PN
⚠	A2	K2CQ2YY00119	AC CORD	PS
⚠	A3	RQT0A09-M	O/I BOOK (Sp)	
⚠	A3	RQT0A10-B	O/I BOOK (En)	
⚠	PCB7	N0AB3GK00008	SMPS MODULE	PN
⚠	PCB7	N0AD3GK00001	SMPS MODULE & VOLTAGE SELEC- TOR P.C.B.	PS

2 Warning

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

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

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

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

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

CAUTION:

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

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

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2.2. Precaution of Laser Diode

CAUTION:

THIS PRODUCT UTILIZES A LASER.

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

Caution:

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

Wavelength: 790 nm (CD)

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

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

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

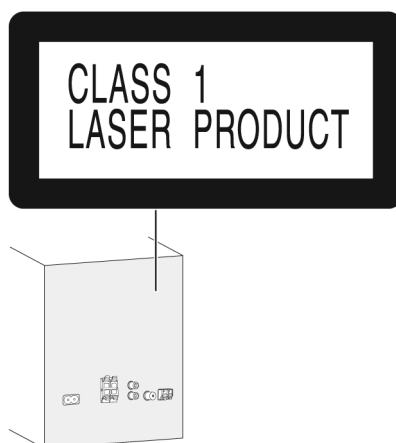


Figure 2-1

2.3. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder.

(See right figure)

PbF

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

2.4. Handling Precautions for Traverse Unit

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

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

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

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.

3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.
4. The antistatic FFC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FFC.

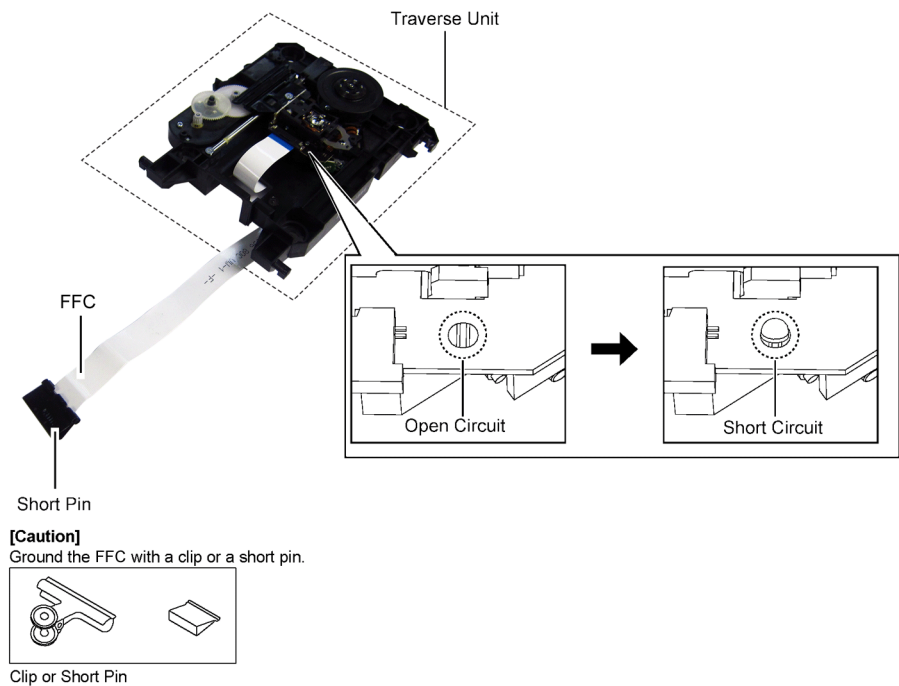


Figure 2-2

2.5. Grounding for electrostatic breakdown prevention

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

2.5.1. Worktable grounding

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

2.5.2. Human body grounding

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

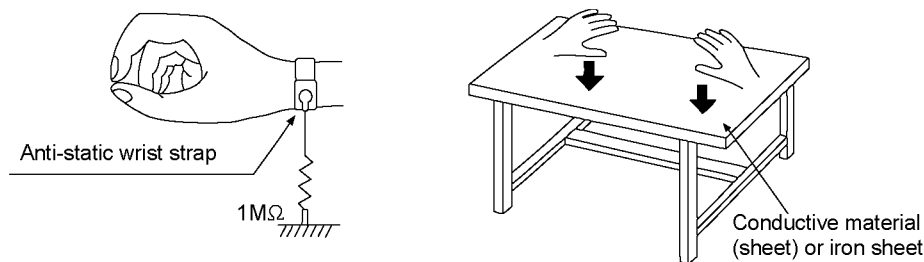


Figure 2-3

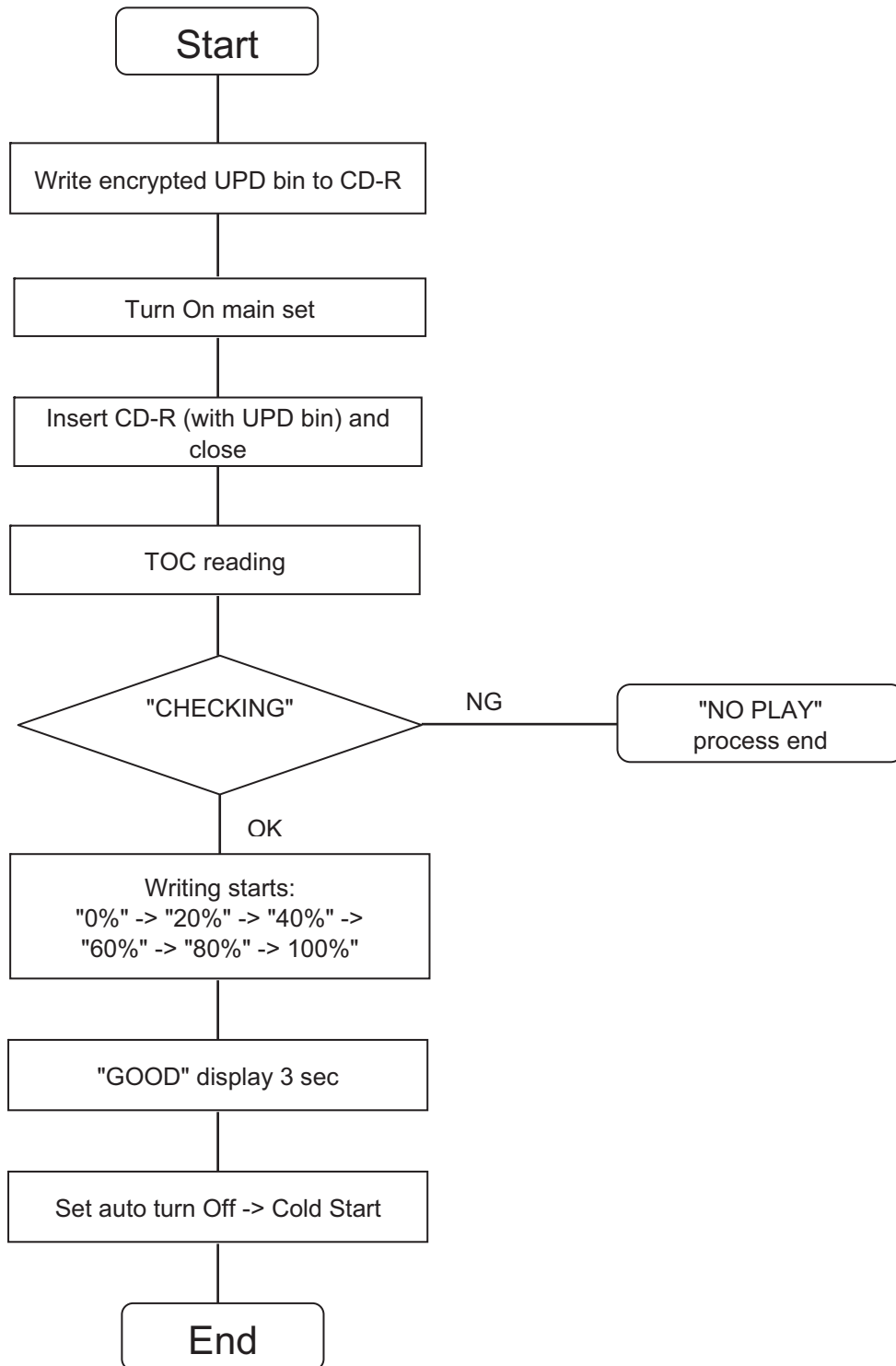
3 Service Navigation

3.1. Service Information

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

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

3.1.1. Firmware Update Procedure



4 Specifications

■ Amplifier section

RMS output power stereo mode

Front Ch (both ch driven)	175 W per channel (4 Ω), 1 kHz, 30% THD
Total RMS stereo mode power	350 W

PMPO Output Power

2750 W

■ Tuner, terminals section

Preset memory

FM 30 stations
AM 15 stations

Frequency modulation (FM)

Frequency range	87.5 MHz to 108.0 MHz (100 kHz step) (For PN) 87.9 MHz to 107.9 MHz (200 kHz step) (For PN) 87.50 MHz to 108.00 MHz (50 kHz step) (For PS)
Antenna terminals	75 Ω (unbalanced)

Amplitude modulation (AM)

Frequency range	520 kHz to 1710 kHz (10 kHz step) (For PN) 522 kHz to 1629 kHz (9 kHz step) (For PS) 520 kHz to 1630 kHz (10 kHz step) (For PS)
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Aux Input

Pin jack (1 system)

■ Disc section

Discs played (8 cm or 12 cm)

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

* MPEG-1 Layer 3

Pick up

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

■ USB section

USB Port

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

■ General

Power supply

AC 120 V, 60 Hz (For PN)
AC 220 to 240 V, 50/60 Hz
(For PS)

Power consumption

55 W (For PN)
58 W (For PS)

Dimensions (W x H x D)

220 mm x 334 mm x 250 mm

Mass

2.8 kg

Operating temperature range

0 °C to +40 °C

Operating humidity range

35% to 80% RH
(no condensation)

Power Consumption in standby mode

0.3 W (approximate) (For PN)
0.4 W (approximate) (For PS)

Note:

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

■ System: SC-AKX80PNK

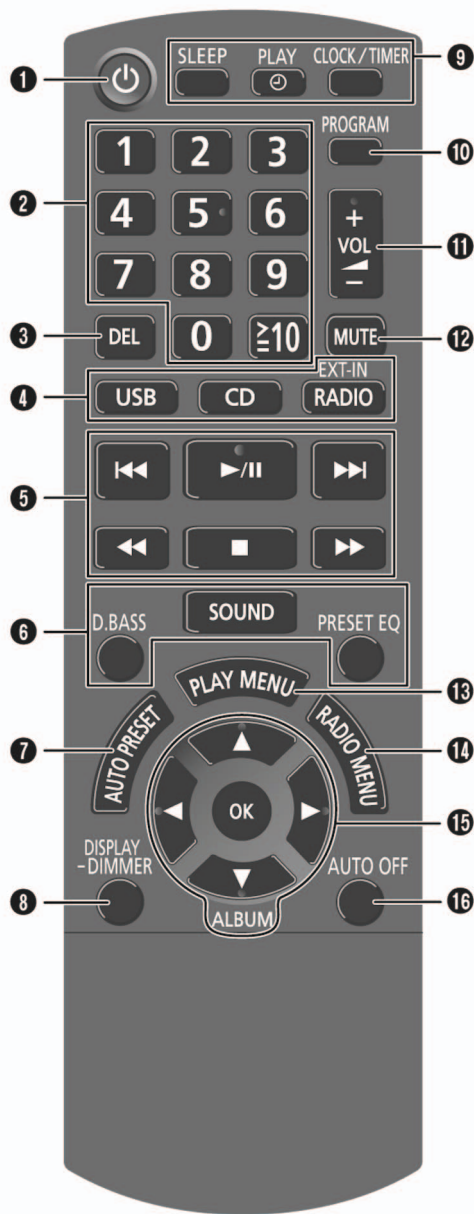
Main Unit: SA-AKX80PNK
Front Speakers: SB-AKX16PN-K

■ System: SC-AKX80PSK

Main Unit: SA-AKX80PSK
Front Speakers: SB-AKX16PN-K

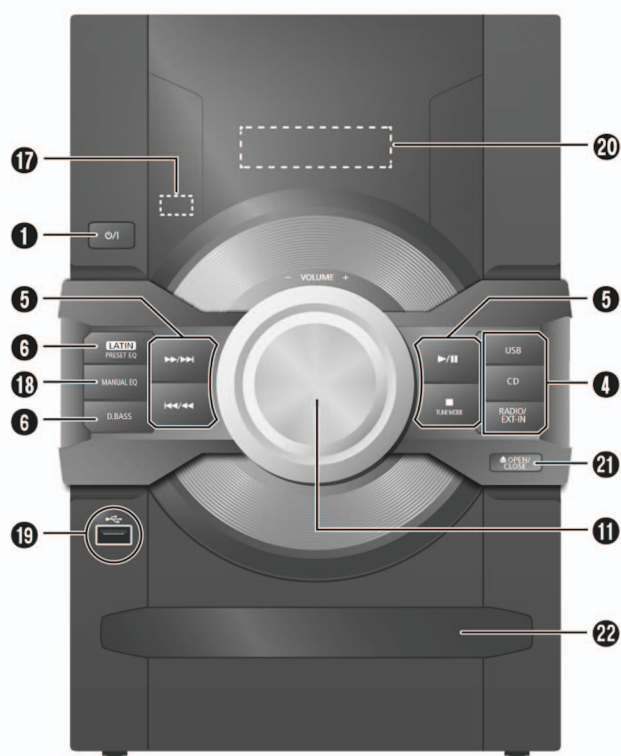
5 Location of Controls and Components

5.1. Remote Control Key Button Operation



- ❶ **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.
- ❷ **Numeric buttons** [1 to 9, 0, ≥10]
To select a 2-digit number
Example: 16: [≥10]→[1]→[6]
- ❸ **Delete a programmed track**
- ❹ **Select audio source**
- ❺ **Basic playback control**
- ❻ **Select the sound effects**
- ❼ **Auto preset the radio station**
- ❽ **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.
- ❾ **Set the clock and timer**
- ❿ **Set the program function**
- ⓫ **Adjust the volume of the system**
- ⓬ **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.
- ⓭ **Set the play menu item**
- ⓮ **Set the radio menu item**
- ⓯ **Select the option**
- ⓰ **Automatically switch off the system**
When you are in disc, USB or AUX source, the auto off function switches off the system if you do not use the system for 30 minutes.
To cancel, press the button again.

5.2. Main Unit Key Button Operation



1 Standby/on switch [⏻], [⏻/⏺]

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

4 Select audio source

5 Basic playback control

6 Select the sound effects

11 Adjust the volume of the system

17 Remote control sensor

Distance: Within approximately 7 m

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

18 Select bass, mid or treble effect

19 USB port (🔌)

20 Display panel

21 Open or close the disc tray

22 Disc tray

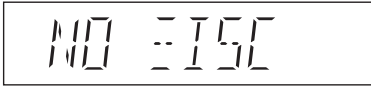
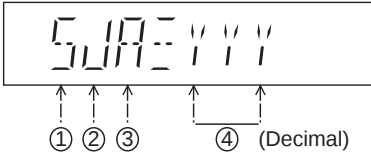
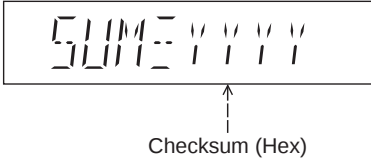
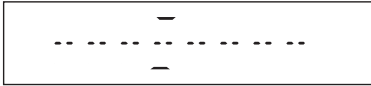
6 Service Mode

6.1. Cold Start

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Cold Start	To carry out cold-start or initialize to shipping mode		1. Unplug AC power cord. 2. Press & hold [POWER] button. 3. Plug in AC power cord while [POWER] button being pressed. 4. Release [POWER] button.

6.2. Doctor Mode Table

6.2.1. Doctor Mode Table 1

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

6.2.2. Doctor Mode Table 2

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

6.3. Self-Diagnostic Mode

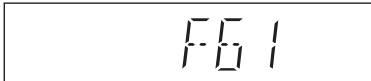
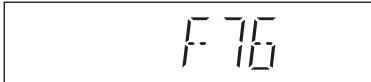
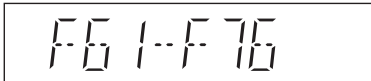
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Self Diagnostic Mode	To enter into self diagnostic checking		Step 1: Select CD mode (Ensure no disc is inserted). Step 2: Press & hold [■] button follow by [▶▶/▶▶] on main unit for 2 seconds.
Error Code Information	System will perform a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

6.4. Self-Diagnostic Error Code Table

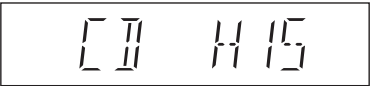
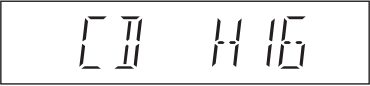
Self-Diagnostic Function provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

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

6.4.1. Power Supply Error Code Table

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Error Code F61	Diagnosis Contents: Power Amp IC output abnormal. Upon power on, PCONT=HIGH, DC_DET_AMP after checking LSI.		Press [■] on main unit for next error.
Error Code F76	Diagnosis Contents: Power Amp IC output abnormal. DC_DET_PWR.		Press [■] on main unit for next error.
Error Code F61-76	Diagnosis Contents: Power Amp IC output abnormal. Both DCDET (NG).		Press [■] on main unit for next error.

6.4.2. CD Mechanism Error Code Table

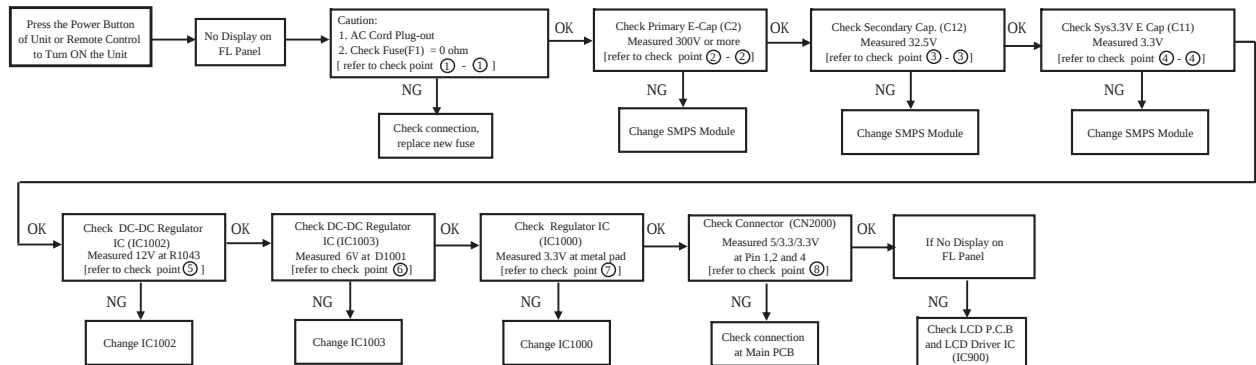
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Error Code CD H15	Diagnosis Contents: CD Open Abnormal. During operation POS_SW_R On fail to be detected within 4 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.
Error Code CD H16	Diagnosis Contents: CD Closing Abnormal. During operation POS_SW_CEN On fail to be detected within 4 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.
Error Code F26	Diagnosis Contents: Communication between CD servo LSI and micro-p abnormal. During switch to CD func-tion, if SENSE = "L" within fail safe time of 20ms.		Press [■] on main unit for next error.

6.5. Sales Demonstration Lock Function

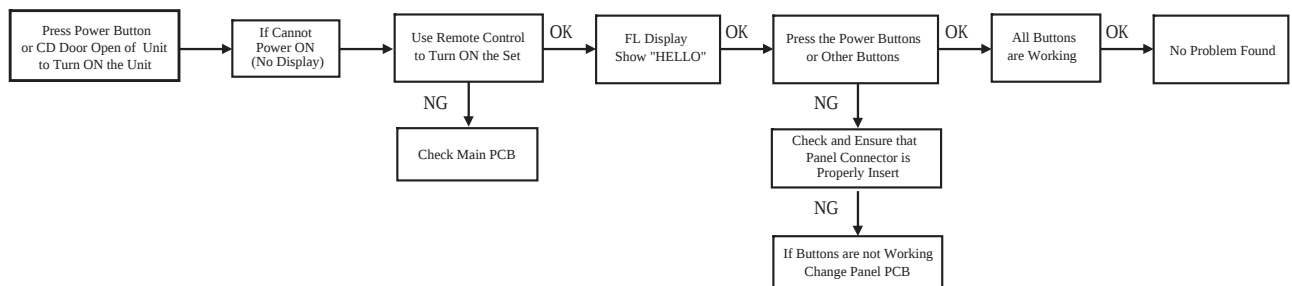
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Entering into Sales Demonstration Lock Mode	To enter into the sales demonstration lock mode.		1. Turn on the unit. 2. Select to any mode function. 3. Press and hold [▲OPEN/CLOSE] and [CD] key for 5 sec or more. The display will show upon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

7 Troubleshooting Guide

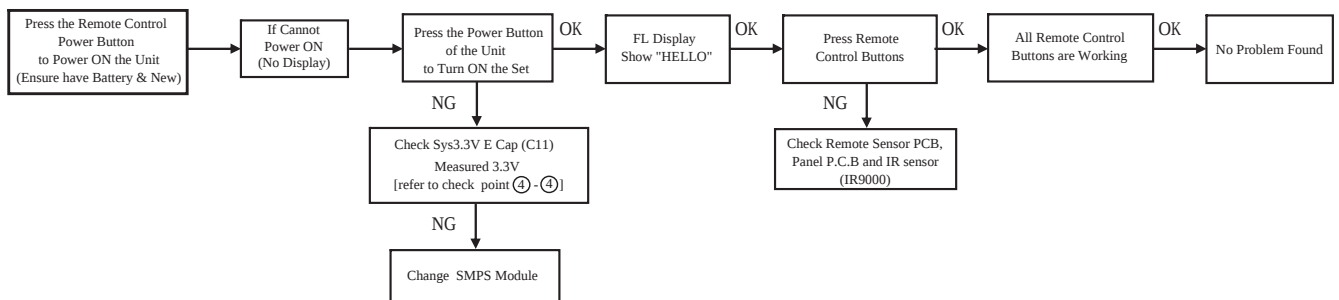
7.1. No Power or No Display



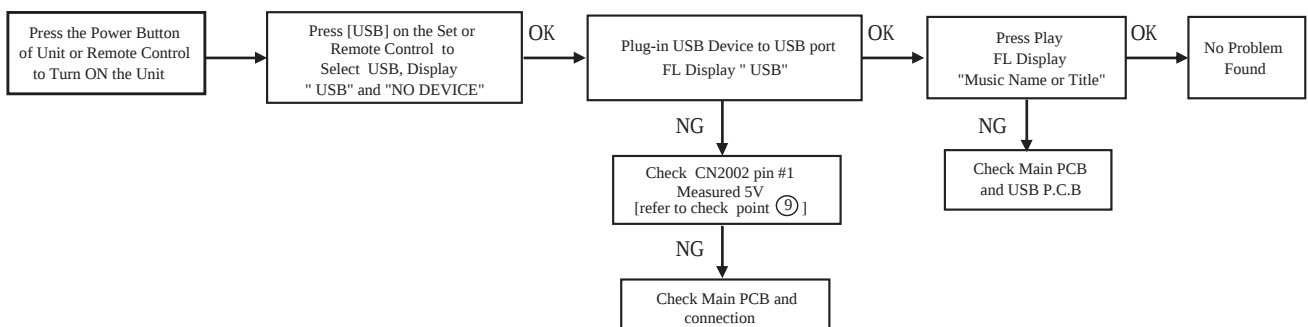
7.2. No Key Function



7.3. No Remote Control Function

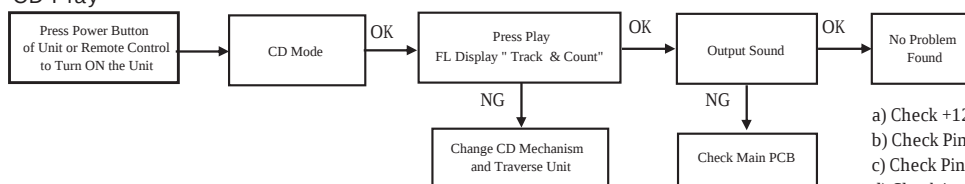


7.4. USB Device Cannot Detect



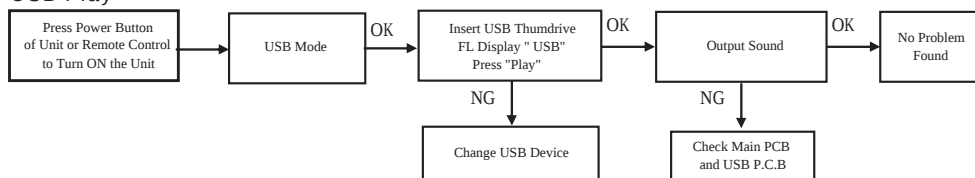
7.5. No Output Sound

CD Play

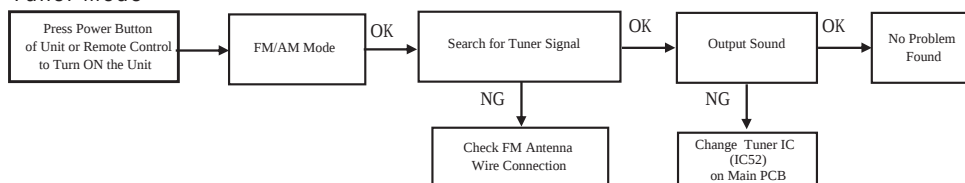


- a) Check +12V, +32V supply to IC6000
- b) Check Pin 5,6,14,15 for PWM input signal at IC6000
- c) Check Pin 35, 39, 27, 32 for PWM output signal at IC6000
- d) Check input signal and output to DAP IC (IC6500)

USB Play

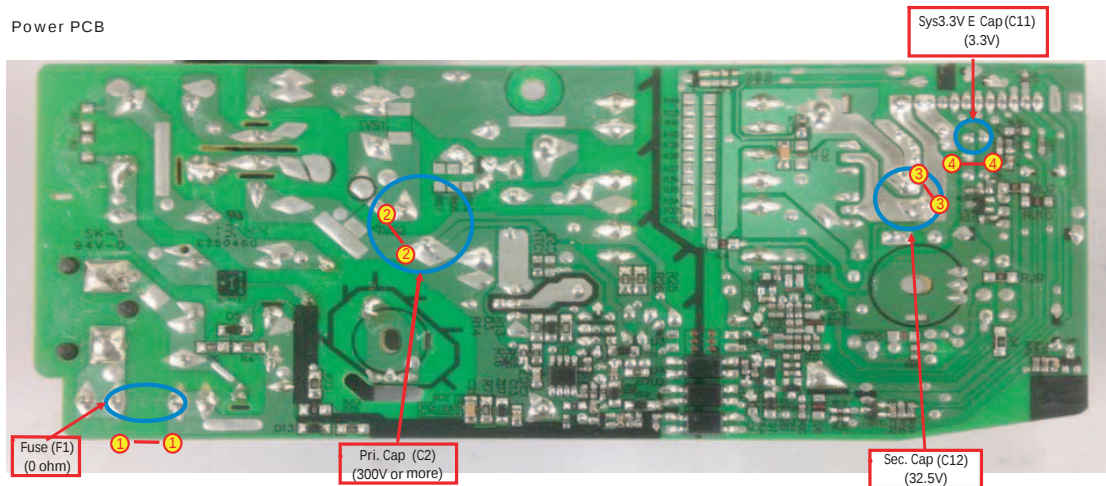


Tuner Mode

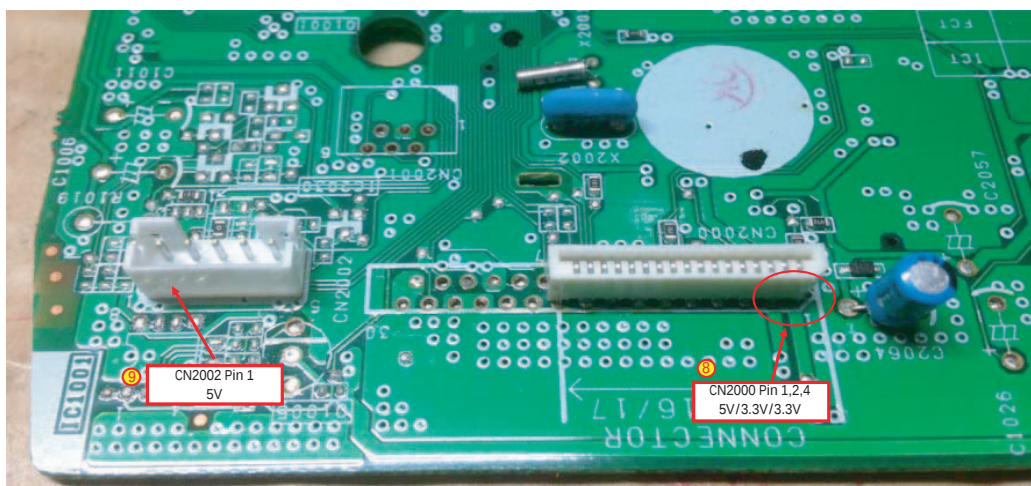
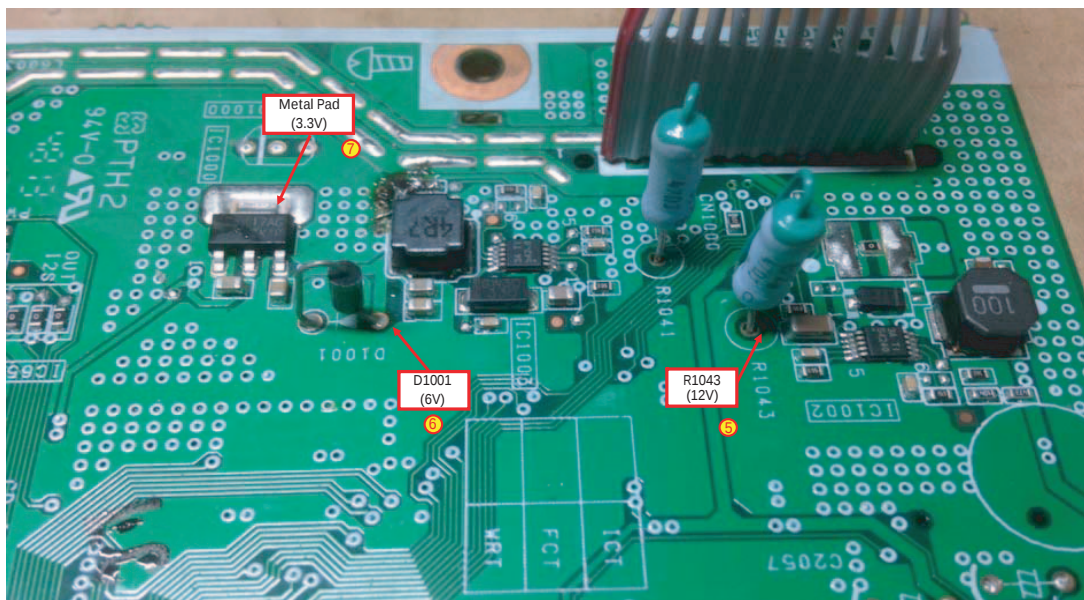


7.6. Check Point

Power PCB



Main PCB



8 Disassembly and Assembly Instructions

Caution Note:

- This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of “Main components and P.C.B Locations” as described in the service manual)
- Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.
- During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.
- Avoid touching heatsinks due to its high temperature after prolong use. (See caution as described below)

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

- During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.
- During replacement of component parts, please refer to the section of “Replacement Parts List” as described in the service manual.
- Select items from the following indexes when disassembly or replacement are required.
- Disassembly of Top Cabinet
- Disassembly of Front Panel Unit
- Disassembly of Panel P.C.B. and LCD P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Rear Panel
- Disassembly of Main P.C.B.
- Disassembly of SMPS Module and Voltage Selector P.C.B. (For PS only)
- Disassembly of CD Mechanism Unit
- Disassembly of CD Interface P.C.B.

8.1. Type of Screws

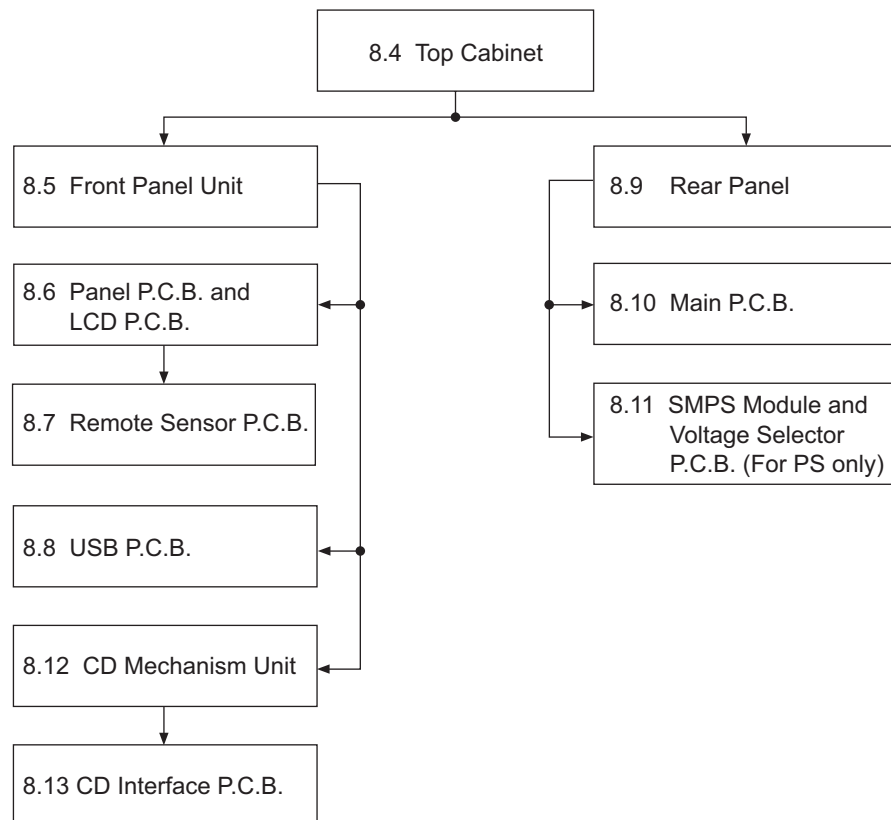
CAUTION NOTE:

Please use original screw and at correct locations.

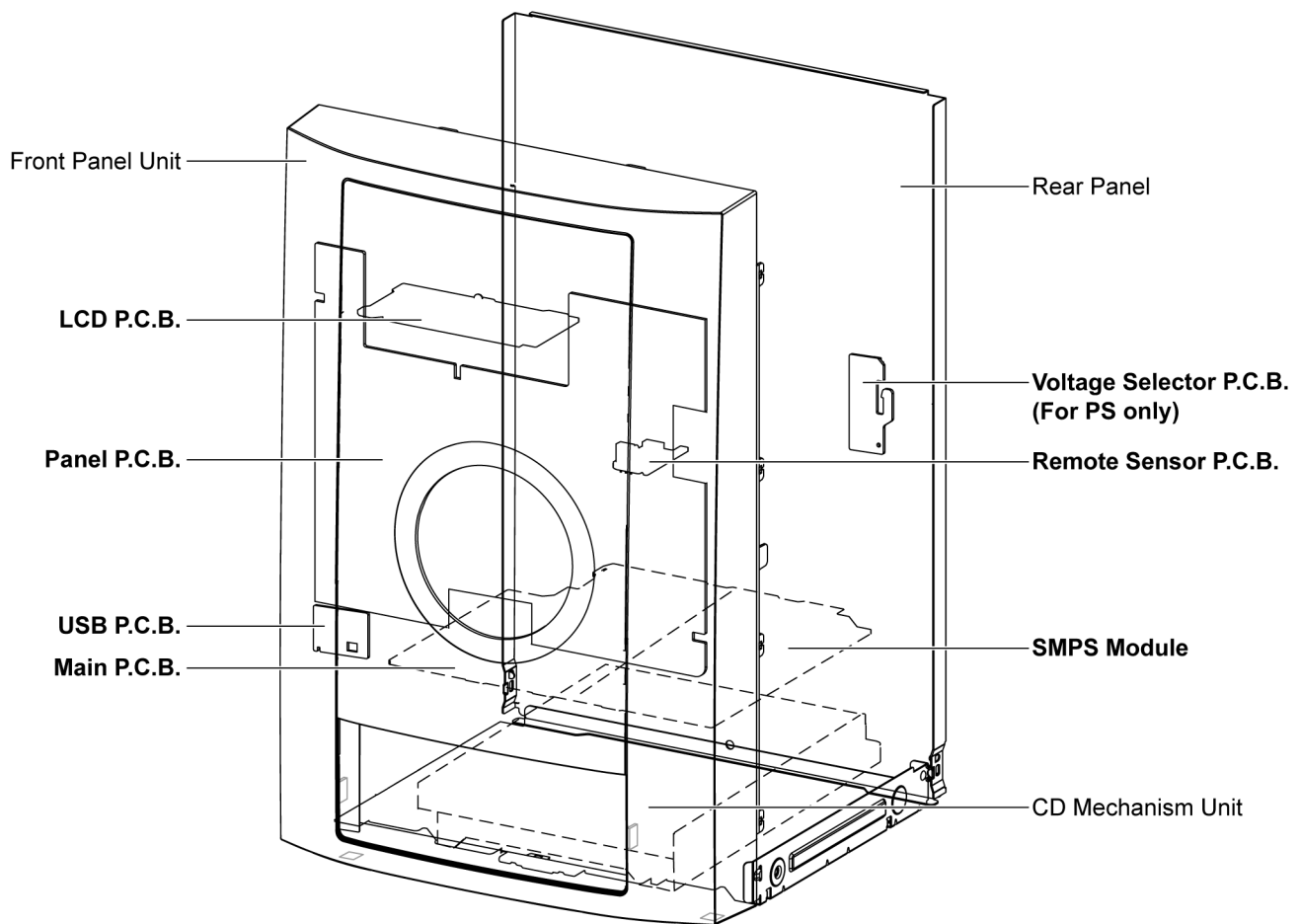
Below shown is part no. of different screw types used:

- | | |
|------------------------|----------------------|
| a :RHD30007-K2J | e :RHDX031008 |
| b :RHD30119-S | f :XTN2+6GFJ |
| c :RHD26046-L | |
| d :RHD30111-31 | |

8.2. Disassembly Flow Chart

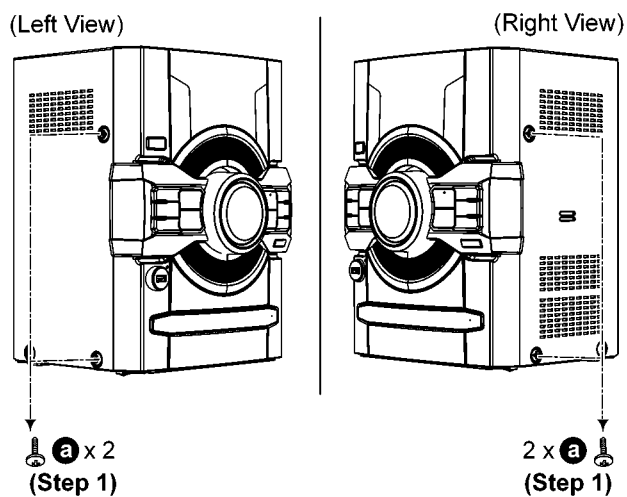


8.3. Main Components and P.C.B. Locations



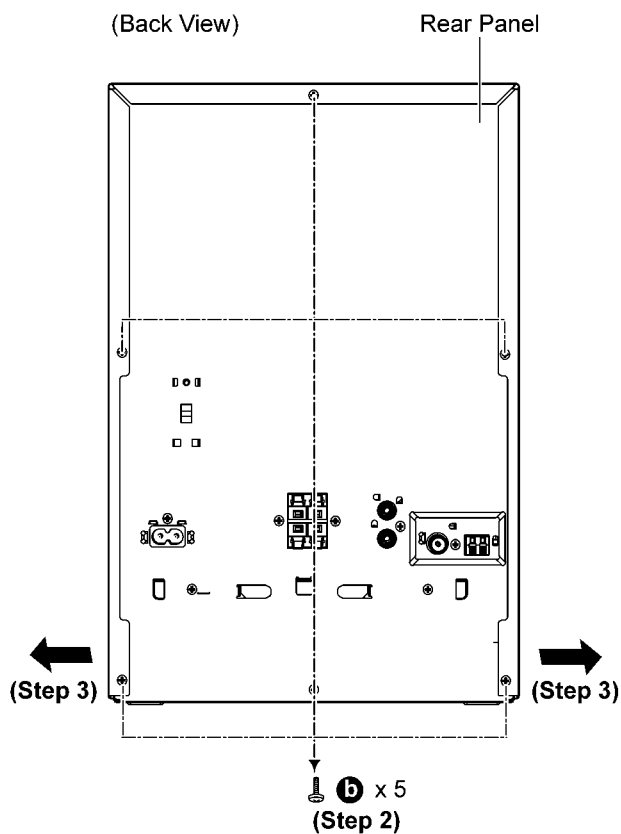
8.4. Disassembly of Top Cabinet

Step 1 Remove 2 screws on each side.

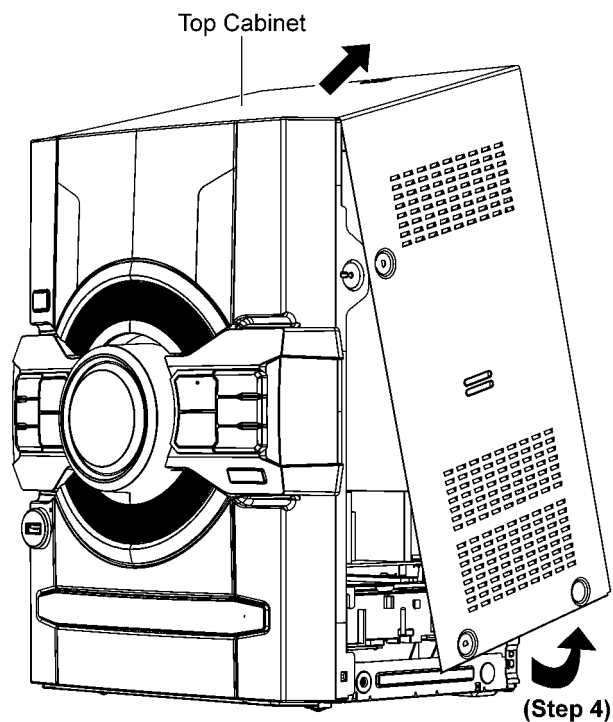


Step 2 Remove 5 screws.

Step 3 Release both sides of Top Cabinet as arrow shown.



Step 4 Slightly lift up to remove Top Cabinet.

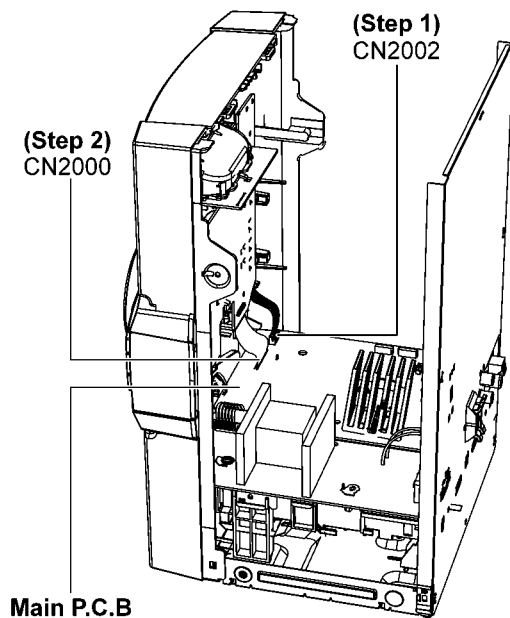


8.5. Disassembly of Front Panel Unit

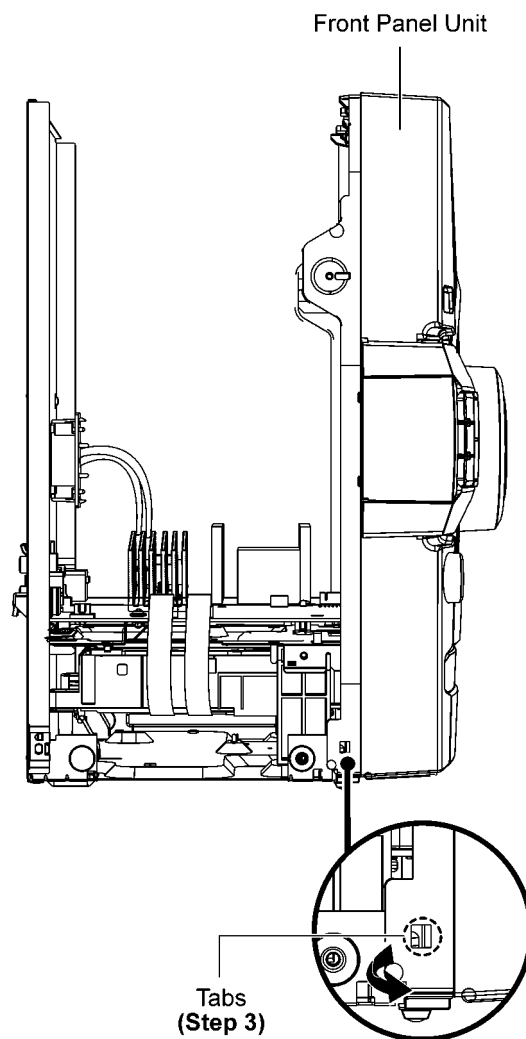
• Refer to “Disassembly of Top Cabinet”.

Step 1 Detach 5P Wire at connector (CN2002) on Main P.C.B.

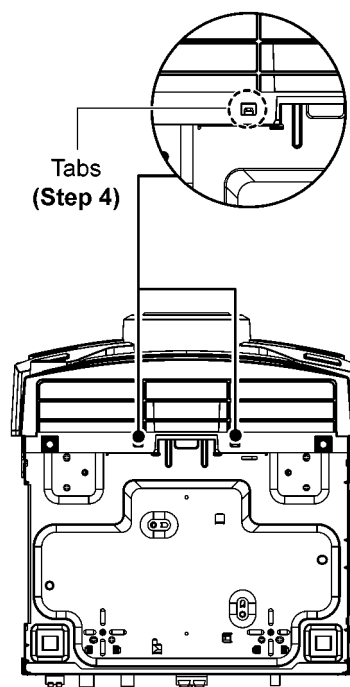
Step 2 Detach 17P FFC at connector (CN2000) on Main P.C.B.



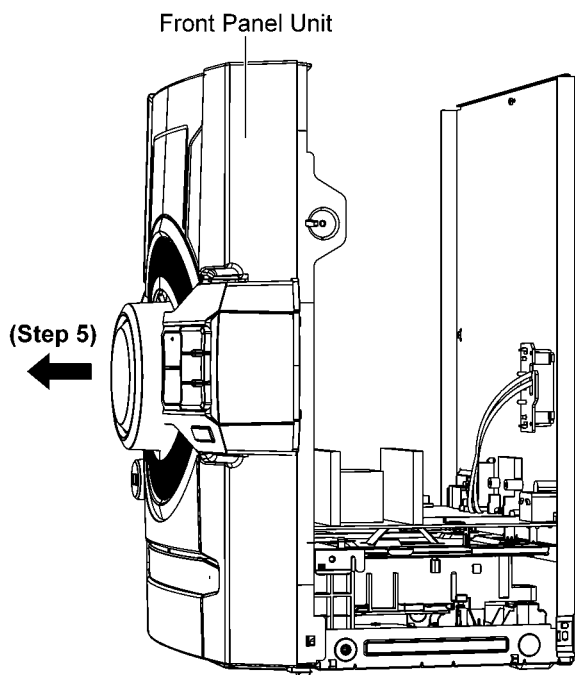
Step 3 Release tabs on both sides of Front Panel Unit.



Step 4 Release tabs at bottom of unit.



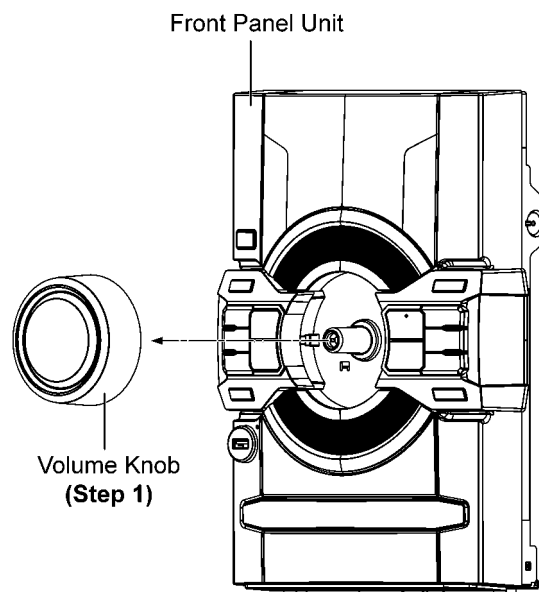
Step 5 Detach to remove Front Panel Unit



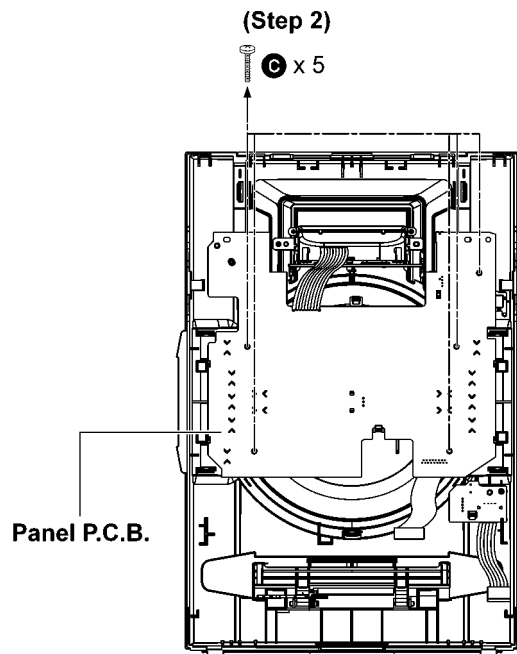
8.6. Disassembly of Panel P.C.B. and LCD P.C.B.

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

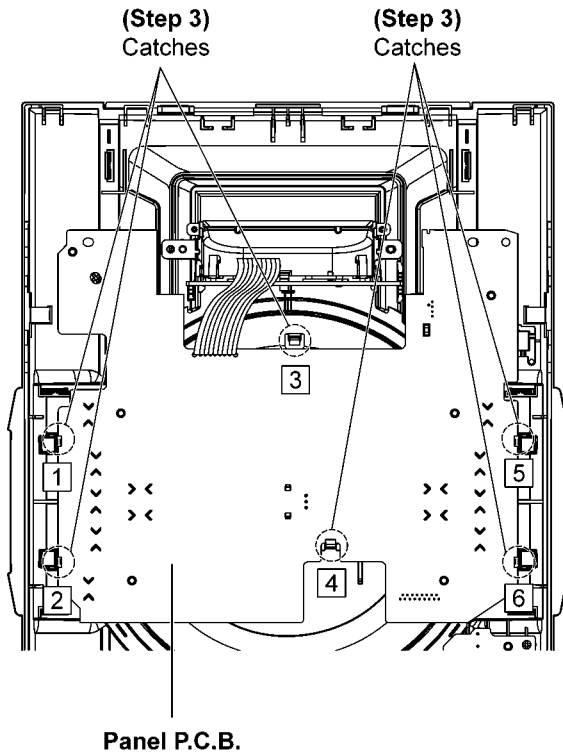
Step 1 Remove Volume Knob.



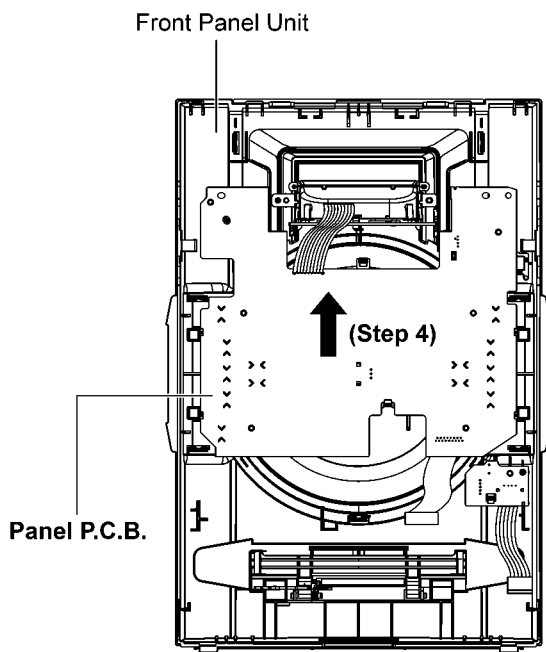
Step 2 Remove 5 screws.



Step 3 Release catches in sequences (1-6).

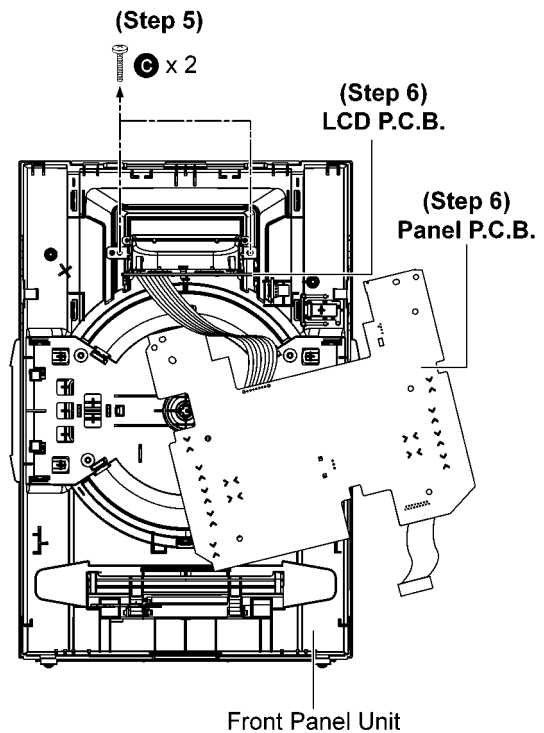


Step 4 Slightly lift up Panel P.C.B.



Step 5 Remove 2 screws.

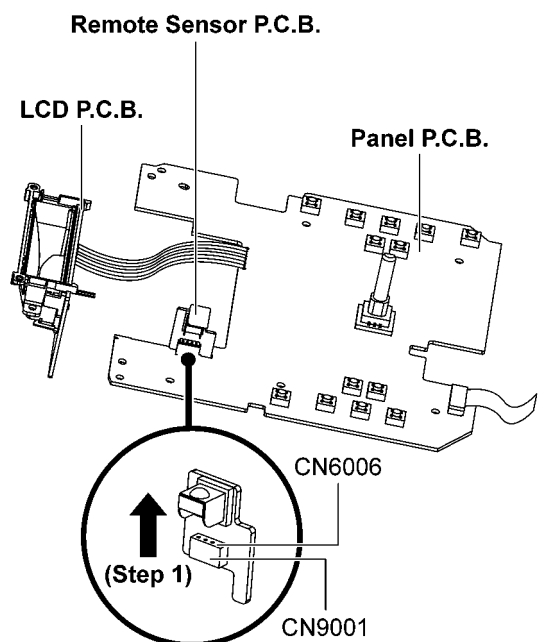
Step 6 Remove Panel P.C.B. and LCD P.C.B..



8.7. 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. and LCD P.C.B.."

Step 1 Remove Remote Sensor P.C.B.



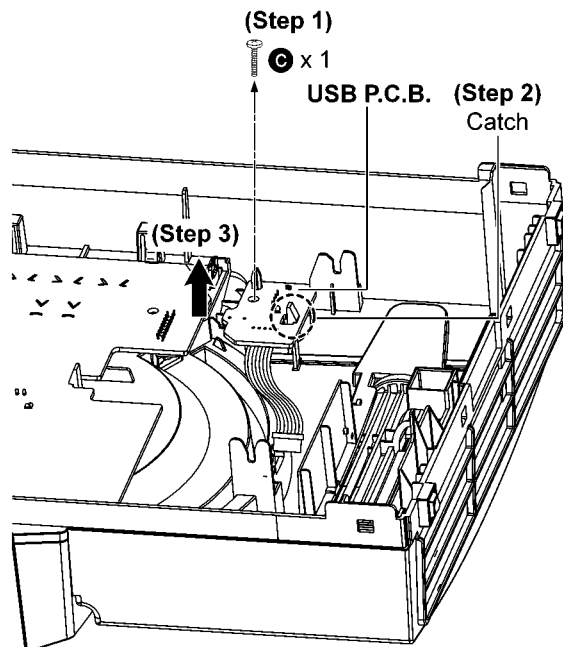
8.8. Disassembly of USB P.C.B.

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

Step 1 Remove screw.

Step 2 Release catch.

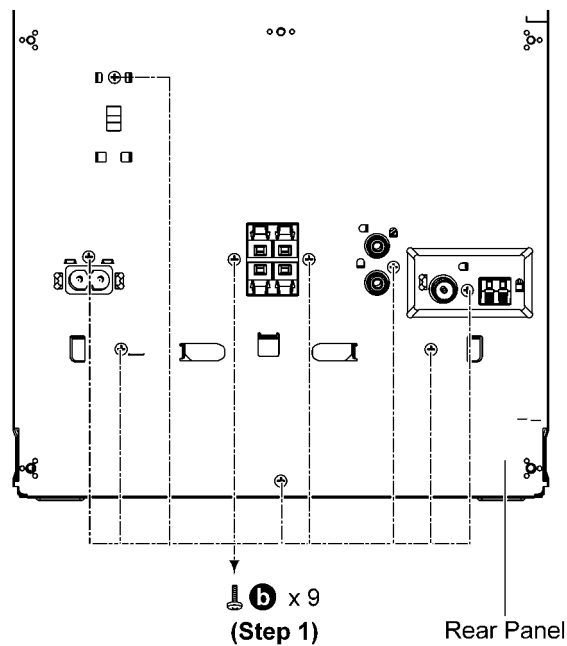
Step 3 Remove USB P.C.B..



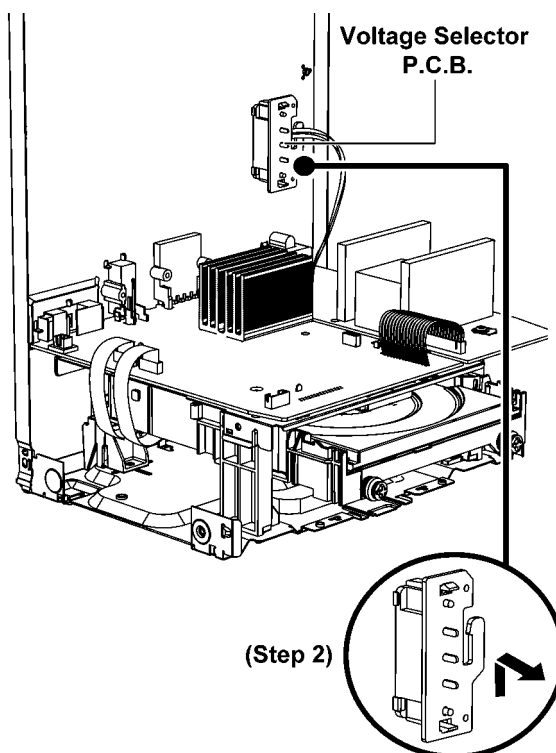
8.9. Disassembly of Rear Panel.

- Refer to “Disassembly of Top Cabinet”.

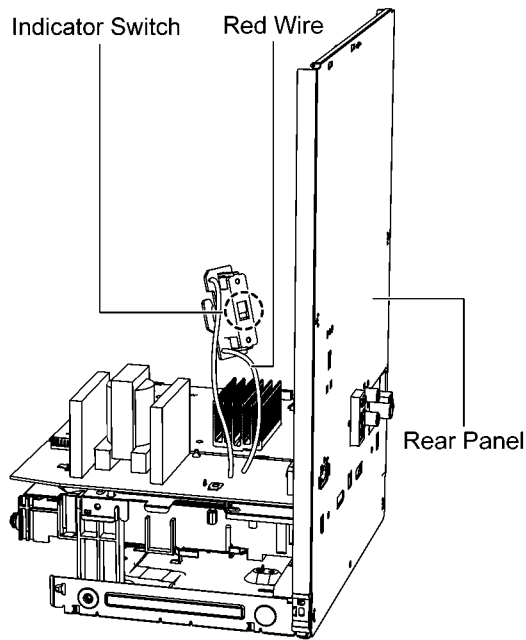
Step 1 Remove 9 screws.



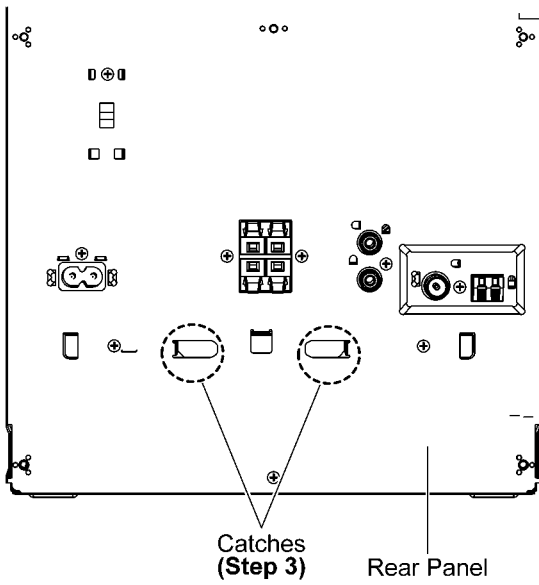
Step 2 Detach Voltage Selector P.C.B. from Rear Panel.



Caution: During assembling, ensure that Indicator Switch is moved to Red Wire.

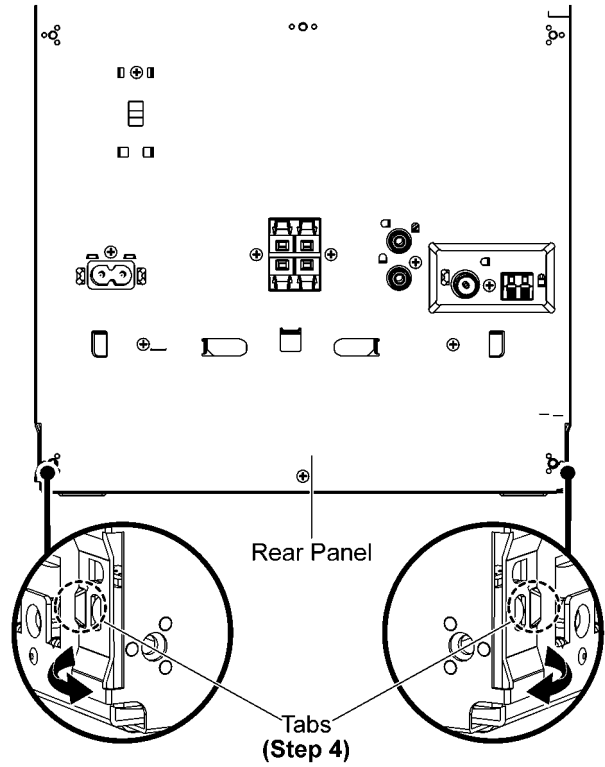


Step 3 Lift up to detach Inner Chassis Unit.



Step 4 Release tabs.

Step 5 Remove Rear Panel.



8.10. Disassembly of Main P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Rear Panel”.

Step 1 Detach 5P Wire at connector (CN2002) on Main P.C.B..

Step 2 Detach 17P FFC at connector (CN2000) on Main P.C.B..

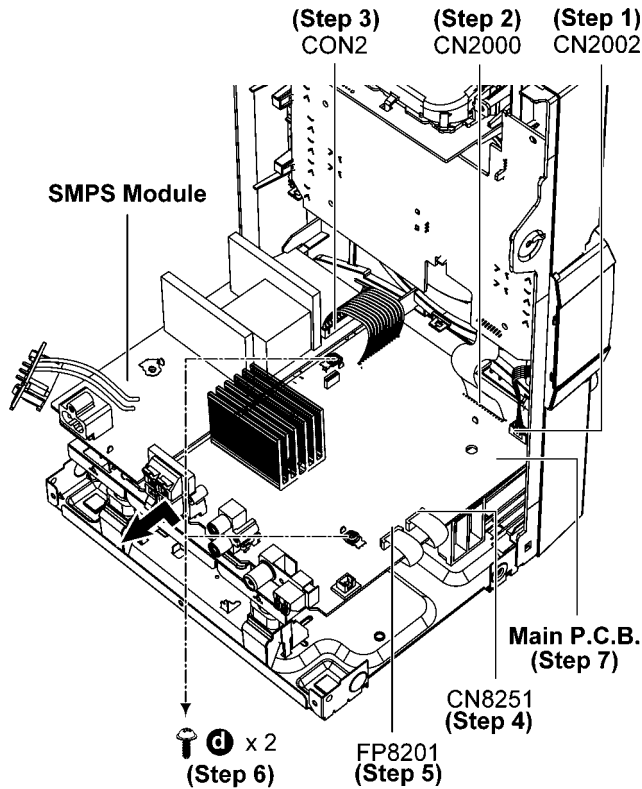
Step 3 Detach 13P Wire at connector (CON2) on SMPS Module.

Step 4 Detach 10P FFC at connector (CN8251) on Main P.C.B..

Step 5 Detach 24P FFC at connector (FP8201) on Main P.C.B..

Step 6 Remove 2 screws.

Step 7 Remove Main P.C.B..



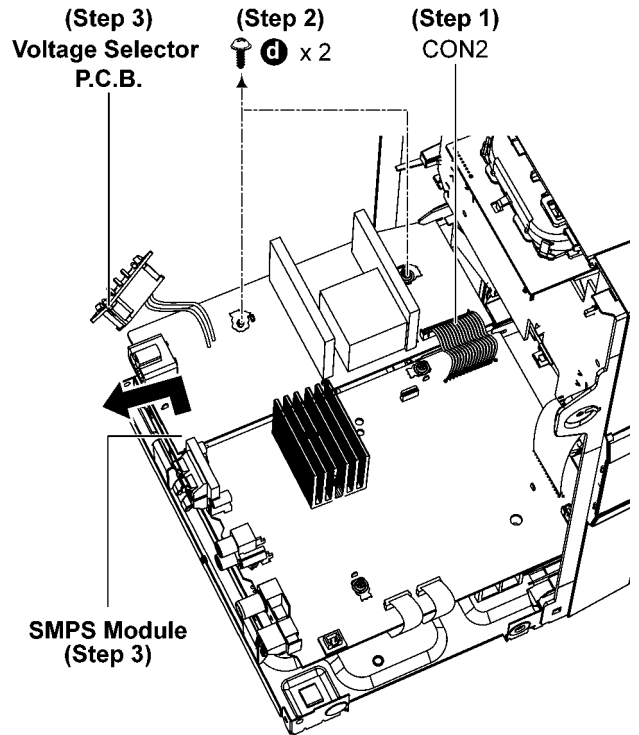
8.11. Disassembly of SMPS Module and Voltage Selector P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Rear Panel”.

Step 1 Detach 13P Wire at connector (CON2) on SMPS Module.

Step 2 Remove 2 screws.

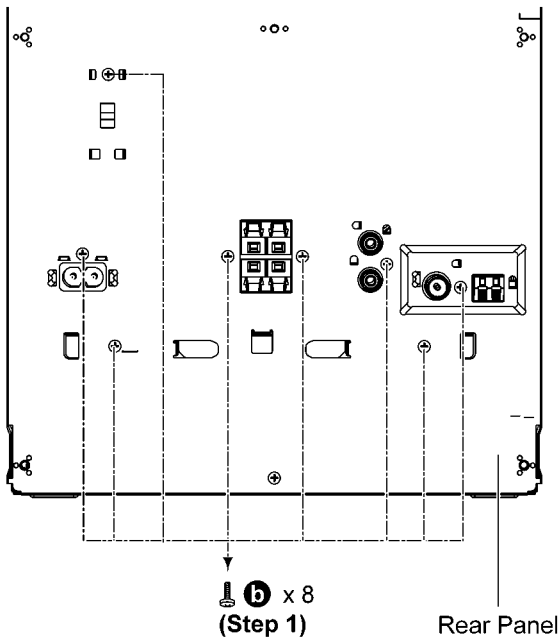
Step 3 Remove SMPS Module and Voltage Selector P.C.B..



8.12. Disassembly of CD Mechanism Unit

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

Step 1 Remove 8 screws.

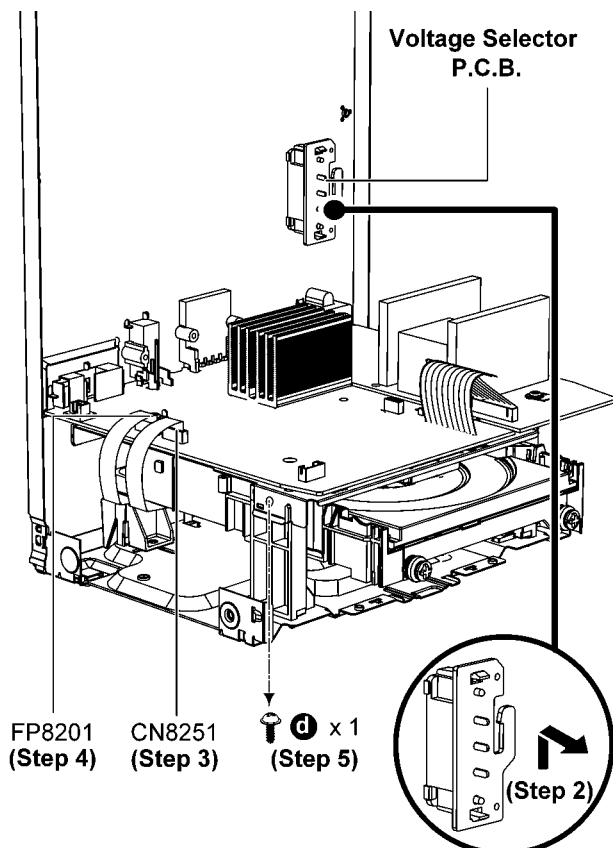


Step 2 Detach Voltage Selector P.C.B. from Rear Panel.

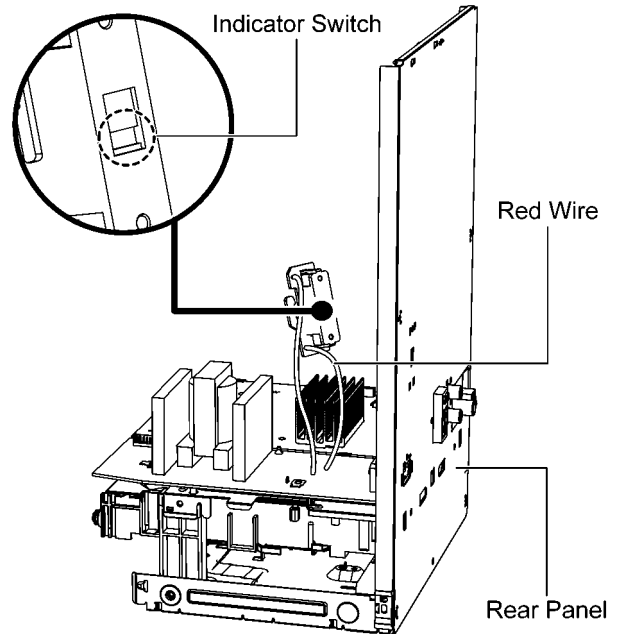
Step 3 Detach 10P FFC at connector (CN8251) on Main P.C.B..

Step 4 Detach 24P FFC at connector (FP8201) on Main P.C.B..

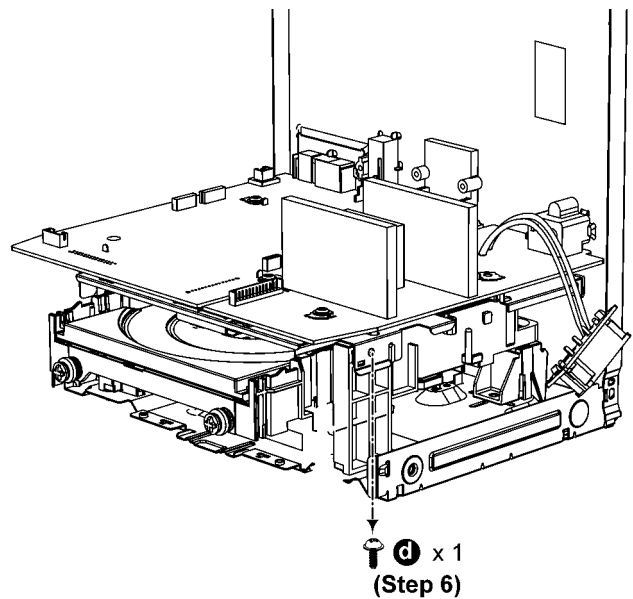
Step 5 Remove screw.



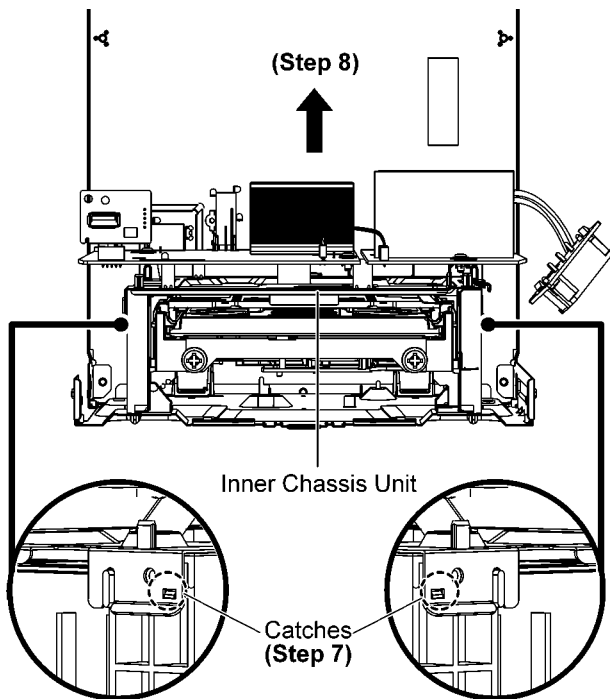
Caution: During assembling, ensure that Indicator Switch is moved to Red Wire.



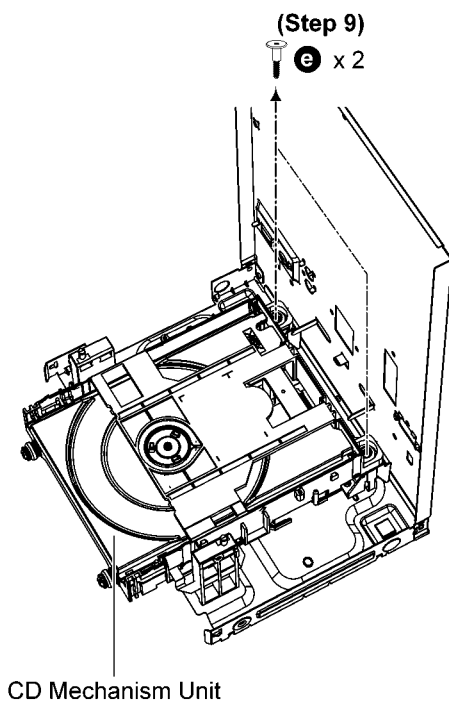
Step 6 Remove screw.



Step 7 Release catches.
Step 8 Lift up to remove Inner Chassis Unit..



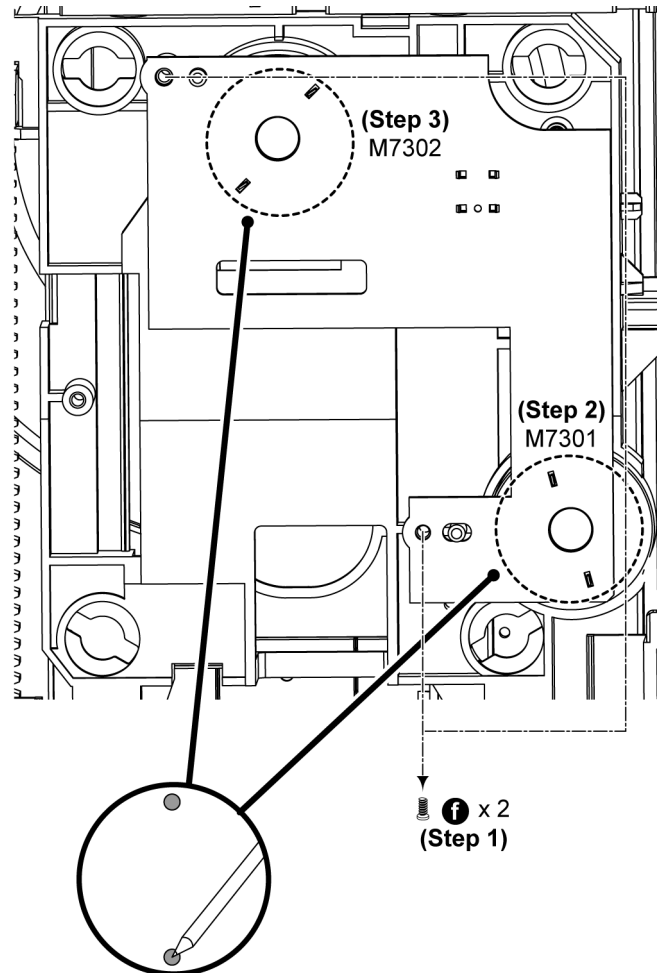
Step 9 Remove 2 screws.
Step 10 Remove CD Mechanism Unit.



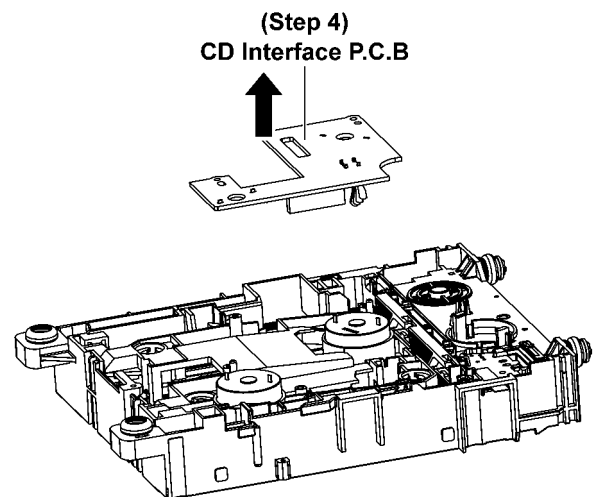
8.13. Disassembly of CD Interface P.C.B.

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

Step 1 Remove 2 screws.
Step 2 Desolder pins of the motor (M7301).
Step 3 Desolder pins of the motor (M7302).



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



9 Service Position

Note: For description of the disassembly procedures, see the Section 8.

9.1. Checking of Panel P.C.B. and LCD P.C.B.

Step 1 Remove Top Cabinet.

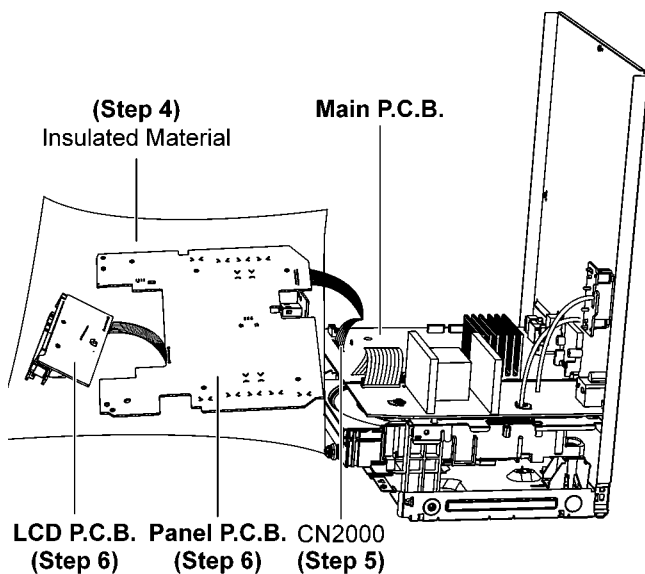
Step 2 Remove Front Panel Unit.

Step 3 Remove Panel P.C.B. and LCD P.C.B..

Step 4 Place Panel P.C.B. and LCD P.C.B. on the insulated material.

Step 5 Attach 17P FFC at connector (CN2000) on Main P.C.B. to Panel P.C.B..

Step 6 Panel P.C.B. and LCD P.C.B. can be checked at diagram shown.



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

Step 1 Remove Top Cabinet.

Step 2 Remove Front Panel Unit.

Step 3 Remove Rear Panel.

Step 4 Remove Main P.C.B..

Step 5 Remove SMPS Module and Voltage Selector P.C.B..

Step 6 Place Main P.C.B., SMPS Module and Voltage Selector P.C.B. on the insulated material.

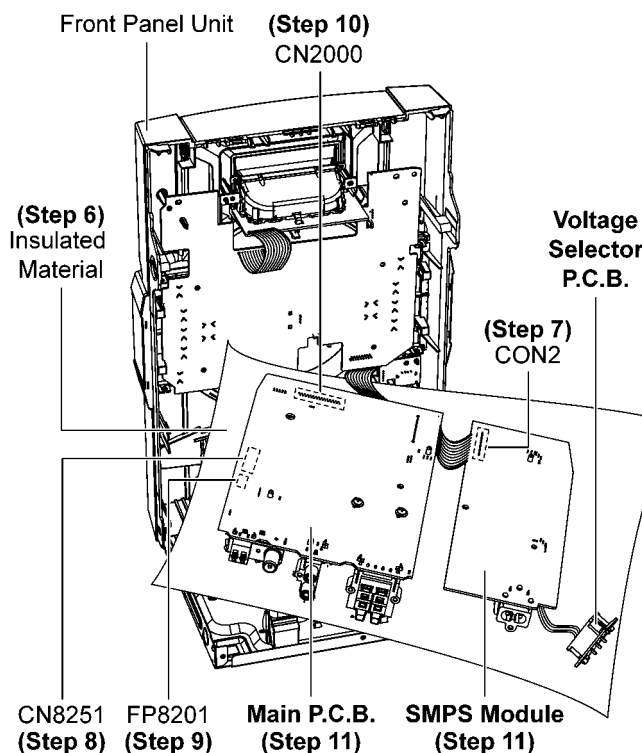
Step 7 Attach 13P Wire at connector (CON2) on SMPS Module.

Step 8 Attach 10P FFC at connector (CN8251) on Main P.C.B..

Step 9 Attach 24P FFC at connector (FP8201) on Main P.C.B..

Step 10 Attach 17P FFC at connector (CN2000) on Main P.C.B..

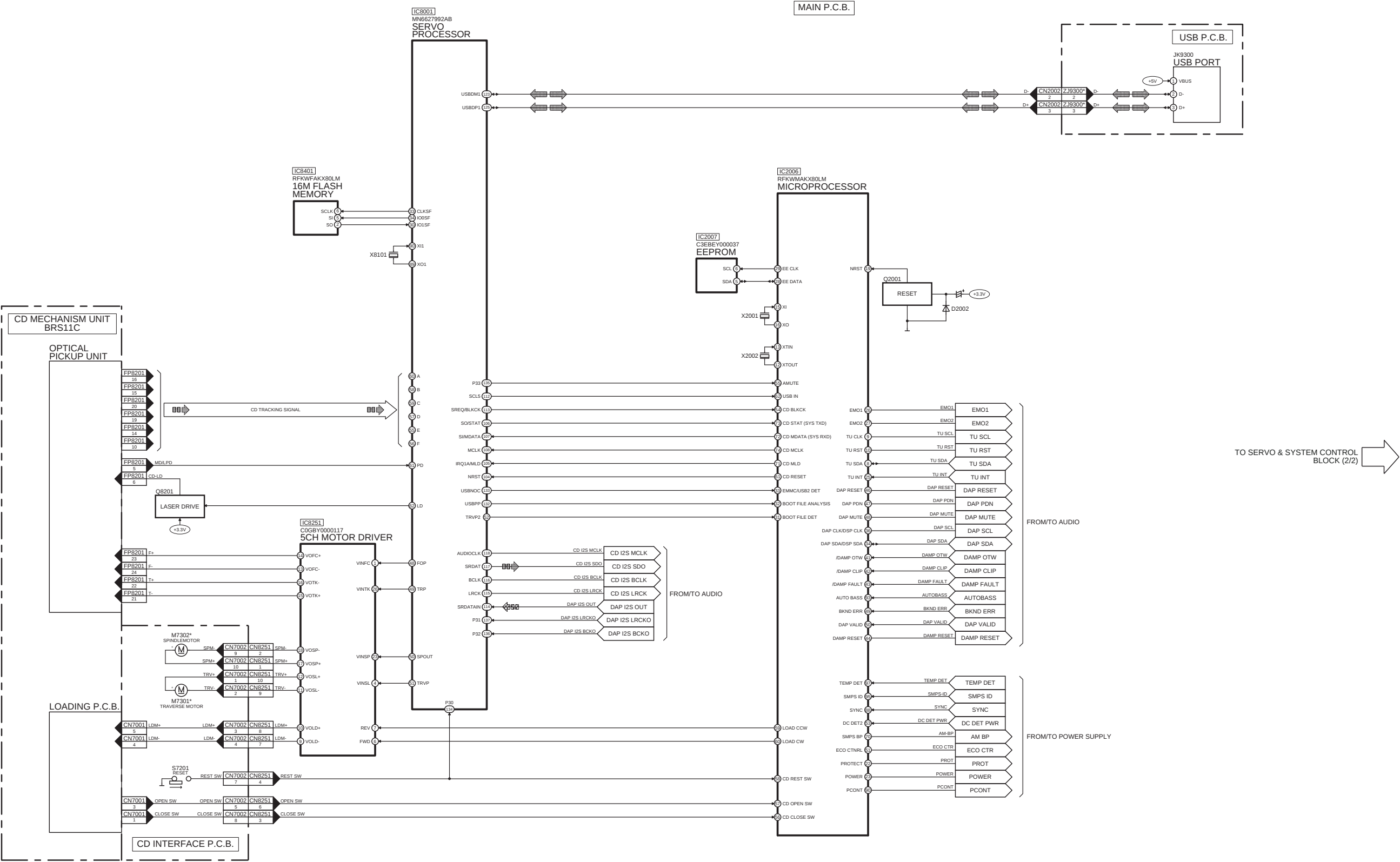
Step 11 Main P.C.B. and SMPS Module can be checked at diagram shown.



10 Block Diagram

10.1. Servo and System Control

CD INPUT SIGNAL LINE AUDIO OUTPUT SIGNAL LINE USB SIGNAL LINE

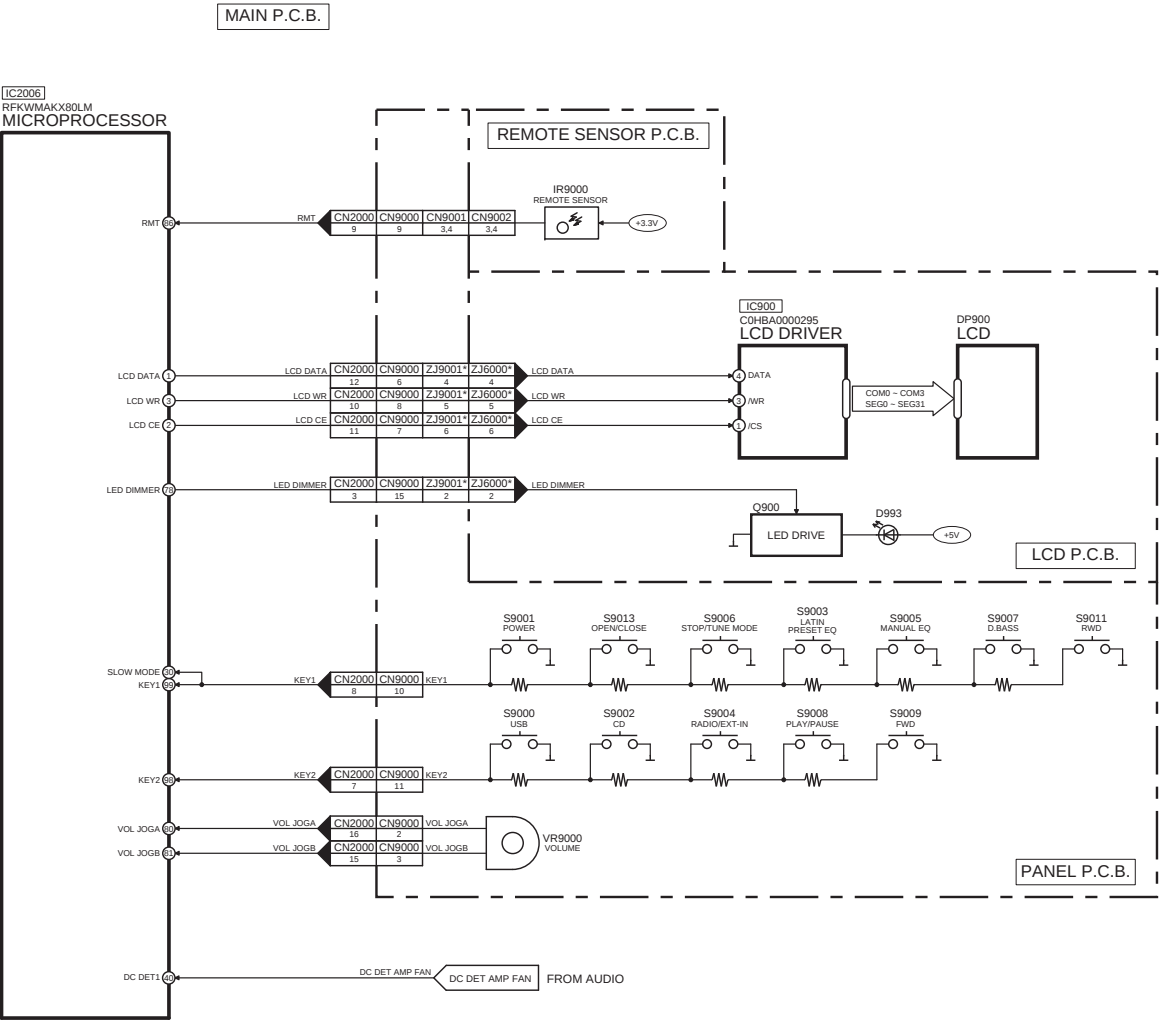


NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX80PN/PS SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM

CD INPUT SIGNAL LINE AUDIO OUTPUT SIGNAL LINE USB SIGNAL LINE

TO SERVO & SYSTEM CONTROL
BLOCK (1/2)

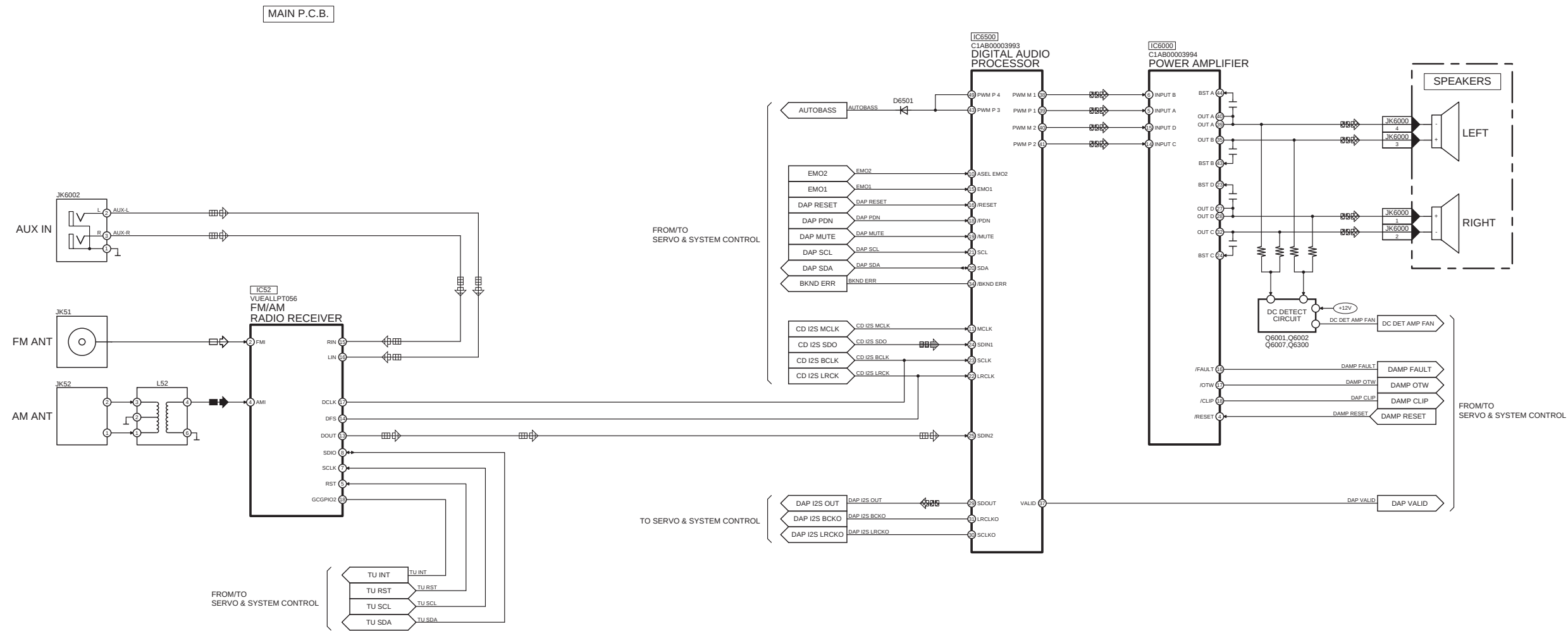


NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX80PN/PS SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

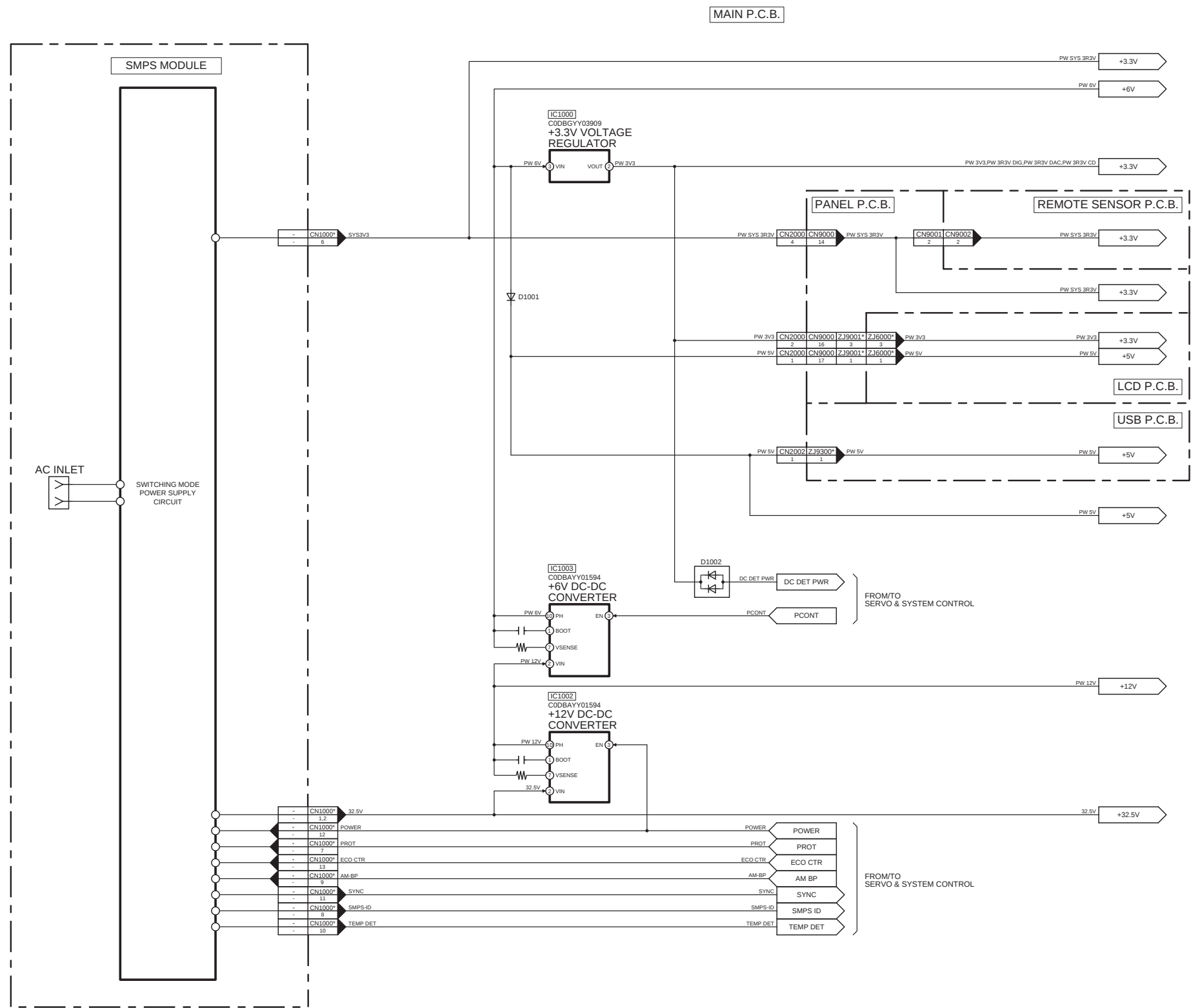
10.2. Audio

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



SA-AKX80PN/PS AUDIO BLOCK DIAGRAM

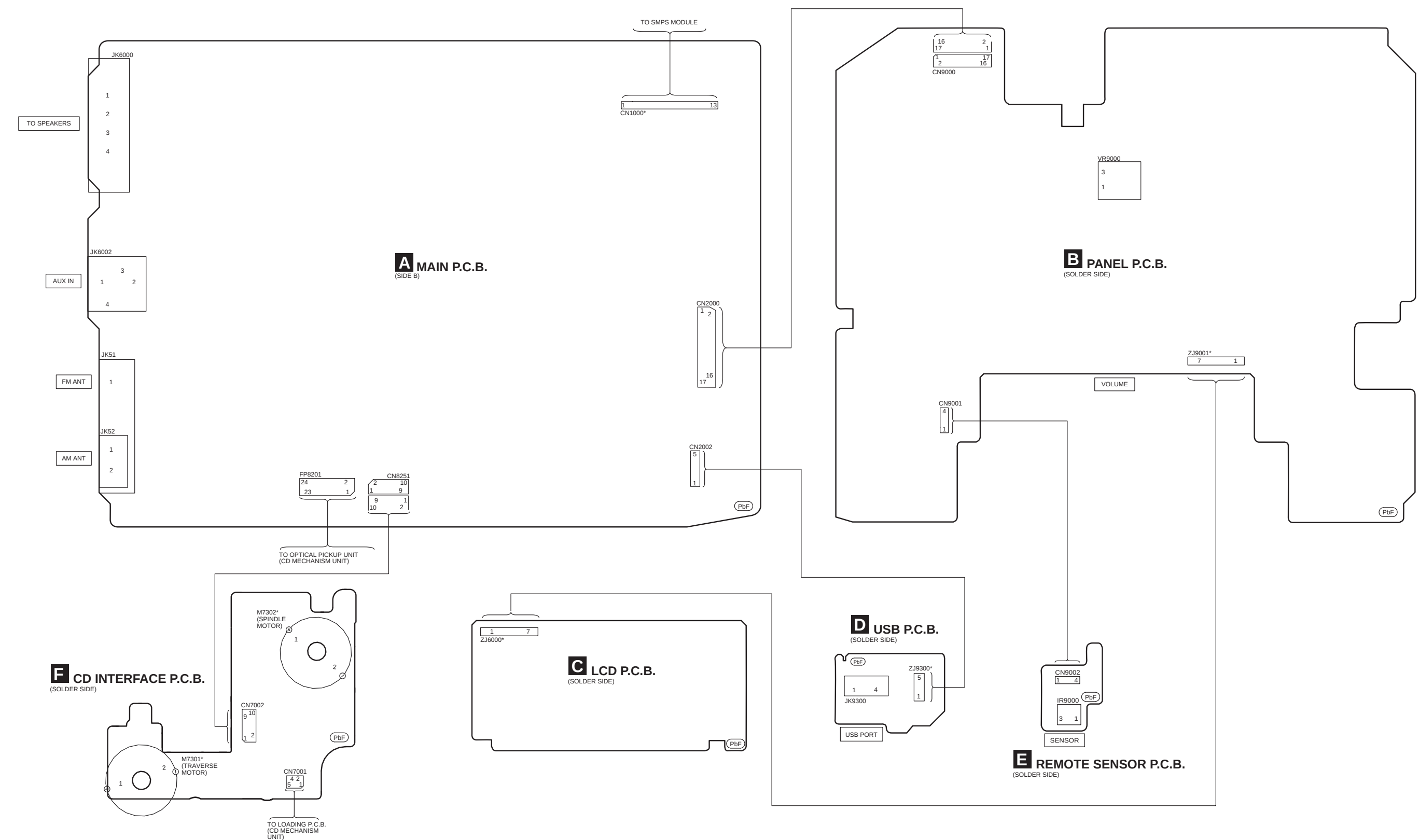
10.3. Power Supply



NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX80PN/PS POWER SUPPLY BLOCK DIAGRAM

11 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX80PN/PS WIRING CONNECTION DIAGRAM

12 Schematic Diagram

12.1. Schematic Diagram Notes

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

Notes:

S7201:	Reset switch
S9000:	USB switch.
S9001:	Power switch (⏻/⏻).
S9002:	CD switch.
S9003:	Latin Preset EQ switch.
S9004:	Radio/EXT IN switch.
S9005:	Manual EQ switch.
S9006:	Stop (■)/Tune Mode switch.
S9007:	D.Bass switch.
S9008:	Play/Pause (▶/⏸) switch.
S9009:	Forward (▶▶▶/▶▶▶) switch.
S9011:	Rewind (◀◀◀/◀◀◀) switch.
S9013:	Open/Close switch (⏏).

- Important safety notice:

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

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

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

- **Resistor**

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

- **Capacitor**

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

- **Coil**

Unit of inductance is H, unless otherwise noted.

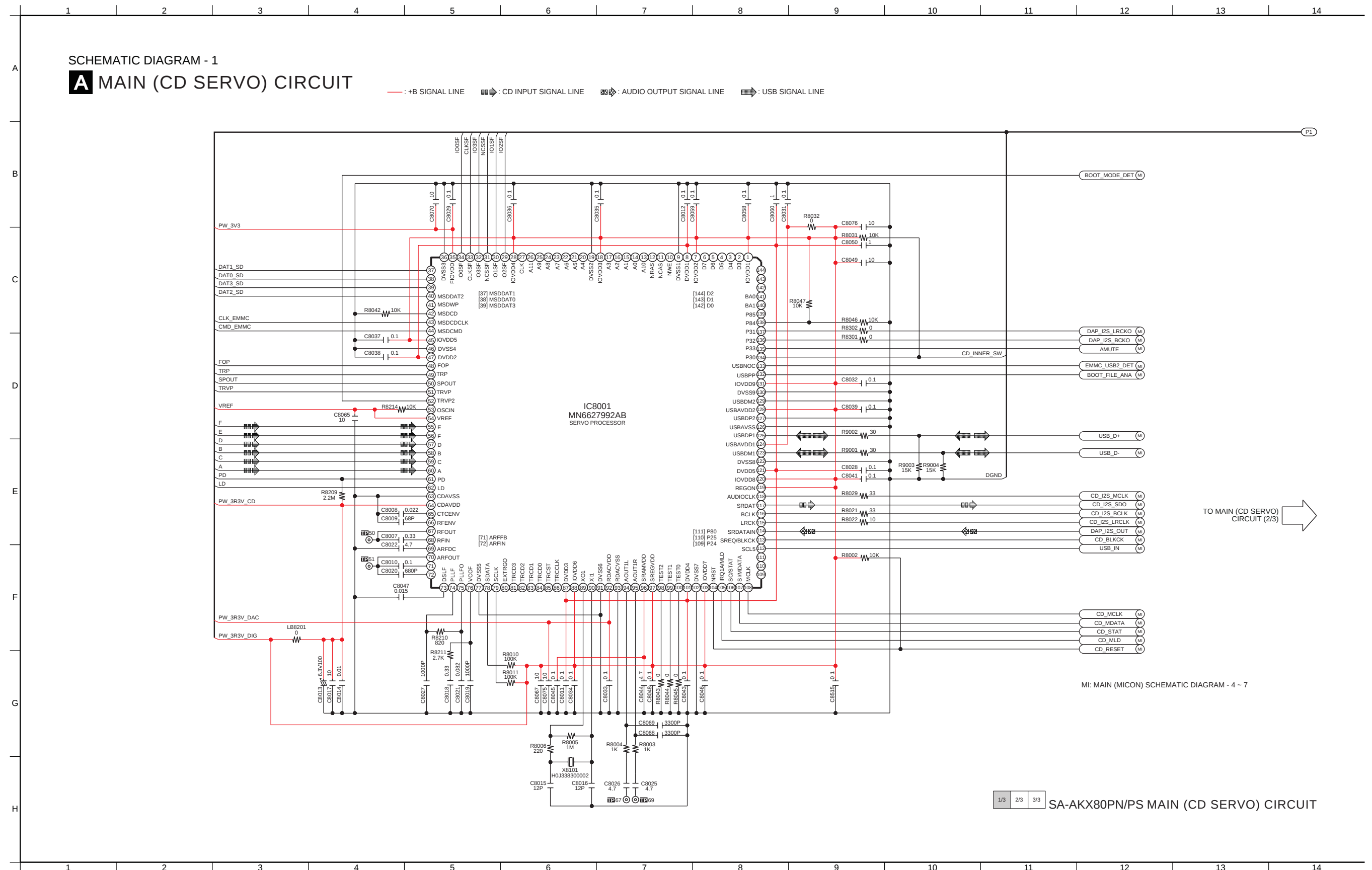
- *

REF IS FOR INDICATION ONLY.

- Voltage and signal line

	: +B signal line
	: CD Audio input signal line
	: AUX/Tuner Audio input signal line
	: Audio output signal line
	: USB signal line
	: AM signal line
	: FM signal line

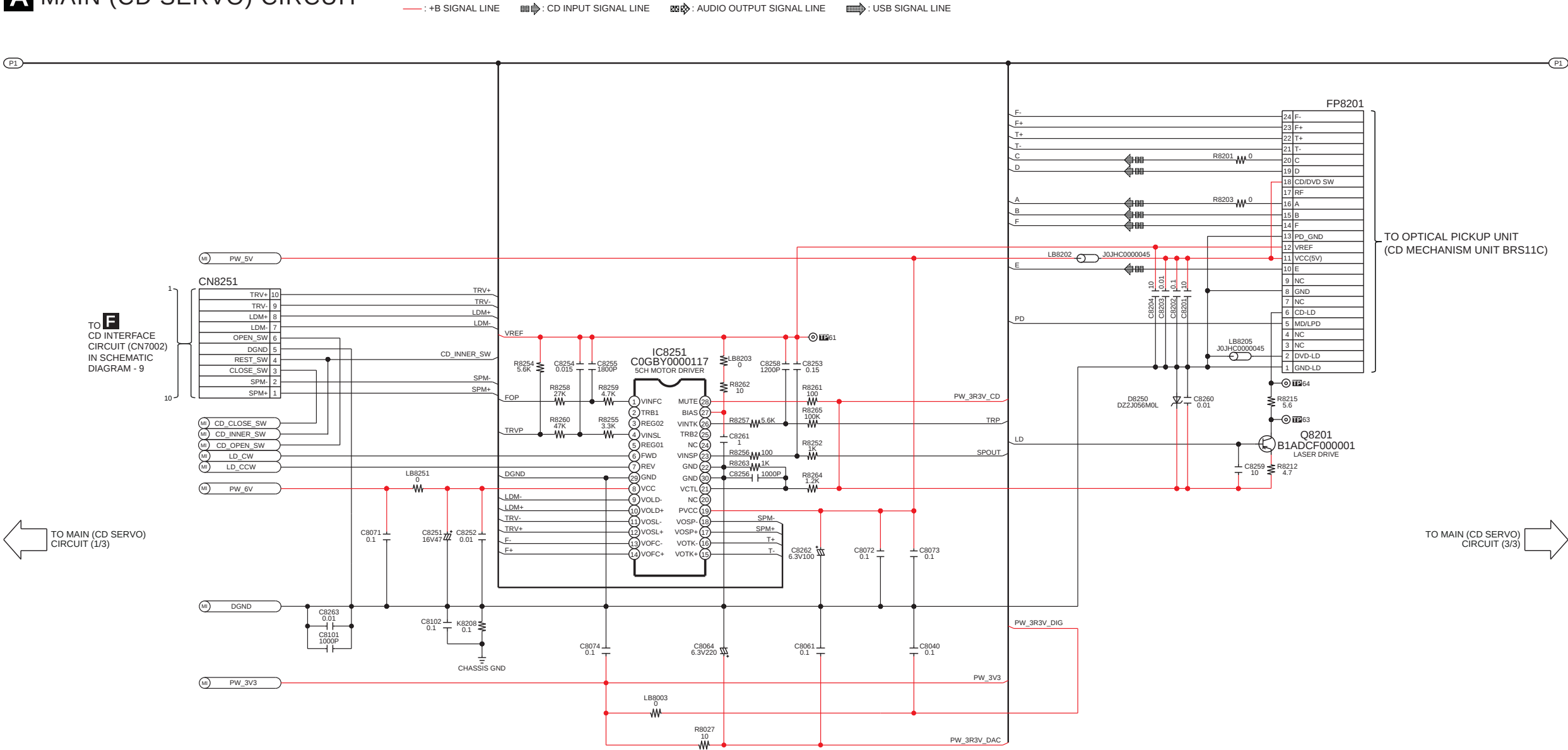
12.2. Main (CD Servo) Circuit (1/3)



12.3. Main (CD Servo) Circuit (2/3)

SCHEMATIC DIAGRAM - 2

A MAIN (CD SERVO) CIRCUIT



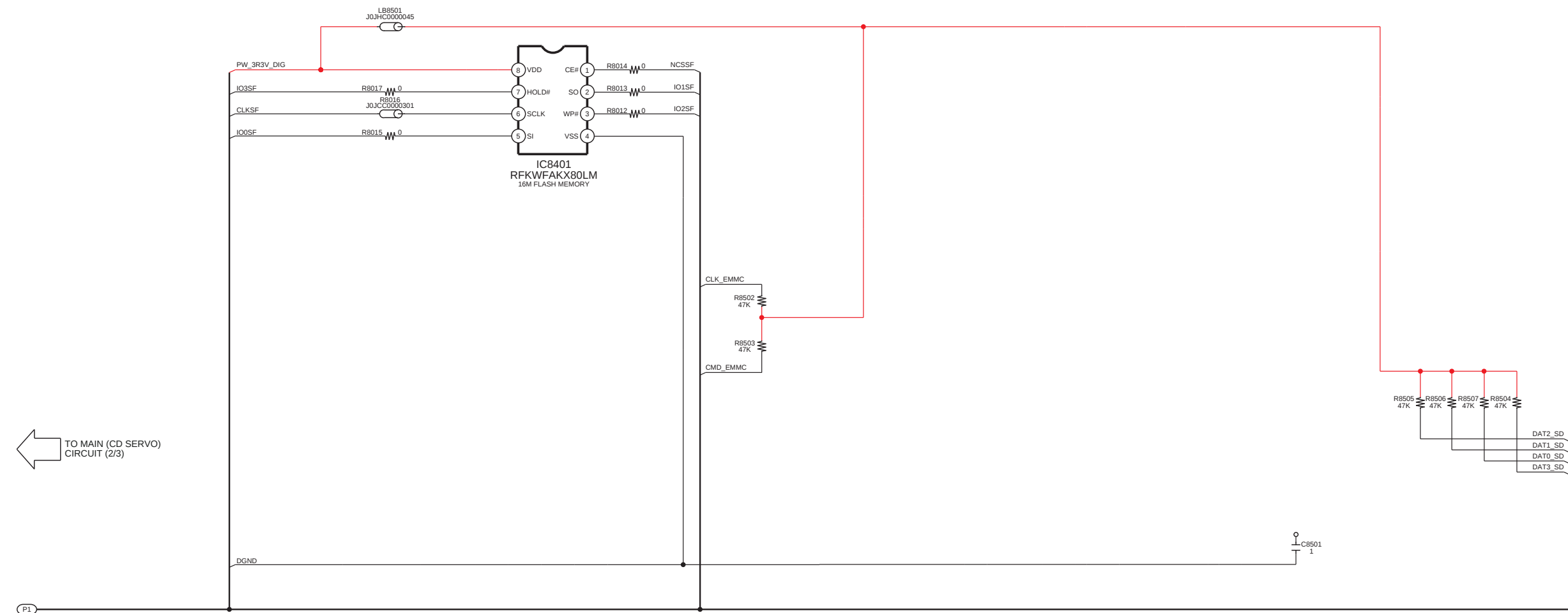
MI: MAIN (MICON) SCHEMATIC DIAGRAM - 4 ~ 7

12.4. Main (CD Servo) Circuit (3/3)

SCHEMATIC DIAGRAM - 3

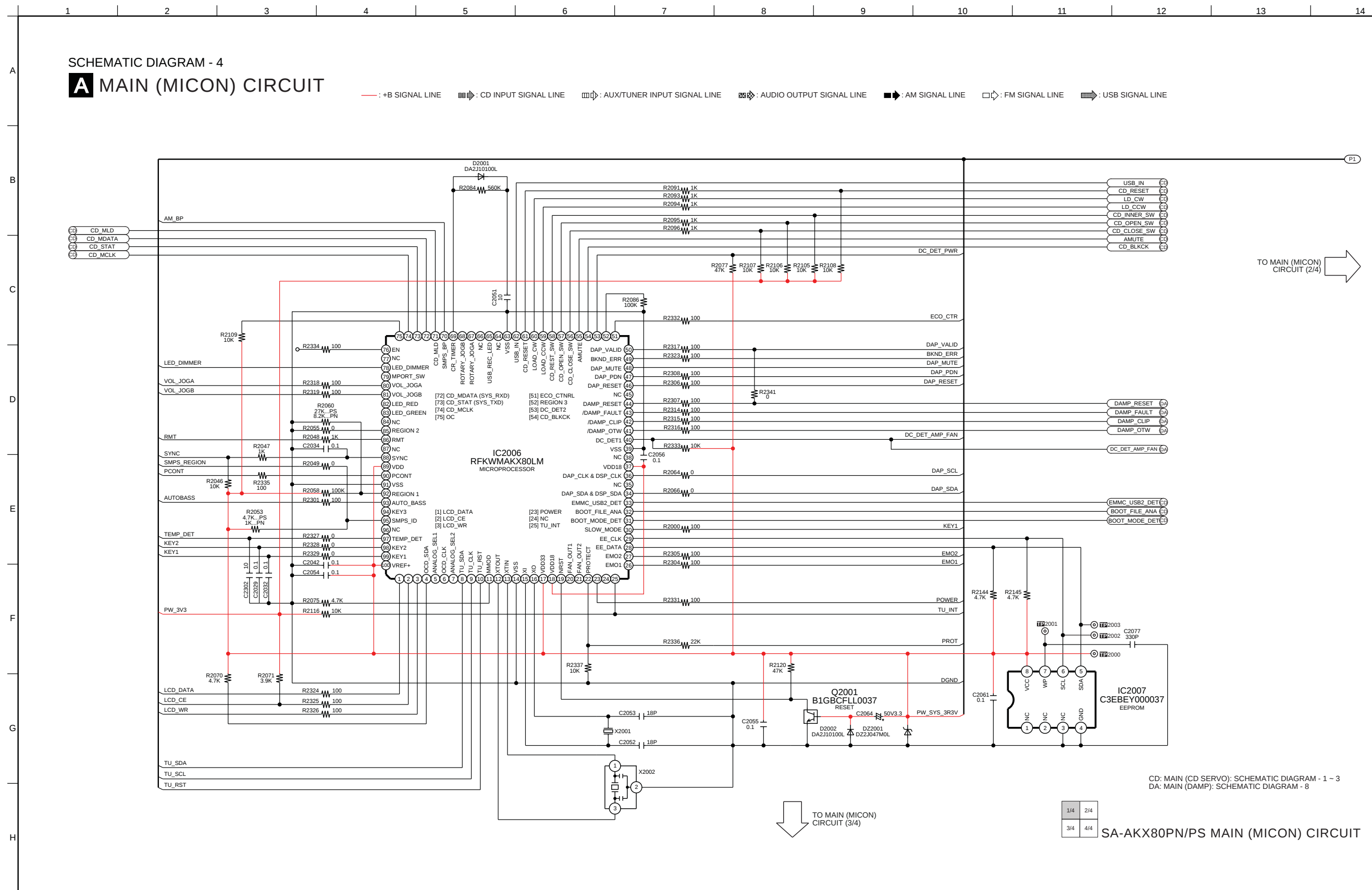
A MAIN (CD SERVO) CIRCUIT

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



1/3 2/3 3/3 SA-AKX80PN/PS MAIN (CD SERVO) CIRCUIT

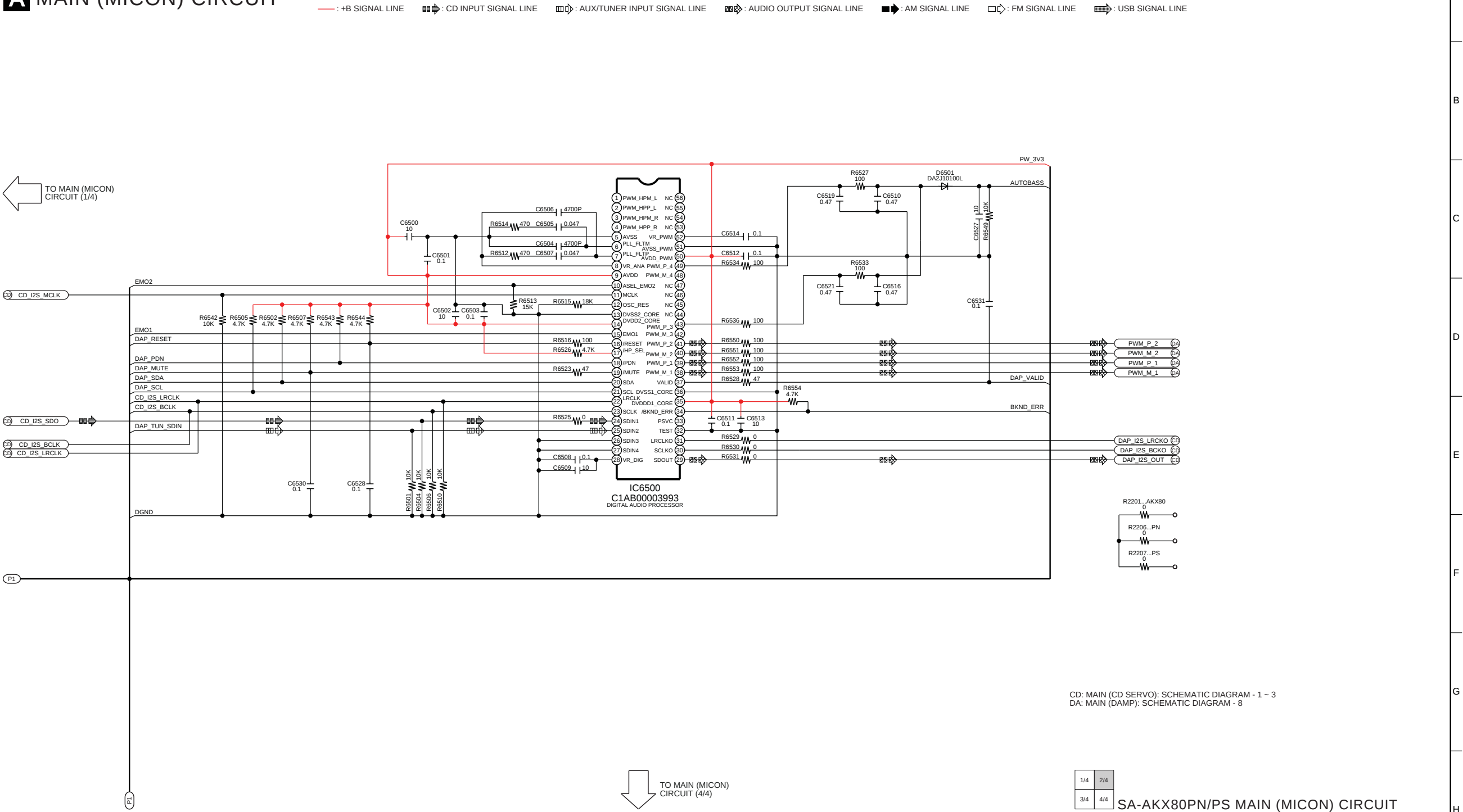
12.5. Main (Micon) Circuit (1/4)



12.6. Main (Micon) Circuit (2/4)

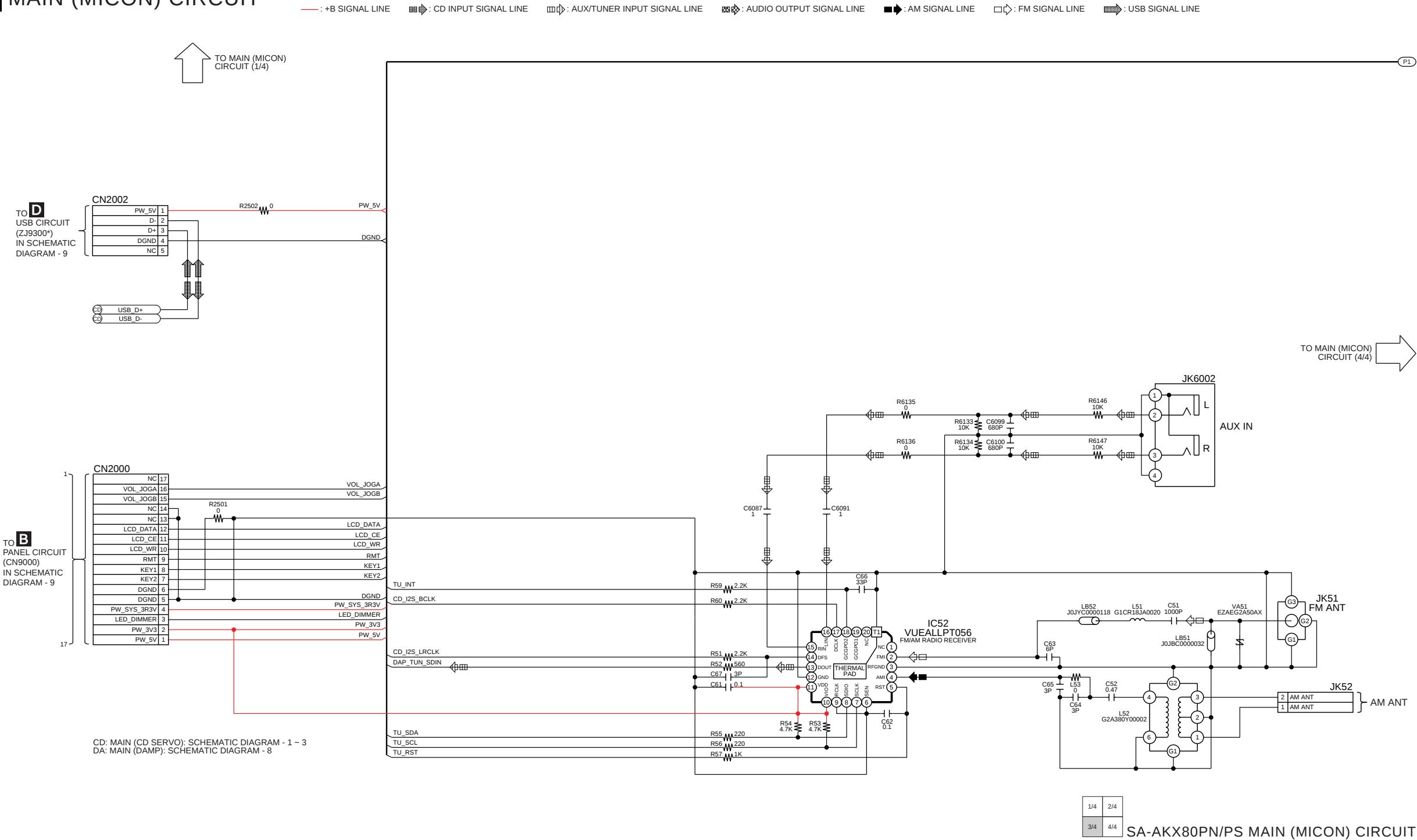
SCHEMATIC DIAGRAM - 5

A MAIN (MICON) CIRCUIT



12.7. Main (Micon) Circuit (3/4)

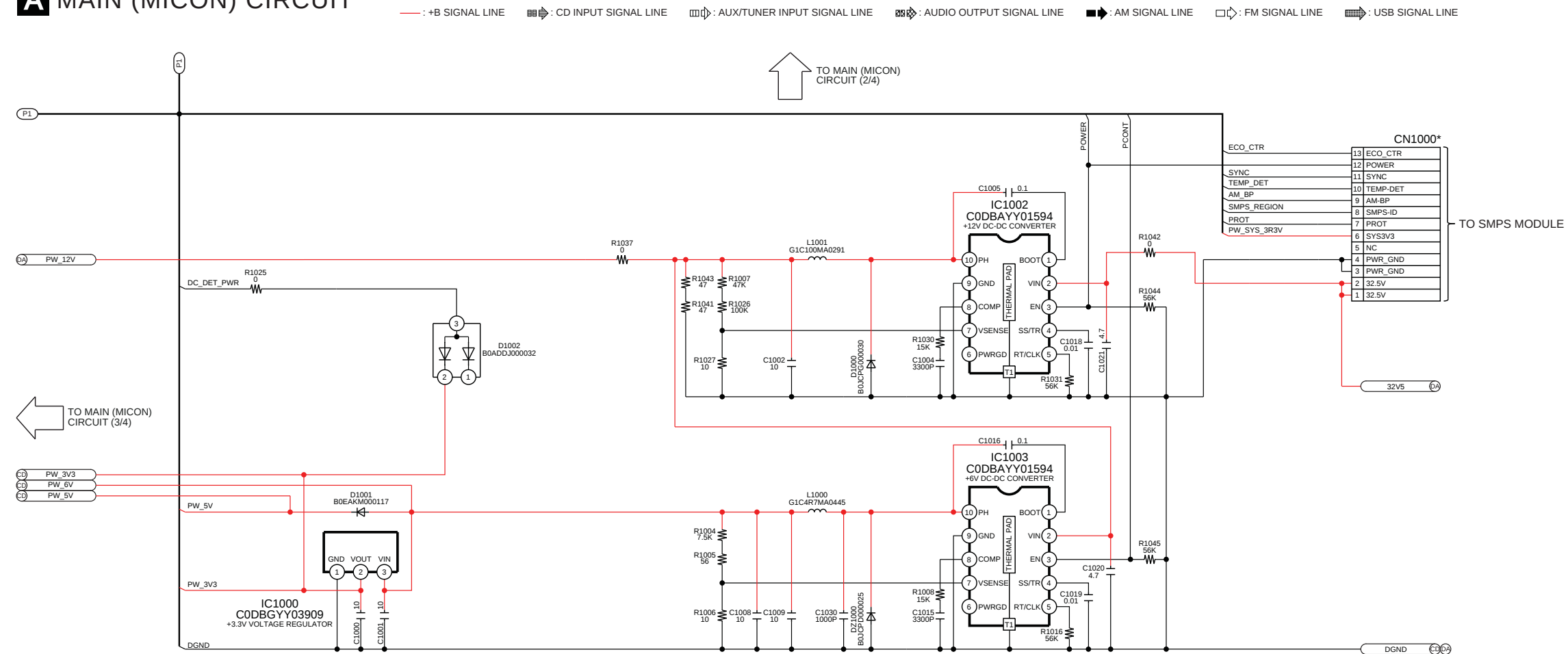
SCHEMATIC DIAGRAM - 6
A MAIN (MICON) CIRCUIT



12.8. Main (Micon) Circuit (4/4)

SCHEMATIC DIAGRAM - 7

A MAIN (MICON) CIRCUIT



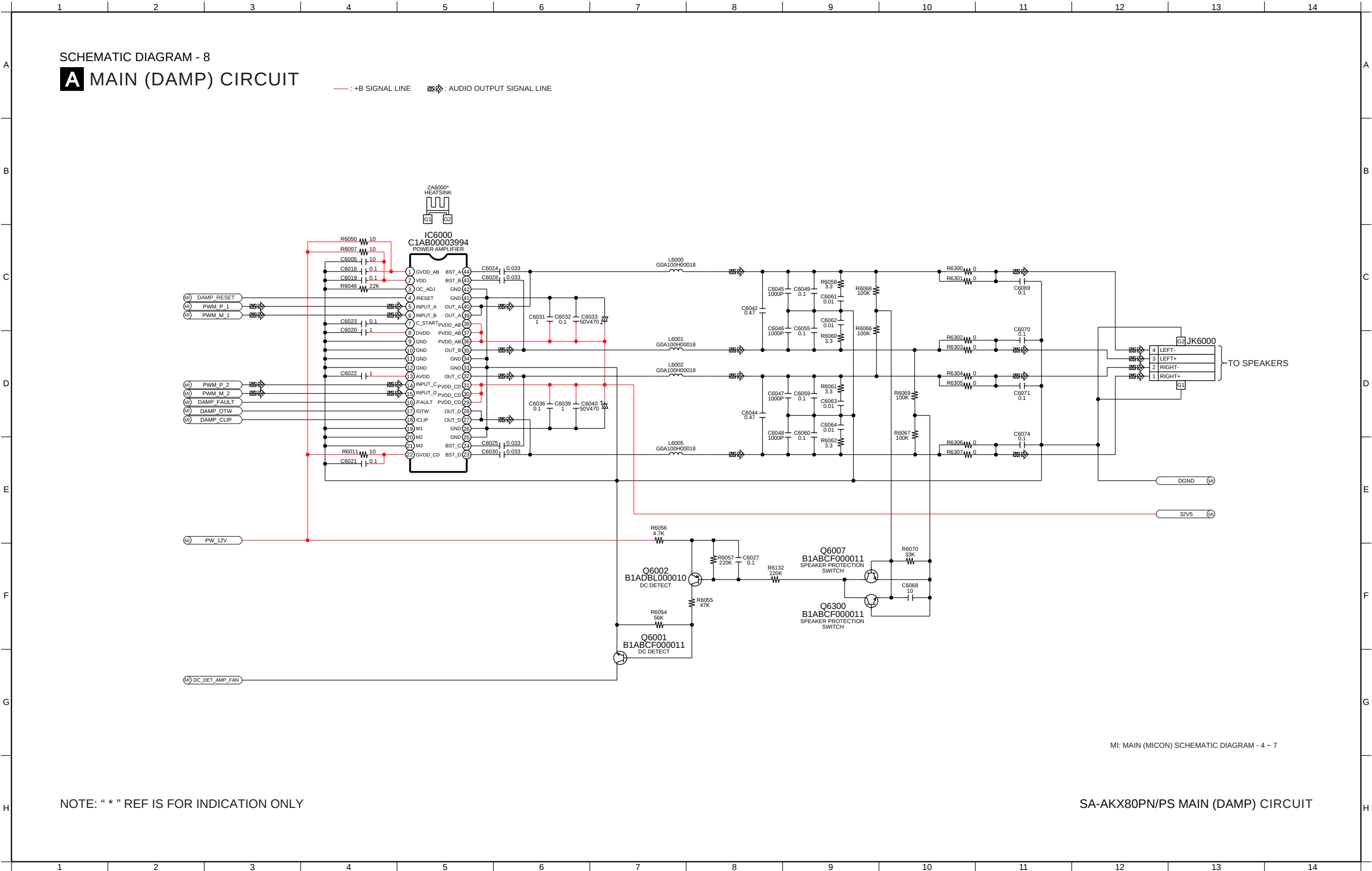
CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 3
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 8

NOTE: " * " REF IS FOR INDICATION ONLY

1/4	2/4
3/4	4/4

SA-AKX80PN/PS MAIN (MICON) CIRCUIT

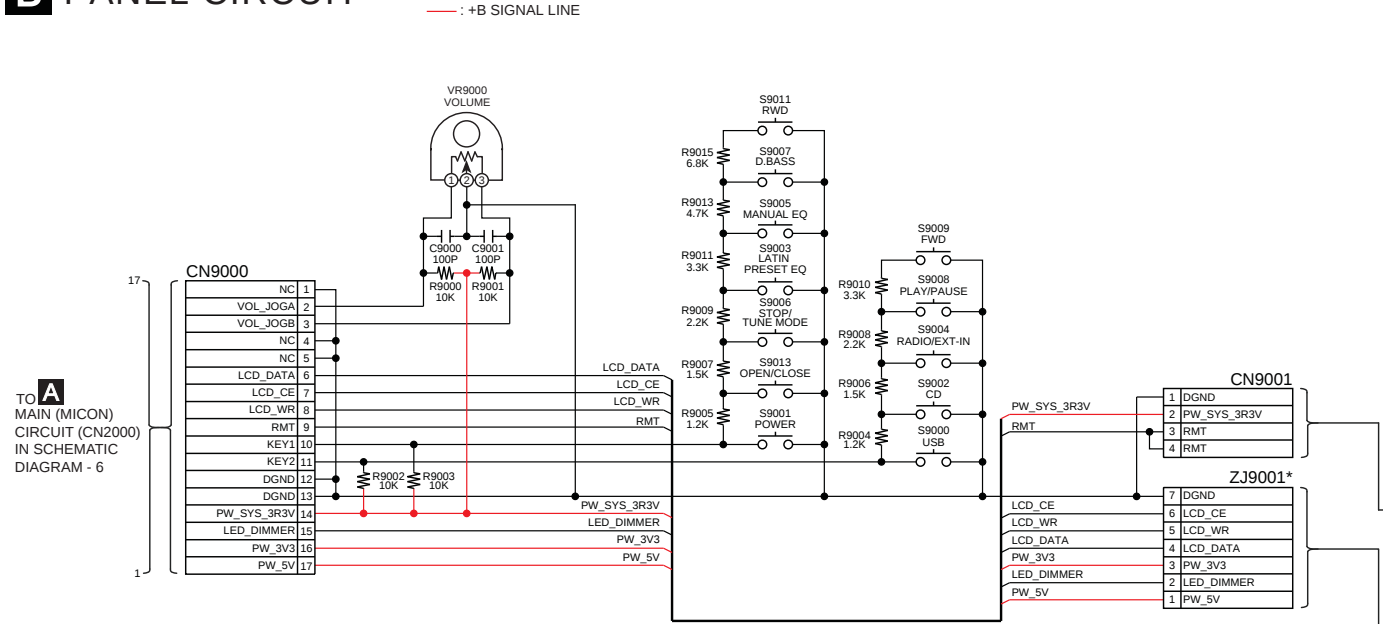
12.9. Main (Damp) Circuit



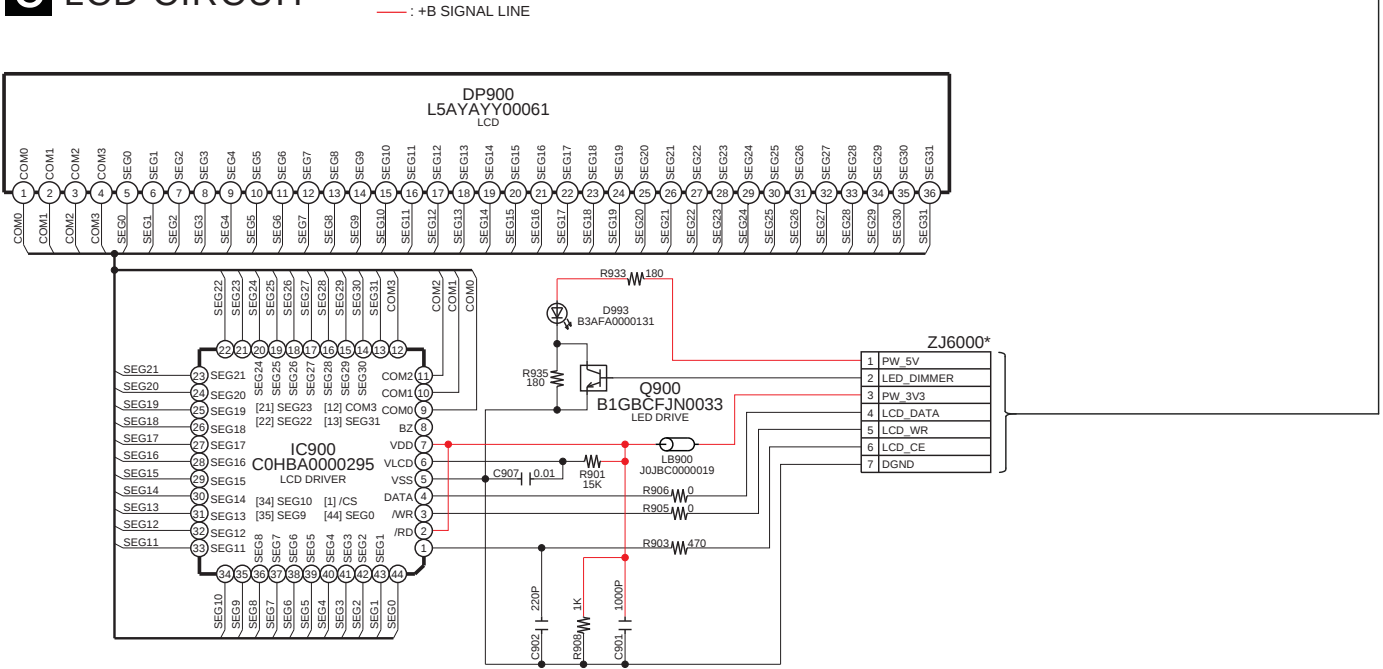
12.10. Panel, LCD, USB, Remote Sensor and CD Interface Circuit

SCHEMATIC DIAGRAM - 9

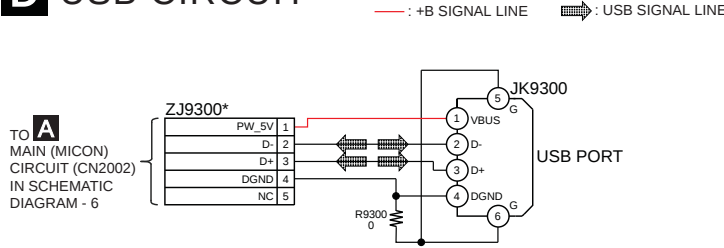
B PANEL CIRCUIT



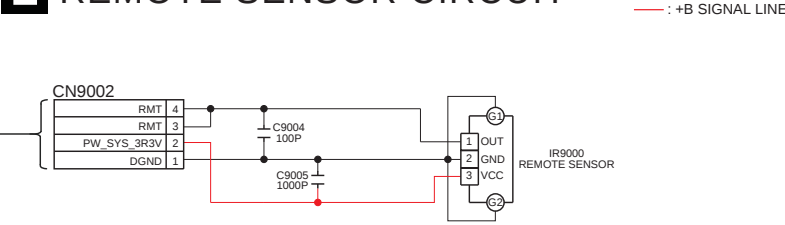
C LCD CIRCUIT



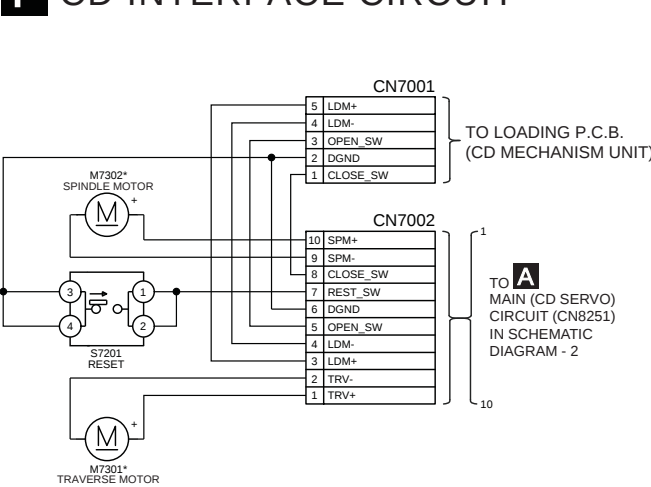
D USB CIRCUIT



E REMOTE SENSOR CIRCUIT



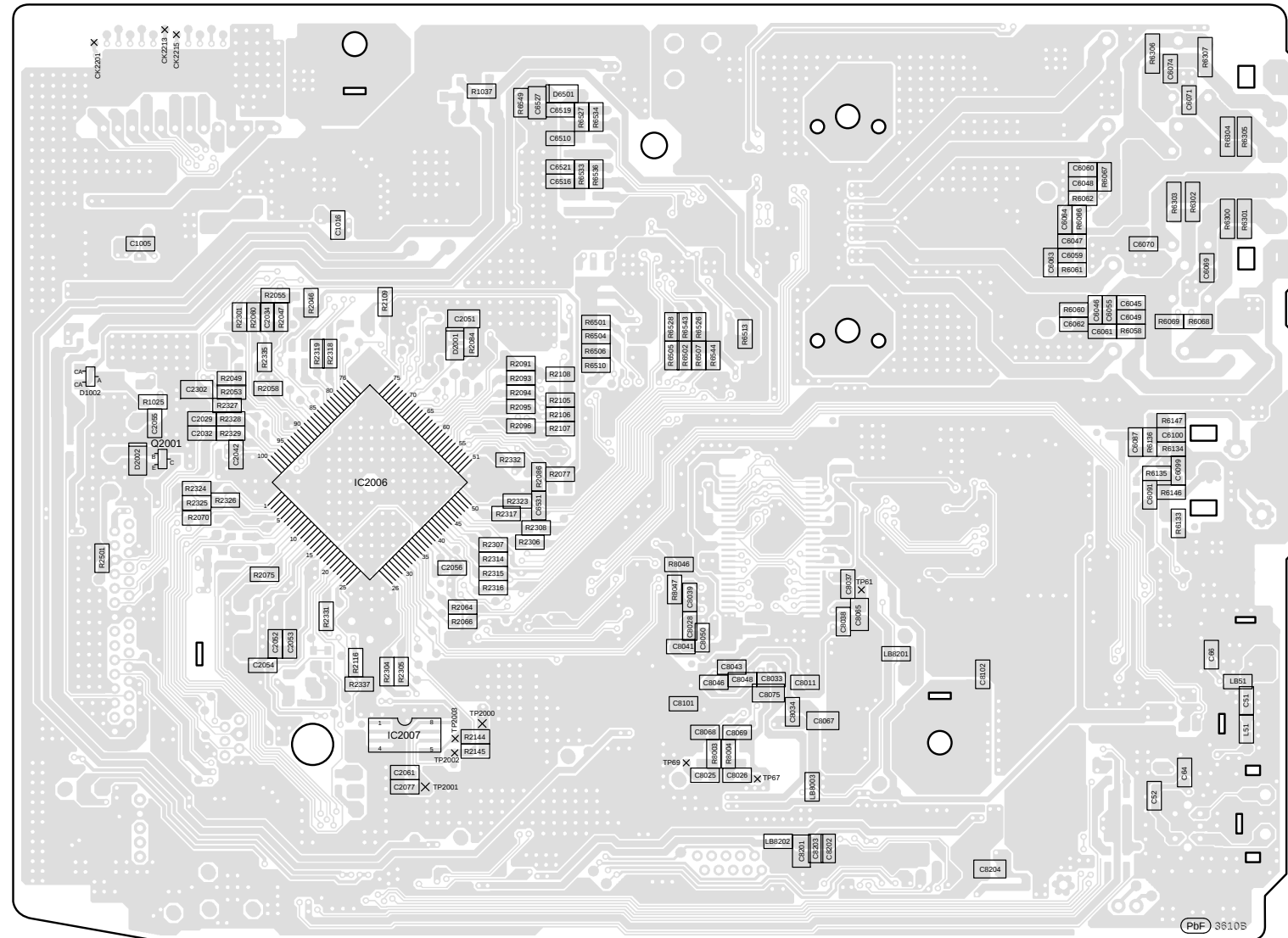
F CD INTERFACE CIRCUIT



SA-AKX80PN/PS PANEL / LCD / USB / REMOTE SENSOR / CD INTERFACE CIRCUIT

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

A MAIN P.C.B. (REP4902A...PN)
(REP4902B...PS)



(SIDE A)

SA-AKX80PN/PS
MAIN P.C.B.

H

G



E

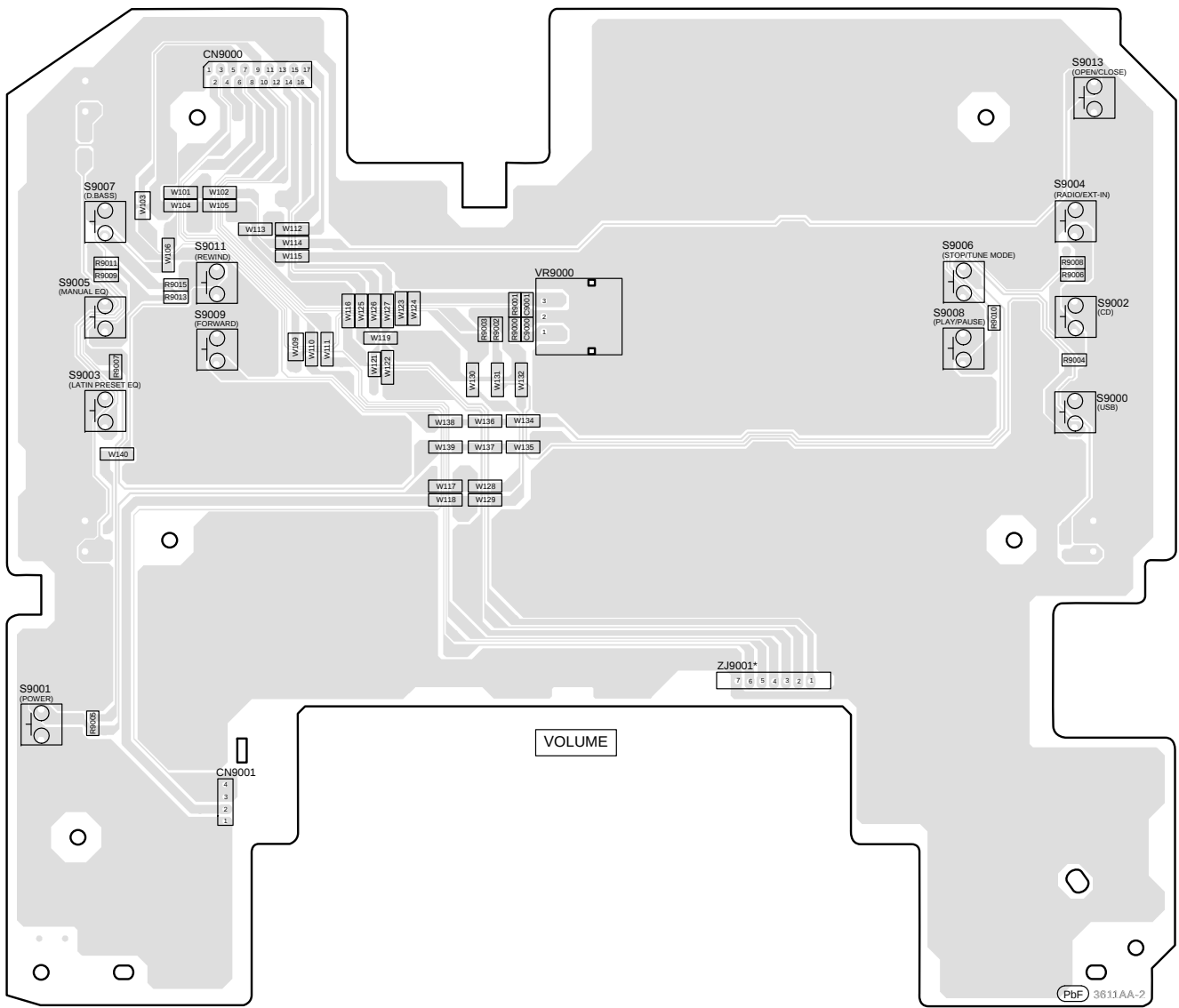
D

○

13

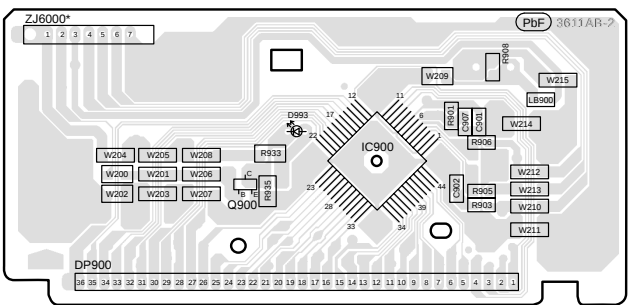
13.3. Panel, LCD, USB and Remote Sensor P.C.B.

B PANEL P.C.B. (REP4903AA)

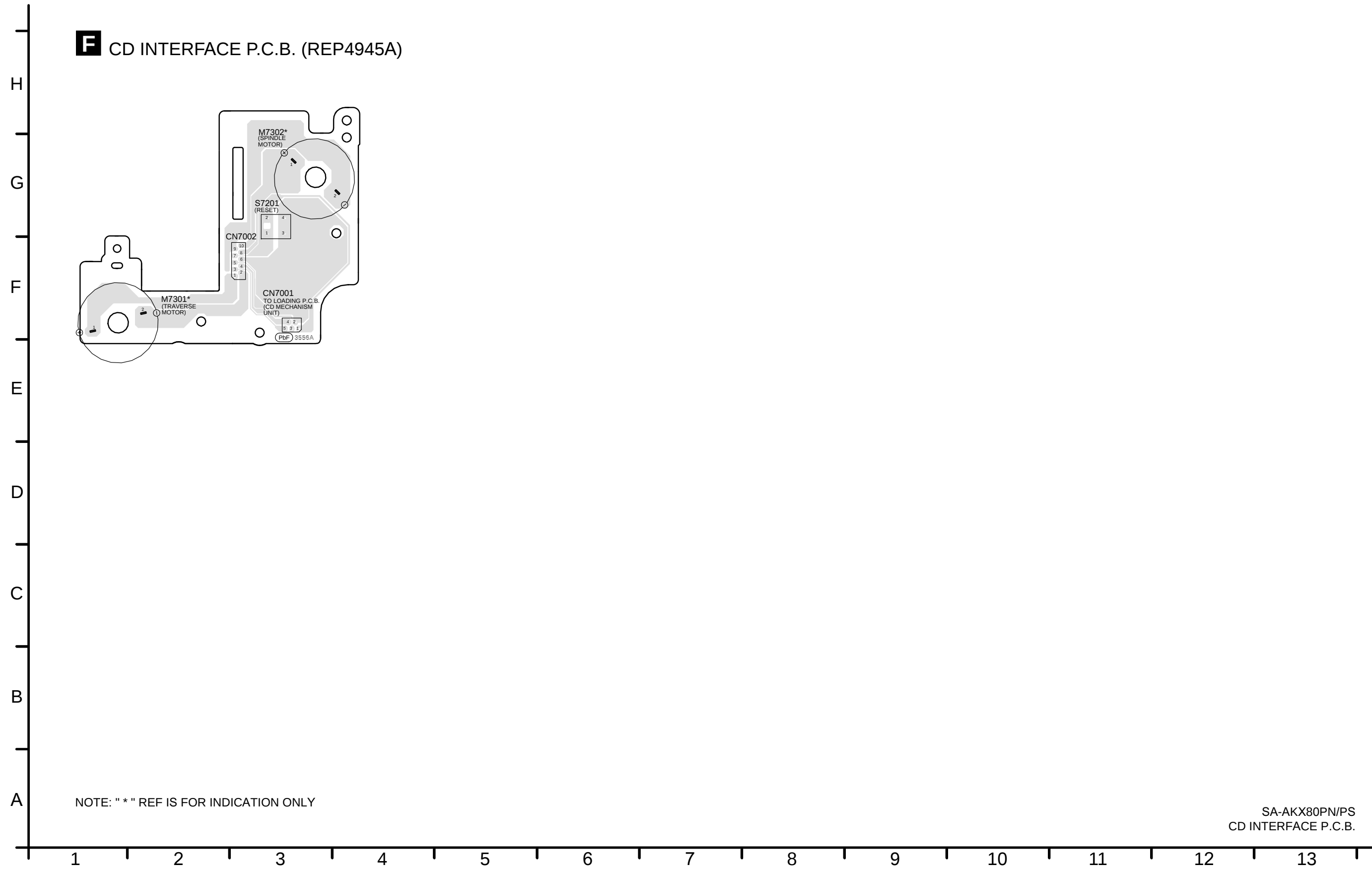


NOTE: " * " REF IS FOR INDICATION ONLY

C LCD P.C.B. (REP4903AA)



13.4. CD Interface P.C.B.



14 Voltage and Waveform Measurement

14.1. Voltage Measurement

Note:

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

14.1.1. Main P.C.B. (1/4)

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	0	0	3.0	3.3	0	3.3	3.3	0	1.4	0.3	0	0	3.3	0	0	0

REF NO.	IC1000																			
MODE	1	2	3																	
POWER ON	0	3.2	5.8																	
STANDBY	0	3.0	5.4																	

REF NO.	IC1002																			
MODE	1	2	3	4	5	6	7	8	9	10										
POWER ON	18.6	32.2	3.3	2.2	0.5	0	0.8	0.7	0	12.4										
STANDBY	18.5	32.2	3.3	2.2	0.5	0	0.8	0.7	0	12.4										

REF NO.	IC1003																			
MODE	1	2	3	4	5	6	7	8	9	10										
CD PLAY	12.0	16.0	3.3	2.2	0.5	0	0.8	0.8	0	6.0										
STANDBY	12.0	16.0	3.3	2.2	0.5	0	0.8	0.8	0	6.0										

REF NO.	IC2006																			
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	3.2	3.2	0	0	0	0	3.3	3.0	0	0	1.5	1.5	0	1.0	1.7	3.3	1.8	3.3	0
STANDBY	3.2	3.2	3.2	0	0	0	0	0	0	0	0	1.5	1.5	0	1.0	1.7	3.3	1.8	3.3	0

REF NO.	IC2006																			
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	3.3	0	3.3	3.3	0	0	0	3.3	0	0	0	3.3	0	3.3	1.8	0	0	3.3
STANDBY	0	0	3.3	0	3.3	3.3	0	0	0	3.3	0	0	0	3.3	0	3.3	1.8	0	0	3.3

REF NO.	IC2006																			
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	3.3	2.5	0	3.2	3.2	3.2	3.2	2.8	0	0	3.2	3.2	0	3.3	3.3	3.3	0	0
STANDBY	3.3	3.3	3.3	2.5	0	3.2	3.2	3.2	3.2	2.8	0	0	3.2	3.2	0	3.3	3.3	3.3	0	0

REF NO.	IC2006																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	3.3	3.3	0	0	0	0	0.9	1.0	3.3	0	3.2	3.2	3.3	3.2	3.3	3.3	0	3.2	1.1	3.3
STANDBY	3.3	3.3	0	0	0	0	0.9	1.0	3.3	0	3.2	3.2	3.3	3.2	3.3	3.3	0	3.2	1.1	3.3

REF NO.	IC2006																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.3	0	0	0	0	0	0	1.6	3.3	3.3	0	0.3	0.6	0	1.6	0	2.0	3.3	3.3	3.3
STANDBY	3.3	0	0	0	0	0	0	1.6	3.3	3.3	0	0.3	0.6	0	1.6	0	2.0	3.3	3.3	3.3

REF NO.	IC2007																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0	0	3.3												
STANDBY	0	0	0	0	0	0	0	3.3												

SA-AKX80PN/PS MAIN P.C.B.

14.1.2. Main P.C.B. (2/4)

REF NO. MODE	IC6000																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	12.1	12.2	1.2	2.5	1.6	1.6	2.7	3.2	0	0	0	0	7.6	1.6	1.6	3.2	3.2	3.2	0	0
STANDBY	12.1	12.2	1.2	2.5	1.6	1.6	2.7	3.2	0	0	0	0	7.6	0	0	3.2	3.2	3.2	0	0
REF NO. MODE	IC6000																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	12.1	27.9	27.0	0	0	16.4	16.4	32.0	32.0	32.0	16.4	0	0	16.4	32.0	32.0	32.0	16.3	16.4
STANDBY	0	12.1	27.9	27.0	0	0	16.4	16.4	32.0	32.0	32.0	16.4	0	0	16.4	32.0	32.0	32.0	16.4	16.4
REF NO. MODE	IC6000																			
	41	42	43	44																
CD PLAY	0	0	27.0	27.0																
STANDBY	0	0	27.0	27.0																
REF NO. MODE	IC6500																			
	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	0.6	1.1	1.7	3.2	0	1.0	1.0	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2
STANDBY	0	0	0	0	0	0.6	1.1	1.8	3.3	0	1.0	1.0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
REF NO. MODE	IC6500																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.2	1.6	1.5	0.8	1.5	0	0	1.8	1.8	1.7	1.7	0	0	3.2	3.2	0	2.9	1.7	1.6	1.6
STANDBY	3.3	1.6	1.5	0	0	0	0	1.8	1.8	1.7	1.7	0	0	3.3	3.3	0	2.9	1.6	1.7	1.7
REF NO. MODE	IC6500																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	1.6	1.6	1.5	0	0	0	0	1.6	1.6	3.3	0	1.8	0	0	0	0				
STANDBY	1.6	1.6	1.6	0	0	0	0	1.6	1.6	3.3	0	1.8	0	0	0	0				
REF NO. MODE	IC7704																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	1.5	1.5	0	1.5	1.5	3.3	1.5	1.5	0	1.6	1.5	3.3	3.2	3.2	3.2	3.2	0	3.2	0
STANDBY	3.3	1.5	1.5	0	1.5	1.5	3.3	1.5	1.5	0	1.6	1.5	3.3	3.2	3.2	3.2	3.2	0	3.2	0
REF NO. MODE	IC7704																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	1.7	1.8	1.6	3.3	0	1.6	1.6	1.7	1.7	3.2	3.2	0	3.3	0	3.2	0	3.2	1.3	1.4
STANDBY	0	1.7	1.8	1.6	3.3	0	1.6	1.6	1.7	1.7	3.2	3.2	0	3.3	0	3.2	0	3.2	1.3	1.4
REF NO. MODE	IC7704																			
	41	42	43	44	45	46	47	48	49	50										
CD PLAY	0	1.3	1.3	3.3	1.3	1.3	0	1.3	1.3	0										
STANDBY	0	1.3	1.3	3.3	1.3	1.3	0	1.3	1.3	0										
REF NO. MODE	IC8001																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.2	1.3	1.1	1.2	1.2	1.3	3.2	1.2	0	3.2	3.2	3.2	0	0	0	0	0	3.2	0	0
STANDBY	3.2	1.3	1.1	1.2	1.2	1.3	3.2	1.2	0	3.2	3.2	3.2	0	0	0	0	0	3.2	0	0

SA-AKX80PN/PS MAIN P.C.B.

14.1.3. Main P.C.B. (3/4)

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	0	0	0	0	3.2	3.2	1.3	3.2	3.2	3.2	3.2	3.2	0.6	3.0	3.2	0	1.2	1.2	1.2	0.8
STANDBY	0	0	0	0	3.2	3.2	1.3	3.2	3.2	3.2	3.2	3.2	0.6	3.0	3.2	0	1.2	1.2	1.2	0.8
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	0	1.0	0.8	0.8	3.2	0	1.2	1.7	1.7	1.5	0	1.5	1.6	3.3	1.6	1.6	1.9	0	1.7	1.7
STANDBY	0	1.0	0.8	0.8	3.2	0	1.2	1.7	1.7	1.5	0	1.5	1.6	3.3	1.6	1.6	1.9	0	1.7	1.7
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	1.7	0.2	0	3.3	3.2	3.2	0	1.0	0	1.0	1.2	1.6	1.6	1.4	1.4	0.4	0	3.3	3.3	0
STANDBY	1.7	0.2	0	3.3	3.2	3.2	0	1.0	0	1.0	1.2	1.6	1.6	1.4	1.4	0.4	0	3.3	3.3	0
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	3.3	1.2	1.2	0	3.3	3.3	0	1.6	1.6	3.3	0	0	0
STANDBY	0	0	0	0	0	0	1.2	3.3	1.2	1.2	0	3.3	3.3	0	1.6	1.6	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	3.2	3.1	3.0	3.2	3.1	3.1	0	0	0	3.2	3.1	3.0	1.6	1.4	0.8	1.0	3.2	3.2
STANDBY	1.2	0	3.2	3.1	3.0	3.2	3.1	3.1	0	0	0	3.2	3.1	3.0	1.6	1.4	0.8	1.0	3.2	3.2
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	3.0	3.2	3.0	0	0	3.2	0	0	3.2	0	0	3.2	0	1.6	1.6	1.6	0	0
STANDBY	1.2	0	0	3.2	0	0	0	3.2	0	0	3.2	0	0	3.2	0	1.6	1.6	1.6	0	0
REF NO.	IC8001																			
MODE	141	142	143	144																
CD PLAY	0	1.0	1.1	1.1																
STANDBY	0	1.0	1.1	1.1																
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	1.7	0	0	1.6	0	3.0	3.0	5.8	0	0	3.0	3.0	2.5	2.7	2.6	2.7	2.4	2.8	5.0	0
STANDBY	1.7	0	0	1.6	0	3.1	3.0	5.8	0	0	3.0	3.0	2.7	2.7	2.6	2.7	2.7	2.7	5.0	0
REF NO.	IC8251																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	1.5	0	1.6	0	0	1.7	1.7	3.3	0	0										
STANDBY	1.0	0	1.7	0	0	1.7	1.7	3.3	0	0										
REF NO.	IC8401																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.1	2.6	3.3	0	3.0	0.6	3.3	3.3												
STANDBY	2.4	2.6	3.3	0	3.2	0.5	3.3	3.3												

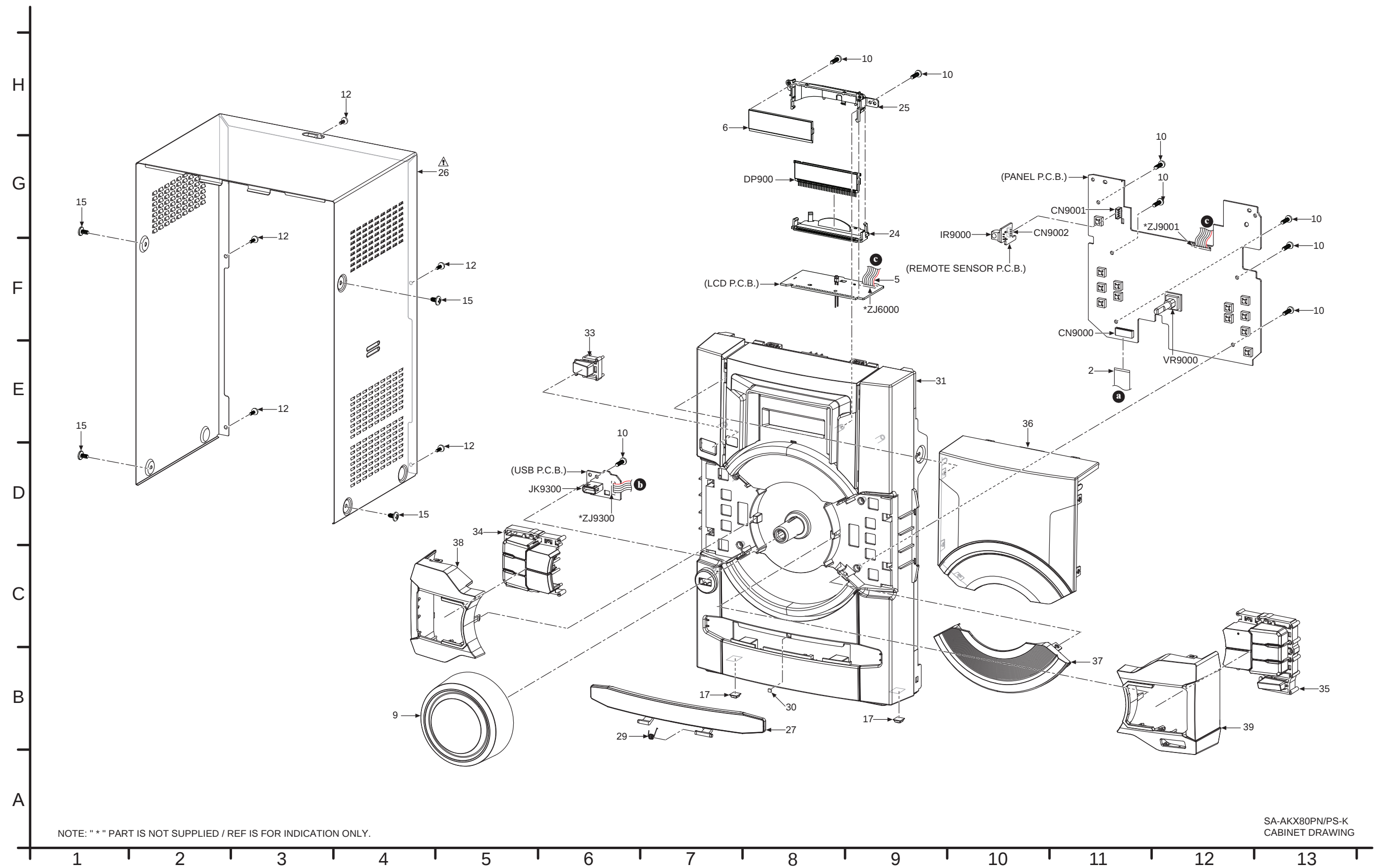
SA-AKX80PN/PS MAIN P.C.B.

14.1.4. Main P.C.B. (4/4) and LCD P.C.B.

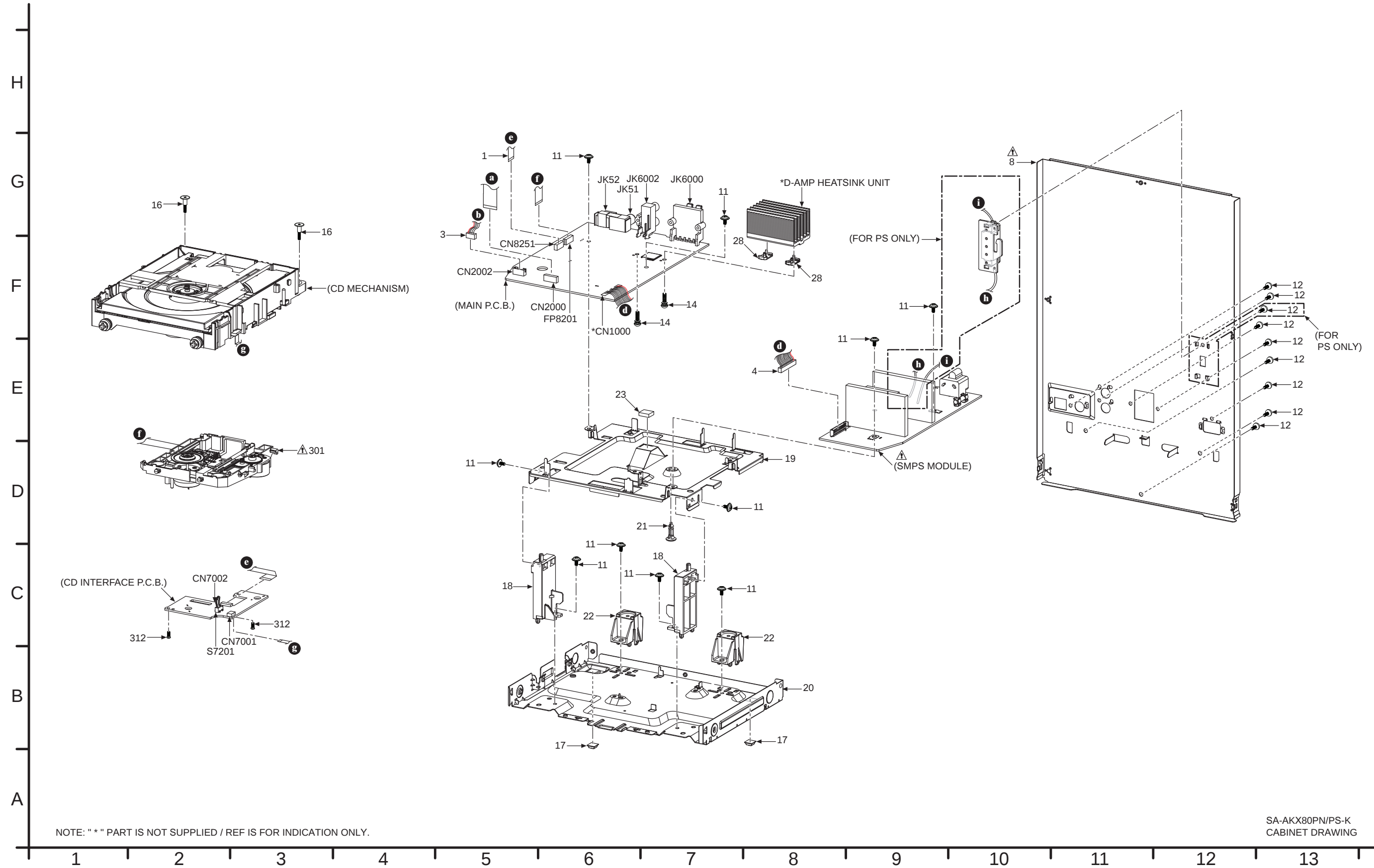
REF NO.	Q2001				Q6001				Q6002				Q6007				Q6300			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	3.3		0	3.3	0		12.6	0	14.0		15.7	15.3	16.1		16.2	15.8	16.2	
STANDBY	0	0	3.3		0	3.3	0		12.2	0	13.6		16.2	15.8	16.2		16.0	16.0	16.0	
REF NO.	Q8201																			
MODE	E	C	B																	
CD PLAY	3.0	2.1	2.3																	
STANDBY	3.2	0	3.2																	
SA-AKX80PN/PS MAIN P.C.B.																				
REF NO.	IC900																			
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	3.3	3.2	3.2	0	2.9	3.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
STANDBY	3.2	3.3	3.2	3.2	0	2.8	3.2	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
REF NO.	IC900																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
STANDBY	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
REF NO.	IC900																			
MODE	41	42	43	44																
CD PLAY	1.5	1.5	1.5	1.5																
STANDBY	1.5	1.5	1.5	1.5																
REF NO.	Q900																			
MODE	E	C	B																	
CD PLAY	0	0	3.2																	
STANDBY	0	0	3.3																	
SA-AKX80PN/PS LCD P.C.B.																				

15 Exploded View and Replacement Parts List

15.1. Cabinet Parts Location 1



15.2. Cabinet Parts Location 2



15.4. Mechanical Replacement Part List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE1730	10P FFC (MAIN-CD INTERFACE)	1	
	2	REE1733	17P FFC (MAIN-PANEL)	1	
	3	REX1472	5P WIRE (USB-MAIN)	1	
	4	REX1561	13P WIRE (SMPS-MAIN)	1	
	5	REX1588	7P WIRE (PANEL-LCD)	1	
	6	RMXX1008-2	LCD DIFFUSER SHEET	1	
Δ	8	RGR0443A-GA	REAR PANEL	1	PN
Δ	8	RGR0443K-BA	REAR PANEL	1	PS
	9	RGW0459-1S	VOLUME KNOB	1	
	10	RHD26046-L	SCREW	8	
	11	RHD30111-31	SCREW	10	
	12	RHD30119-S	SCREW	13	PN
	12	RHD30119-S	SCREW	14	PS
	14	RHD26043-1	SCREW	2	
	15	RHD30007-K2J	SCREW	4	
	16	RHDX031008	SCREW	2	
	17	RKAX0042-K	LEG CUSHION	4	
	18	RMA2442-2	CHASSIS SUPPORT	2	
	19	RMK0837-2	INNER CHASSIS	1	
	20	RMKX1031A-1	BOTTOM CHASSIS	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	21	RMNX0298	PCB SPACER	1	
	22	RMQ2134	MECHA SUPPORT	2	
	23	RSC1228A	THERMAL PAD	1	
	24	RMNX1011-W2	LCD HOLDER BASE	1	
	25	RMNX1012A-W2	LCD HOLDER COVER	1	
Δ	26	RKM0713-K1	TOP CABINET	1	
	27	RGK2438-K	CD LID	1	
	28	RMZX1022-1	HEATSINK SPACER	2	
	29	RMB0930	CD LID SPRING	1	
	30	RMGX0033A-K	CD LID CUSHION	1	
	31	RFGKAKX80PNK	FRONT PANEL ASS'Y	1	
	33	RGU2848-K	POWER BUTTON	1	
	34	RGU2849-K	LEFT FUNCTION BUTTON	1	
	35	RGU2869-K	RIGHT FUNCTION BUTTON	1	
	36	RKW1021-Q	FL WINDOW	1	
	37	RKW1026-Q	CENTER ORNAMENT BOTTOM	1	
	38	RGK2439-K	LEFT BUTTON ORNAMENT	1	
	39	RGK2469-K	RIGHT BUTTON ORNAMENT	1	
			TRAVERSE DECK		
Δ	301	RAE1047Z-V	TRAVERSE UNIT	1	(E.S.D)
	312	XTN2+6GFJ	SCREW	2	
			PACKING MATERIALS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	P1	RPG0Q83	PACKING CASE	1	PN
	P1	RPG0Q84	PACKING CASE	1	PS
	P2	RPN2483-1	POLYFOAM	1	
	P3	RPF0198-1	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB000900	REMOTE CONTROL	1	
⚠	A2	K2CB2CB00022	AC CORD	1	PN
⚠	A2	K2CQ2YY00119	AC CORD	1	PS
⚠	A3	RQT0A09-M	O/I BOOK (Sp)	1	
⚠	A3	RQT0A10-B	O/I BOOK (En)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A7	N1DY000011	AM LOOP ANTENNA	1	

15.5. Electrical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	REP4902A	MAIN P.C.B.	1	(RTL) PN
	PCB1	REP4902B	MAIN P.C.B.	1	(RTL) PS
	PCB2	REP4903AA	PANEL P.C.B.	1	(RTL)
	PCB3	REP4903AA	LCD P.C.B.	1	(RTL)
	PCB4	REP4903AC	USE P.C.B.	1	(RTL)
	PCB5	REP4903AD	REMOTE SENSOR P.C.B.	1	(RTL)
	PCB6	REP4945A	CD INTERFACE P.C.B.	1	(RTL)
$\triangle$	PCB7	N0AB3GK00008	SMPS MODULE	1	PN
$\triangle$	PCB7	N0AD3GK00001	SMPS MODULE & VOLTAGE SELECTOR P.C.B.	1	PS
			INTEGRATED CIRCUITS		
	IC52	VUEALLPT056	IC	1	(E.S.D)
	IC900	COHBA0000295	IC	1	(E.S.D)
	IC1000	C0DBGYY03909	IC	1	(E.S.D)
	IC1002	C0DBAYY01594	IC	1	(E.S.D)
	IC1003	C0DBAYY01594	IC	1	(E.S.D)
	IC2006	RFKWMAX80LM	IC	1	(E.S.D) , JIGS & ADJ
	IC2007	C3EBEY000037	IC	1	(E.S.D)
	IC6000	C1AB00003994	IC	1	(E.S.D)
	IC6500	C1AB00003993	IC	1	(E.S.D)
	IC8001	MN6627992AB	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC8251	C0GBY0000117	IC	1	(E.S.D)
	IC8401	RFKWFAX80LM	IC	1	(E.S.D) , JIGS & ADJ
			TRANSISTORS		
	Q900	B1GBCFJN0033	TRANSISTOR	1	(E.S.D)
	Q2001	B1GBCFL0037	TRANSISTOR	1	(E.S.D)
	Q6001	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q6002	B1ADBL000010	TRANSISTOR	1	(E.S.D)
	Q6007	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q6300	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q8201	B1ADCF000001	TRANSISTOR	1	(E.S.D)
			DIODES		
	D993	B3AFA0000131	DIODE	1	(E.S.D)
	D1000	B0JCPG000030	DIODE	1	(E.S.D)
	D1001	B0EAKM000117	DIODE	1	(E.S.D)
	D1002	B0ADDJ000032	DIODE	1	(E.S.D)
	D2001	DA2J10100L	DIODE	1	(E.S.D)
	D2002	DA2J10100L	DIODE	1	(E.S.D)
	D6501	DA2J10100L	DIODE	1	(E.S.D)
	D8250	DZ2J056M0L	DIODE	1	(E.S.D)
	DZ1000	B0JCPD000025	DIODE	1	(E.S.D)
	DZ2001	DZ2J047M0L	DIODE	1	(E.S.D)
			REMOTE SENSOR		
	IR9000	B3RAB0000110	REMOTE SENSOR	1	
			VARIABLE RESISTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	VR9000	EVEKE2F3524B	VOLUME JOG	1	
			LCD DISPLAY		
	DP900	L5AYAY00061	LCD DISPLAY	1	
			VARISTOR		
	VA51	EZAEG2A50AX	VARISTOR	1	
			SWITCHES		
	S7201	K0L1BA000158	SW RESET	1	
	S9000	EVQ21405RJ	SW USB	1	
	S9001	EVQ21405RJ	SW POWER	1	
	S9002	EVQ21405RJ	SW CD	1	
	S9003	EVQ21405RJ	SW LATIN PRESET EQ	1	
	S9004	EVQ21405RJ	SW RADIO/EXT IN	1	
	S9005	EVQ21405RJ	SW MANUAL EQ	1	
	S9006	EVQ21405RJ	SW STOP/TUNE MODE	1	
	S9007	EVQ21405RJ	SW D.BASS	1	
	S9008	EVQ21405RJ	SW PLAY/PAUSE	1	
	S9009	EVQ21405RJ	SW FORWARD	1	
	S9011	EVQ21405RJ	SW REWIND	1	
	S9013	EVQ21405RJ	SW OPEN/CLOSE	1	
			CONNECTORS		
	CN2000	K1MN17A00040	17P CONNECTOR	1	
	CN2002	K1KA05AA0193	5P CONNECTOR	1	
	CN7001	K1MY05BA0539	5P CONNECTOR	1	
	CN7002	K1MN10B00016	10P CONNECTOR	1	
	CN8251	K1MN10A00011	10P CONNECTOR	1	
	CN9000	K1MN17B00032	17P CONNECTOR	1	
	CN9001	K1KA04A00553	4P CONNECTOR	1	
	CN9002	K1KB04B00043	4P CONNECTOR	1	
	FP8201	K1MY24A00001	24P CONNECTOR	1	
	JK9300	K1FY104A0034	USB CONNECTOR	1	
			COILS AND INDUC-TORS		
	L51	G1CR18JA0020	INDUCTOR	1	
	L52	G2A380Y00002	ANTENNA COIL	1	
	L1000	G1C4R7MA0445	INDUCTOR	1	
	L1001	G1C100MA0291	INDUCTOR	1	
	L6000	G0A100H00018	CHOKE COIL	1	
	L6001	G0A100H00018	CHOKE COIL	1	
	L6002	G0A100H00018	CHOKE COIL	1	
	L6005	G0A100H00018	CHOKE COIL	1	
	LB51	J0JBC0000032	INDUCTOR	1	
	LB52	J0JYC0000118	INDUCTOR	1	
	LB900	J0JBC0000019	INDUCTOR	1	
	LB8202	J0JHC0000045	INDUCTOR	1	
	LB8205	J0JHC0000045	INDUCTOR	1	
	LB8501	J0JHC0000045	INDUCTOR	1	
			OSCILLATORS		
	X2001	H0A327200181	OSCILLATOR	1	
	X2002	H2B800400007	OSCILLATOR	1	
	X8101	H0J338300002	OSCILLATOR	1	
			JACKS		
	JK51	K4ZZ02000103	JK FM ANTENNA	1	
	JK52	K4AC02B00042	JK AM ANTENNA	1	
	JK6000	K4AC04B00030	JK SPEAKER	1	
	JK6002	K2HA2YYA0009	JK AUX IN	1	
			CHIP JUMPERS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L53	D0GBR00J0004	0 1/10W	1	
	LB8003	D0GBR00J0004	0 1/10W	1	
	LB8201	D0GBR00J0004	0 1/10W	1	
	LB8203	D0GBR00J0004	0 1/10W	1	
	LB8251	D0GBR00J0004	0 1/10W	1	
	W101	D0GFR00J0005	0 1/4W	1	
	W102	D0GFR00J0005	0 1/4W	1	
	W103	D0GDR00J0004	0 1/8W	1	
	W104	D0GFR00J0005	0 1/4W	1	
	W105	D0GFR00J0005	0 1/4W	1	
	W106	D0GFR00J0005	0 1/4W	1	
	W109	D0GDR00J0004	0 1/8W	1	
	W110	D0GFR00J0005	0 1/4W	1	
	W111	D0GFR00J0005	0 1/4W	1	
	W112	D0GFR00J0005	0 1/4W	1	
	W113	D0GFR00J0005	0 1/4W	1	
	W114	D0GFR00J0005	0 1/4W	1	
	W115	D0GFR00J0005	0 1/4W	1	
	W116	D0GFR00J0005	0 1/4W	1	
	W117	D0GFR00J0005	0 1/4W	1	
	W118	D0GFR00J0005	0 1/4W	1	
	W119	D0GFR00J0005	0 1/4W	1	
	W121	D0GBR00J0004	0 1/10W	1	
	W122	D0GFR00J0005	0 1/4W	1	
	W123	D0GFR00J0005	0 1/4W	1	
	W124	D0GFR00J0005	0 1/4W	1	
	W125	D0GFR00J0005	0 1/4W	1	
	W126	D0GFR00J0005	0 1/4W	1	
	W127	D0GFR00J0005	0 1/4W	1	
	W128	D0GFR00J0005	0 1/4W	1	
	W129	D0GFR00J0005	0 1/4W	1	
	W130	D0GFR00J0005	0 1/4W	1	
	W131	D0GFR00J0005	0 1/4W	1	
	W132	D0GFR00J0005	0 1/4W	1	
	W134	D0GFR00J0005	0 1/4W	1	
	W135	D0GFR00J0005	0 1/4W	1	
	W136	D0GFR00J0005	0 1/4W	1	
	W137	D0GFR00J0005	0 1/4W	1	
	W138	D0GFR00J0005	0 1/4W	1	
	W139	D0GFR00J0005	0 1/4W	1	
	W140	D0GFR00J0005	0 1/4W	1	
	W200	D0GDR00J0004	0 1/8W	1	
	W201	D0GFR00J0005	0 1/4W	1	
	W202	D0GDR00J0004	0 1/8W	1	
	W203	D0GFR00J0005	0 1/4W	1	
	W204	D0GFR00J0005	0 1/4W	1	
	W205	D0GFR00J0005	0 1/4W	1	
	W206	D0GFR00J0005	0 1/4W	1	
	W207	D0GFR00J0005	0 1/4W	1	
	W208	D0GFR00J0005	0 1/4W	1	
	W209	D0GDR00J0004	0 1/8W	1	
	W210	D0GFR00J0005	0 1/4W	1	
	W211	D0GFR00J0005	0 1/4W	1	
	W212	D0GFR00J0005	0 1/4W	1	
	W213	D0GFR00J0005	0 1/4W	1	
	W214	D0GFR00J0005	0 1/4W	1	
	W215	D0GFR00J0005	0 1/4W	1	
			RESISTORS		
	R51	D0GB222JA065	2.2K 1/10W	1	
	R52	D0GB561JA065	560 1/10W	1	
	R53	D0GA472JA023	4.7K 1/16W	1	
	R54	D0GA472JA023	4.7K 1/16W	1	
	R55	D0GA221JA023	220 1/16W	1	
	R56	D0GB221JA065	220 1/10W	1	
	R57	D0GA102JA023	1K 1/16W	1	
	R59	D0GB222JA065	2.2K 1/10W	1	
	R60	D0GB222JA065	2.2K 1/10W	1	
	R901	D0GB153JA065	15K 1/10W	1	
	R903	D0GB471JA065	470 1/10W	1	
	R905	D0GBR00J0004	0 1/10W	1	
	R906	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R908	D0GB102JA065	1K 1/10W	1	
	R933	D0GD181JA052	180 1/8W	1	
	R935	D0GD181JA052	180 1/8W	1	
	R1004	ERJ3RBD752V	7.5K 1/16W	1	
	R1005	D1BB5602A074	56 1/10W	1	
	R1006	D1BB1002A074	10 1/10W	1	
	R1007	ERJ3RBD473V	47K 1/16W	1	
	R1008	D0GB153JA065	15K 1/10W	1	
	R1016	D0GB563JA065	56K 1/10W	1	
	R1025	D0GBR00J0004	0 1/10W	1	
	R1026	ERJ3RBD104V	100K 1/16W	1	
	R1027	D1BB1002A074	10 1/10W	1	
	R1030	D0GB153JA065	15K 1/10W	1	
	R1031	D0GB563JA065	56K 1/10W	1	
	R1037	D0GBR00J0004	0 1/10W	1	
	R1041	ERG2SJ470E	47 2W	1	
	R1042	D0GBR00J0004	0 1/10W	1	
	R1043	ERG2SJ470E	47 2W	1	
	R1044	D0GB563JA065	56K 1/10W	1	
	R1045	D0GB563JA065	56K 1/10W	1	
	R2000	D0GB101JA065	100 1/10W	1	
	R2046	D0GB103JA065	10K 1/10W	1	
	R2047	D0GB102JA065	1K 1/10W	1	
	R2048	D0GB102JA065	1K 1/10W	1	
	R2049	D0GBR00J0004	0 1/10W	1	
	R2053	D0GB102JA065	1K 1/10W	1	PN
	R2053	D0GB472JA065	4.7K 1/10W	1	PS
	R2055	D0GBR00J0004	0 1/10W	1	
	R2058	D0GB104JA065	100K 1/10W	1	
	R2060	D0GB273JA065	27K 1/10W	1	PS
	R2060	D0GB822JA065	8.2K 1/10W	1	PN
	R2064	D0GBR00J0004	0 1/10W	1	
	R2066	D0GBR00J0004	0 1/10W	1	
	R2070	D0GB472JA065	4.7K 1/10W	1	
	R2071	D0GB392JA065	3.9K 1/10W	1	
	R2075	D0GB472JA065	4.7K 1/10W	1	
	R2077	D0GB473JA065	47K 1/10W	1	
	R2084	D0GB564JA065	560K 1/10W	1	
	R2086	D0GB104JA065	100K 1/10W	1	
	R2091	D0GB102JA065	1K 1/10W	1	
	R2093	D0GB102JA065	1K 1/10W	1	
	R2094	D0GB102JA065	1K 1/10W	1	
	R2095	D0GB102JA065	1K 1/10W	1	
	R2096	D0GB102JA065	1K 1/10W	1	
	R2105	D0GB103JA065	10K 1/10W	1	
	R2106	D0GB103JA065	10K 1/10W	1	
	R2107	D0GB103JA065	10K 1/10W	1	
	R2108	D0GB103JA065	10K 1/10W	1	
	R2109	D0GB103JA065	10K 1/10W	1	
	R2116	D0GB103JA065	10K 1/10W	1	
	R2120	D0GB473JA065	47K 1/10W	1	
	R2144	D0GB472JA065	4.7K 1/10W	1	
	R2145	D0GB472JA065	4.7K 1/10W	1	
	R2201	D0GBR00J0004	0 1/10W	1	
	R2206	D0GBR00J0004	0 1/10W	1	PN
	R2207	D0GBR00J0004	0 1/10W	1	PS
	R2301	D0GB101JA065	100 1/10W	1	
	R2304	D0GB101JA065	100 1/10W	1	
	R2305	D0GB101JA065	100 1/10W	1	
	R2306	D0GB101JA065	100 1/10W	1	
	R2307	D0GB101JA065	100 1/10W	1	
	R2308	D0GB101JA065	100 1/10W	1	
	R2314	D0GB101JA065	100 1/10W	1	
	R2315	D0GB101JA065	100 1/10W	1	
	R2316	D0GB101JA065	100 1/10W	1	
	R2317	D0GB101JA065	100 1/10W	1	
	R2318	D0GB101JA065	100 1/10W	1	
	R2319	D0GB101JA065	100 1/10W	1	
	R2323	D0GB101JA065	100 1/10W	1	
	R2324	D0GB101JA065	100 1/10W	1	
	R2325	D0GB101JA065	100 1/10W	1	
	R2326	D0GB101JA065	100 1/10W	1	
	R2327	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2328	D0GBR00J0004	0 1/10W	1	
	R2329	D0GBR00J0004	0 1/10W	1	
	R2331	D0GB101JA065	100 1/10W	1	
	R2332	D0GB101JA065	100 1/10W	1	
	R2333	D0GB103JA065	10K 1/10W	1	
	R2334	D0GB101JA065	100 1/10W	1	
	R2335	D0GB101JA065	100 1/10W	1	
	R2336	D0GB223JA065	22K 1/10W	1	
	R2337	D0GB103JA065	10K 1/10W	1	
	R2341	D0GBR00J0004	0 1/10W	1	
	R2501	D0GBR00J0004	0 1/10W	1	
	R2502	D0GBR00J0004	0 1/10W	1	
	R6007	D0GB100JA065	10 1/10W	1	
	R6011	D0GB100JA065	10 1/10W	1	
	R6046	D0GB223JA065	22K 1/10W	1	
	R6050	D0GB100JA065	10 1/10W	1	
	R6054	D0GB563JA065	56K 1/10W	1	
	R6055	D0GB473JA065	47K 1/10W	1	
	R6056	D0GB472JA065	4.7K 1/10W	1	
	R6057	D0GB224JA065	220K 1/10W	1	
	R6058	D0GB3R3JA065	3.3 1/10W	1	
	R6060	D0GB3R3JA065	3.3 1/10W	1	
	R6061	D0GB3R3JA065	3.3 1/10W	1	
	R6062	D0GB3R3JA065	3.3 1/10W	1	
	R6066	D0GB104JA065	100K 1/10W	1	
	R6067	D0GB104JA065	100K 1/10W	1	
	R6068	D0GB104JA065	100K 1/10W	1	
	R6069	D0GB104JA065	100K 1/10W	1	
	R6070	D0GB333JA065	33K 1/10W	1	
	R6132	D0GB224JA065	220K 1/10W	1	
	R6133	D0GB103JA065	10K 1/10W	1	
	R6134	D0GB103JA065	10K 1/10W	1	
	R6135	D0GBR00J0004	0 1/10W	1	
	R6136	D0GBR00J0004	0 1/10W	1	
	R6146	D0GB103JA065	10K 1/10W	1	
	R6147	D0GB103JA065	10K 1/10W	1	
	R6300	D0GFR00J0005	0 1/4W	1	
	R6301	D0GFR00J0005	0 1/4W	1	
	R6302	D0GFR00J0005	0 1/4W	1	
	R6303	D0GFR00J0005	0 1/4W	1	
	R6304	D0GFR00J0005	0 1/4W	1	
	R6305	D0GFR00J0005	0 1/4W	1	
	R6306	D0GFR00J0005	0 1/4W	1	
	R6307	D0GFR00J0005	0 1/4W	1	
	R6501	D0GB103JA065	10K 1/10W	1	
	R6502	D0GB472JA065	4.7K 1/10W	1	
	R6504	D0GB103JA065	10K 1/10W	1	
	R6505	D0GB472JA065	4.7K 1/10W	1	
	R6506	D0GB103JA065	10K 1/10W	1	
	R6507	D0GB472JA065	4.7K 1/10W	1	
	R6510	D0GB103JA065	10K 1/10W	1	
	R6512	D0GB471JA065	470 1/10W	1	
	R6513	D0GB153JA065	15K 1/10W	1	
	R6514	D0GB471JA065	470 1/10W	1	
	R6515	D0GB183JA065	18K 1/10W	1	
	R6516	D0GB101JA065	100 1/10W	1	
	R6523	D0GB470JA065	47 1/10W	1	
	R6525	D0GBR00J0004	0 1/10W	1	
	R6526	D0GB472JA065	4.7K 1/10W	1	
	R6527	D0GB101JA065	100 1/10W	1	
	R6528	D0GB470JA065	47 1/10W	1	
	R6529	D0GBR00J0004	0 1/10W	1	
	R6530	D0GBR00J0004	0 1/10W	1	
	R6531	D0GBR00J0004	0 1/10W	1	
	R6533	D0GB101JA065	100 1/10W	1	
	R6534	D0GB101JA065	100 1/10W	1	
	R6536	D0GB101JA065	100 1/10W	1	
	R6542	D0GB103JA065	10K 1/10W	1	
	R6543	D0GB472JA065	4.7K 1/10W	1	
	R6544	D0GB472JA065	4.7K 1/10W	1	
	R6549	D0GB103JA065	10K 1/10W	1	
	R6550	D0GB101JA065	100 1/10W	1	
	R6551	D0GB101JA065	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6552	D0GB101JA065	100 1/10W	1	
	R6553	D0GB101JA065	100 1/10W	1	
	R6554	D0GB472JA065	4.7K 1/10W	1	
	R8002	D0GB103JA065	10K 1/10W	1	
	R8003	D0GB102JA065	1K 1/10W	1	
	R8004	D0GB102JA065	1K 1/10W	1	
	R8005	D0GB105JA065	1M 1/10W	1	
	R8006	D0GB221JA065	220 1/10W	1	
	R8010	D0GA104JA023	100K 1/16W	1	
	R8011	D0GA104JA023	100K 1/16W	1	
	R8012	D0GBR00J0004	0 1/10W	1	
	R8013	D0GBR00J0004	0 1/10W	1	
	R8014	D0GBR00J0004	0 1/10W	1	
	R8015	D0GBR00J0004	0 1/10W	1	
	R8016	J0JCC0000301	INDUCTOR	1	
	R8017	D0GBR00J0004	0 1/10W	1	
	R8021	D0GA330JA023	33 1/16W	1	
	R8022	D0GA100JA023	10 1/16W	1	
	R8027	D0GB100JA065	10 1/10W	1	
	R8029	D0GA330JA023	33 1/16W	1	
	R8031	D0GA103JA023	10K 1/16W	1	
	R8032	D0GBR00J0004	0 1/10W	1	
	R8042	D0GA103JA023	10K 1/16W	1	
	R8043	D0GAR00J0005	0 1/16W	1	
	R8044	D0GAR00J0005	0 1/16W	1	
	R8045	D0GAR00J0005	0 1/16W	1	
	R8046	D0GB103JA065	10K 1/10W	1	
	R8047	D0GB103JA065	10K 1/10W	1	
	R8201	D0GBR00J0004	0 1/10W	1	
	R8203	D0GBR00J0004	0 1/10W	1	
	R8209	D0GB225JA065	2.2M 1/10W	1	
	R8210	D0GB821JA065	820 1/10W	1	
	R8211	D0GB272JA065	2.7K 1/10W	1	
	R8212	D0GB4R7JA065	4.7 1/10W	1	
	R8214	D0GB103JA065	10K 1/10W	1	
	R8215	D0GB5R6JA065	5.6 1/10W	1	
	R8252	D0GB102JA065	1K 1/10W	1	
	R8254	D0GB562JA065	5.6K 1/10W	1	
	R8255	D0GB332JA065	3.3K 1/10W	1	
	R8256	D0GB101JA065	100 1/10W	1	
	R8257	D0GB562JA065	5.6K 1/10W	1	
	R8258	D0GB273JA065	27K 1/10W	1	
	R8259	D0GB472JA065	4.7K 1/10W	1	
	R8260	D0GB473JA065	47K 1/10W	1	
	R8261	D0GB101JA065	100 1/10W	1	
	R8262	D0GB100JA065	10 1/10W	1	
	R8263	D0GB102JA065	1K 1/10W	1	
	R8264	D0GB122JA065	1.2K 1/10W	1	
	R8265	D0GB104JA065	100K 1/10W	1	
	R8301	D0GBR00J0004	0 1/10W	1	
	R8302	D0GBR00J0004	0 1/10W	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	
	R9000	D0GB103JA065	10K 1/10W	1	
	R9001	D0GB103JA065	10K 1/10W	1	
	R9001	ERJ2RKD300X	30 1/16W	1	
	R9002	D0GB103JA065	10K 1/10W	1	
	R9002	ERJ2RKD300X	30 1/16W	1	
	R9003	D0GA153JA023	15K 1/16W	1	
	R9003	D0GB103JA065	10K 1/10W	1	
	R9004	D0GA153JA023	15K 1/16W	1	
	R9004	D0GB122JA065	1.2K 1/10W	1	
	R9005	D0GB122JA065	1.2K 1/10W	1	
	R9006	D0GB152JA065	1.5K 1/10W	1	
	R9007	D0GB152JA065	1.5K 1/10W	1	
	R9008	D0GB222JA065	2.2K 1/10W	1	
	R9009	D0GB222JA065	2.2K 1/10W	1	
	R9010	D0GB332JA065	3.3K 1/10W	1	
	R9011	D0GB332JA065	3.3K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R9013	D0GB472JA065	4.7K 1/10W	1	
	R9015	D0GB682JA065	6.8K 1/10W	1	
	R9300	D0GBR00J0004	0 1/10W	1	
			CAPACITORS		
	C51	F1H1H102B047	1000pF 50V	1	
	C52	F1H1A474A107	0.47uF 10V	1	
	C61	F1H1H104B047	0.1uF 50V	1	
	C62	F1H1H104B047	0.1uF 50V	1	
	C63	F1H1H6R0B050	6.0pF 50V	1	
	C64	F1H1H3R0B050	3.0pF 50V	1	
	C65	F1H1H3R0B050	3.0pF 50V	1	
	C66	F1H1H330B052	33pF 50V	1	
	C67	F1H1H3R0B050	3.0pF 50V	1	
	C901	F1H1H102B047	1000pF 50V	1	
	C902	F1H1H221B047	220pF 50V	1	
	C907	F1H1H103B047	0.01uF 50V	1	
	C1000	F1J1A106A043	10uF 10V	1	
	C1001	F1J1A106A043	10uF 10V	1	
	C1002	F1J1C1060001	10uF 16V	1	
	C1004	F1H1H332B047	3300pF 50V	1	
	C1005	F1H1H104B047	0.1uF 50V	1	
	C1008	F1J1A106A043	10uF 10V	1	
	C1009	F1J1A106A043	10uF 10V	1	
	C1015	F1H1H332B047	3300pF 50V	1	
	C1016	F1H1H104B047	0.1uF 50V	1	
	C1018	F1H1H103B047	0.01uF 50V	1	
	C1019	F1H1H103B047	0.01uF 50V	1	
	C1020	F1J1E475A257	4.7uF 25V	1	
	C1021	F1K1H475A256	4.7uF 50V	1	
	C1030	F1H1H102B047	1000pF 50V	1	
	C2029	F1H1H104B047	0.1uF 50V	1	
	C2032	F1H1H104B047	0.1uF 50V	1	
	C2034	F1H1H104B047	0.1uF 50V	1	
	C2042	F1H1H104B047	0.1uF 50V	1	
	C2051	F1J1A106A043	10uF 10V	1	
	C2052	F1H1H180B052	18pF 50V	1	
	C2053	F1H1H180B052	18pF 50V	1	
	C2054	F1H1H104B047	0.1uF 50V	1	
	C2055	F1H1H104B047	0.1uF 50V	1	
	C2056	F1H1H104B047	0.1uF 50V	1	
	C2061	F1H1H104B047	0.1uF 50V	1	
	C2064	F2A1H3R3A213	3.3uF 50V	1	
	C2077	F1H1H331B047	330pF 50V	1	
	C2302	F1J1A106A043	10uF 10V	1	
	C6005	F1K1E1060001	10uF 25V	1	
	C6018	F1H1H104B047	0.1uF 50V	1	
	C6019	F1H1H104B047	0.1uF 50V	1	
	C6020	F1H1E105A153	1uF 25V	1	
	C6021	F1H1H104B047	0.1uF 50V	1	
	C6022	F1H1E105A153	1uF 25V	1	
	C6023	F1H1H104B047	0.1uF 50V	1	
	C6024	F1H1H333B055	0.033uF 50V	1	
	C6025	F1H1H333B055	0.033uF 50V	1	
	C6027	F1H1H104B047	0.1uF 50V	1	
	C6028	F1H1H333B055	0.033uF 50V	1	
	C6030	F1H1H333B055	0.033uF 50V	1	
	C6031	F1K1H105A138	1uF 50V	1	
	C6032	F1H1H104B047	0.1uF 50V	1	
	C6033	F2A1H4710072	470uF 50V	1	
	C6036	F1H1H104B047	0.1uF 50V	1	
	C6039	F1K1H105A138	1uF 50V	1	
	C6040	F2A1H4710072	470uF 50V	1	
	C6042	ECQV1H474JL3	0.47uF 50V	1	
	C6044	ECQV1H474JL3	0.47uF 50V	1	
	C6045	F1H1H102B047	1000pF 50V	1	
	C6046	F1H1H102B047	1000pF 50V	1	
	C6047	F1H1H102B047	1000pF 50V	1	
	C6048	F1H1H102B047	1000pF 50V	1	
	C6049	F1H1H104B047	0.1uF 50V	1	
	C6055	F1H1H104B047	0.1uF 50V	1	
	C6059	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6060	F1H1H104B047	0.1uF 50V	1	
	C6061	F1H1H103B047	0.01uF 50V	1	
	C6062	F1H1H103B047	0.01uF 50V	1	
	C6063	F1H1H103B047	0.01uF 50V	1	
	C6064	F1H1H103B047	0.01uF 50V	1	
	C6068	F1K1E1060001	10uF 25V	1	
	C6069	F1H1H104B047	0.1uF 50V	1	
	C6070	F1H1H104B047	0.1uF 50V	1	
	C6071	F1H1H104B047	0.1uF 50V	1	
	C6074	F1H1H104B047	0.1uF 50V	1	
	C6087	F1H1A105A113	1uF 10V	1	
	C6091	F1H1A105A113	1uF 10V	1	
	C6099	F1H1H681B052	680pF 50V	1	
	C6100	F1H1H681B052	680pF 50V	1	
	C6500	F1J1A106A043	10uF 10V	1	
	C6501	F1H1H104B047	0.1uF 50V	1	
	C6502	F1J1A106A043	10uF 10V	1	
	C6503	F1H1H104B047	0.1uF 50V	1	
	C6504	F1H1H472A219	4700pF 50V	1	
	C6505	F1H1C473A088	0.047uF 16V	1	
	C6506	F1H1H472A219	4700pF 50V	1	
	C6507	F1H1C473A088	0.047uF 16V	1	
	C6508	F1H1H104B047	0.1uF 50V	1	
	C6509	F1J1A106A043	10uF 10V	1	
	C6510	F1H1E474A116	0.47uF 25V	1	
	C6511	F1H1H104B047	0.1uF 50V	1	
	C6512	F1H1H104B047	0.1uF 50V	1	
	C6513	F1J1A106A043	10uF 10V	1	
	C6514	F1H1H104B047	0.1uF 50V	1	
	C6516	F1H1E474A116	0.47uF 25V	1	
	C6519	F1H1E474A116	0.47uF 25V	1	
	C6521	F1H1E474A116	0.47uF 25V	1	
	C6527	F1J1A106A043	10uF 10V	1	
	C6528	F1H1H104B047	0.1uF 50V	1	
	C6530	F1H1H104B047	0.1uF 50V	1	
	C6531	F1H1H104B047	0.1uF 50V	1	
	C8007	F1H1A334A107	0.33uF 10V	1	
	C8008	F1H1H223B047	0.022uF 50V	1	
	C8009	F1H1H680A831	68pF 50V	1	
	C8010	F1G1A1040006	0.1uF 10V	1	
	C8011	F1H1H104B047	0.1uF 50V	1	
	C8012	F1G1A1040006	0.1uF 10V	1	
	C8013	F2A0J101A208	100uF 6.3V	1	
	C8014	F1H1H103B047	0.01uF 50V	1	
	C8015	F1G1H120A789	12pF 50V	1	
	C8016	F1G1H120A789	12pF 50V	1	
	C8017	F1J1A106A043	10uF 10V	1	
	C8018	F1H1A334A107	0.33uF 10V	1	
	C8019	F1H1H102B047	1000pF 50V	1	
	C8020	F1H1H681B047	680pF 50V	1	
	C8021	F1H1C823A178	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	F1H1H102B047	1000pF 50V	1	
	C8028	F1H1H104B047	0.1uF 50V	1	
	C8029	F1G1A1040006	0.1uF 10V	1	
	C8031	F1G1A1040006	0.1uF 10V	1	
	C8032	F1H1H104B047	0.1uF 50V	1	
	C8033	F1H1H104B047	0.1uF 50V	1	
	C8034	F1H1H104B047	0.1uF 50V	1	
	C8035	F1G1A1040006	0.1uF 10V	1	
	C8036	F1G1A1040006	0.1uF 10V	1	
	C8037	F1H1H104B047	0.1uF 50V	1	
	C8038	F1H1H104B047	0.1uF 50V	1	
	C8039	F1H1H104B047	0.1uF 50V	1	
	C8040	F1G1A1040006	0.1uF 10V	1	
	C8041	F1H1H104B047	0.1uF 50V	1	
	C8043	F1H1H104B047	0.1uF 50V	1	
	C8044	F1H0J4750005	4.7uF 6.3V	1	
	C8045	F1G1A1040006	0.1uF 10V	1	
	C8046	F1H1H104B047	0.1uF 50V	1	
	C8047	F1H1H153B047	0.015uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C8048	F1H1H104B047	0.1uF 50V	1	
	C8049	F1J1A106A043	10uF 10V	1	
	C8050	F1H1A105A113	1uF 10V	1	
	C8058	F1G1A1040006	0.1uF 10V	1	
	C8059	F1G1A1040006	0.1uF 10V	1	
	C8060	F1H1A105A113	1uF 10V	1	
	C8061	F1G1A1040006	0.1uF 10V	1	
	C8064	F2A0J221A016	220uF 6.3V	1	
	C8065	F1J1A106A043	10uF 10V	1	
	C8067	F1J1A106A043	10uF 10V	1	
	C8068	F1H1H332B047	3300pF 50V	1	
	C8069	F1H1H332B047	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	F1H1H102B047	1000pF 50V	1	
	C8102	F1H1H104B047	0.1uF 50V	1	
	C8201	F1J1A106A043	10uF 10V	1	
	C8202	F1H1H104B047	0.1uF 50V	1	
	C8203	F1H1H103B047	0.01uF 50V	1	
	C8204	F1J1A106A043	10uF 10V	1	
	C8251	F2A1C470B455	47uF 16V	1	
	C8252	F1H1H103B047	0.01uF 50V	1	
	C8253	F1H1A154A107	0.15uF 10V	1	
	C8254	F1H1H153B047	0.015uF 50V	1	
	C8255	F1H1H182B047	1800pF 50V	1	
	C8256	F1H1H102B047	1000pF 50V	1	
	C8258	F1H1H122B047	1200pF 50V	1	
	C8259	F1J1A106A043	10uF 10V	1	
	C8260	F1H1H103B047	0.01uF 50V	1	
	C8261	F1H1A105A113	1uF 10V	1	
	C8262	F2A0J101A208	100uF 6.3V	1	
	C8263	F1H1H103B047	0.01uF 50V	1	
	C8501	F1H1A105A025	1uF 10V	1	
	C8515	F1G1A1040006	0.1uF 10V	1	
	C9000	F1H1H101B052	100pF 50V	1	
	C9001	F1H1H101B052	100pF 50V	1	
	C9004	F1H1H101B052	100pF 50V	1	
	C9005	F1H1H102B047	1000pF 50V	1	
	K8208	F1H1H104B047	0.1uF 50V	1	

