

Service Manual

Wireless Speaker System

Model No. **SL-NE5EE**
SB-NE5EE
SC-NE5EE



Made for



iPod iPhone iPad



Product Color: (K)...Black Type



SB-NE5



SL-NE5

Remote
Control



WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

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

1.1.1. Leakage Current Cold Check

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

1.1.2. Leakage Current Hot Check

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

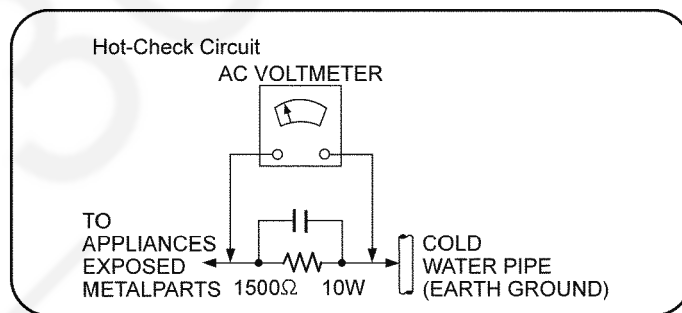


Figure 1-1

1.2. Before Repair and Adjustment

SL-NE5

Disconnect AC power to discharge unit AC Capacitors (C1001, C1003, C1005, C1006 and C1018) through a 10W, 1W resistor to ground.

SB-NE5

Disconnect AC power to discharge unit AC Capacitors (C1702, C1710, C1725, C1727 and C1728) through a 10W, 1W 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 240V, at 50Hz in NO SIGNAL mode at volume min should be ~200 mA.

1.3. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

1.4. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:

(Manufacturer: Skygate Co., Ltd, Type: SCT, F1, T2A, 250V)

1.5. Safety Part Information

1.5.1. Safety Parts List (SL-NE5):

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
⚠	24	RFKHLNE5EE-K	CD REAR CABINET ASS'Y	
⚠	301	RAE5301Z-V	TRAVERSE	
⚠	PCB5	REP4847CA	SMPS P.C.B.	(RTL)
⚠	L1001	G0B233D00005	LINE FILTER	
⚠	T1001	G4DYA0000463	TRANSFORMER	
⚠	Z1001	D4EAY471A127	VARISTOR	
⚠	PC1022	B3PBA0000503	PHOTO COUPLER	
⚠	F1	K5G202Y00006	FUSE	
⚠	P1001	K2AA2B000011	AC INLET	
⚠	R1006	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R1007	ERJ8GEYJ155V	1.5M 1/4W	
⚠	C1001	F0CAF104A105	0.1uF	
⚠	C1003	F0CAF104A105	0.1uF	
⚠	C1005	F1BAF1020020	1000pF	
⚠	C1006	F1BAF1020020	1000pF	
⚠	C1018	F1BAF471A013	470pF	

1.5.2. Safety Parts List (SB-NE5):

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
⚠	69	RFKHCNE5EE-K	SPEAKER REAR CABINET ASS'Y	
⚠	87	RMV0390	SMPS INSULATOR SHEET A	
⚠	88	RMV0391-1	SMPS INSULATOR SHEET B	
⚠	PCB7	REP4848F	SPK SMPS P.C.B.	(RTL)
⚠	L1702	G0B183E00004	LINE FILTER	
⚠	T1700	G4DYZ0000059	TRANSFORMER	
⚠	Z1752	ERZE08A471CS	VARISTOR	
⚠	PC1701	B3PBA0000503	PHOTO COUPLER	
⚠	F1	K5G202Y00006	FUSE	
⚠	P1751	K2AA2B000011	AC INLET	
⚠	R1724	ERJ12YJ105U	1M 1/2W	
⚠	R1726	ERJ12YJ105U	1M 1/2W	
⚠	C1702	F0CAF224A105	0.22uF	
⚠	C1710	F1BAF471A013	470pF	
⚠	C1725	F0CAF154A105	0.15uF	
⚠	C1727	F1BAF1020020	1000pF	
⚠	C1728	F1BAF1020020	1000pF	

1.5.3. Safety Parts List (SC-NE5):

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
⚠	A1	N2QAYC000090	REMOTE CONTROL	
⚠	A2	K2CQ2YY00119	AC CORD	
⚠	A3	VQT4U57	O/I BOOK (Ru/Ur)	

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 (SL-NE5)

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:

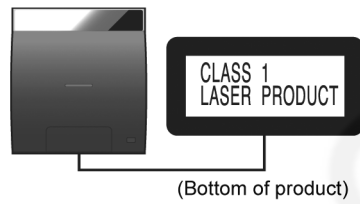
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

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.



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. (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 Precaution for Traverse Assembly

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 Assembly.

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.

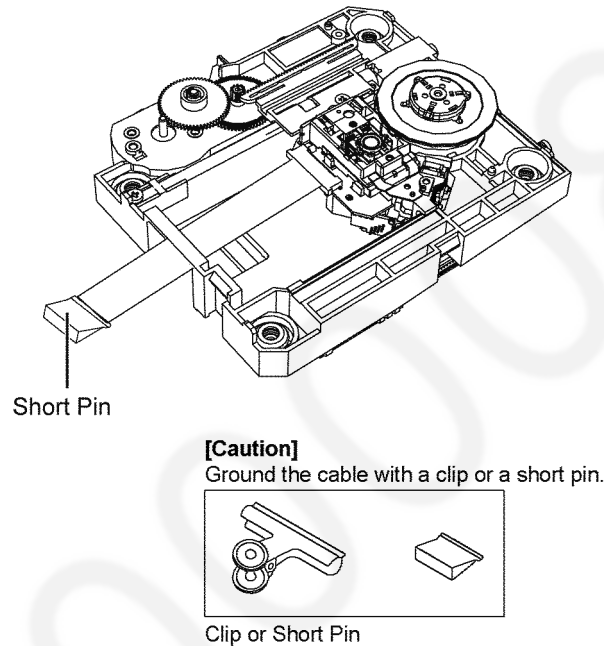


Figure 1

2.4.2. Grounding for electrostatic breakdown prevention

Some devices such as the CD 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 (Figure 2).

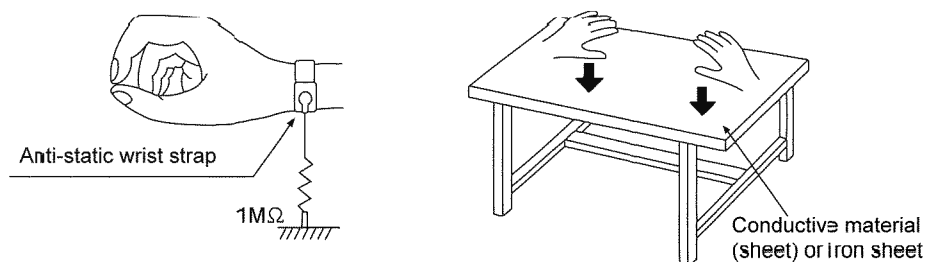


Figure 2

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.

- **Micro-processor:**

- 1) The following components are supplied as an assembled part.
 - Micro-processor IC, (IC51001) (RFKWMNE5PCM) (SL-NE5)
 - Micro-processor IC, (IC51002) (RFKWMNE5PSM) (SB-NE5)

3.2. Troubleshooting Guide

1. About Joining between CD Unit and Speaker Unit (SC-NE5)

■ Caution for repair

- Both CD Unit and Speaker Unit must be required in repairing SC-NE5.

This is because they are joined by using bluetooth in shipping from factory.

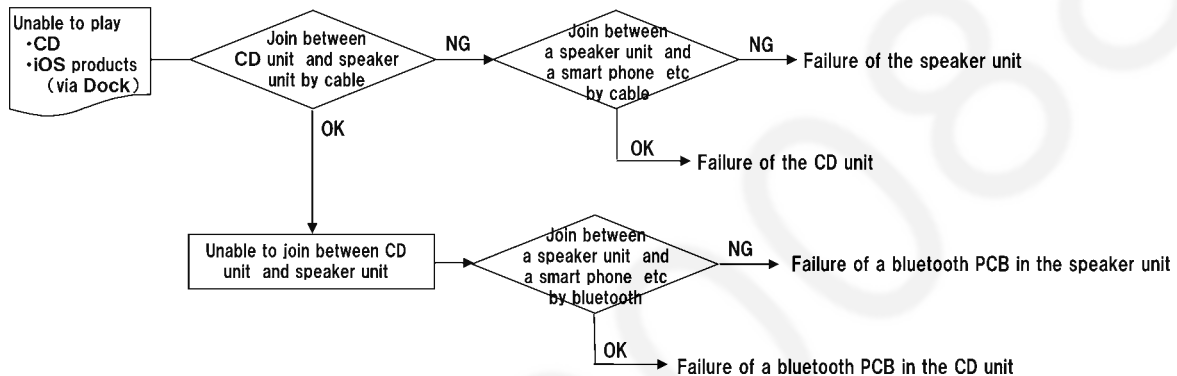
■ Re-setup after repairing

- It would be required to re-setup of joining between CD Unit and Speaker Unit by bluetooth after replacing a bluetooth PCB.

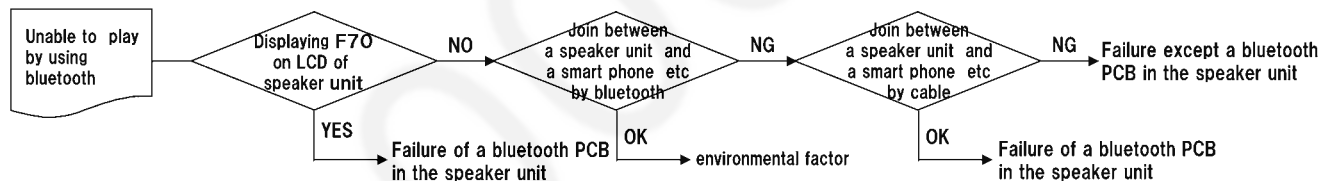
→ Working out the re-setup before checking of operations

2. Flow chart for repairing

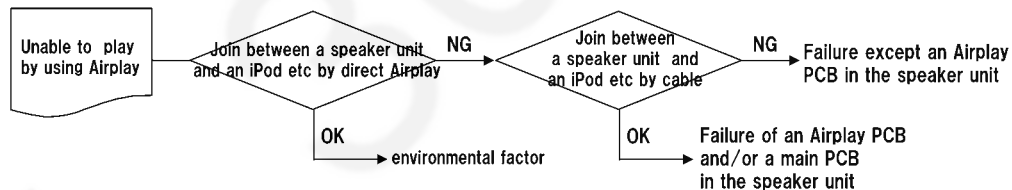
① Unable to play CD or iOS products (via Dock)



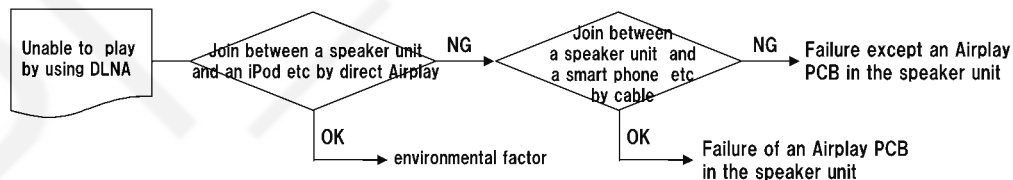
② Speaker Unit:unable to play by using bluetooth



③ Speaker Unit:unable to play by using Airplay



④ Speaker Unit:unable to play by using DLNA



4 Specifications

■ GENERAL

Power consumption	
CD unit	23 W
Speaker unit	14 W
Power consumption in standby mode*1	
CD unit	Approx. 0.3 W
Speaker unit	Approx. 0.3 W
Power consumption in standby mode*1 (When "NET STNBY" is "ON")	
Speaker unit	Approx. 4.0 W
Power supply	AC 220 V to 240 V, 50 Hz
Dimensions (W × H × D)	
CD unit	192 mm × 206 mm × 93 mm
Speaker unit	570 mm × 206 mm × 100 mm
Mass	
CD unit	Approx. 0.9 kg
Speaker unit	Approx. 2.8 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35% to 80 % RH (no condensation)

■ AMPLIFIER SECTION

RMS Output Power Stereo mode	
Front Ch (both ch driven)	20 W per channel (6 Ω), 1 kHz, 10% THD
Total RMS Stereo mode power	40 W

■ TUNER SECTION

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

■ TERMINALS SECTION

iPod Port	
USB Standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32
iPod port power	DC Out 5 V 2.1 A MAX
Lightning Connector	DC Out 5 V 1.0 A MAX
AUX Terminal	Stereo, Ø3.5 mm jack

■ DISC SECTION

Disc 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)

■ SPEAKER SECTION

Type	2 way, 2 speaker system (Bass reflex)
Speaker unit(s)	
1. Woofer	8 cm × 1 per channel
2. Tweeter	2.5 cm × 1 per channel
Impedance	6 Ω
Output sound pressure	83.5 dB/W (1 m)
Frequency range	52 Hz to 25 kHz (—16 dB), 75 Hz to 22 kHz (—10 dB)

■ Wi-Fi/AirPlay SECTION

Wi-Fi

WLAN Standards	IEEE802.11b/g
Frequency range	2.4 GHz band
Security	WEP (64 bit/128 bit), WPA™, WPA2™
WPS version	Version 2.0 (WEP not support)

■ BLUETOOTH SECTION

Version	Bluetooth® Ver.2.1 +EDR
Output	Class 2 (2.5 mW)
Communication distance	About 10 m*2
Communication method	2.4 GHz band FH-SS
Communication profile	A2DP / AVRCP

Note:

*1: When the iPod/iPhone/iPad is not charging.

*2: Prospective communication distance

Measurement environment:

Temperature 25 °C / Height 1 m

Measure in "MODE 1"

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

4.1. License

Made for  iPod  iPhone  iPad  AirPlay	
"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance. AirPlay, the AirPlay logo, iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.	
The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. The Wi-Fi Protected Setup Mark is a mark of the Wi-Fi Alliance. "Wi-Fi", "Wi-Fi Protected Setup", "WPA" and "WPA2" are marks or registered marks of the Wi-Fi Alliance.	
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.	
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DLNA, the DLNA Logo and DLNA CERTIFIED are trademarks, service marks, or certification marks of the Digital Living Network Alliance.	

5 General/Introduction

5.1. Using AirPlay with this system's speakers

Preparation

- Complete the network settings.
- Connect the iOS device or Mac/PC to the same **home wireless network** as this unit.

- 1 Turn the unit on.
 - Check that the Wi-Fi status indicator **lights in blue**.
 - If it doesn't light in blue, check the wireless network settings.
- 2 iOS device: Start the **"Music"** (or iPod) app.
Mac/PC: Start **"iTunes"**.
 - If the Music app on your iOS device is used, select the audio file you want to play.
- 3 Select **"Panasonic NE5 _ _ _ _ _"***1, 2 from the AirPlay icon.
 - ↳ Check the volume settings before starting the playback. (When AirPlay is used for the first time, the volume may be output at the maximum setting.)

e.g., iPhone iOS 6.0.1



e.g., iTunes 11.0

- 4 Start play.
 - The playback will start with a slight delay.



- This unit can be set to turn on automatically when this unit is selected as the output speakers.
- Playback of other audio sources will stop and AirPlay output will have priority.
- Volume changes on the iOS device or iTunes will be applied to this unit. (Refer to the iTunes Help for the required settings in iTunes.)
- With some iOS and iTunes versions, it may not be possible to restart the AirPlay playback if the selector is changed (e.g., "AUX") or the unit is turned off, during the AirPlay playback. In this case, select a different device from the AirPlay icon of the Music App or iTunes and then re-select this unit as the output speakers.
- AirPlay will not work when playing back videos on iTunes.

*1: " _ " stands for a digit that is unique to each set.

*2: The name that is displayed for this unit can be changed from the "Edit STEREO SYSTEM name" settings. ("Advanced network settings")

Directly streaming to this unit (AirPlay)

With this function set to "ON", you can stream music from the iOS device or Mac / PC (iTunes 10.2.2 or later) to this unit without the need of a wireless network router.

- Previous network settings will be deleted when this function is set to "ON".
- The following explanations are based on an iPhone.

- 1 Press [SETUP] repeatedly to select "D.CONNECT".
- 2 Press [▲, ▼] to select "ON" and then press [OK].
- 3 Press [▲, ▼] to select "OK? YES" and then press [OK].

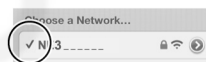
"PW _ _ _ _ _" *1 is displayed.

The 5 digits after "PW" is the password for this network.

- 4 Connect your iPhone to this unit's wireless network named "NE5 _ _ _ _ _" *2.



- 5 Enter the password that is indicated on this unit's display.
- 6 Once the iPhone is connected to this unit's wireless network, the setup is completed.



- 7 Continue to step 2 of "Using AirPlay with this unit's speakers".



- This setting is reset to "OFF" when other network settings are performed.
- When "D.CONNECT" is set to "ON", this unit will not be connected to the Internet. It is not possible to update the software or check the Wi-Fi signal strength.
- When AirPlay is not being used, disconnect the AirPlay compatible device from this network.
- When using a computer on this network, make sure that all the shared files are encrypted.
- This feature is only compatible with the "Open System" authentication method. It is not compatible with "Shared Key" authentication method.

*1: " _ " stands for a digit.

*2: " _ " stands for a digit that is unique to each set.

5.2. Playing back music files on the DLNA server

You can share music files stored in the DLNA Certified media server (PC with Windows 7 installed, smartphone, etc.) connected to your home wireless network, and enjoy the contents with this unit's speaker.

Preparation

- Complete the network settings.
- Connect your device with DMC (Digital Media Controller) compatible software installed to the same **home wireless network** as this unit.
- Add the contents and folder to the libraries of the Windows Media® Player or the smartphone, etc.
 - Playlist of Windows Media® Player can play back only the contents that are stored in the libraries.

- 1 Turn the unit on.
 - Check that the Wi-Fi status indicator **lights in blue**.
 - If it doesn't light in blue, check the wireless network settings.
- 2 Operate the DMC compatible device and connect to this unit.
 - The device name of this unit will be displayed as "Panasonic NE5 _ _ _ _ _" *1, 2.
 - For details on how to use DMC compatible devices, refer to the operating instructions of the devices or the software.

■ Support format of DLNA client

File formats that are not supported by your DLNA server cannot be played.

Audio codec	Example of file extension
MP3	.mp3
WAV	.wav



- Depending on the contents and the connected equipment, playback may not be possible.

*1: " _ " stands for a digit that is unique to each set.

*2: The name that is displayed for this unit can be changed from the "Edit STEREO SYSTEM name" settings. ("Advanced network settings")

5.4. Playable media

Compatible iPod/iPhone/iPad

Compatible with "IPOD_DOCK" connection
(Using Lightning connector)

iPod touch (5th generation)

iPod nano (7th generation)

iPhone 5

Compatible with "IPOD_PORT" connection
[Using dedicated USB cable (not supplied)]

iPod touch

1st, 2nd, 3rd, 4th, and 5th generation

iPod nano

2nd, 3rd, 4th, 5th, 6th, and 7th generation

iPhone 5 / iPhone 4S / iPhone 4 /
iPhone 3GS / iPhone 3G / iPhone

iPad (3rd, and 4th generation) / iPad 2 / iPad

iPad mini

(as of January 2013)



- Compatibility depends on the software version. Update your iPod/iPhone/iPad to the latest software before using it with this system.
- Please be aware that Panasonic accepts no responsibility for the loss of data and/or information.

Compatible CD

- A disc with the CD Logo.



- This system can play back discs that conform to the CD-DA format.
- This system may not be able to play some discs due to the condition of the recording.

Compatible AirPlay devices

iOS 4.3.3 or later

iPod touch

3rd, 4th, and 5th generation

iPhone 5 / iPhone 4S / iPhone 4 / iPhone 3GS

iPad (3rd, and 4th generation) / iPad 2 / iPad

iPad mini

iTunes 10.2.2 or later (Mac / PC)

(as of January 2013)

Compatible USB devices

- This system does not guarantee connection with all USB devices.
- FAT12, FAT16 and FAT32 file systems are supported.
- This system supports USB 2.0 full speed.
- This system can support USB devices of up to 32 GB.

Compatible MP3 files

- Supported format: Files with the extension ".mp3" or ".MP3".
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo).
- Depending on how you create the MP3 files, they may not play in the order you numbered them or may not play at all.

Creating MP3 files on a CD-R/RW

- Maximum number of tracks and albums: 999 tracks and 254 albums (Excluding Root folder).
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- If the disc includes both MP3 and normal audio data (CD-DA), this system plays the type recorded in the inner part of the disc.
- This system cannot play files recorded using packet write.

Creating MP3 files on a USB device

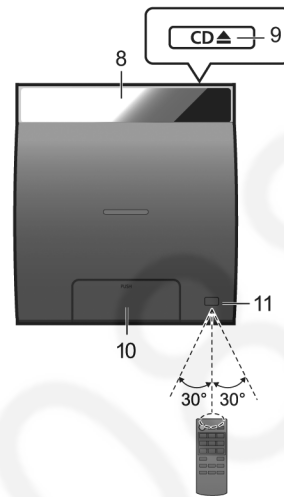
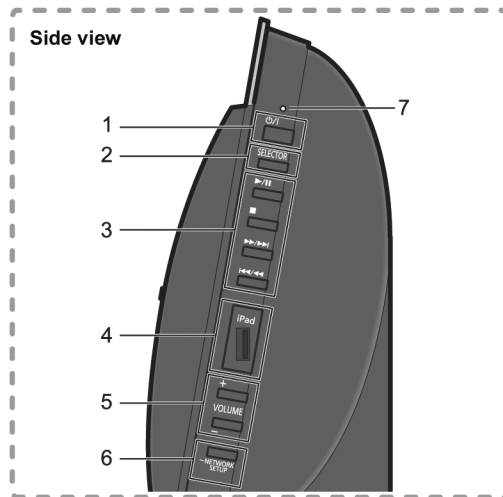
- Maximum number of tracks and albums: 2500 tracks and 254 albums (Excluding Root folder).
- Only one memory card will be selected when connecting a multiport USB card reader, typically the first memory card inserted.

6 Location of Controls and Components

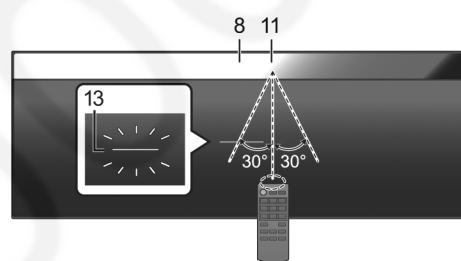
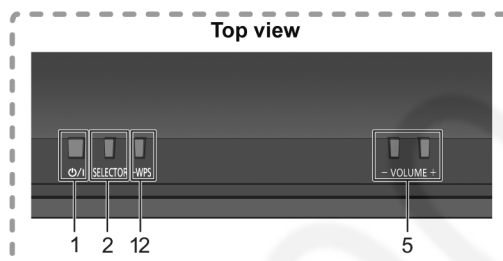
6.1. Main Unit Key Button Operations

This system consists of the CD unit and the speaker unit. The both units are wirelessly connected when turned on.

■ CD unit



■ Speaker unit

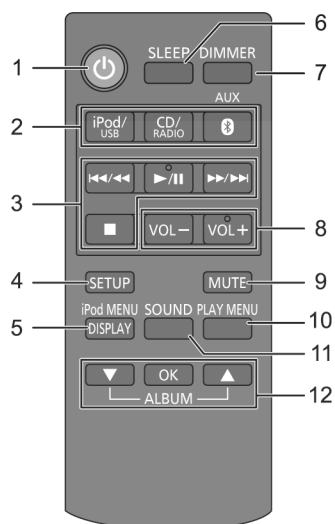


- | | |
|---|---|
| <p>1 Standby/on switch (⏻/⏻)
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.</p> <ul style="list-style-type: none"> • The CD unit and the speaker unit operate simultaneously. Press either standby/on switch to turn both units on or to standby mode. Refer to page 25 when the units do not turn on simultaneously. <p>2 Select the audio source
"CD" → "FM" → "BLUETOOTH" → "AUX"
↑ "IPOD_PORT" / "USB" ← "IPOD_DOCK" ←</p> <p>3 Basic playback control buttons</p> <p>4 iPod port for iPod/iPhone/iPad and USB devices</p> <p>5 Adjust the volume (0 (min) to 50 (max))</p> <p>6 Network setup button</p> | <p>7 Standby/on indicator
While this system is turned on:
The indicator lights in green when the CD unit and the speaker unit are connected successfully, blinks in green when they are connecting, and lights in red when they fail to connect.</p> <p>8 Display</p> <p>9 Open the CD lid</p> <p>10 Dock for iPod/iPhone with Lightning connector</p> <p>11 Remote control signal sensor
Distance:
Within approx. 7 m directly in front.
• To avoid interference, please do not put any objects in front of signal sensor.</p> <p>12 WPS pairing button</p> <p>13 Wi-Fi® status indicator</p> |
|---|---|



- The CD unit's display turns off if the CD unit is left unused for more than 3 minutes and the audio selector is set to an option other than "CD", "IPOD_DOCK", or "IPOD_PORT". To turn the display on, press any button on the CD unit, or select "CD", "IPOD_DOCK", or "IPOD_PORT" as an audio source.
- Placing the CD unit and the speaker unit:
 - Keep a minimum distance of 1 cm between the CD unit and the speaker unit when placing them.
 - The distance between the CD unit and the speaker unit should be a maximum of 10 m. The range can decrease depending on the environment, obstacles or interference.
 - This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if this system is located too close to the devices that use the 2.4 GHz band.
 - This system may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.
 - Do not use this system near equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc).

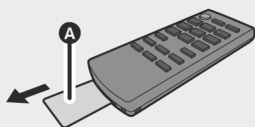
6.2. Remote Control Key Button Operations



- 1 Turn this system on or off
- 2 Select the audio source
[iPod/USB] : "IPOD_DOCK" ↔ "IPOD_PORT" / "USB"
[CD/RADIO] : "CD" ↔ "FM"
[i, AUX] : "BLUETOOTH" ↔ "AUX"
- 3 Basic playback control buttons
- 4 Enter setup menu
- 5 Enter the iPod/iPhone menu /
Change displayed information
- 6 Set the sleep timer
- 7 Change the brightness of the display panel
• Press to dim the display panel.
Press again to cancel.
- 8 Adjust the volume (0 (min) to 50 (max))
- 9 Mute the sound
Mutes the sound. Press again to cancel. "MUTE" is also cancelled when the volume is adjusted or this system is turned off.
- 10 Enter playback menu
- 11 Enter sound menu
- 12 Selection/OK

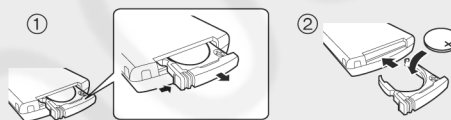
■ Before using for the first time

Remove the insulation sheet **A**.



■ To replace a button-type battery

Battery type: CR2025 (Lithium battery)



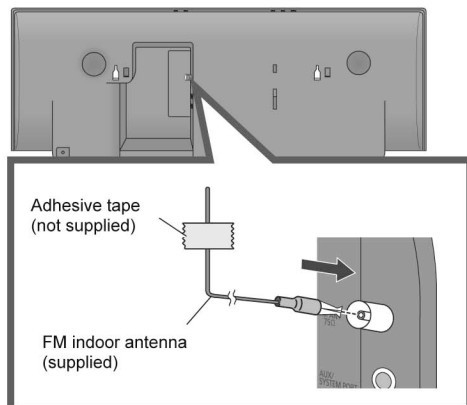
- Set the button-type battery with its (+) mark facing upward.
- Keep the button-type battery out of reach of children to prevent swallowing.

7 Installation Instructions

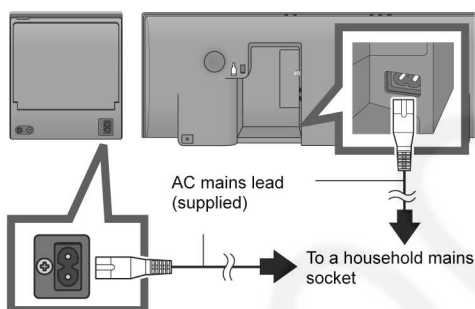
7.1. Connections

Basic connection

- 1 Connect FM indoor antenna (supplied) to the speaker unit.



- 2 Connect the AC mains lead after all other connections are completed.

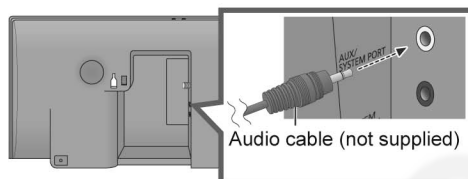


- After connecting the AC mains lead to the mains socket, wait for more than 15 seconds to turn on the Standby/on switch.
- When this system is turned on, the CD unit and the speaker unit are connected wirelessly.
- When this system is turned on for the first time after purchase, a message prompting you to connect a Bluetooth® device ("PAIRING") is displayed.
- This system consumes a small amount of AC power even when turned off.
- In the interest of power conservation, if you will not be using this system for an extended period of time, unplug it from the household mains socket.



- These speakers do not have magnetic shielding. Do not place them near a television, personal computer or other devices easily influenced by magnetism.
- Tape the antenna to a wall or column in a position with the least amount of interference. (Use an FM outdoor antenna if radio reception is poor.)

Connect an external music device (for AUX mode)



- ① Plug the audio cable (not supplied) into the AUX jack.
Plug type: Ø3.5 mm stereo
- ② Press [0, AUX] to select "AUX" and start playback on the connected device.

To select the sound input level of the external device

- ① While in AUX mode, press [PLAY MENU] to select "INPUT LEVEL" and then press [OK].
- ② Press [▲, ▼] to select "NORMAL" or "HIGH".
 - The default setting is "NORMAL".

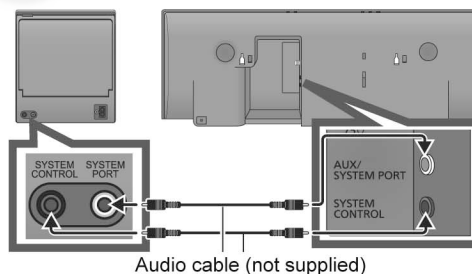


- Switch the equalizer off or turn the volume of the external device down to reduce the input signal. High level of input signal will distort the sound.
- For details, refer to the instruction manual of the other equipment.
- The cables and the devices are not supplied.

Connect the CD unit and the speaker unit with cables (optional)

If the CD unit and the speaker unit are not wirelessly connected, or the output sound is interrupted, connect the both units with two audio cables (plug type: Ø3.5 mm stereo, not supplied) as illustrated below.

- We recommend you use cables of less than 5 m.

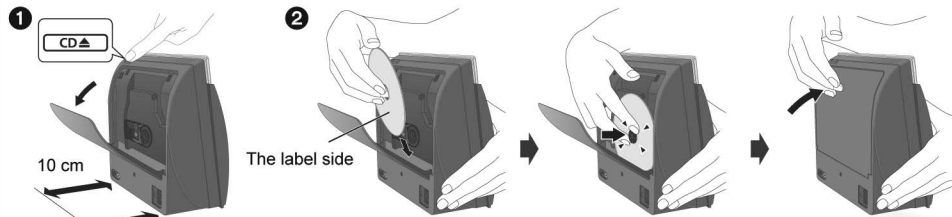


- If the cables are connected, the displays show "WIRED MODE" and this system starts wired communication. This system automatically connects wirelessly when the cables are disconnected.

7.2. Inserting media

Inserting a disc

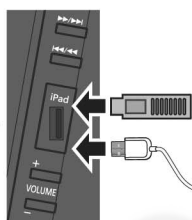
Select "CD" as the source.



- ① Press [CD ▲] to open the lid on the back of the CD unit.
 - Leave a space more than 10 cm behind the unit.
 - Do not place any objects behind the unit.
- ② While holding the unit, push the centre of the CD until it clicks into place, and then close the CD lid.
 - Be careful not to scratch the CD.
 - Make sure you place the centre of the CD onto the CD spindle of the unit.

Note: Remove the CD only after it stops rotating.

Connect an iPod/iPhone/iPad^{1,2} or USB device

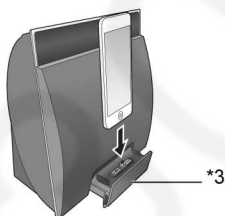


Select "IPOD_PORT" as the source.

- When connecting an iPod/iPhone/iPad, use the dedicated USB cable (not supplied).
- "USB" is displayed when a compatible USB device is inserted.
- Insert the USB device directly. Do not use any USB extension cable.
- Before removing the USB device, select a source other than "USB".

Connect an iPod/iPhone with Lightning connector¹

Select "IPOD_DOCK" as the source.



- Make sure that the unit does not fall when inserting or removing media.
- When moving this unit, be sure to remove all media and turn this unit to standby mode.

*1: Refer to "Playable media" for compatible models.

*2: When using the "IPOD_PORT" connection, do not connect the following models to this unit:
 – iPod classic, iPod [4th (colour display), and 5th (video) generation], iPod nano (1st generation)
 Unexpected behaviour may occur.

■ Charging an iPod/iPhone/iPad⁴

Charging starts when an iPod²/iPhone/iPad is connected to this unit.

- During standby mode, charging will not start from the USB cable connection, however it will start as usual from the Lightning connector.
 - To charge from the USB cable connection, start the charging before turning this unit to standby mode.
- Check the iPod/iPhone/iPad to see if the battery is fully charged. (Once fully recharged, additional recharging will not occur.)
- If this unit is switched to standby mode "IPOD CHARGING" is shown on the unit's display.

*3: When using the "IPOD_DOCK" connection:

- Be sure to remove the iPod/iPhone from its case.
- Make sure that the iPod/iPhone is fully inserted and its back is resting against the cushion pad.
- Make sure to hold the dock when removing the iPod/iPhone.

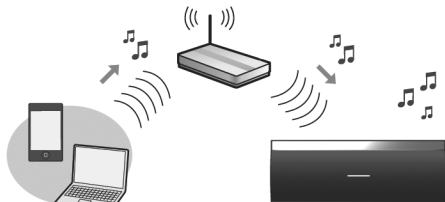
*4: Use the "IPOD_PORT" connection to charge the iPad.

7.3. Network settings

You can wirelessly stream music from an iOS device (iPhone, iPod, iPad), an Android device or a Mac/PC to this system's speakers by using the AirPlay or DLNA feature.

To use these features, this system must join the same 2.4 GHz wireless network as the AirPlay compatible device or the DLNA compatible device.

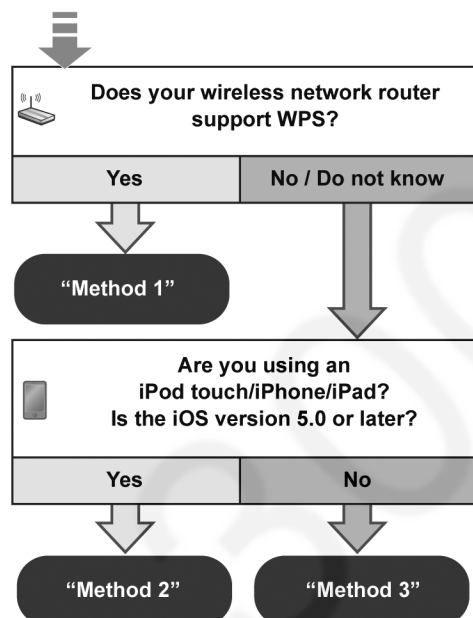
- It is also possible to use AirPlay without a wireless network router. ("Directly streaming to this system (AirPlay)")



Preparation

- Place this system close to the wireless network router.

- 1 Turn this system on.
- 2 Follow the chart below to choose the network setting method.



- If you want to perform wireless setting with your Mac/PC, or you want to apply the advanced setting, try "Method 4".

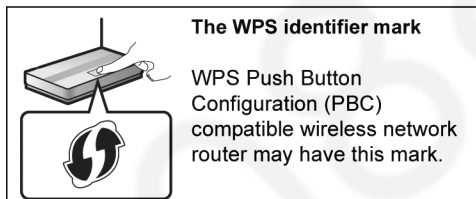


- To cancel this setting in the middle, press [⏻] to turn off this system.
- Simultaneous use with other 2.4 GHz devices, such as microwaves, cordless telephones, etc., may result in connection interruptions.
- For up to date compatibility information on your wireless network router refer to <http://panasonic.jp/support/global/cs/> (This site is in English only.)

Method 1

If your wireless network router supports WPS (Wi-Fi Protected Setup™).

■ Using the WPS Push Button Configuration (PBC)



The WPS identifier mark

WPS Push Button Configuration (PBC) compatible wireless network router may have this mark.

- 1 Press and hold [— WPS] on the speaker unit.
↳ "WPS" flashes on the display.
(The Wi-Fi status indicator blinks blue.)
• Complete step 2 within 2 mins.
 - 2 After "WPS" is indicated, press the WPS button on the wireless network router.
 - 3 The settings are completed when "SUCCESS" is displayed and the Wi-Fi status indicator **stops blinking and lights in blue**.
- "FAIL" may be displayed if the connection was not made within the set time limit. Try the setting again. If "FAIL" is still displayed, try other methods.
- 4 Press [OK] on the remote control to exit the setting.

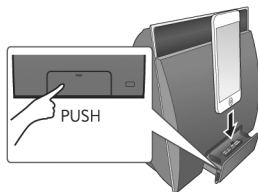
Method 2

If you're using an iPod touch/iPhone/iPad.
(iOS version 5.0 or later.)

With this method you will share the wireless network settings of your iPod touch/iPhone/iPad with this system.

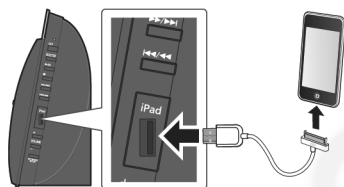
- The following explanations are based on an iPhone.

- 1 Disconnect any devices connected to the CD unit.
- 2 Connect the **iPhone** to your **home wireless network**.
- 3 Connect the **iPhone** to the **CD unit**.
Choose one of the following connections.
"IPOD_DOCK" connection compatible iPod touch/ iPhone:



iPod touch/iPhone/iPad with iOS 5.0 or later:

Connect to the iPod port on the side of the CD unit with a dedicated USB cable.



- 4 Unlock your iPhone and then press and hold **[—NETWORK SETUP]** on the CD unit for more than 3 seconds.
 - If "NOT SUPPORTED" or "SET WI-FI" is displayed, check that the iPhone is connected to the wireless network and try again from step 1.
- 5 A message will pop-up on your iPhone. Allow the iPhone to share the wireless network settings.*1
↳ The Wi-Fi status indicator blinks.
- 6 The settings are completed when "**SUCCESS**" is displayed and the Wi-Fi status indicator **stops blinking and lights in blue**.

If "FAIL" is displayed press [OK] and try the setting again. If "FAIL" is still displayed, try other methods.
• If the iPhone was disconnected midway through, try again without disconnecting it.

- 7 Press [OK] on the remote control to exit the settings.

*1: Depending on the network environment or the wireless network router settings, it may take more than 10 mins. to complete the settings.

Method 3

Setting the network connection with the smartphone app.

You can make the wireless network settings with the app, "Panasonic Stereo System Network Setup" (for free).

If you're using an Android device, download the app at the Google Play Store. If you're using an iPod touch/iPhone/iPad, download it at the App Store.

Preparation

- Connect your smartphone to your home wireless network.
- Check the password for your home wireless network.

- 1 Press **[SETUP]** on the remote control repeatedly to select "**NET SETUP**" and then press **[OK]**.
↳ "SETTING" is indicated on the display.
(The Wi-Fi status indicator blinks purple.)
- 2 Start "**Panasonic Stereo System Network Setup**" on your smartphone and follow the indications.

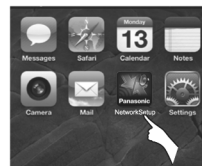
■ Note for the iOS version

After step 2

- 1 Enter the password for the home wireless network to which the iOS device is connected.
- 2 When a message instructing you to connect the iOS device to this system is displayed, press the home button to close the app.
- 3 On the Wi-Fi network selection screen in "Settings", select "00 Setup _ _ _ _ _".
• " _ " stands for a digit that is unique to each set.



- 4 When a message indicating the completion of the connection to this system is displayed, restart the app.



- 5 When a message indicating the completion of the Wi-Fi setup of this system is displayed, close the app, and then check the operation of AirPlay, etc.



- "Panasonic Stereo System Network Setup" for Mac OS is also available at the App Store.

Method 4

Setting the network connection from an Internet browser.

With this method, you will access this system's wireless network settings from the Internet browser of your compatible device.

- The following explanations are based on an iPhone.

- 1 Press **[SETUP]** on the remote control repeatedly to select **"NET SETUP"** and then press **[OK]**.
↳ "SETTING" is indicated on the display.
(The Wi-Fi status indicator blinks purple.)

- 2 After "SETTING" is indicated, connect your compatible device to this system's wireless network named **"00 Setup _ _ _ _ _"**.
 - " _ " stands for a digit that is unique to each set.
 - Make sure that DHCP is enabled for the network setting on your compatible device.



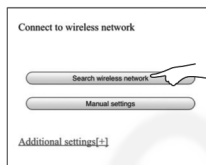
- 3 Start the Internet browser on your compatible device and type **"http://192.168.1.12/"** into the URL address field and display the page.



↳ This system's setup window is displayed.

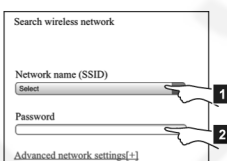
- **Examples of Internet browsers**
iOS device/Mac : Safari
Android device : Google Chrome browser
PC : Windows Internet Explorer

- 4 Select **"Search wireless network"**.



- 5 Select and input the details.

- Check your **home wireless network name** (Network name (SSID)) and **password** for this network. This can often be found on the wireless network router itself.



- 1 Select your **home wireless network name**.^{*1}
- 2 Type the **password**.

- 6 Select **"JOIN"** to apply the settings.
 - In the pop-up screen, select **"OK"** to continue.
– Select **"Cancel"** to return to the setup window.

- 7 The settings are completed when **"SUCCESS"** is displayed and the Wi-Fi status indicator **stops blinking and lights in blue**.

If **"FAIL"** is displayed press **[OK]**, check the wireless network password and other settings and start again from step 1.

- 8 Make sure to connect your compatible device back to your **home wireless network**.

^{*1}: If you have set your wireless network to be invisible, select **"BACK"** and refer to "Alternative settings".

Advanced network settings

- The below settings are the alternative or additional settings for "Method 4".

Alternative settings

Instead of steps 4 and 5

Select **"Manual settings"**.

- 1 Type your **home wireless network name** into the "Network name (SSID)" field.
- 2 Select the **encryption method** from the "Security system" drop down list.
- 3 Type the **password** into the "Password" field and then select **"JOIN"**.

Additional settings

If your home wireless network has been configured to use specific IP Addresses, Subnet Mask, Default Gateway, Primary DNS, etc.

Before step 6

Select **"Advanced network settings"**.

↳ Input the required addresses into each field and select **"JOIN"**.

- To change the settings back to DHCP, select **"ON"** from the "DHCP" drop down list.

If you want to change the name of this system that is displayed as the AirPlay speakers or DLNA renderer.

Before step 4

Select **"Additional settings"**.

- 1 Select **"Edit STEREO SYSTEM name"**.
- 2 Type a new name into the "STEREO SYSTEM name" field.
↳ Only ASCII characters can be used.
- 3 Select **"OK"**.
- 4 If this system is already connected to your home wireless network:
– Select **"Additional settings"**, and then select **"Exit"**.

If this system is not connected to your home wireless network:

– Continue to **step 4** of "Method 4".



- Enable Java and Cookies in your browser settings.
- This system can also be set using the WPS PIN code. Replace step 2 of "Method 1" with the following steps.
(Before starting, refer to the wireless network router's operating instructions for details on how to enter the PIN code.)
 - 1 While "WPS" is flashing press and hold **[– WPS]** again to display the 8 digit PIN code.
↳ Wi-Fi status indicator blinks purple.
 - 2 Enter the PIN code into the wireless network router.

8 Service Mode

This unit is equipped with features of self diagnostic & doctor mode setting for checking the functions & reliability.

8.1. Self Diagnostic Mode

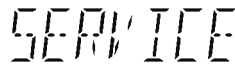
Here is the procedures to enter into Self Diagnostic Mode.

Step 1: Turn on the unit.

Step 2: Select SELECTOR mode.

Step 3: Press and hold [SELECTOR] button for 2 seconds follow by [VOL+] on the unit.

Step 4: The display show as follow.

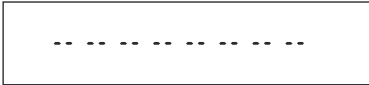


To exit the Self Diagnostic Mode

Use either one of the following methods to cancel the Self Diagnostic Mode.

- Press the power button on the main unit or using the remote control.
- Unplug the AC cord.

8.1.1. Self Diagnostic Table

Item		FL display	Key operation
Mode name	Description		
Self Diagnostic Mode	To enter into self diagnostic checking.		Step 1 : Select CD mode (Ensure no disc is inserted). Step 2 : Press and hold [SELECTOR] follow by [VOL+] on main unit for 2 second.
Error code information	System will perform a check on any unusual/error code from the memory.	Example: 	Step 1 : In self diagnostic mode, Press [STOP] 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.
Cold Start	To activate cold start upon next power up. (Backup date are initialized)		Step 1 : In service mode: Press [SETUP] button on the remote control of HC55. To exit, press [⏻] on main unit or remote control.

8.2. Self Diagnostic Function Error Code

8.2.1. Power Amp Error Code Table

Error Code	Diagnostic Contents	Description of error	Automatic FL Display	Remarks
F61/F76	Power Amp IC output abnormal.	During power-on, PDET1, PDET2 & MAINV_DET / TEMP_DET is "L" after 1 sec.	F61 F76	Press [■] on main unit for next error.

8.2.2. AirPlay Error Code Table

Error Code	Diagnostic Contents	Description of error	Automatic FL Display	Remarks
F27	Air Play Communication	Communication between Air Play module and micro-p abnormal.	F27	Press [■] on main unit for next error.

8.2.3. Bluetooth Error Code Table

Error Code	Diagnostic Contents	Description of error	Automatic FL Display	Remarks
F70	Bluetooth Communication	Communication between module and micro-p abnormal.	F70	Press [■] on main unit for next error.

8.2.4. CD Error Code Table

Error Code	Diagnostic Contents	Description of error	Automatic FL Display	Remarks
F26	LSI Communication	Communication between CD servo LSI and micro-p abnormal (include iPod, USB).	F26	Press [■] on main unit for next error.

8.3. Doctor Mode Table (SB-NE5)

Note: To enter the Doctor Mode, please use HC55 remote control.

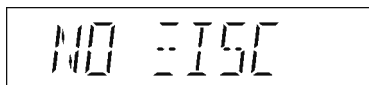
Here is the procedures to enter into Doctor Mode.

Step 1: Turn on the unit.

Step 2: Select CD mode.

Step 3: Pressing and hold [SELECTOR] on main unit then press [4] follow by [7] using the remote control.

Step 4: The display show as follow.



To exit the Doctor mode

Use either one of the following methods to cancel the Doctor mode.

- Press the power button of the unit or using the remote control.
- Unplug the AC cord.

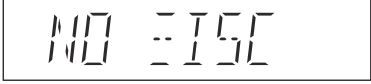
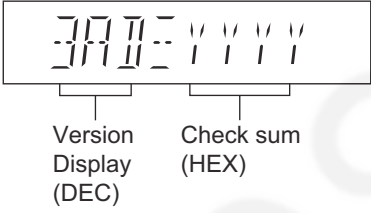
8.3.1. Doctor Mode Table 1

Item		FL display	Key operation
Mode name	Description		Front Key
Doctor Mode	To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version. Note: The micro-processor version as shown is an example. It will be revise when there is an updates. FL Display sequence Display 1→2	(Display 1) Checksum: (Condition 1) (Display 2) The Checksum of EEPROM and firmware version will be display for 2 sec.	In any mode: Press [SELECTOR] button on main unit follow by [4] and the [7] on the remote control of HC55. To exit Doctor Mode, press [0/1] button on main unit or on the remote control of HC55.

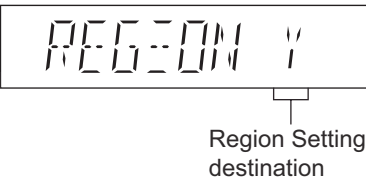
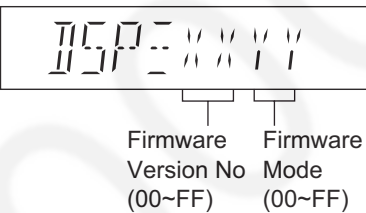
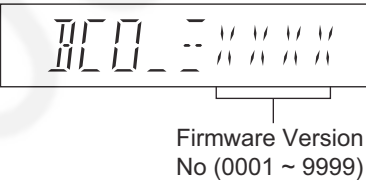
8.3.2. Doctor Mode Table 2

Item		FL display					Key operation																													
Mode name	Description						Front Key																													
FL Display Test	To check the FL segments display (All segments will light up).						In Doctor mode: Press [1] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.																													
Tact SW Inspection	To conduct the acceptance of all keys on the main set.	<table><tr><th>No</th><th>NE3/5 (SP unit)</th><th>NE1</th><th>FL Display</th><th>Remarks</th></tr><tr><td>1</td><td>POWER</td><td>POWER</td><td></td><td>1st digit of FL</td></tr><tr><td>2</td><td>SELEC-TOR</td><td>SELEC-TOR</td><td></td><td>2nd digit of FL</td></tr><tr><td>3</td><td>WPS</td><td>D.BASS</td><td></td><td>3rd digit of FL</td></tr><tr><td>4</td><td>VOL-</td><td>VOL-</td><td></td><td>4th digit of FL</td></tr><tr><td>5</td><td>VOL+</td><td>VOL+</td><td></td><td>5th digit of FL</td></tr></table>	No	NE3/5 (SP unit)	NE1	FL Display	Remarks	1	POWER	POWER		1 st digit of FL	2	SELEC-TOR	SELEC-TOR		2 nd digit of FL	3	WPS	D.BASS		3 rd digit of FL	4	VOL-	VOL-		4 th digit of FL	5	VOL+	VOL+		5 th digit of FL				In Doctor mode: In Bluetooth selector, press [2] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.
No	NE3/5 (SP unit)	NE1	FL Display	Remarks																																
1	POWER	POWER		1 st digit of FL																																
2	SELEC-TOR	SELEC-TOR		2 nd digit of FL																																
3	WPS	D.BASS		3 rd digit of FL																																
4	VOL-	VOL-		4 th digit of FL																																
5	VOL+	VOL+		5 th digit of FL																																
Volume Setting	To check for preset volume setting. Note : In tuner mode this function is not possible.						In Doctor mode: Press [7] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.																													
							In Doctor mode: Press [8] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.																													
							In Doctor mode: Press [9] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.																													

8.3.3. Doctor Mode Table 3

Item		FL display	Key operation
Mode name	Description		Front Key
Cold Start	To activate cold start upon next power up. (Backup date are initialized)	 The [NO DISC] display will appear after 2s. 	In Doctor mode: Press [SLEEP] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.
EEPROM Checksum	To check sum of EEPROM for a simplified ROM correction. 1. When EEPROM is not detected, the only micro-p's version shall be displayed without an EEPROM's check sum.	 EEPROM not detected only firmware is display. 	In any mode: Press [SELECTOR] button on main unit follow by [4] and the [7] on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.

8.3.4. Doctor Mode Table 4

Item		FL display	Key operation
Mode name	Description		Front Key
Region Checking	To check Region setting of unit. Refer to 8.3.5 for the Region Setting destination.		In Doctor mode: Press [$\frac{1}{10}$] button follow by [1] and then [6] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/] button on main unit or on the remote control of HC55.
Bluetooth Version Check	To check Bluetooth version setting of unit.	 v = flash version (0~7), w = flash sub version (0~F), x = control version (0~F)	In Doctor mode: Press [Play Timer] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/] button on main unit or on the remote control of HC55.
Yamaha DSP Version Check	To check DSP Firmware mode and Version No.		In Doctor mode: Press [6] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/] button on main unit or on the remote control of HC55.
Air Play Version Check	To check Air Play firmware version.		In Doctor mode: Press [5] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/] button on main unit or on the remote control of HC55.

8.3.5. Region Check Table

Region	Model	Series	Country
1	NE5/3/1	P/PC	North America
2 (D)	NE5/3/1	Japan	Japan
4	NE5/3/1	EG	UK, Germany, France
5	NE5/3	EB	UK
7	NE5/1	PU/GS	S.E. Asia
9	NE5/3/1	GN	Oceania

8.4. Doctor Mode Table (SL-NE5)

Note: To enter the Doctor Mode, please use HC55 remote control.

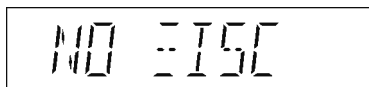
Here is the procedures to enter into Doctor Mode.

Step 1: Turn on the unit.

Step 2: Select CD mode.

Step 3: Pressing and hold [STOP (■)] on main unit then press [4] follow by [7] using the remote control.

Step 4: The display show as follow.



To exit the Doctor mode

Use either one of the following methods to cancel the Doctor mode.

- Press the power button of the unit or using the remote control.
- Unplug the AC cord.

8.4.1. Doctor Mode Table 1

Item		FL display	Key operation
Mode name	Description		Front Key
Doctor Mode	To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version. Note: The micro-processor version as shown is an example. It will be revise when there is an updates. FL Display sequence Display 1→2	(Display 1) Checksum: (Condition 1) (Display 2) The Checksum of EEPROM and firmware version will be display for 2 sec.	In any mode: Press [STOP (■)] button on main unit follow by [4] and the [7] on the remote control of HC55. To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC55.

8.4.2. Doctor Mode Table 2

Item		FL display		Key operation																																								
Mode name	Description			Front Key																																								
FL Display Test	To check the FL segments display (All segments will light up).			In Doctor mode: Press [1] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻/1] button on main unit or on the remote control of HC55.																																								
Tact SW Inspection	To conduct the acceptance of all keys on the main set.	<table><tr><th>No</th><th>Tact Switch Key NE5 (CD unit)</th><th>FL Display</th><th>Remarks</th></tr><tr><td>1</td><td>POWER</td><td></td><td>1st digit of FL</td></tr><tr><td>2</td><td>SELECTOR</td><td></td><td>2nd digit of FL</td></tr><tr><td>3</td><td>▶/ </td><td></td><td>3rd digit of FL</td></tr><tr><td>4</td><td>STOP ■</td><td></td><td>4th digit of FL</td></tr><tr><td>5</td><td>F.SKIP</td><td></td><td>5th digit of FL</td></tr><tr><td>6</td><td>R.SKIP</td><td></td><td>6th digit of FL</td></tr><tr><td>7</td><td>VOL-</td><td></td><td>7th digit of FL</td></tr><tr><td>8</td><td>VOL+</td><td></td><td>8th digit of FL</td></tr><tr><td>9</td><td>NETWORK SETUP</td><td></td><td>1st digit of FL</td></tr></table>		No	Tact Switch Key NE5 (CD unit)	FL Display	Remarks	1	POWER		1 st digit of FL	2	SELECTOR		2 nd digit of FL	3	▶/		3 rd digit of FL	4	STOP ■		4 th digit of FL	5	F.SKIP		5 th digit of FL	6	R.SKIP		6 th digit of FL	7	VOL-		7 th digit of FL	8	VOL+		8 th digit of FL	9	NETWORK SETUP		1 st digit of FL	In Doctor mode: In CD selector, press [2] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻/1] button on main unit or on the remote control of HC55.
No	Tact Switch Key NE5 (CD unit)	FL Display	Remarks																																									
1	POWER		1 st digit of FL																																									
2	SELECTOR		2 nd digit of FL																																									
3	▶/		3 rd digit of FL																																									
4	STOP ■		4 th digit of FL																																									
5	F.SKIP		5 th digit of FL																																									
6	R.SKIP		6 th digit of FL																																									
7	VOL-		7 th digit of FL																																									
8	VOL+		8 th digit of FL																																									
9	NETWORK SETUP		1 st digit of FL																																									

8.4.3. Doctor Mode Table 3

Item		FL display	Key operation																																																																		
Mode name	Description		Front Key																																																																		
Reliability Test Mode	To determine the traverse unit operation for inner and outer access track. In this mode,ensure the CD is in the main unit. Note: Refer to Section 8.4.5 Figure 8-1 for process flow.	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.																																																																		
CD Self- Adjustment Test	To display result of self-adjustment for CD.	Display of auto adjustment result Reference table: <table><tr><th>ERROR Code 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>2ndAOC1</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/TAGC</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> O : OK; X : NG (In case that time out happens.) ※: Either one of FO AOC, TR AOC and FO coarse AGC is NG. △: If the AGC is NG (ignore others).	ERROR Code 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 nd AOC1	O	-	O	X	X	O	O	X	X	-	FAGC/TAGC	O	-	O	O	O	X	X	X	X	-	AGC2	O	-	O	O	O	O	O	O	O	△	In Doctor Mode: 1. Press [10] →[1]→ [4] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
ERROR Code 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 nd AOC1	O	-	O	X	X	O	O	X	X	-																																																											
FAGC/TAGC	O	-	O	O	O	X	X	X	X	-																																																											
AGC2	O	-	O	O	O	O	O	O	O	△																																																											
Cold Start	To activate cold start upon next power up. (Backup date are initialized)	The [NO DISC] display will appear after 2s.	In Doctor mode: Press [SLEEP] button on the remote control of HC55. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [0/1] button on main unit or on the remote control of HC55.																																																																		

8.4.4. Doctor Mode Table 4

Item		FL display	Key operation
Mode name	Description		Front Key
CD LSI 947 Version Check	To check CD LSI Version No. and checksum correction.	13011111 Year of sales Running version number ROM type The display will appear after 2s, 50111111 Check sum display (HEX) The [NO DISC] display will appear after 2s, NO 1150	In Doctor mode: Press [4] button on the remote control of HC55. To cancel, press [0] button on the remote control. It returns Doctor Mode. To exit Doctor Mode, press [⏻/i] button on main unit or on the remote control of HC55.

8.4.5. Reliability Test Mode (CD Mechanism Unit)

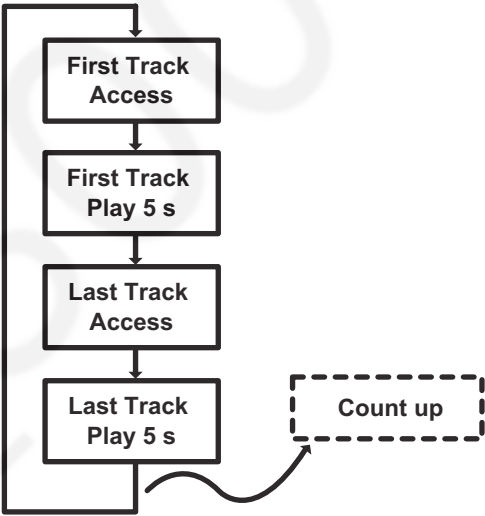


Figure 8-1

9 Service Fixture & Tools (SL-NE5)

Prepare service tools before process service position.

Ref. No.	Service Tools		Remarks
SFT1	Main P.C.B. (CN58001) - SMPS P.C.B. (P1700)	REX1538 (7P Wire)	
SFT2	Main P.C.B. (CN55001) - CD Servo P.C.B. (CN7002)	REE1712 (30P FFC Cable)	

10 Disassembly and Assembly Instructions (SL-NE5)

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)

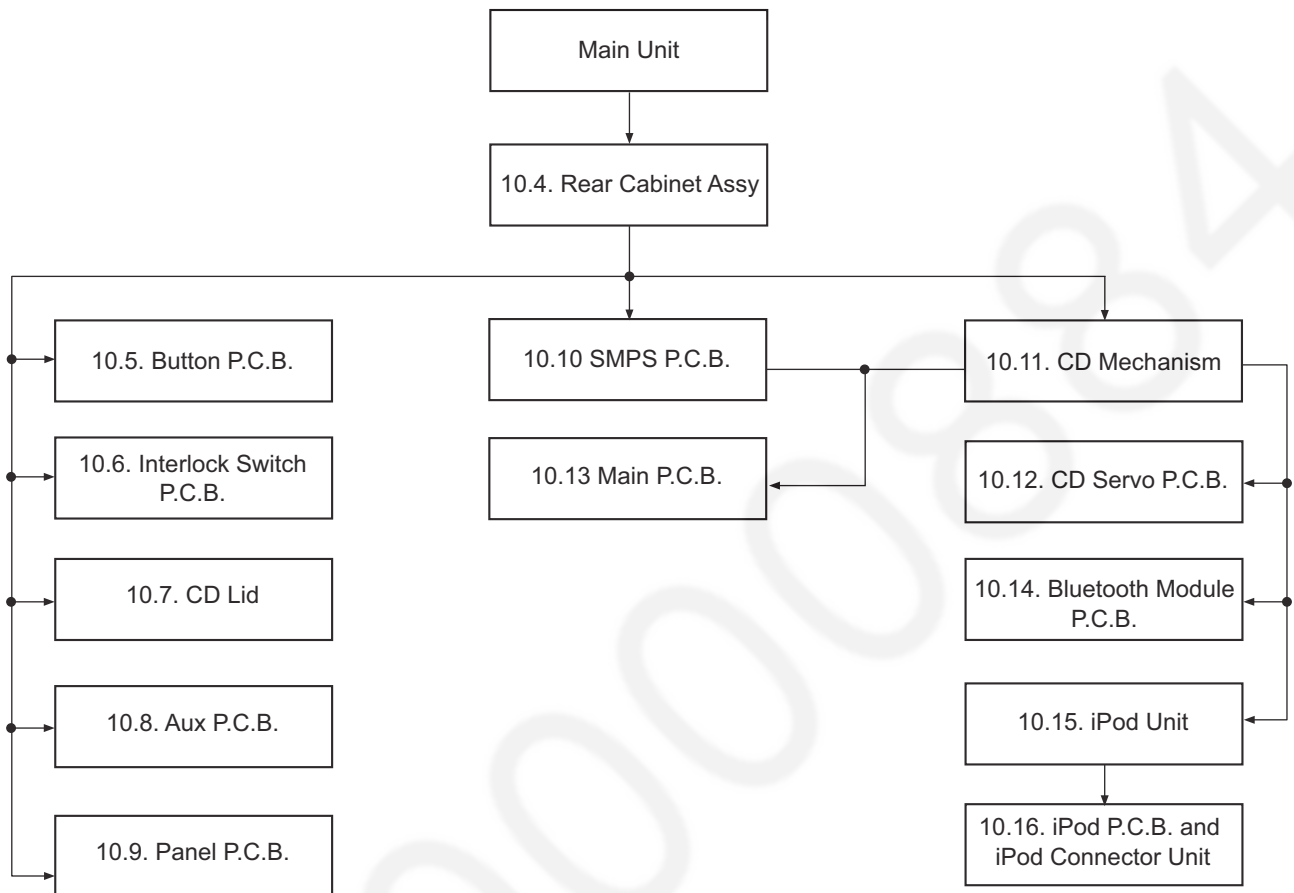
**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

- 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 Rear Cabinet Assy
 - Disassembly of Button P.C.B.
 - Disassembly of Interlock Switch P.C.B.
 - Disassembly of CD Lid
 - Disassembly of Aux P.C.B.
 - Disassembly of Panel P.C.B.
 - Disassembly of SMPS P.C.B.
 - Disassembly of CD Mechanism
 - Disassembly of CD Servo P.C.B.
 - Disassembly of Main P.C.B.
 - Disassembly of Bluetooth Module P.C.B.
 - Disassembly of iPod Unit
 - Replacement of iPod P.C.B. and iPod Connector Unit

10.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.



10.2. Types of Screws

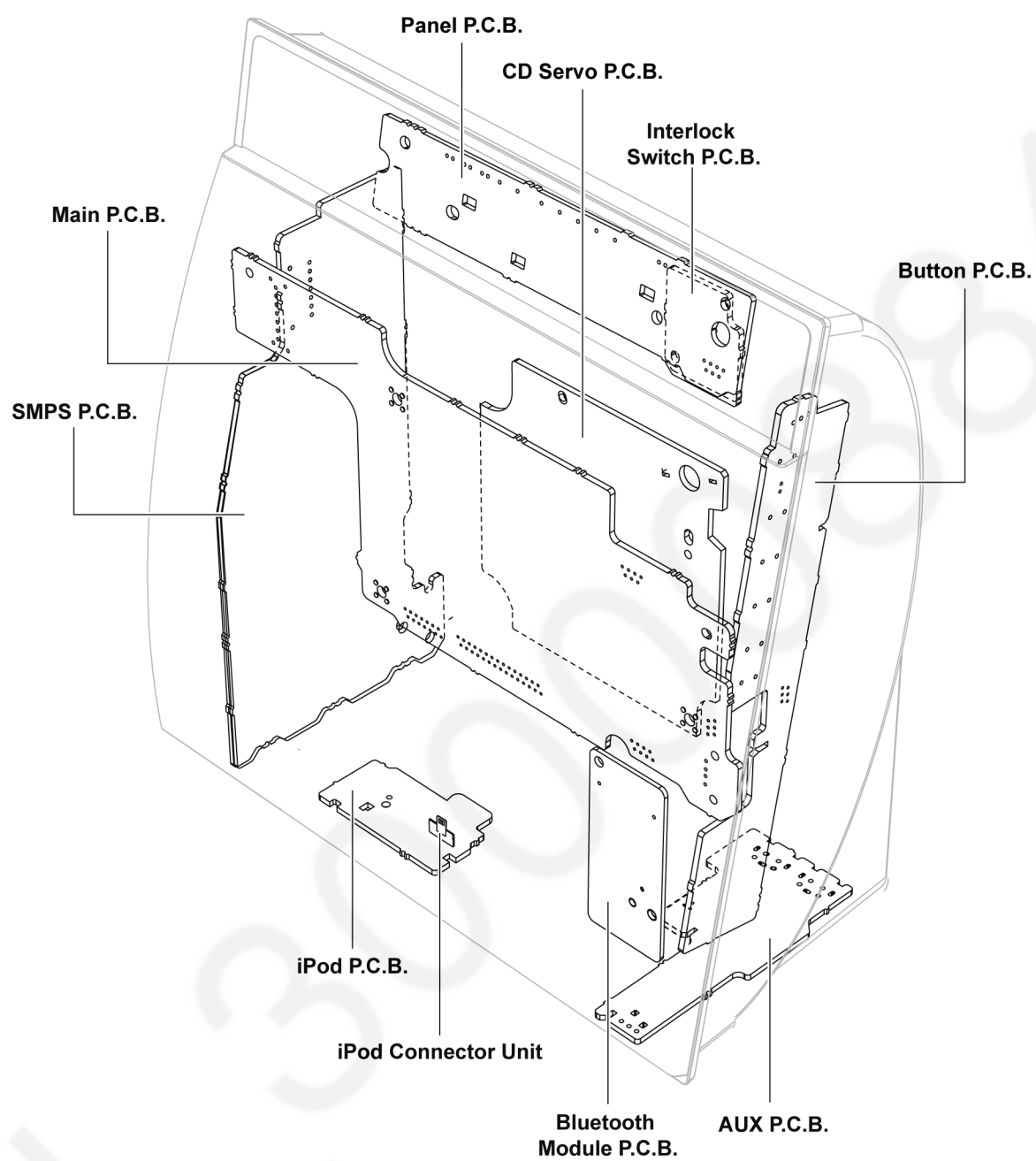
CAUTION NOTE:

Please use original screw and at correct locations.

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

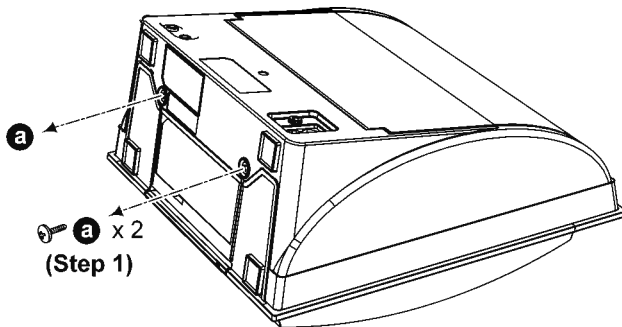
- | | |
|-----------------------|----------------------|
| a :RHD26046 | d :RHD26043-1 |
| b :XTB3+10JFJK | e :VHD1224-1A |
| c :XTN2+6GFJ | |

10.3. Main Parts Location Diagram

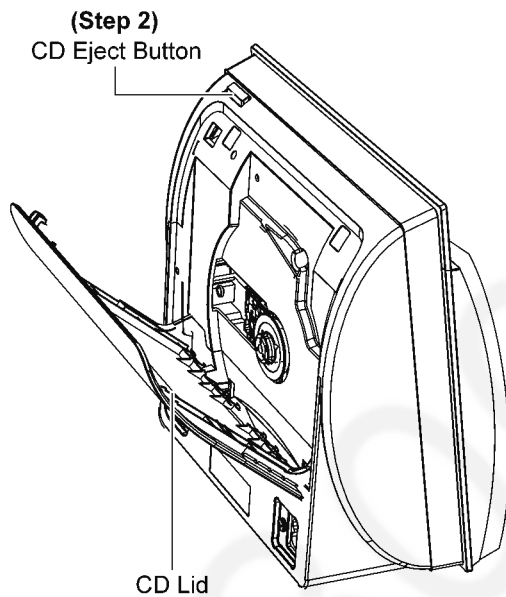


10.4. Disassembly of Rear Cabinet Assy

Step 1 Remove 2 screws.

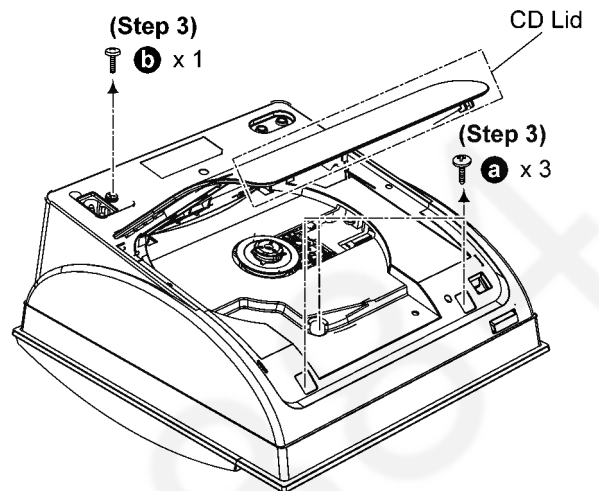


Step 2 Press the CD Eject Button to open the CD Lid.



Step 3 Remove 4 screws.

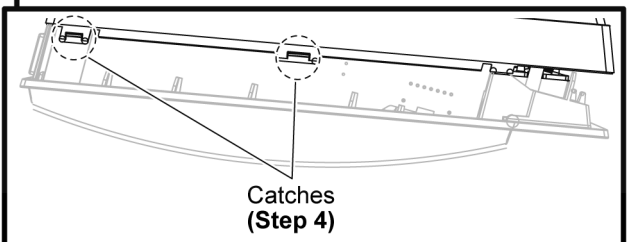
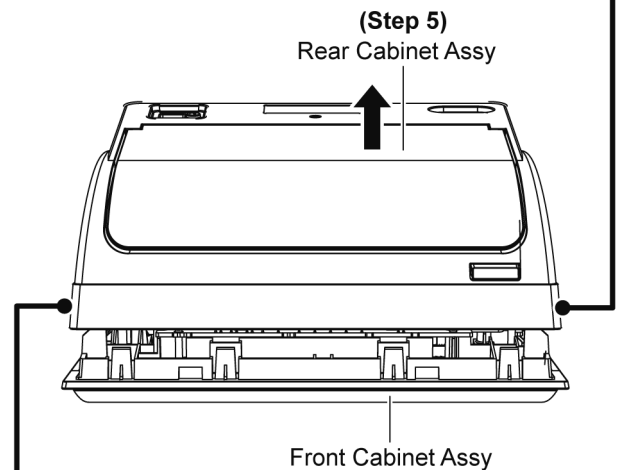
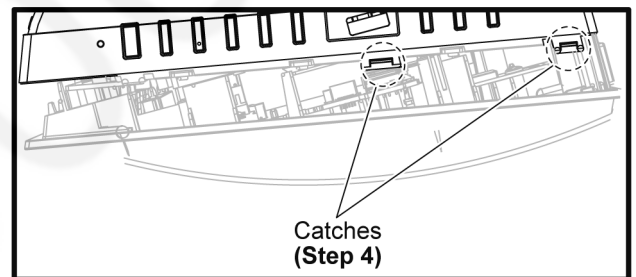
Caution: During assembling/disassembling, avoid touching the CD Lid with screwdriver to prevent dent.



Step 4 Release 4 catches.

Step 5 Lift up the Rear Cabinet Assy.

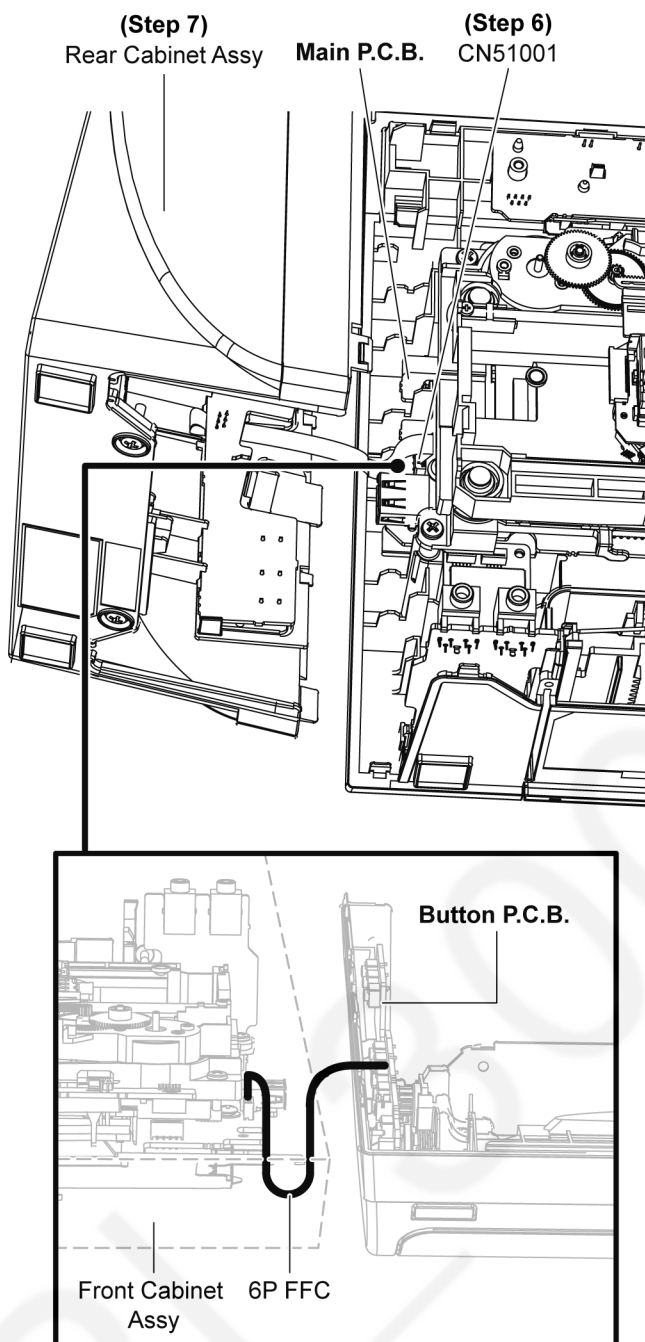
Caution: During assembling, ensure that the Rear Cabinet Assy is fully fix and caught to the Front Cabinet Assy.



Step 6 Detach 6P FFC at the connector (CN51001) on Main P.C.B..

Step 7 Remove the Rear Cabinet Assy.

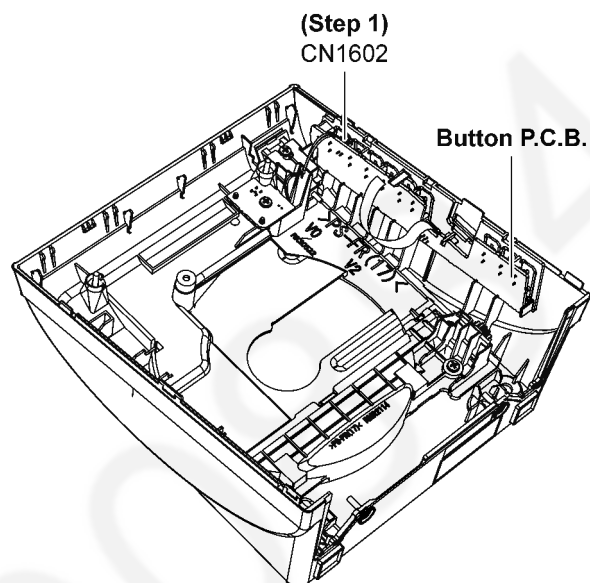
Caution: During assembling, ensure 6P FFC is slot in Front Cabinet Assy.



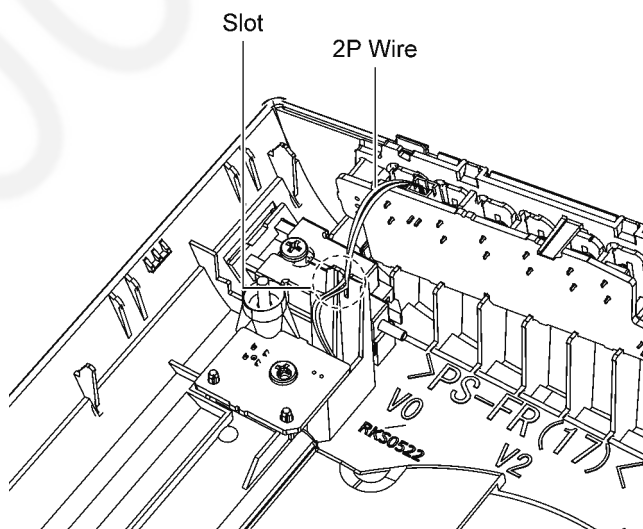
10.5. Disassembly of Button P.C.B.

- Refer to "Disassembly of Rear Cabinet Assy".

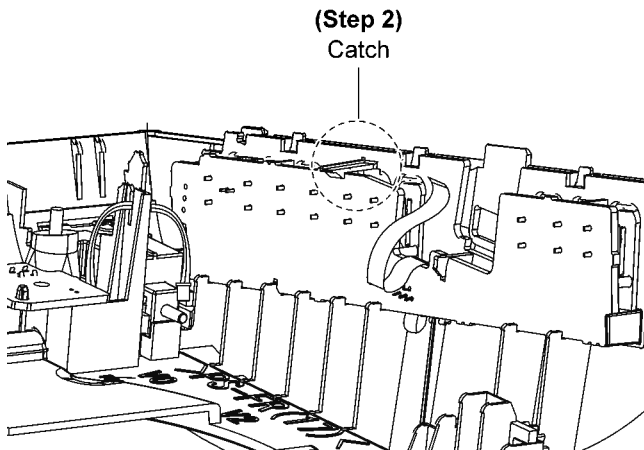
Step 1 Detach 2P Wire at the connector (CN1602) on Button P.C.B..



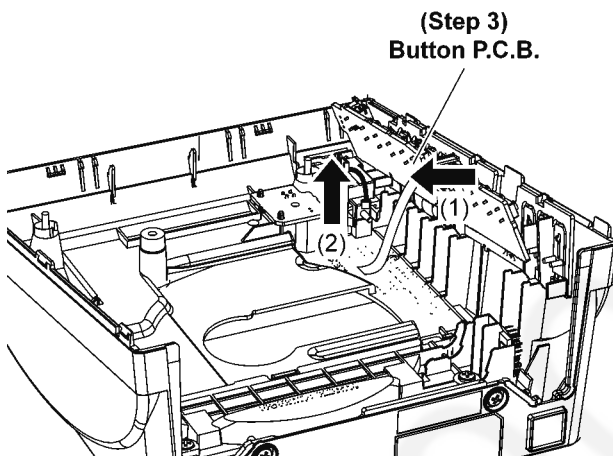
Caution: During assembling, ensure that the 2P Wire is properly inserted in the slot.



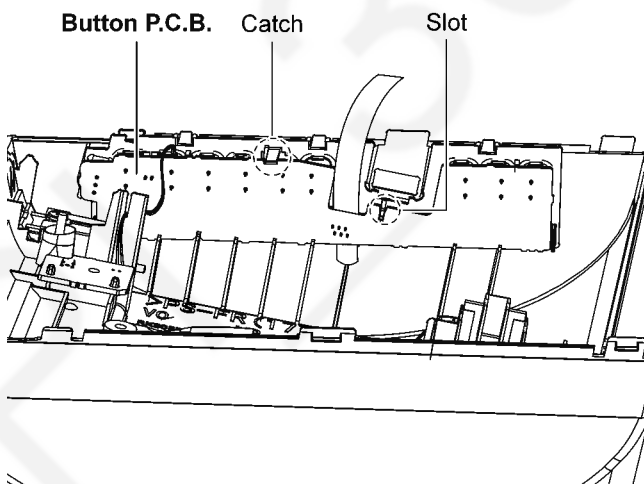
Step 2 Release 1 catch.



Step 3 Remove the Button P.C.B. as arrows shown respectively.



Caution: During assembling, ensure that the Button P.C.B. is fully caught and properly seated onto the Rear Cabinet Assy.

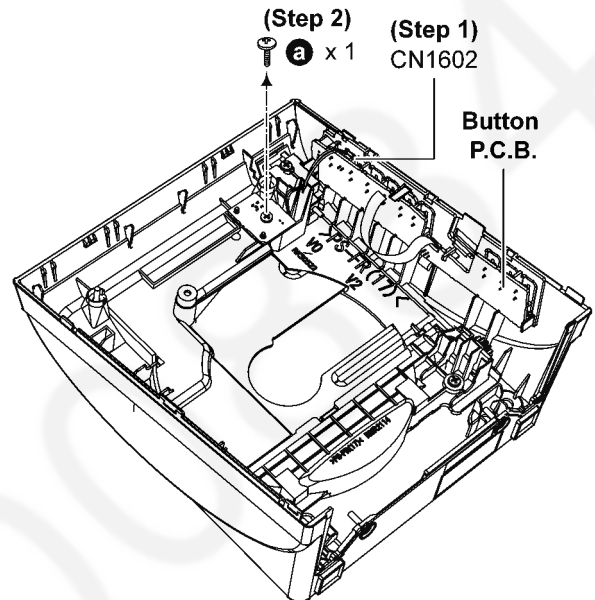


10.6. Disassembly of Interlock Switch P.C.B.

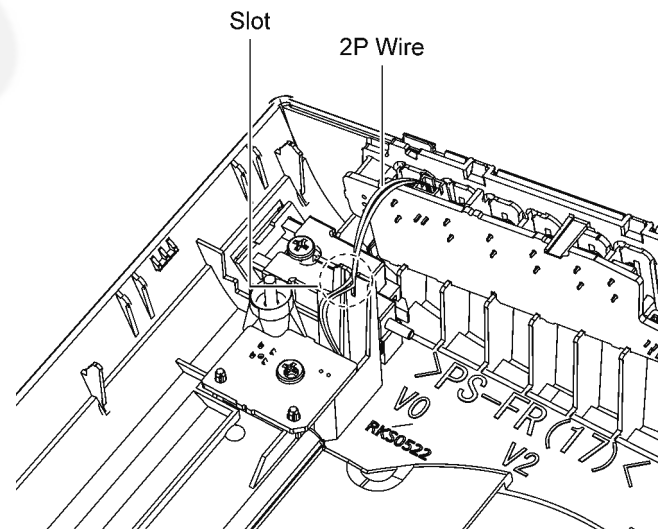
• Refer to "Disassembly of Rear Cabinet Assy".

Step 1 Detach 2P Wire at the connector (CN1602) on Button P.C.B..

Step 2 Remove 1 screw.

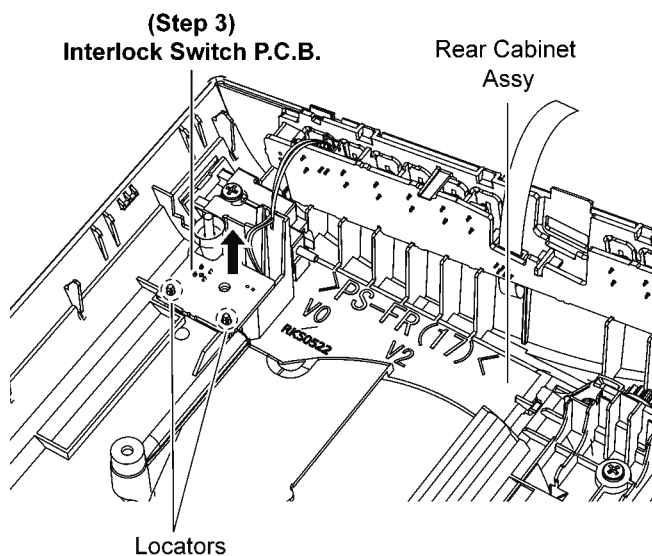


Caution: During assembling, ensure that the 2P Wire is properly inserted in the slot.



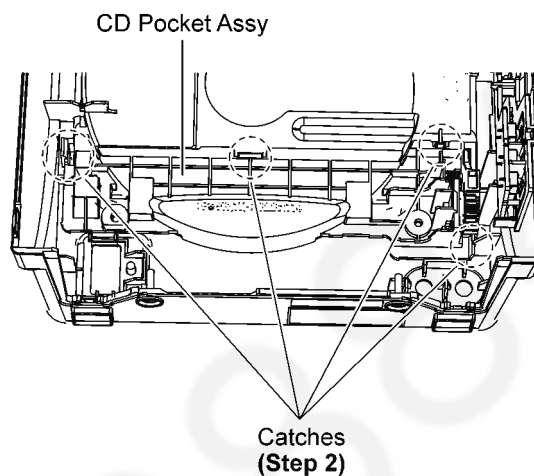
Step 3 Lift up and remove the Interlock Switch P.C.B..

Caution: During assembling, ensure that the Interlock Switch P.C.B. is properly located and fully seated onto the Rear Cabinet Assy.



Step 2 Release 4 catches.

Caution: During assembling, ensure that the CD Pocket Assy is properly located and fully seated onto the Rear Cabinet Assy.

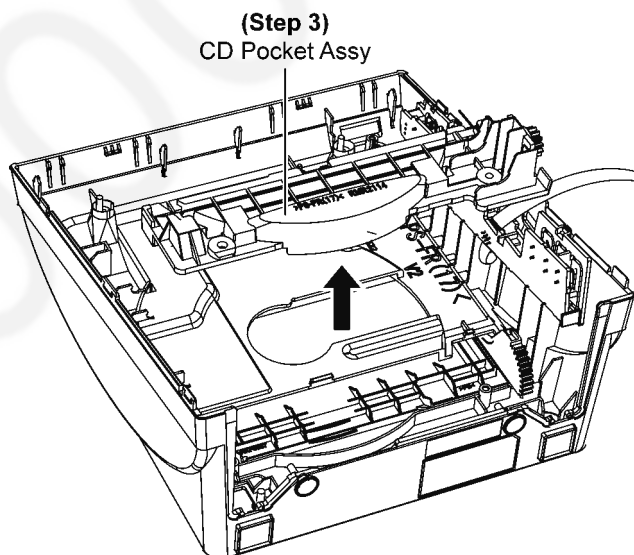
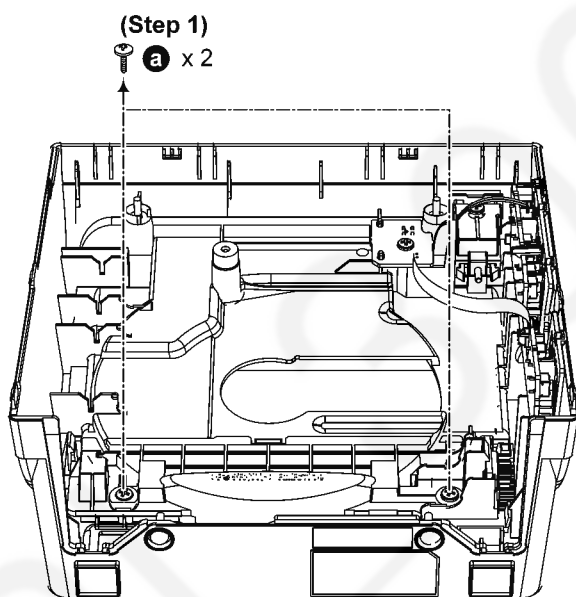


Step 3 Lift up to remove the CD Pocket Assy.

10.7. Disassembly of CD Lid

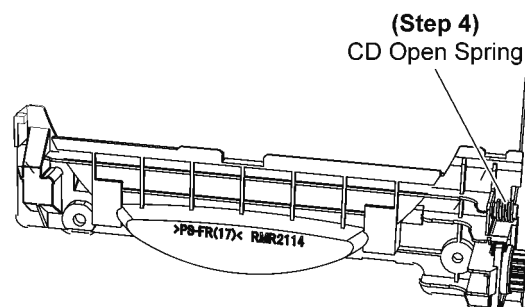
• Refer to "Disassembly of Rear Cabinet Assy".

Step 1 Remove 2 screws.

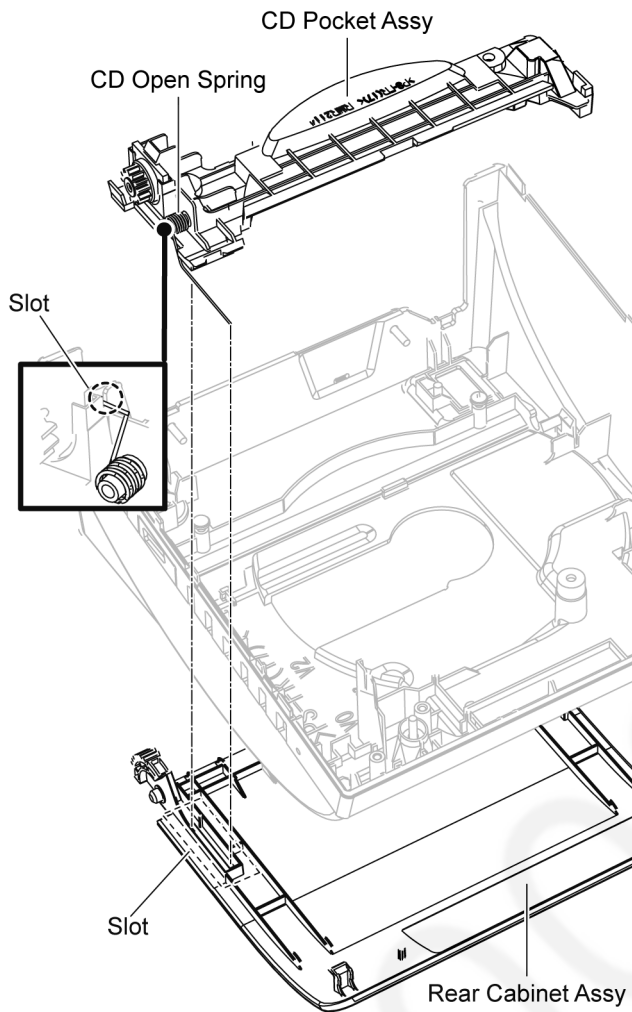


Step 4 Remove the CD Open spring.

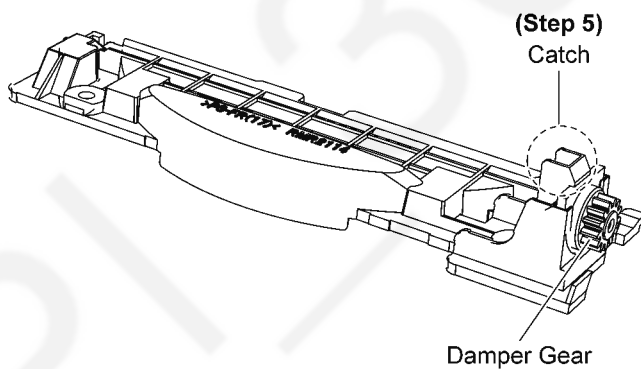
Caution: Keep the CD Open spring in a safe place and place them back during assembling.



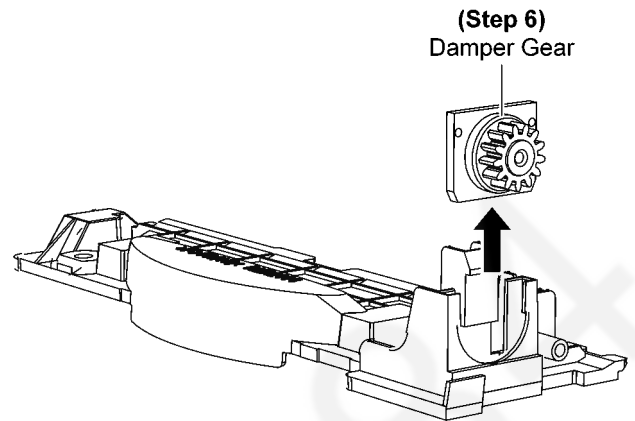
Caution: During assembling, ensure that the CD Open spring is properly inserted in the slot of CD Pocket Assy and Rear Cabinet Assy.



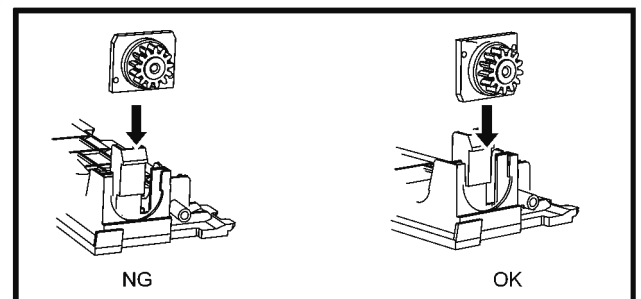
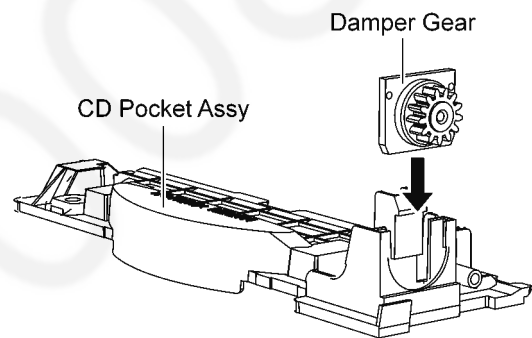
Step 5 Release 1 catch.



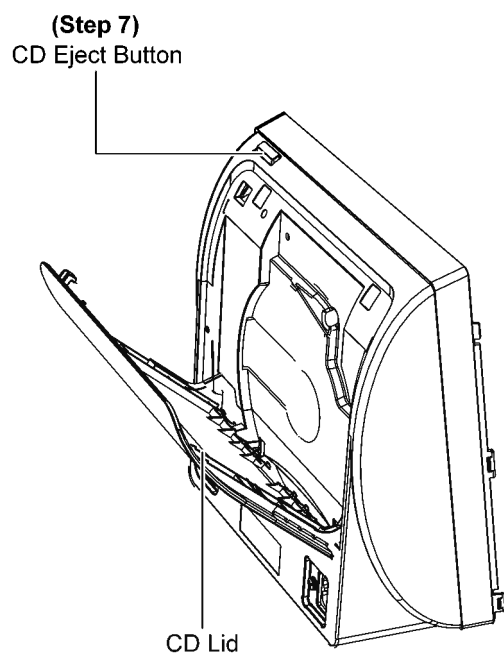
Step 6 Remove the Damper gear.



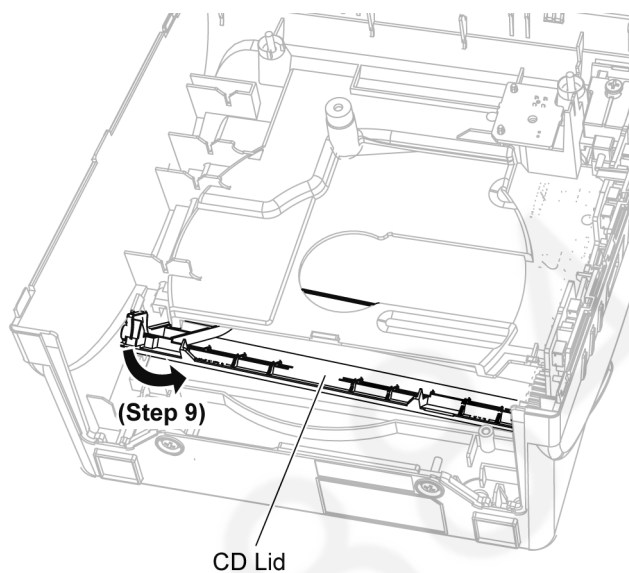
Caution 1: During assembling, ensure that the Damper gear is fixed correctly to CD Pocket Assy.
Caution 2: During assembling, ensure that the Damper Gear is properly located and fully seated onto the CD Pocket Assy.



Step 7 Press the CD Eject Button to open the CD Lid.

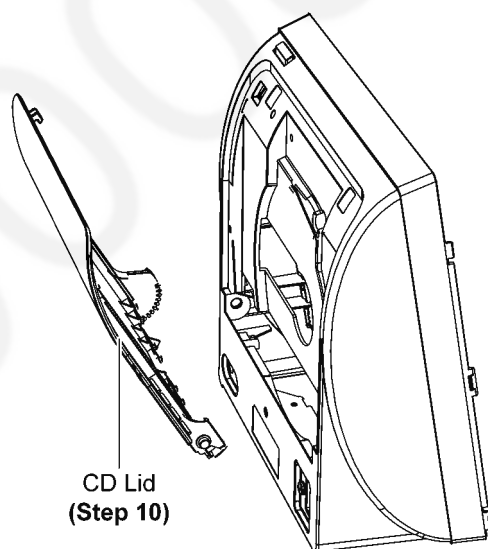
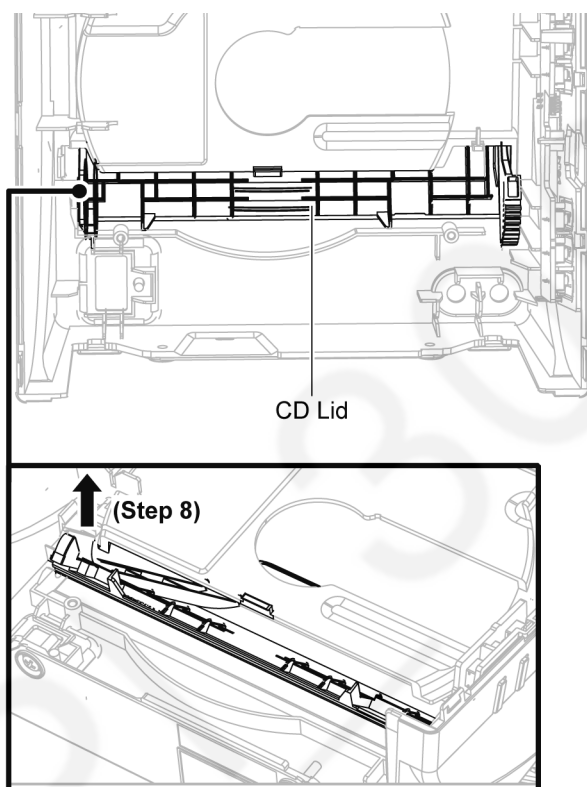


Step 9 Remove the CD Lid as direction shown.

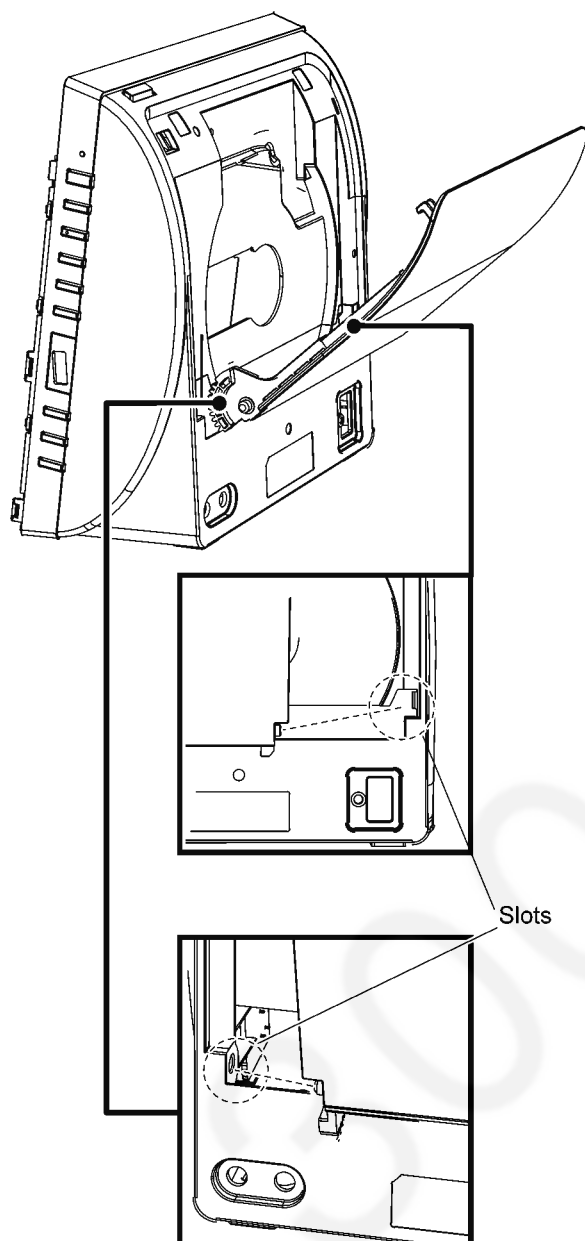


Step 10 Remove the CD Lid.

Step 8 Lift up left side of the CD Lid.



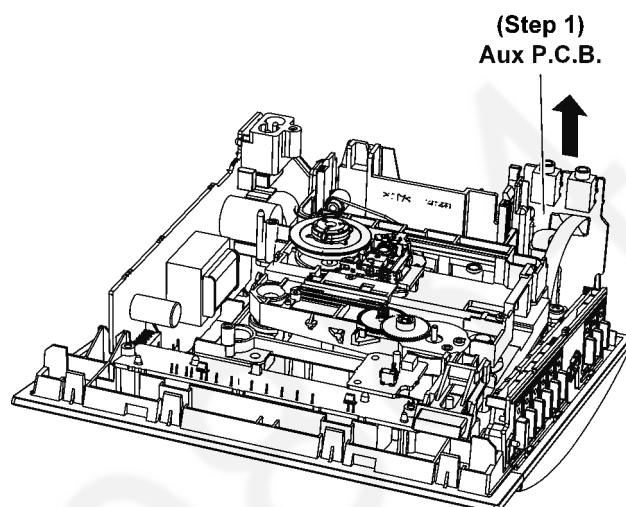
Caution: During assembling, ensure that the CD Lid is properly located and fully seated onto the Unit.



10.8. Disassembly of Aux P.C.B.

• Refer to "Disassembly of Rear Cabinet Assy".

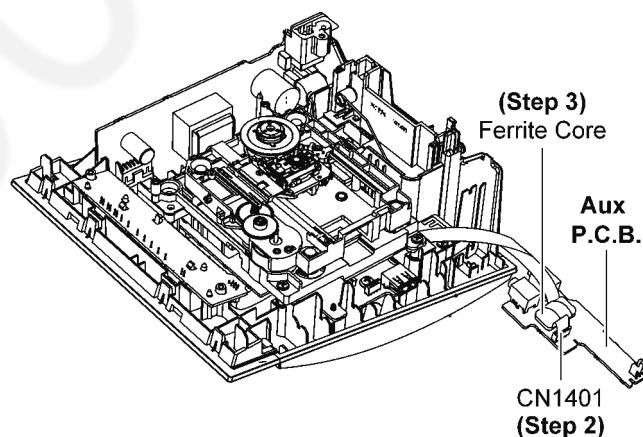
Step 1 Lift up the Aux P.C.B..



Step 2 Detach 8P FFC at the connector (CN1401) on Aux P.C.B..

Step 3 Lift up the Ferrite Core taped on the Aux P.C.B..

Caution: During assembling, paste the Ferrite Core onto the Aux P.C.B., replace the double side tape if torn.

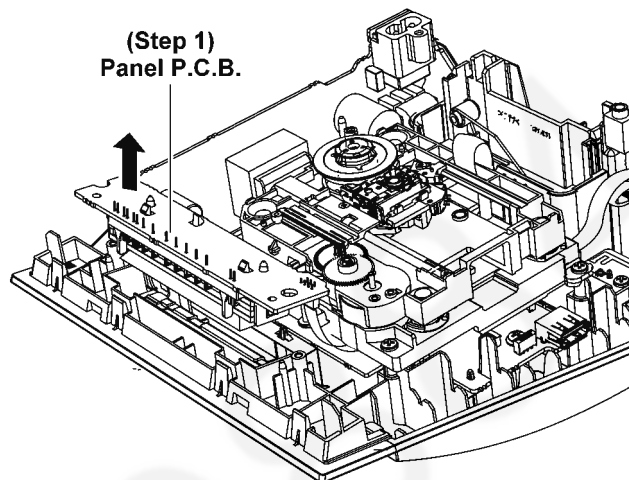


Caution: During assembling, ensure that the Aux P.C.B. is properly located and fully seated onto the Unit.

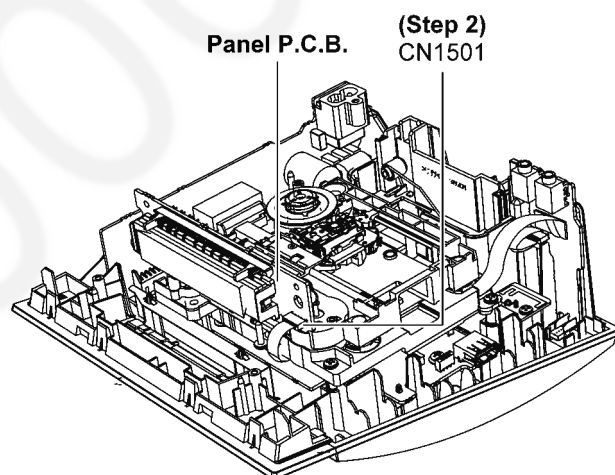
10.9. Disassembly of Panel P.C.B.

- Refer to "Disassembly of Rear Cabinet Assy".

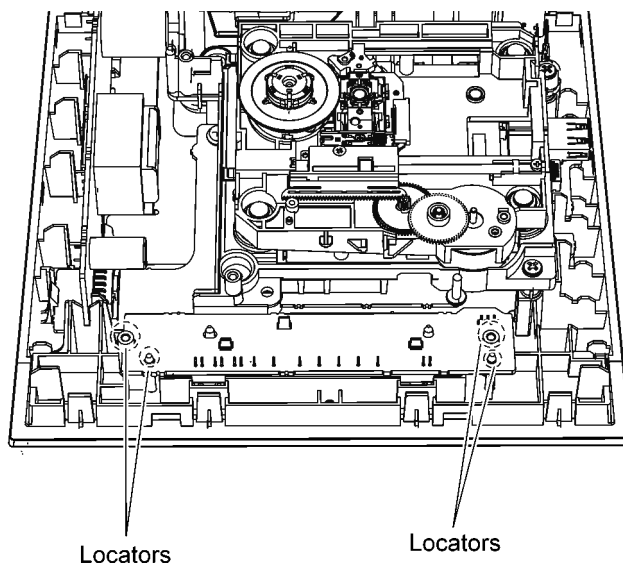
Step 1 Lift up the Panel P.C.B..



Step 2 Detach 7P FFC at the connector (CN1501) on Panel P.C.B..



Caution: During assembling, ensure that the Panel P.C.B. is properly located and fully seated onto the Unit.



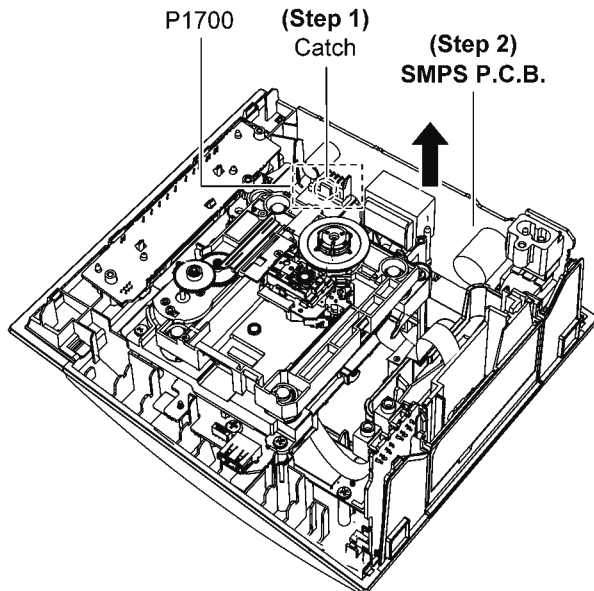
10.10. Disassembly of SMPS P.C.B.

- Refer to "Disassembly of Rear Cabinet Assy".

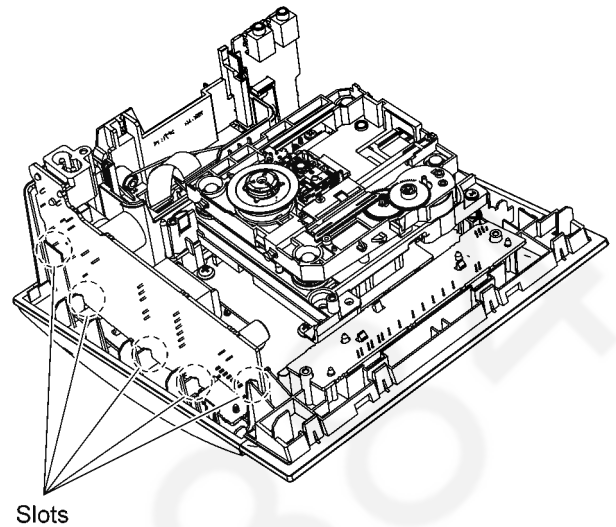
Step 1 Release the catch at the connector.

Step 2 Lift up the SMPS P.C.B..

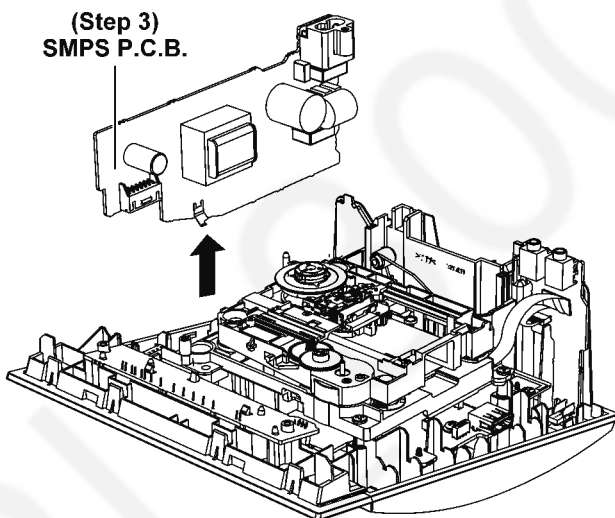
Caution: During assembling, a "click" sound could be heard when the SMPS P.C.B. is attached properly to the Main P.C.B..



Caution: During assembling, ensure that the SMPS P.C.B. is properly located and fully seated onto the Unit.



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

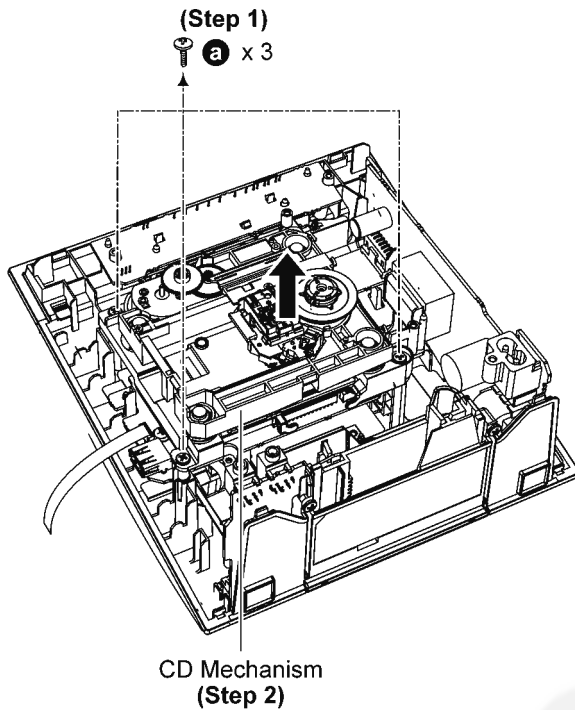


10.11. Disassembly of CD Mechanism

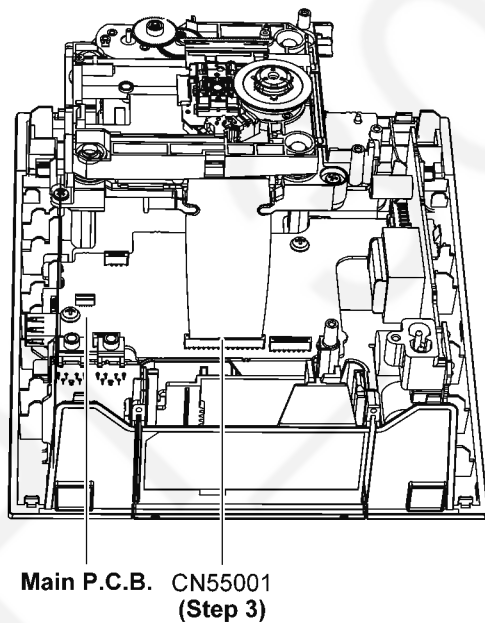
- Refer to “Disassembly of Rear Cabinet Assy”.

Step 1 Remove 3 screws.

Step 2 Slightly lift up the CD Mechanism.

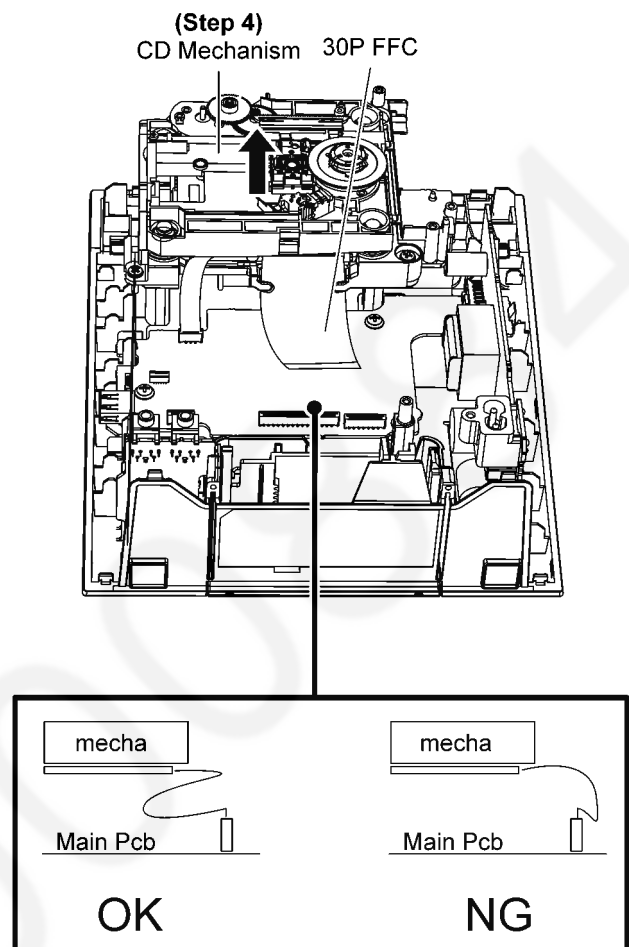


Step 3 Detach 30P FFC at the connector (CN55001) on Main P.C.B..



Step 4 Remove the CD Mechanism.

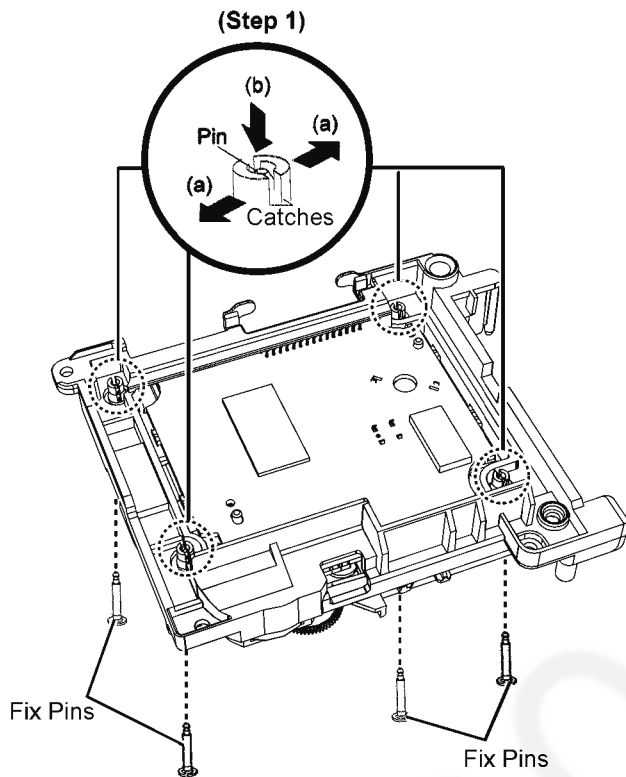
Caution: During assembling, ensure that the 30P FFC is dressed as below.



10.12. Disassembly of CD Servo P.C.B.

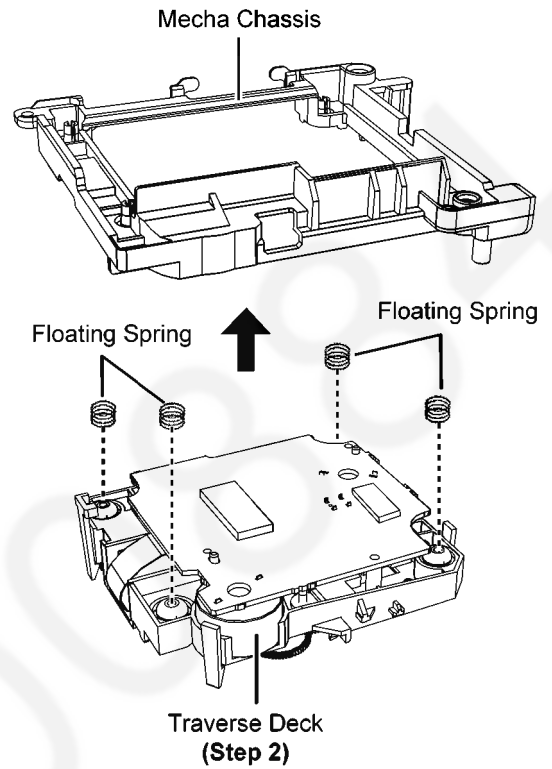
- Refer to "Disassembly of CD Mechanism".

Step 1 Release catches and push down the fixed pins as arrow shown.

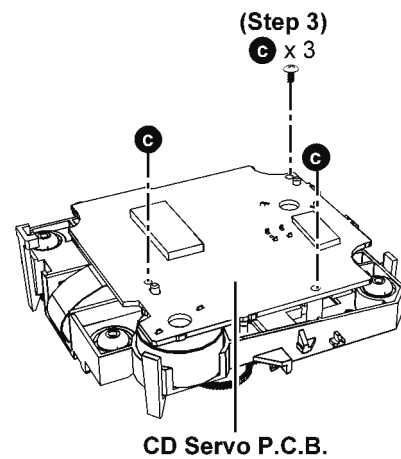


Step 2 Lift up the Mecha Chassis & remove the Floating Springs.

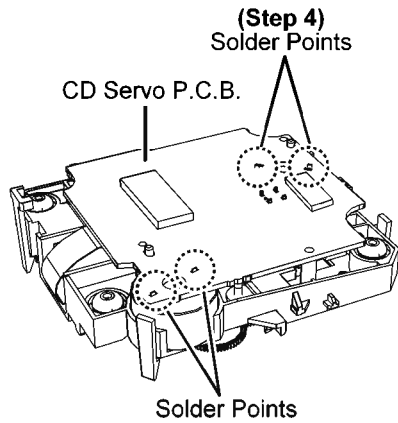
Caution: Keep the Floating Springs in safe place and place them back during assembling.



Step 3 Remove 3 screws.



Step 4 Desolder points on the solder side of the CD Servo P.C.B..

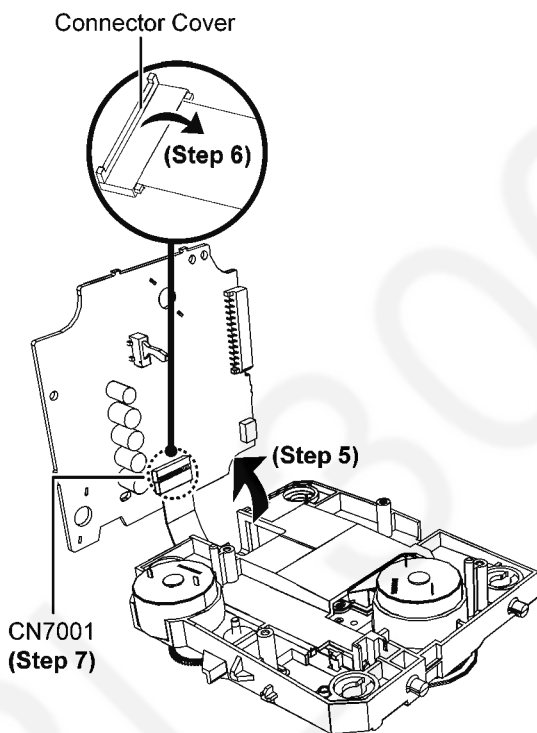


Step 5 Upset the CD Servo P.C.B..

Step 6 Lift up the Connector Cover.

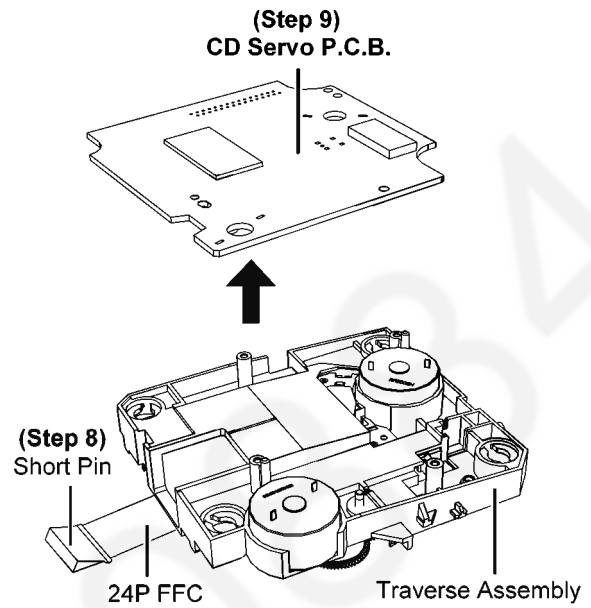
Caution: Do not use strong force as it may damage the connector cover.

Step 7 Detach 24P FFC at the connector (CN7001) from the CD Servo P.C.B..



Step 8 Attach short pin to the 24P FFC of the Traverse Assembly.

Step 9 Remove the CD Servo P.C.B..



10.13. Disassembly of Main P.C.B.

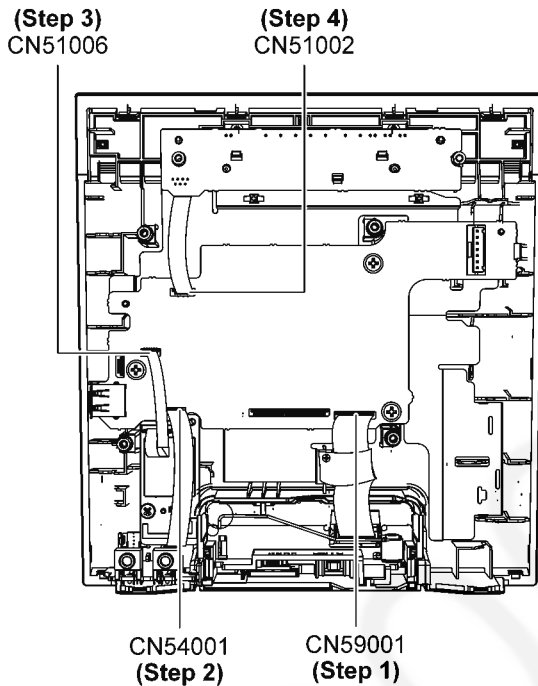
- Refer to "Disassembly of Rear Cabinet Assy".
- Refer to "Disassembly of SMPS P.C.B.".
- Refer to "Disassembly of CD Mechanism".

Step 1 Detach 14P FFC at the connector (CN59001) on Main P.C.B..

Step 2 Detach 8P FFC at the connector (CN54001) on Main P.C.B..

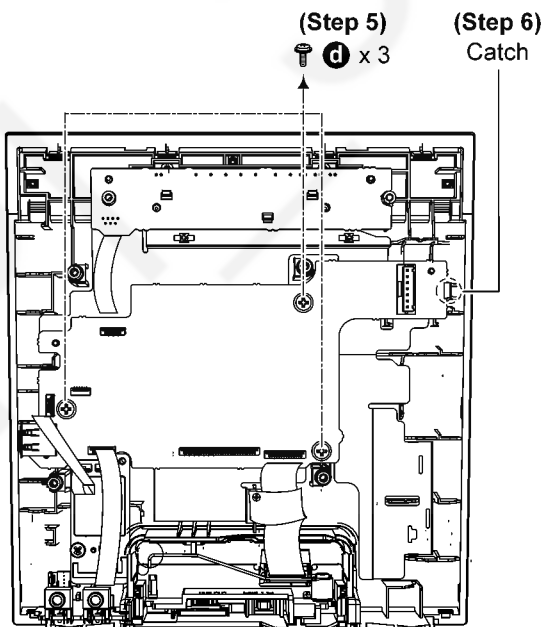
Step 3 Detach 12P FFC at the connector (CN51006) on Main P.C.B..

Step 4 Detach 7P FFC at the connector (CN51002) on Main P.C.B..

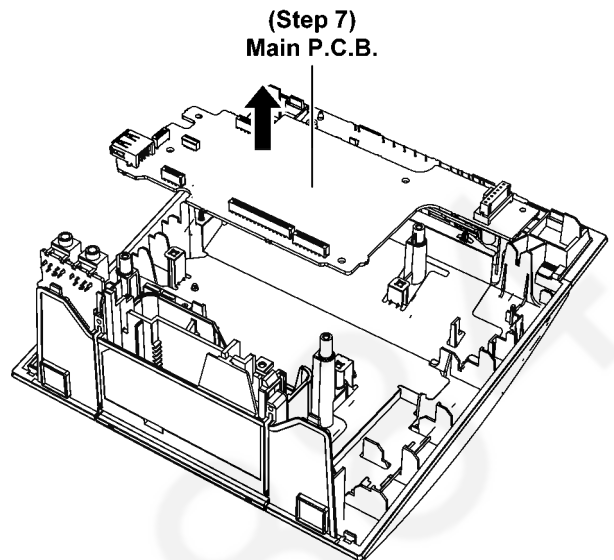


Step 5 Remove 3 screws.

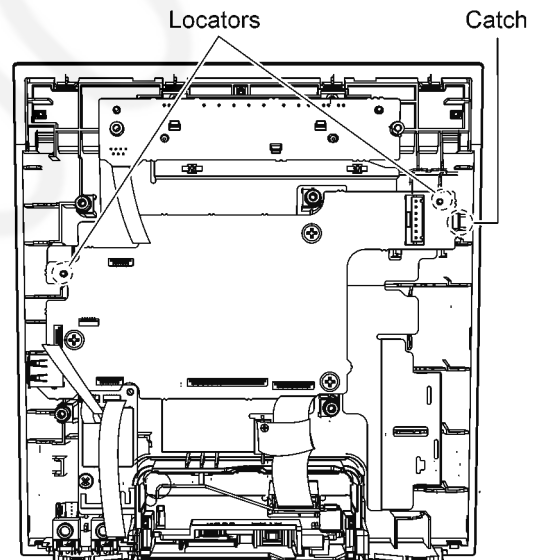
Step 6 Release 1 catch.



Step 7 Lift up and remove the Main P.C.B..



Caution: During assembling, ensure that the Main P.C.B. is properly located and fully seated onto the Unit.

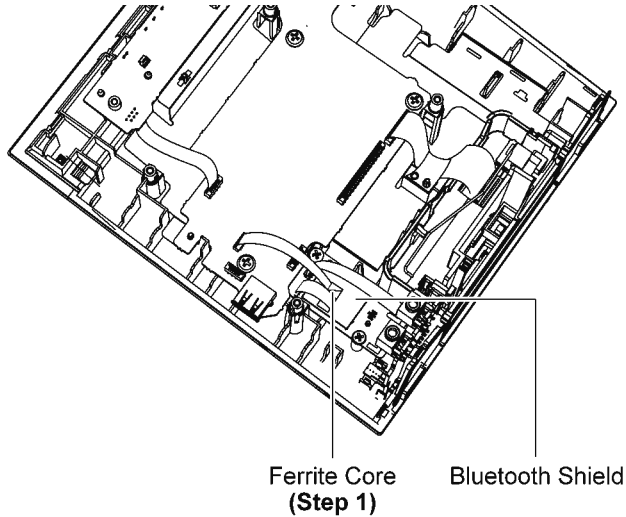


10.14. Disassembly of Bluetooth Module P.C.B.

- Refer to "Disassembly of Rear Cabinet Assy".
- Refer to "Disassembly of CD Mechanism".

Step 1 Lift up the Ferrite Core taped on the Bluetooth Shield.

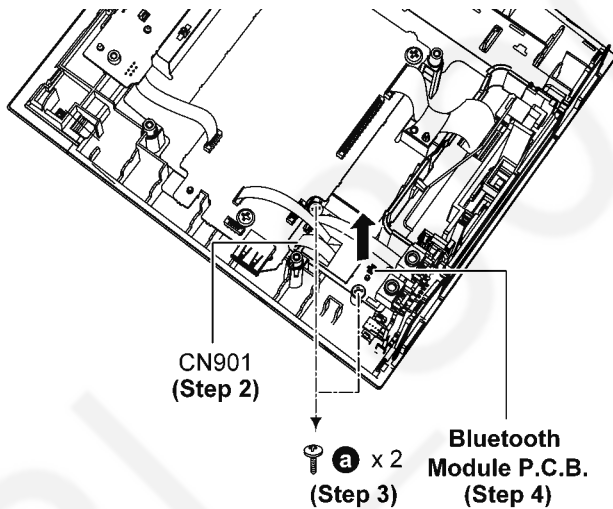
Caution: During assembling, paste the Ferrite Core onto the Bluetooth Shield, replace the double sided tape if torn.



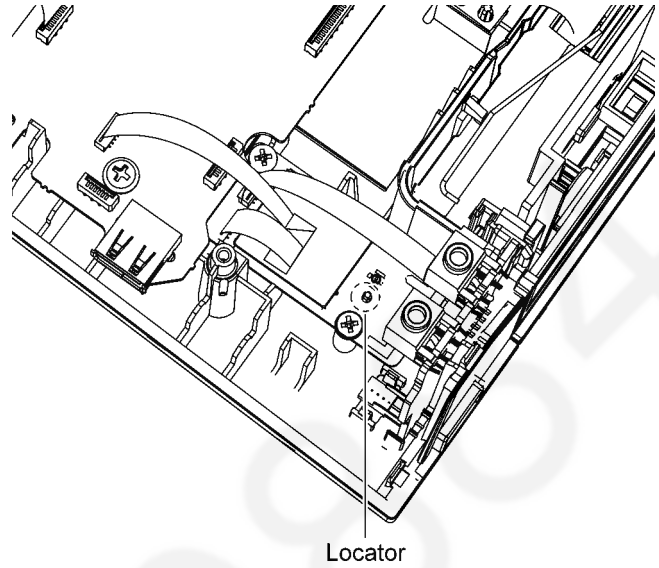
Step 2 Detach 12P FFC at the connector (CN901) on Bluetooth Module P.C.B..

Step 3 Remove 2 screws.

Step 4 Remove the Bluetooth Module P.C.B..



Caution: During assembling, ensure that the Bluetooth Module P.C.B. is properly located and fully seated onto the Unit.

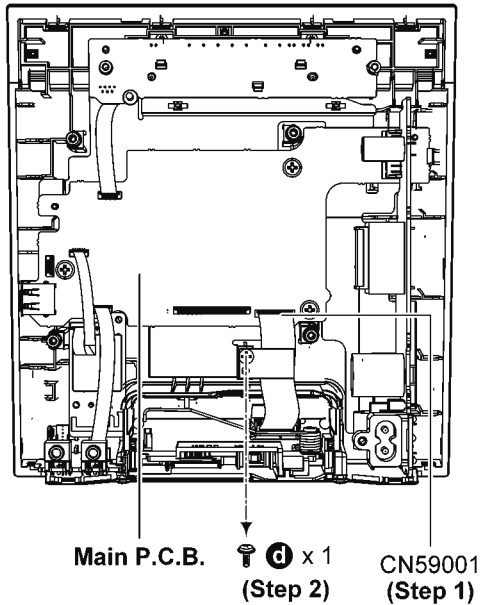


10.15. Disassembly of iPod Unit

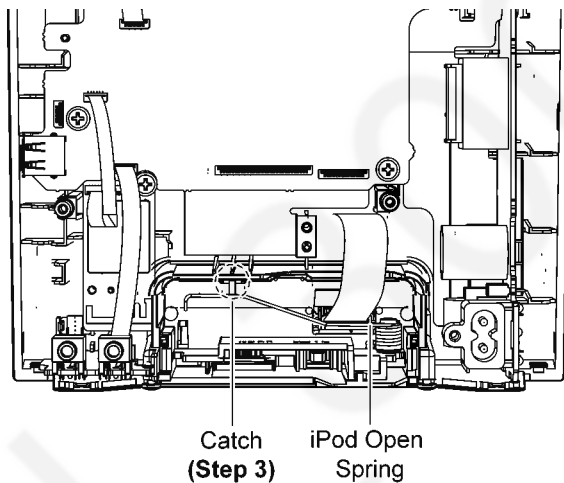
- Refer to "Disassembly of Rear Cabinet Assy".
- Refer to "Disassembly of CD Mechanism".

Step 1 Detach 14P FFC at the connector (CN59001) on Main P.C.B..

Step 2 Remove 1 screw.

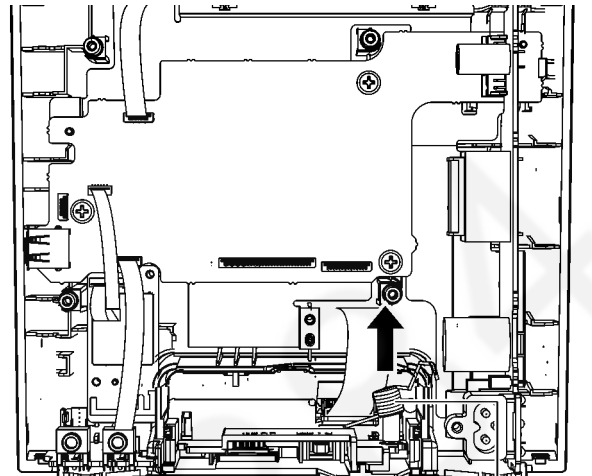


Step 3 Release the iPod Open spring from the catch.

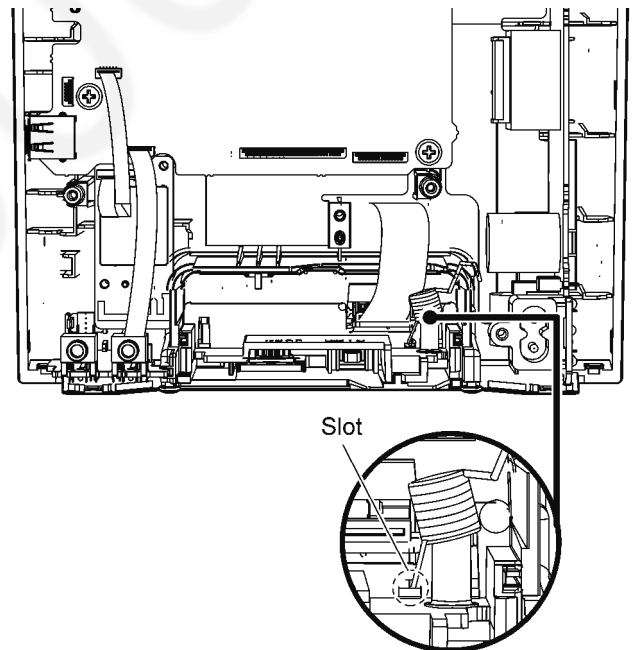


Step 4 Remove the iPod Open spring.

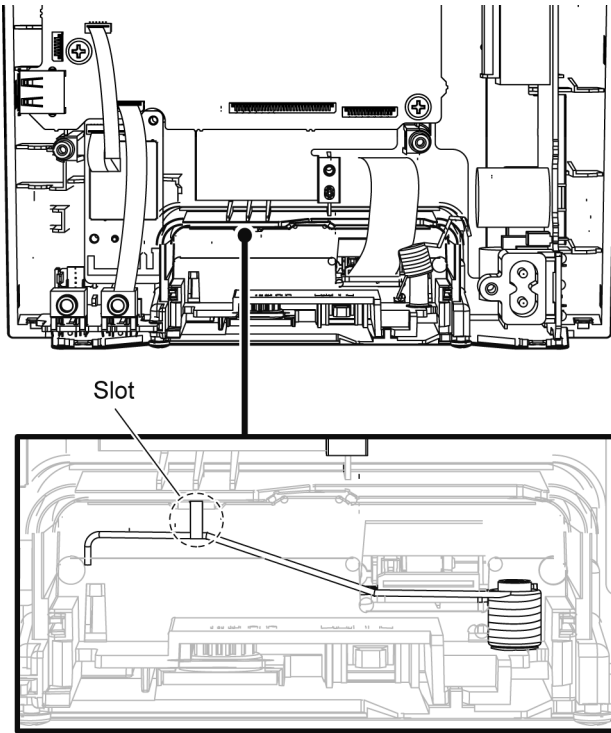
Caution: Keep the CD Open spring in a safe place and place them back during assembling.



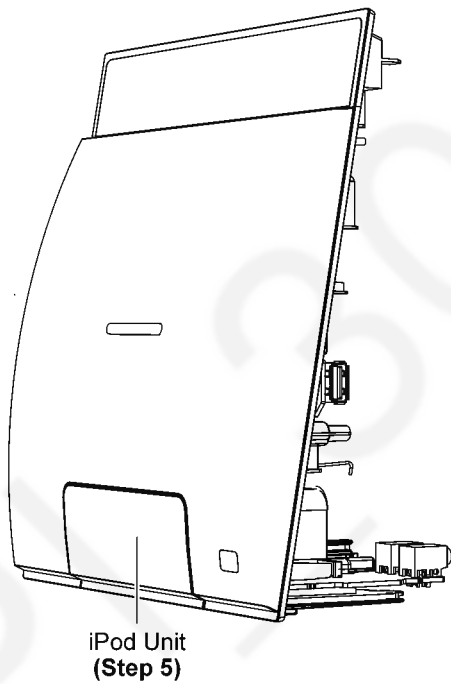
Caution: During assembling, ensure that the end of the iPod Open spring is properly inserted in the slot.



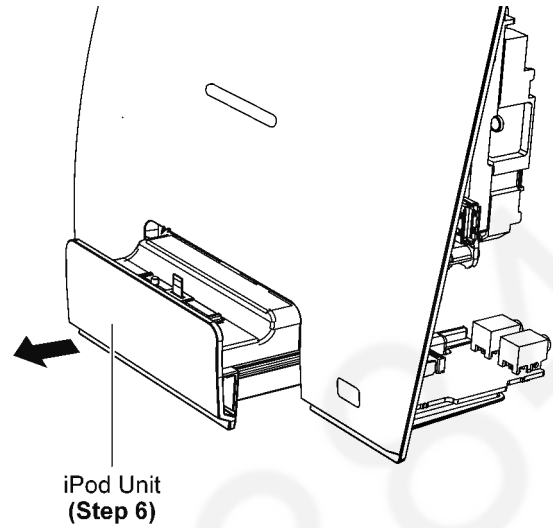
Caution: During assembling, ensure that the end of the iPod Open spring is fully inserted in the slot.



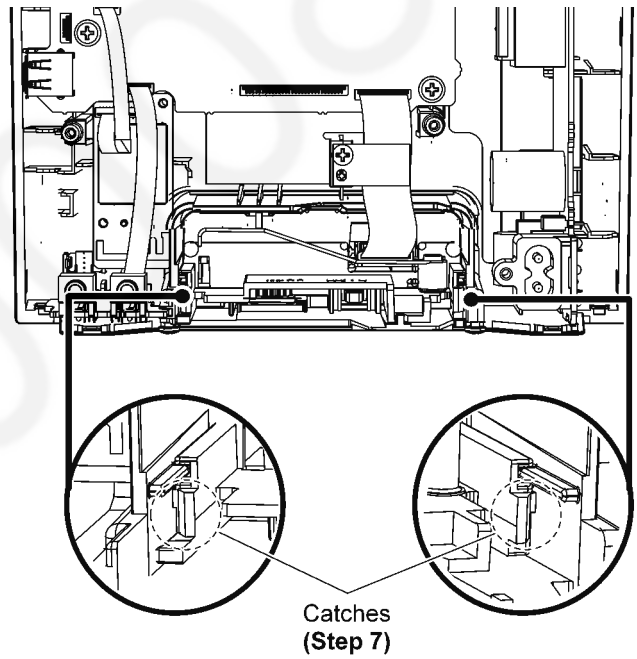
Step 5 Press the iPod Unit.



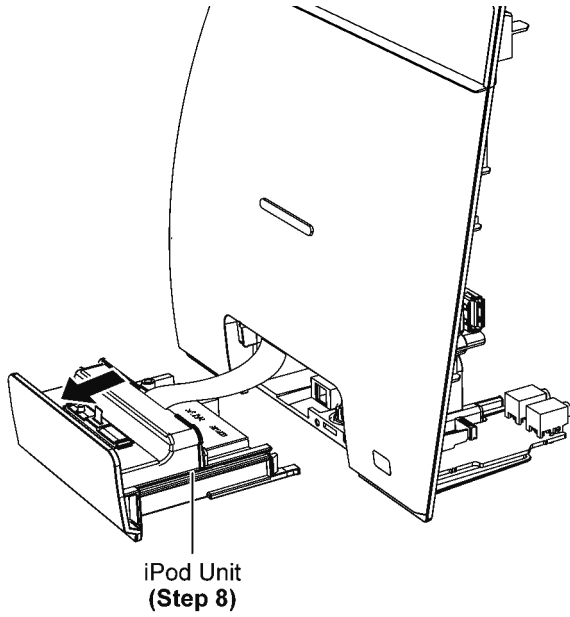
Step 6 Gently push the iPod Unit until it is fully open.



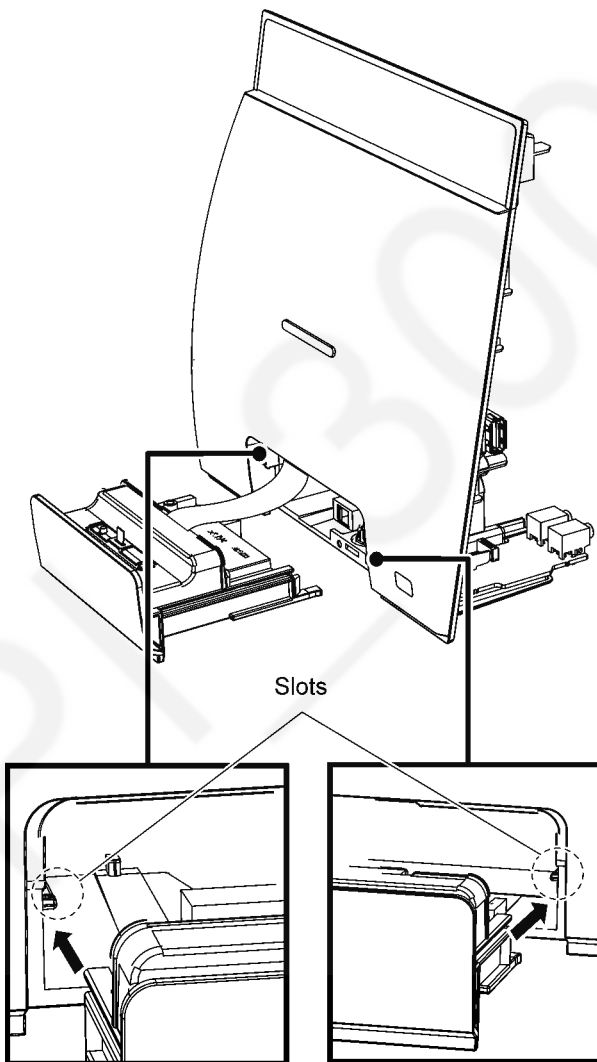
Step 7 Release 2 catches.



Step 8 Remove the iPod Unit.



Caution 1: During assembling, align the iPod Unit with the Front Cabinet Assy.
Caution 2: Avoid using strong force, ensure the iPod Unit move smoothly.

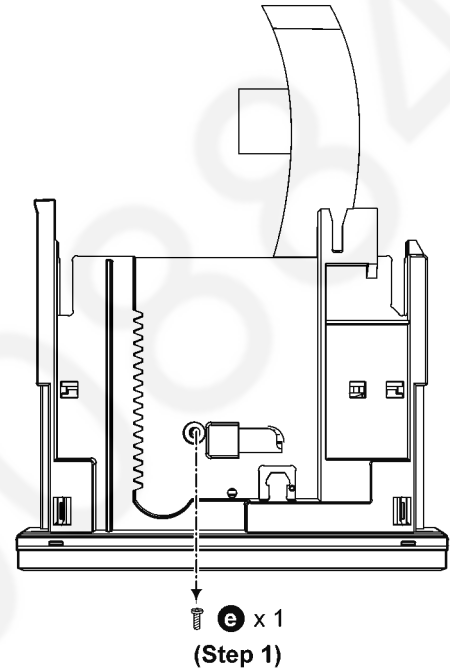


10.16. Replacement of iPod P.C.B. and iPod Connector Unit

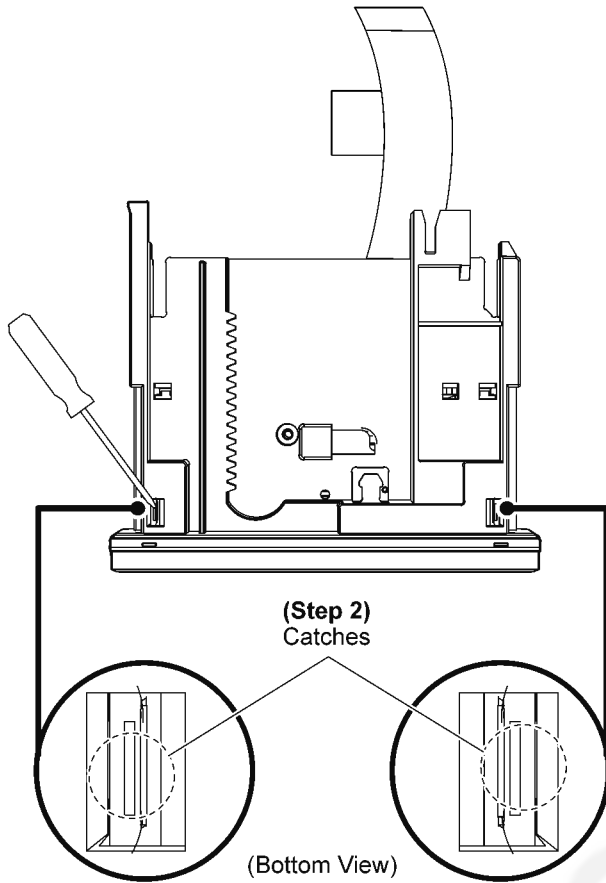
• Refer to "Disassembly of iPod Unit".

10.16.1. Disassembly of iPod P.C.B. and iPod Connector Unit

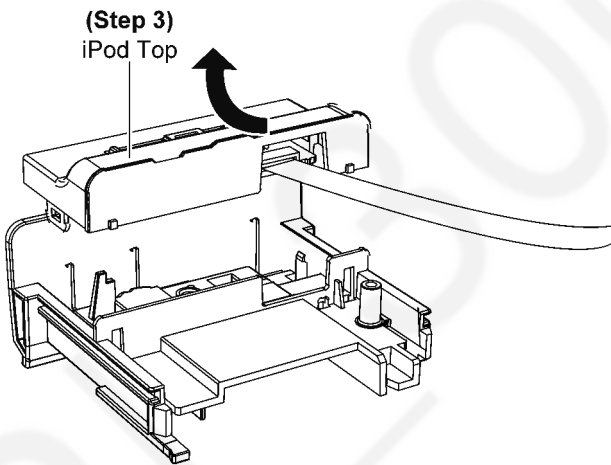
Step 1 Remove 1 screw.



Step 2 Use a screwdriver to release 2 catches.

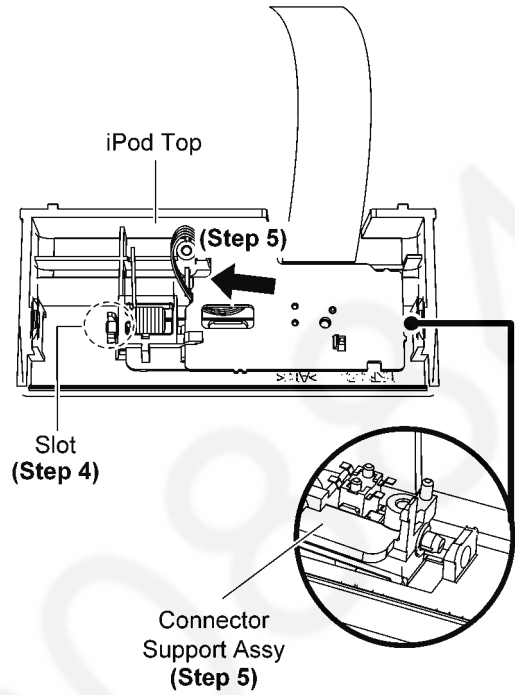


Step 3 Remove the iPod Top.

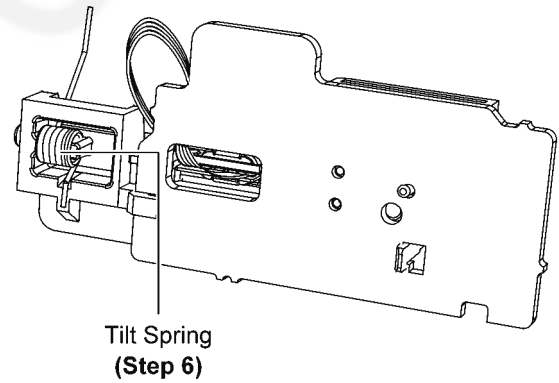


Step 4 Lift up the Connector Support Assy.

Step 5 Remove the Connector Support Assy as arrow shown.

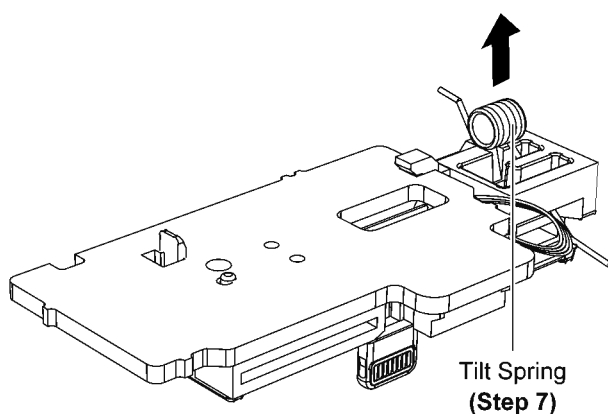


Step 6 Release the Tilt spring.



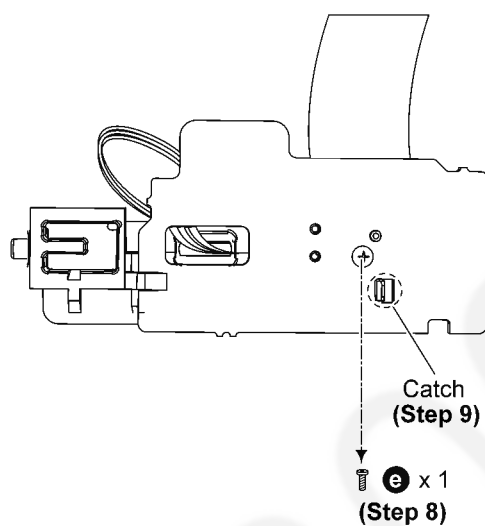
Step 7 Remove the Tilt spring.

Caution: Keep the Tilt spring in a safe place and place them back during assembling.

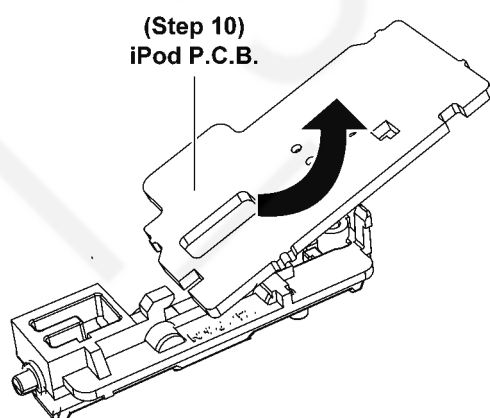


Step 8 Remove 1 screw.

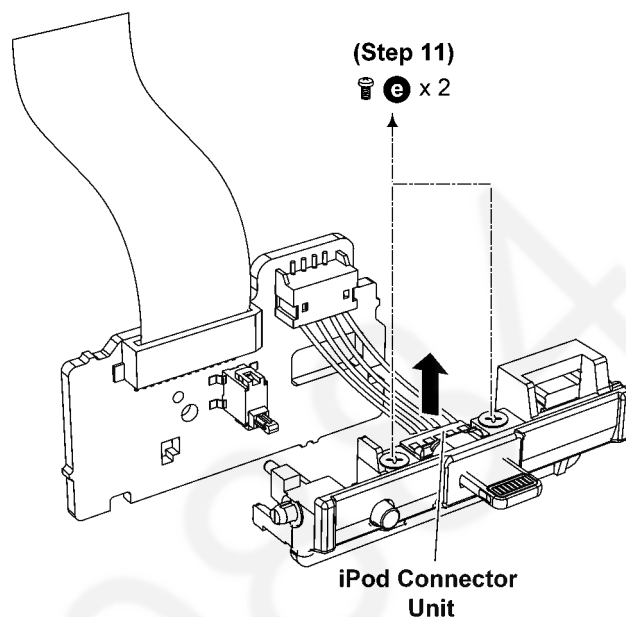
Step 9 Release 1 catch.



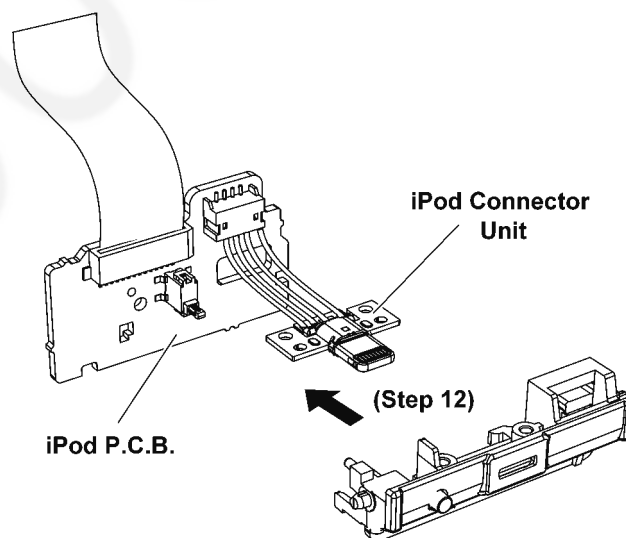
Step 10 Gently lift up the iPod P.C.B. as arrow shown.



Step 11 Remove 2 screws.



Step 12 Remove the iPod P.C.B. and iPod Connector Unit altogether.

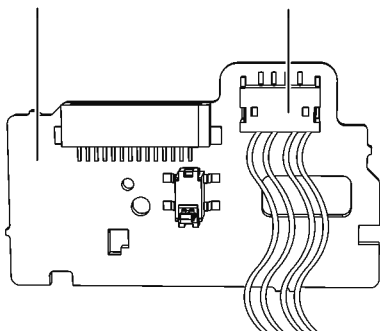


Step 13 Detach 4P Wire at the connector (CN59502) on iPod P.C.B..

Step 14 Remove the iPod P.C.B..

(Step 14)
iPod P.C.B.

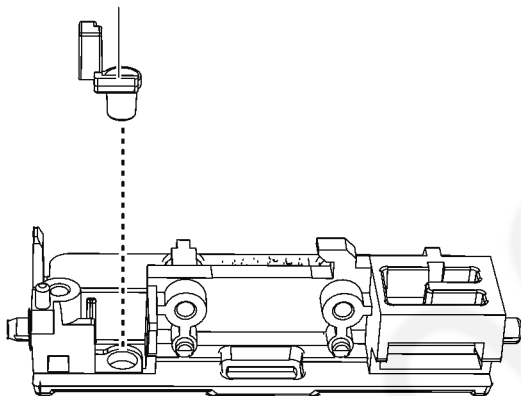
(Step 13)
CN59502



Step 15 Remove the switch pin.

Caution: Keep the switch pin in a safe place and place them back during assembling

(Step 15)
Switch pin

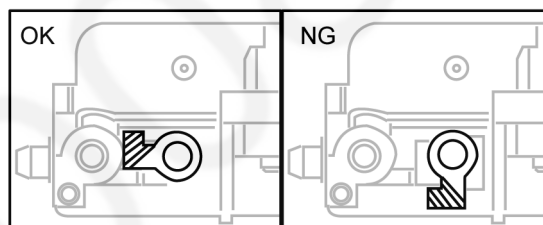
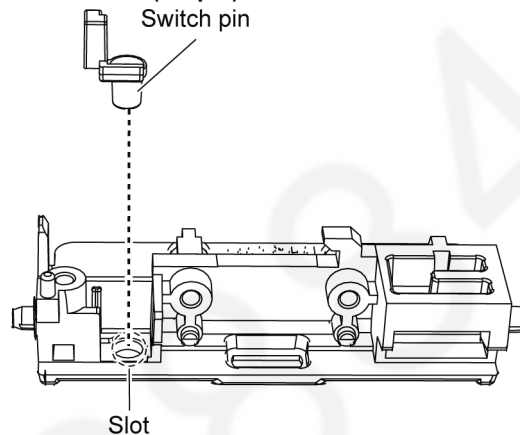


10.16.2. Assembly of iPod P.C.B. and iPod Connector Unit

Step 1 Place the switch pin onto the Connector Support Assy.

Caution: Ensure that the switch pin is properly inserted in the slot.

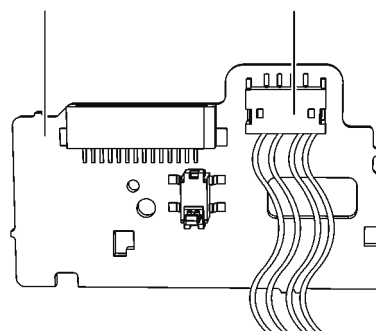
(Step 1)
Switch pin



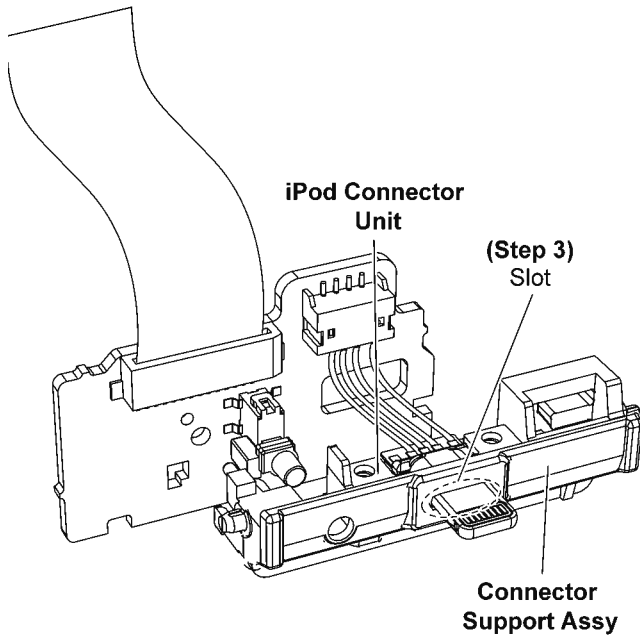
Step 2 Attach 4P Wire at the connector (CN59502) on iPod P.C.B..

iPod P.C.B.

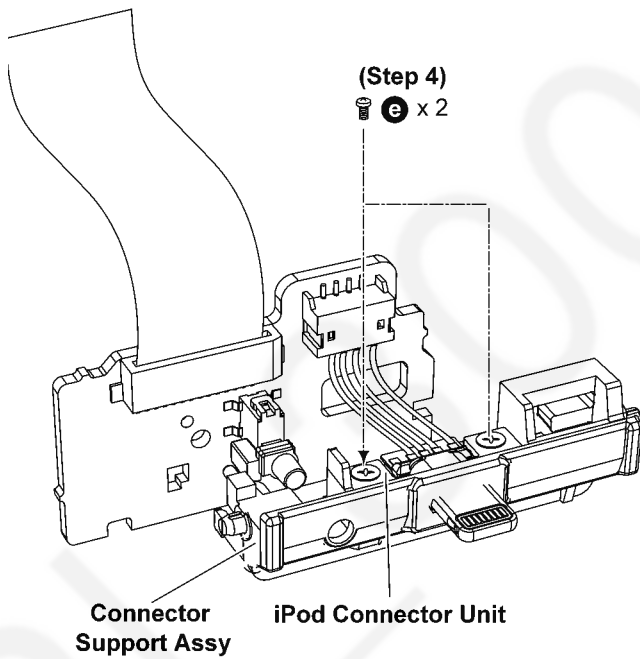
(Step 2)
CN59502



Step 3 Fix the iPod Connector Unit through the Connector Support Assy slot.

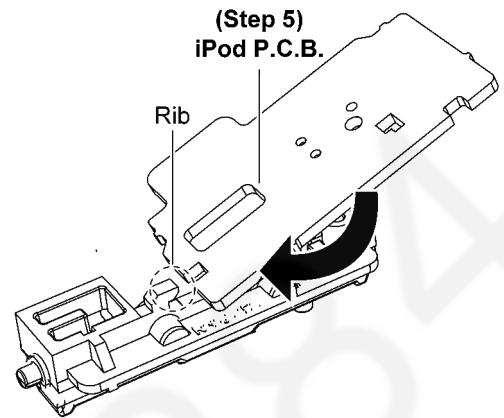


Step 4 Fix 2 screws.



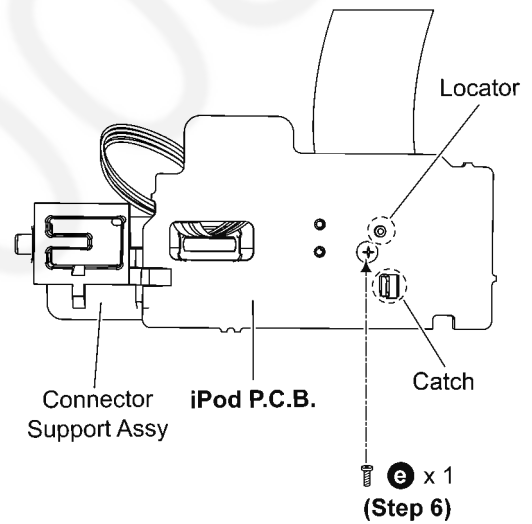
Step 5 Insert the iPod P.C.B. as arrow shown.

Caution: Ensure that the iPod P.C.B. is fully inserted under the rib.

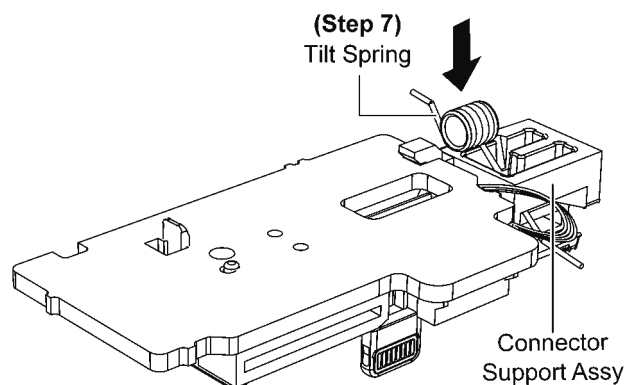


Step 6 Fix 1 screw.

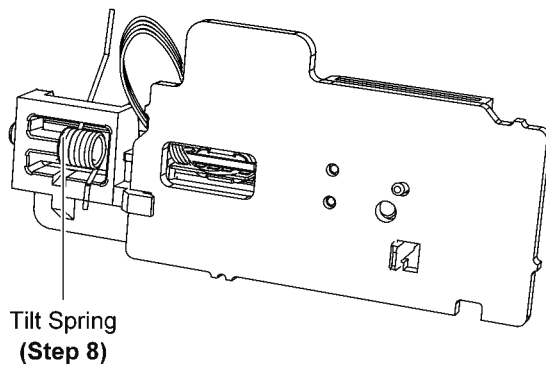
Caution: Ensure that the iPod P.C.B. is properly located and fully seated onto the Connector Support Assy.



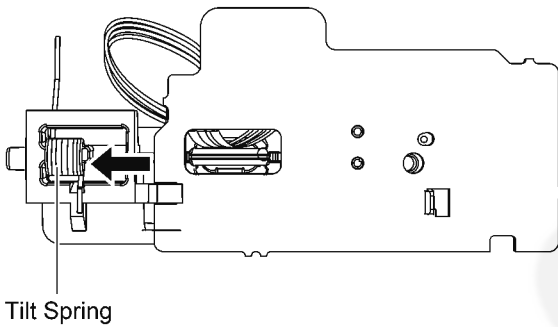
Step 7 Insert the Tilt spring into the Connector Support Assy.



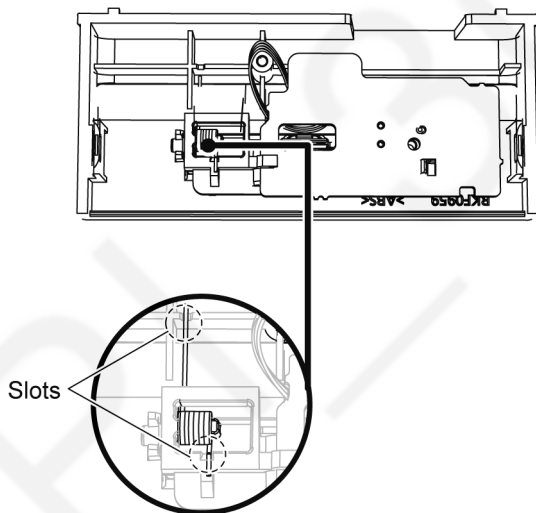
Step 8 Fix the Tilt spring.



Caution: Ensure to put some force to push Tilt spring into the rib to the left side.

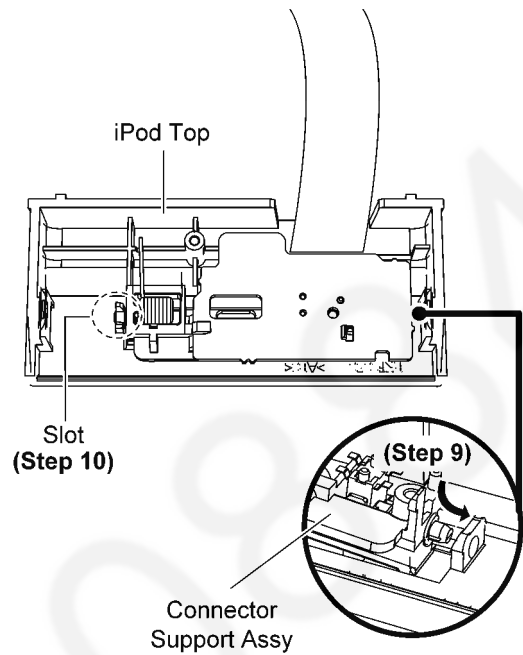


Caution: Ensure that the Tilt spring is properly inserted in the slot.

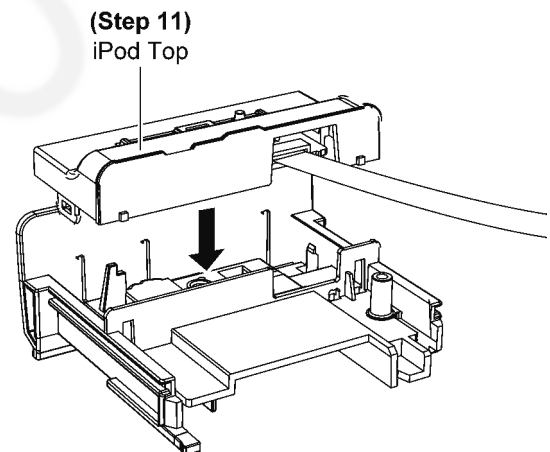


Step 9 Fix the Connector Support Assy as arrow shown.

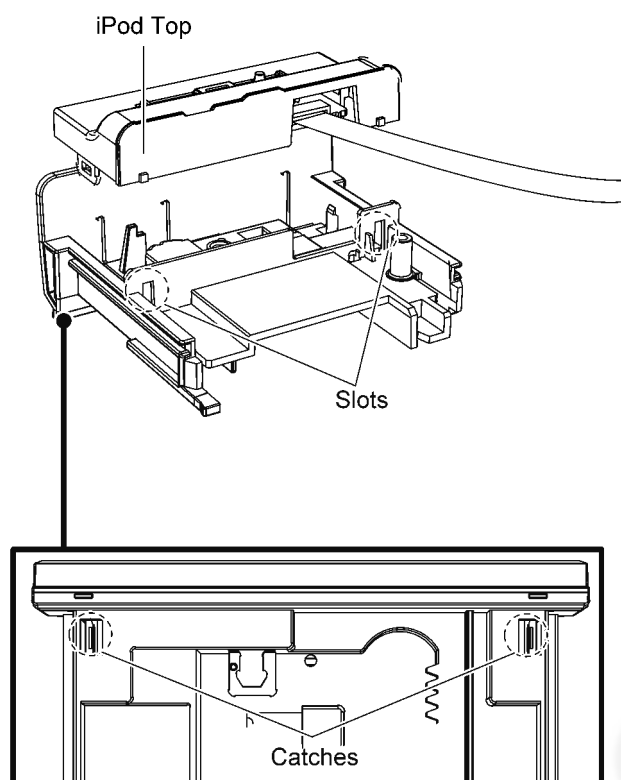
Step 10 Push down the Connector Support Assy into the slot of iPod Top.



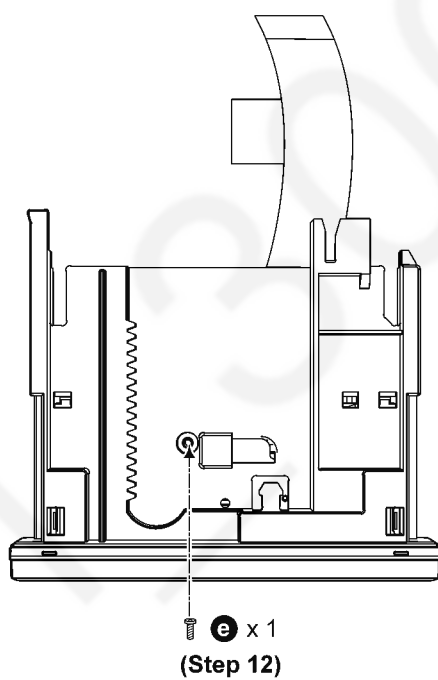
Step 11 Fix the iPod Top.



Caution: A “click” sound could be heard when the iPod Top is fully caught.



Step 12 Fix 1 screw.



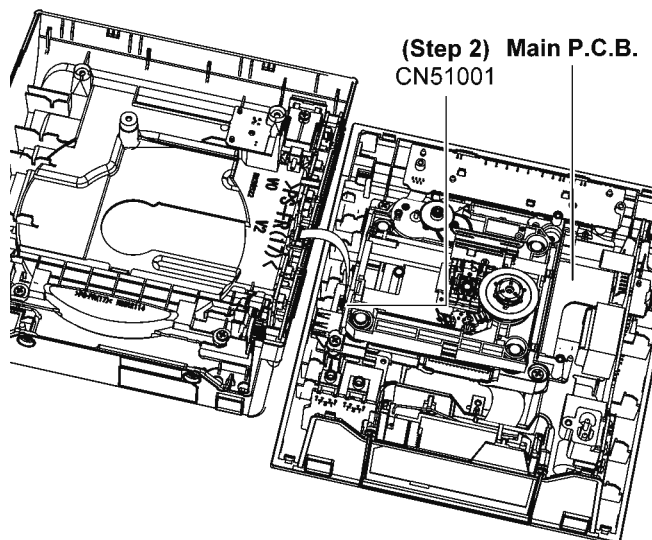
11 Service Position (SL-NE5)

Note: For description of the disassembly procedures, see the Section 10.

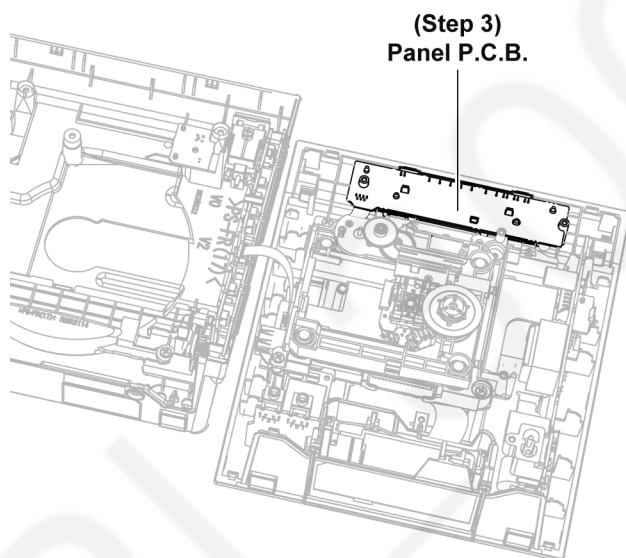
11.1. Checking of Panel P.C.B.

Step 1 Remove the Rear Cabinet Assy.

Step 2 Connect 6P FFC at the connector (CN51001) on Main P.C.B..



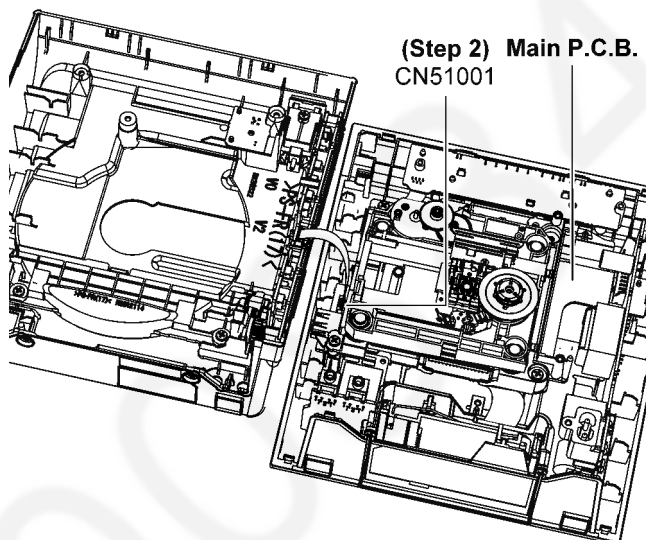
Step 3 Check the Panel P.C.B. according to the diagram shown.



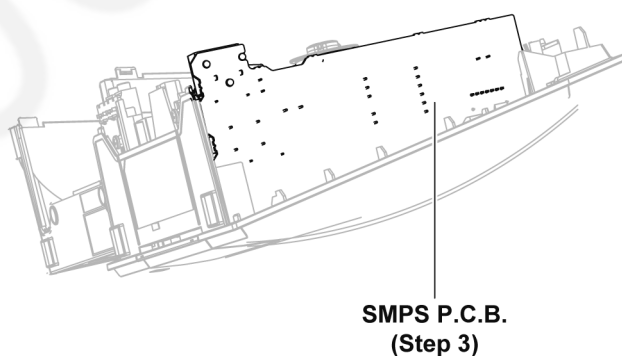
11.2. Checking of SMPS P.C.B.

Step 1 Remove the Rear Cabinet Assy.

Step 2 Connect 6P FFC at the connector (CN51001) on Main P.C.B..



Step 3 Check the SMPS P.C.B. according to the diagram shown.



11.3. Checking of Main P.C.B. (Side A and B)

Step 1 Remove the Rear Cabinet Assy.

Step 2 Remove the SMPS P.C.B..

Step 3 Remove the CD Mechanism.

Step 4 Remove the Main P.C.B..

Step 5 Remove the Panel P.C.B..

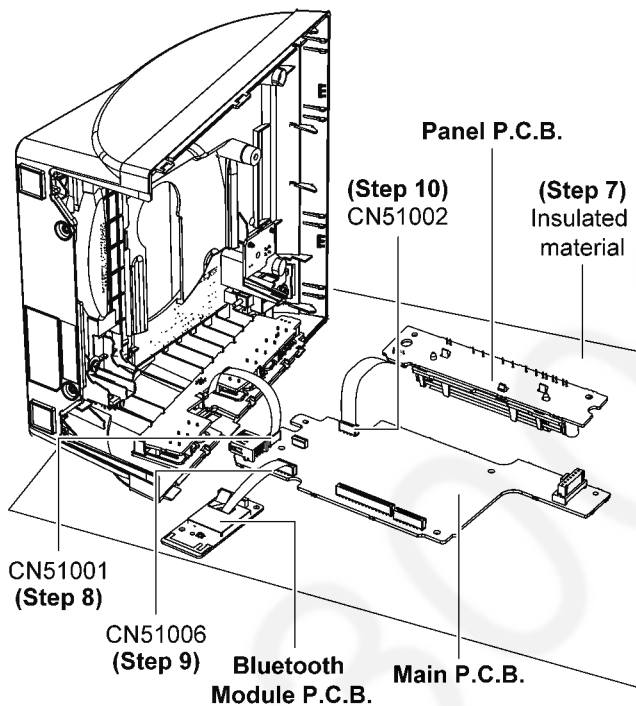
Step 6 Remove the Bluetooth Module P.C.B..

Step 7 Place the Panel P.C.B., Main P.C.B. and Bluetooth Module P.C.B. onto insulated material.

Step 8 Connect 6P FFC at the connector (CN51001) on Main P.C.B..

Step 9 Connect 12P FFC at the connector (CN51006) on Main P.C.B..

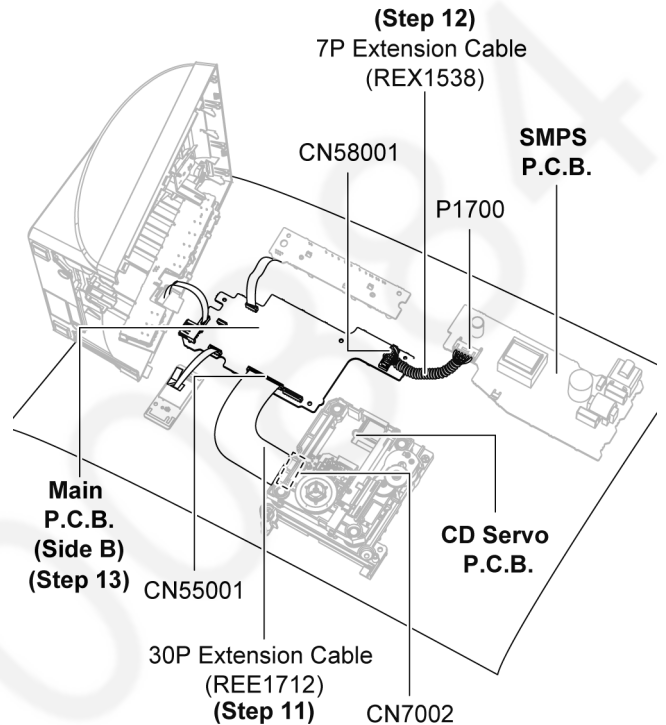
Step 10 Connect 7P FFC at the connector (CN51002) on Main P.C.B..



Step 11 Connect 30P extension cable (REE1712) from CN7002 on the CD Servo P.C.B. to CN55001 on the Main P.C.B..

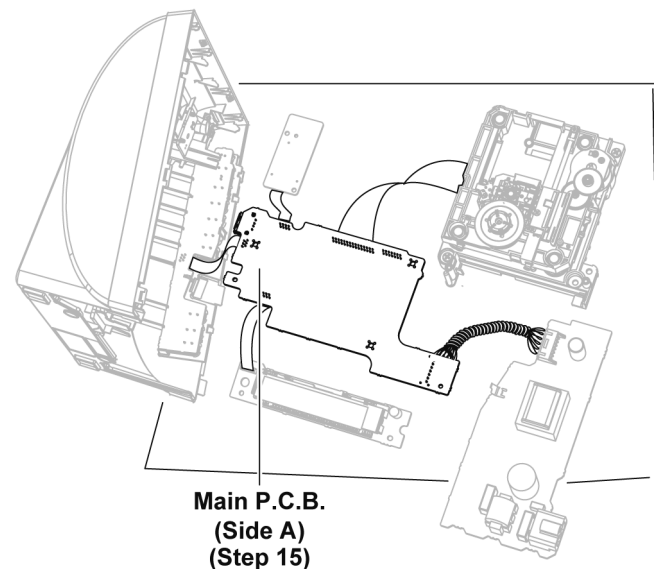
Step 12 Connect 7P extension cable (REX1538) from P1700 on the SMPS P.C.B. to CN58001 on the Main P.C.B..

Step 13 Check the Main P.C.B. (Side B) according to the diagram shown.



Step 14 Flip over the Main P.C.B..

Step 15 Check the Main P.C.B. (Side A) according to the diagram shown.



11.4. Checking of CD Servo P.C.B.

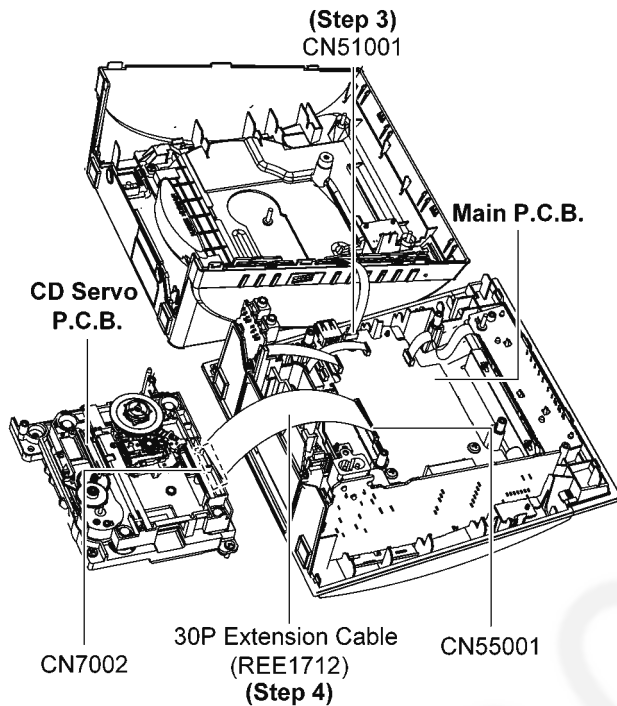
Note: Insert CD before checking CD Servo P.C.B..

Step 1 Remove the Rear Cabinet Assy.

Step 2 Remove the CD Mechanism.

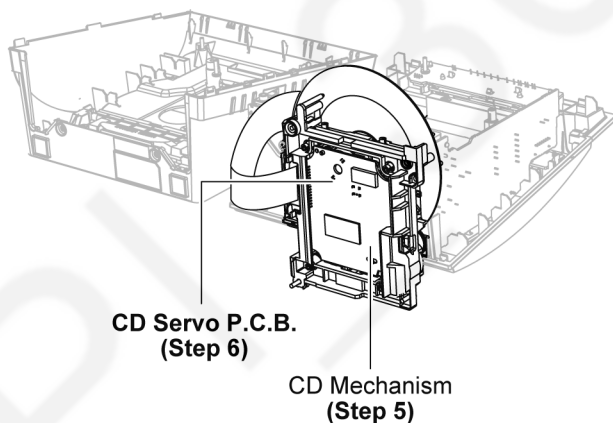
Step 3 Connect 6P FFC at the connector (CN51001) on Main P.C.B..

Step 4 Connect 30P extension cable (REE1712) from CN7002 on the CD Servo P.C.B. to CN55001 on the Main P.C.B..



Step 5 Position the CD Mechanism as diagram shown.

Step 6 Check the CD Servo P.C.B. according to the diagram shown.



12 Service Fixture & Tools (SB-NE5)

Prepare service tools before process service position.

Ref. No.	Service Tools	Remarks
SFT1	SPK Main P.C.B. (CN58001) - SPK SMPS P.C.B. (P1700) REX1538 (7P Wire)	

13 Disassembly and Assembly Instructions (SB-NE5)

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)

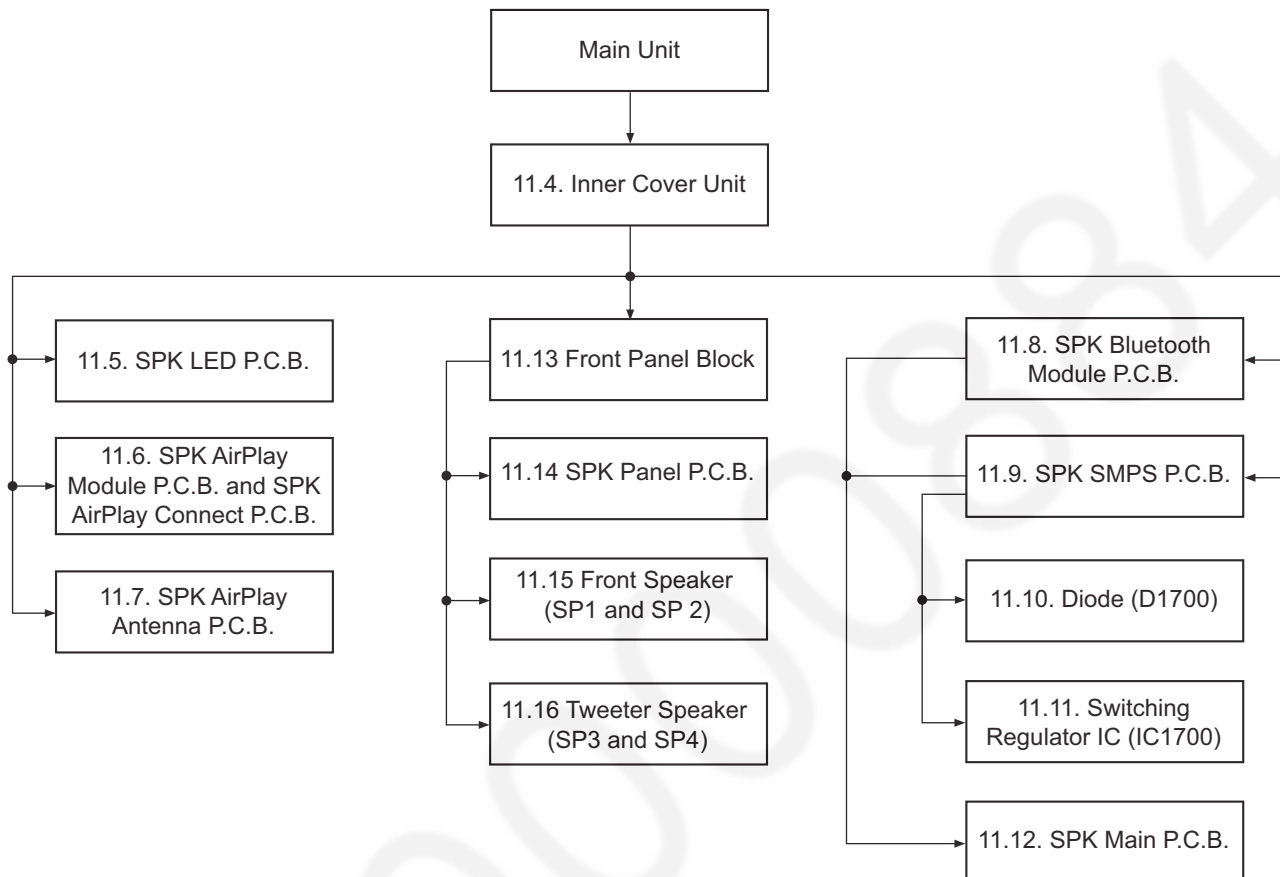
**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

- 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 Inner Cover Unit
- Disassembly of SPK LED P.C.B.
- Disassembly of SPK AirPlay Module P.C.B. and SPK AirPlay Connect P.C.B.
- Disassembly of SPK AirPlay Antenna P.C.B.
- Disassembly of SPK Bluetooth Module P.C.B.
- Disassembly of SPK SMPS P.C.B.
- Replacement of Diode (D1700)
- Replacement of Switching Regulator IC (IC1700)
- Disassembly of SPK Main P.C.B.
- Disassembly of Front Panel Block
- Disassembly of SPK Panel P.C.B.
- Disassembly of Front Speaker (SP1 and SP2)
- Disassembly of Tweeter Speaker (SP3 and SP4)

13.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.



13.2. Types of Screws

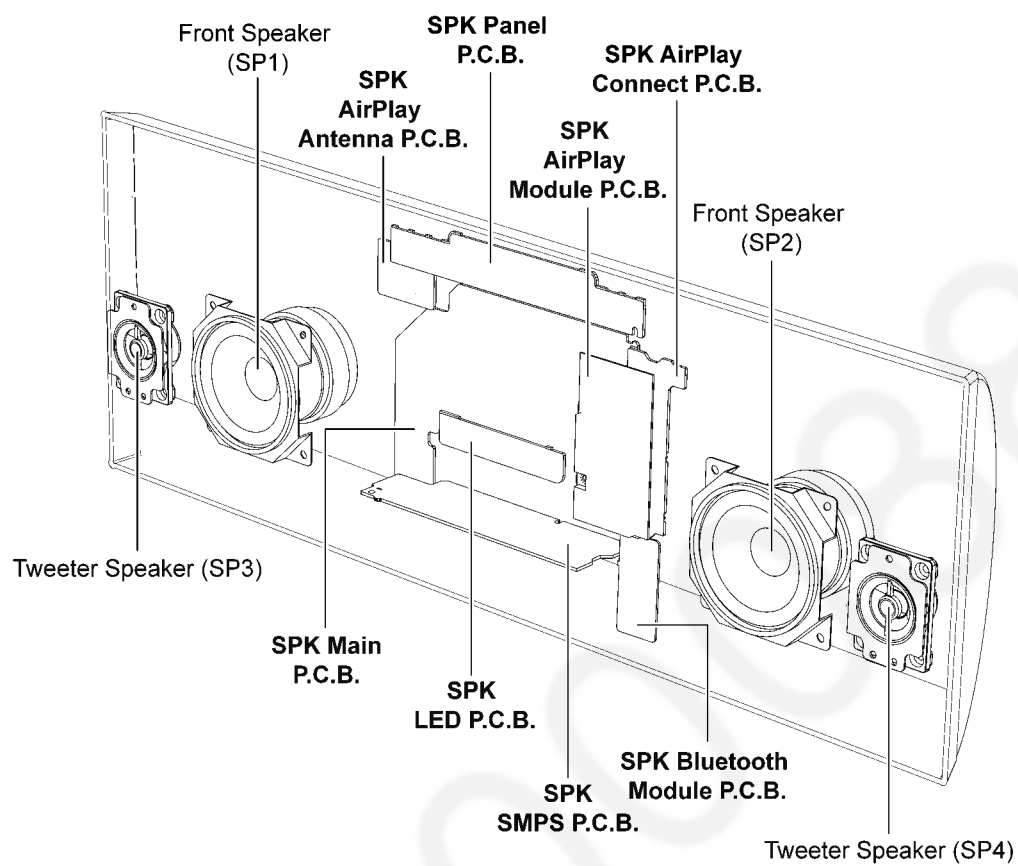
CAUTION NOTE:

Please use original screw and at correct locations.

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

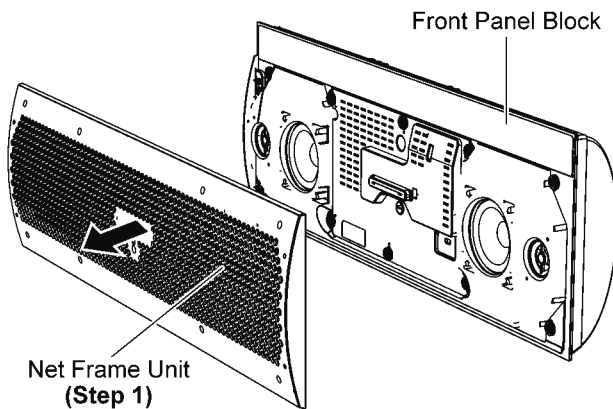
- | | |
|-----------------------|-----------------------|
| a :RHD26046 | d :RHD30092-1 |
| b :RHD26043-1 | e :XTB3+8JFJ-J |
| c :XTB3+10JFJK | |

13.3. Main Parts Location Diagram

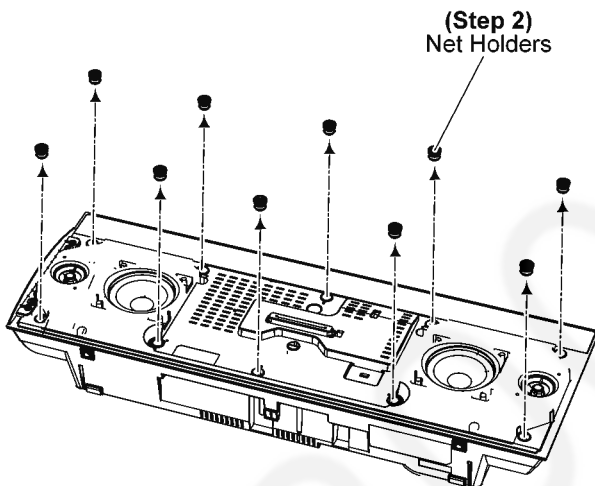


13.4. Disassembly of Inner Cover Unit

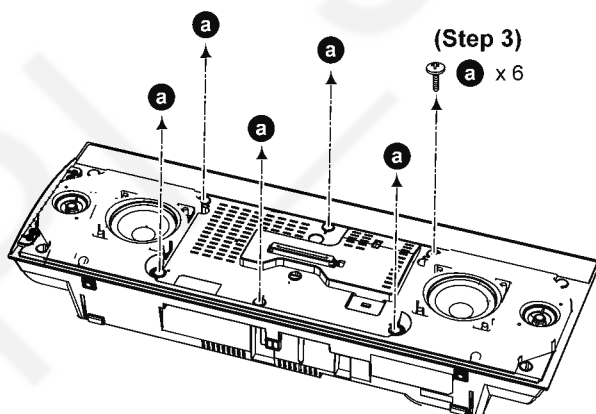
Step 1 Remove Net Frame Unit from the Front Panel Block.



Step 2 Remove 10 Net Holders.

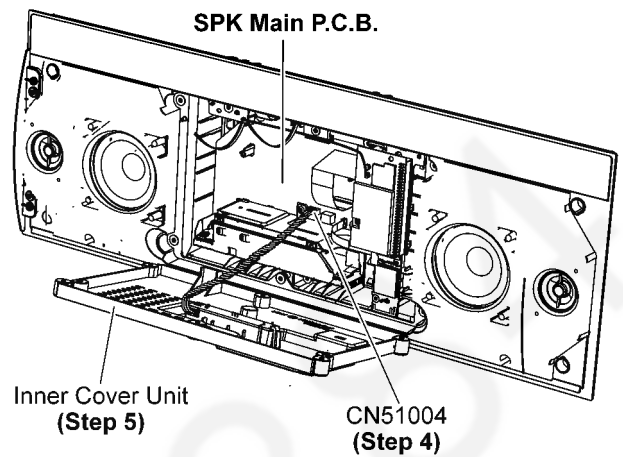


Step 3 Remove 6 screws.



Step 4 Detach 4P Wire at the connector (CN51004) on SPK Main P.C.B..

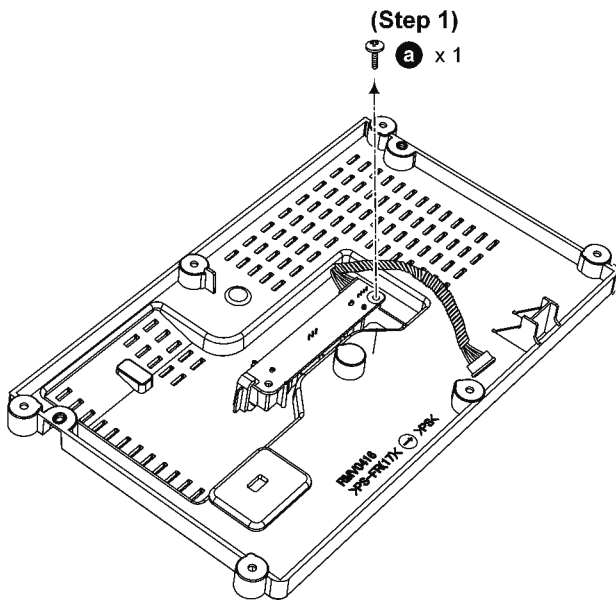
Step 5 Remove the Inner Cover Unit.



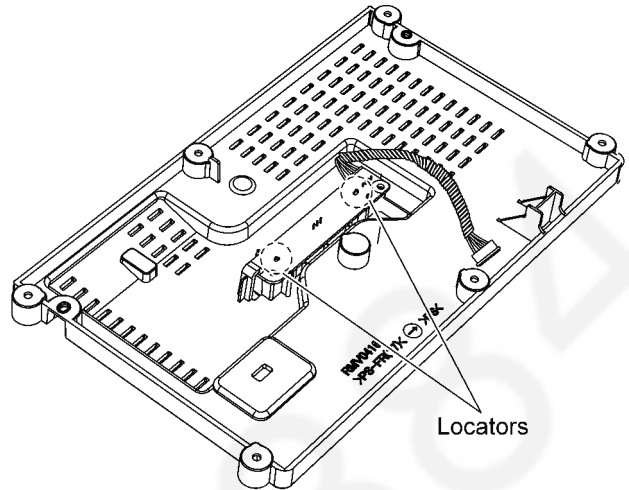
13.5. Disassembly of SPK LED P.C.B.

- Refer to "Disassembly of Inner Cover Unit".

Step 1 Remove 1 screw.

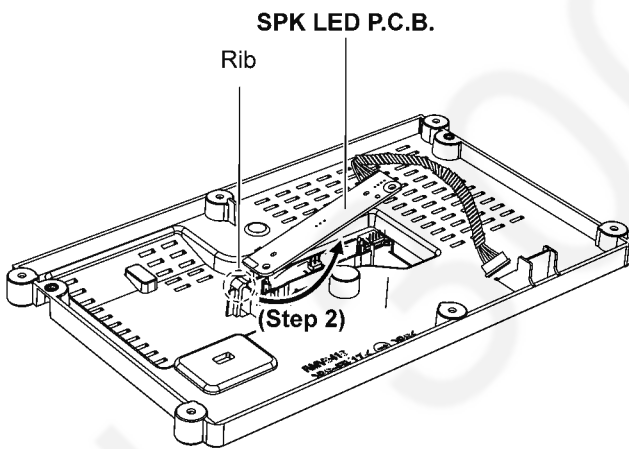


Caution: During assembling, ensure that the SPK LED P.C.B. is properly seated onto the locators of Inner Cover Unit and light panel.



Step 2 Lift up to remove the SPK LED P.C.B. as shown.

Caution: During assembling, ensure the SPK LED P.C.B. is place below the rib.

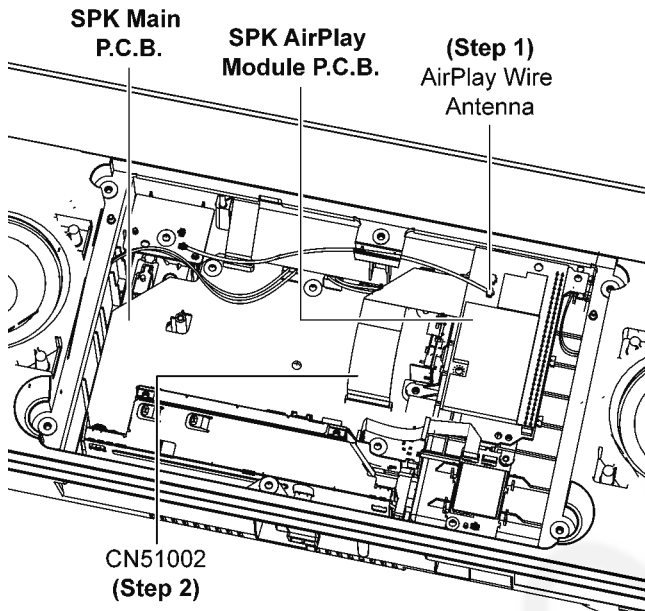


13.6. Disassembly of SPK AirPlay Module P.C.B. and SPK AirPlay Connect P.C.B.

- Refer to "Disassembly of Inner Cover Unit".

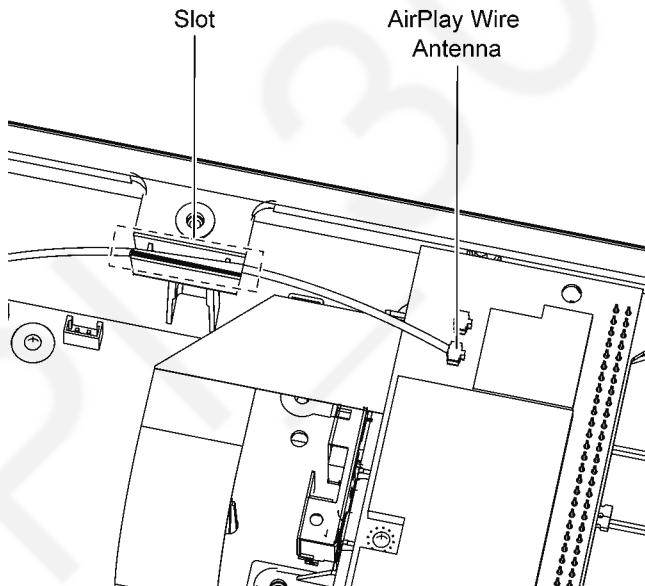
Step 1 Detach 1P AirPlay Wire Antenna on the SPK AirPlay Module P.C.B..

Step 2 Detach 20P FFC at the connector (CN51002) on the SPK Main P.C.B..



Caution 1: During assembling, ensure the AirPlay Wire Antenna is properly inserted in the slot.

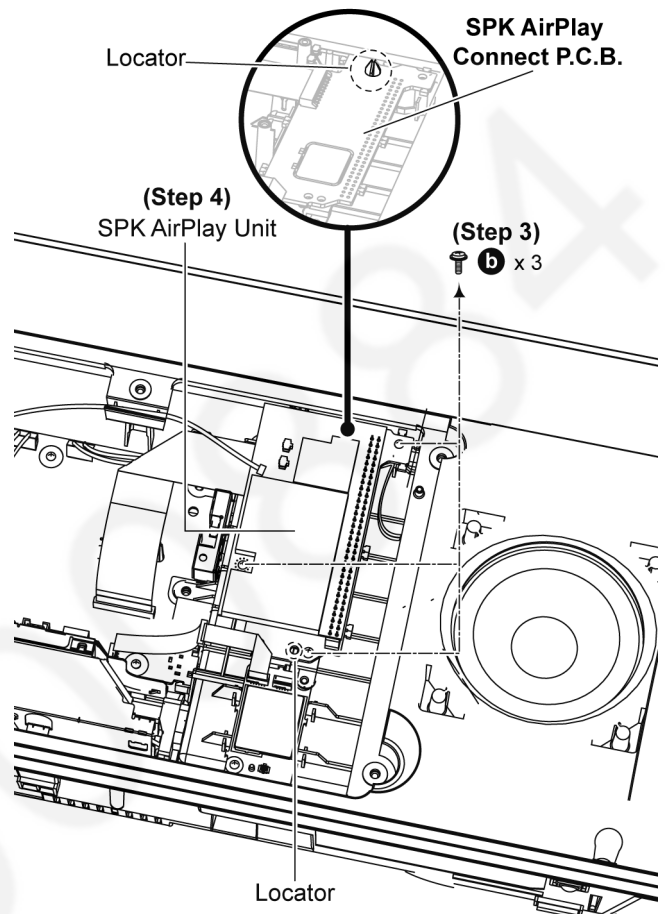
Caution 2: During assembling, ensure the AirPlay Wire Antenna is properly fix on the SPK AirPlay Module P.C.B..



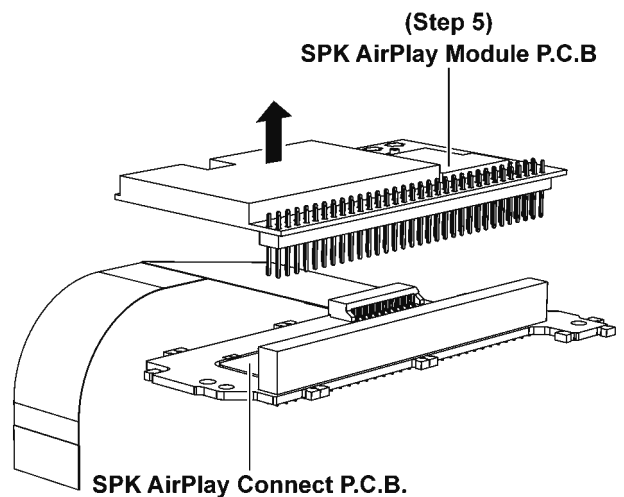
Step 3 Remove 3 screws.

Step 4 Lift up the SPK AirPlay Unit.

Caution: During assembling, ensure the SPK AirPlay Unit properly seated onto the locators.



Step 5 Lift up to remove the SPK AirPlay Module P.C.B..

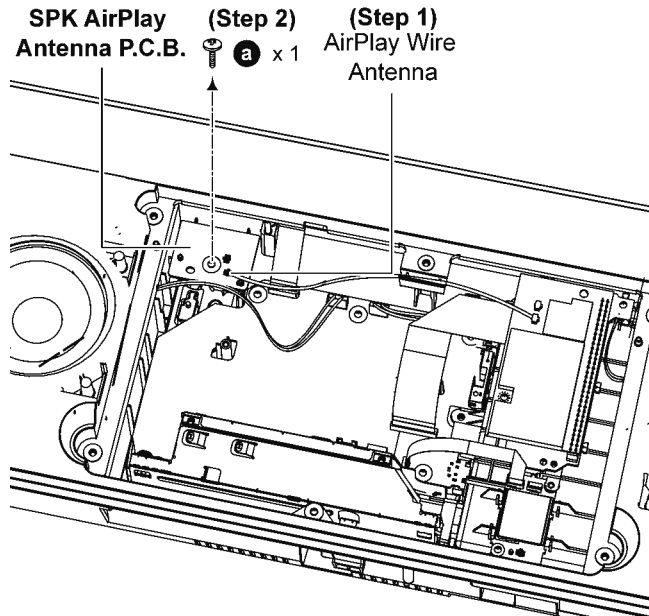


13.7. Disassembly of SPK AirPlay Antenna P.C.B.

- Refer to "Disassembly of Inner Cover Unit".

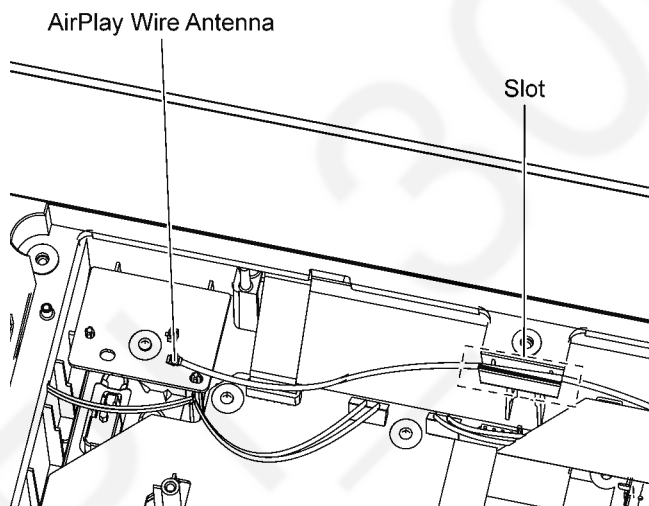
Step 1 Detach 1P AirPlay Wire Antenna from the SPK AirPlay Antenna P.C.B..

Step 2 Remove 1 screw.



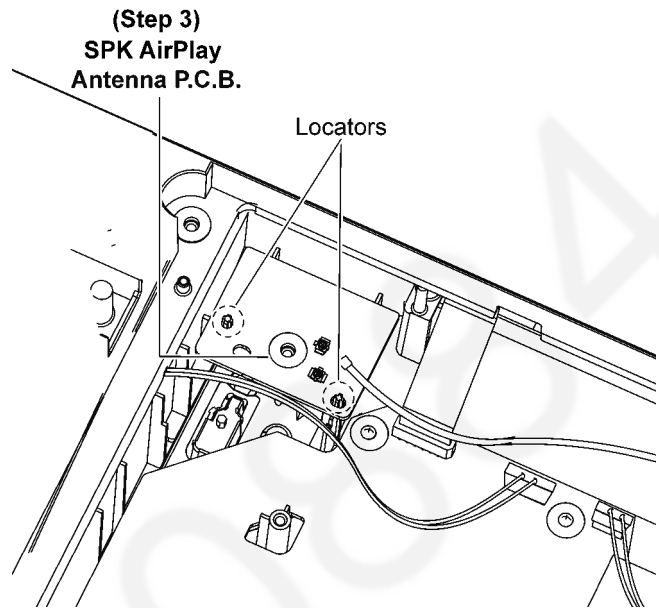
Caution 1: During assembling, ensure the AirPlay Wire Antenna is properly inserted in the slot.

Caution 2: During assembling, ensure the AirPlay Wire Antenna is properly fix on the SPK AirPlay Antenna P.C.B..



Step 3 Lift up the SPK AirPlay Antenna P.C.B..

Caution: During assembling, ensure that the SPK AirPlay Antenna P.C.B. is properly located and fully seated onto the Unit.

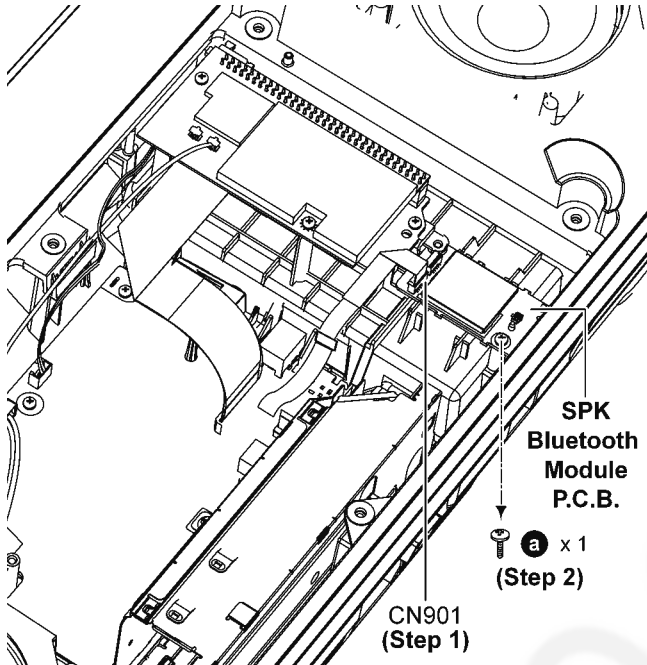


13.8. Disassembly of SPK Bluetooth Module P.C.B.

- Refer to "Disassembly of Inner Cover Unit".

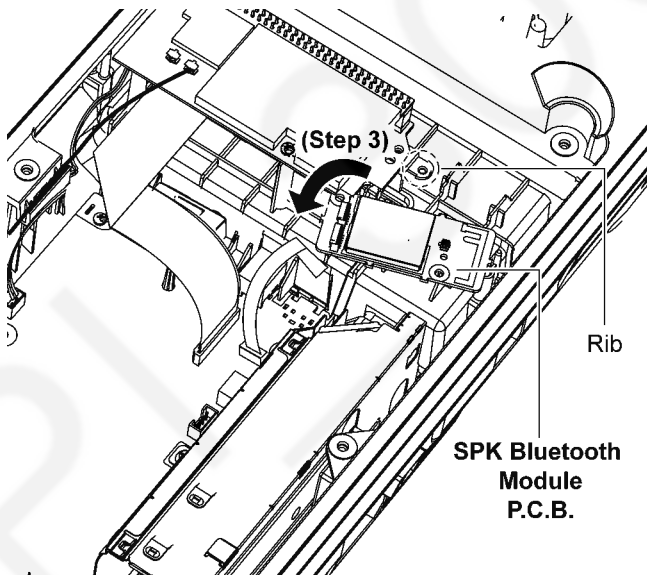
Step 1 Detach 12P FFC at the connector (CN901) on SPK Bluetooth Module P.C.B..

Step 2 Remove 1 screw.

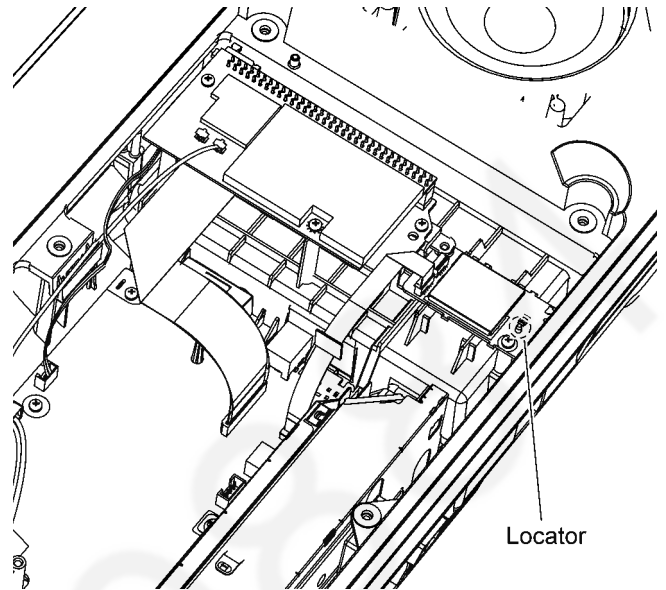


Step 3 Lift up to remove the SPK Bluetooth Module P.C.B. as shown.

Caution: During assembling, ensure the SPK Bluetooth Module P.C.B. is place below the rib.



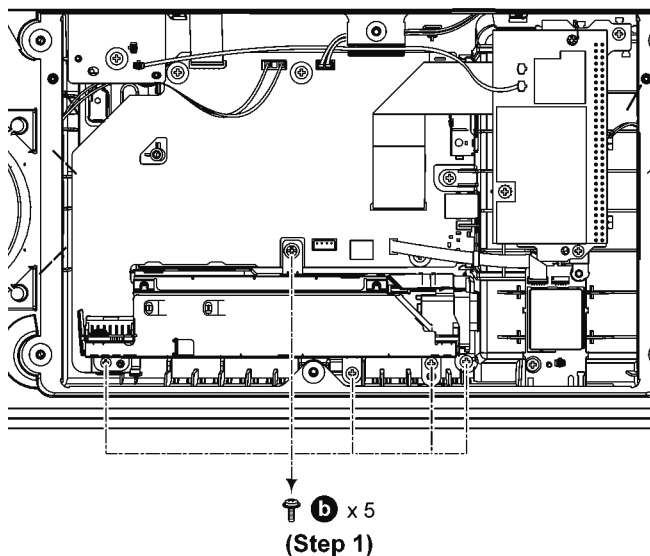
Caution: During assembling, ensure that the SPK Bluetooth Module P.C.B. is properly located and fully seated onto the Unit.



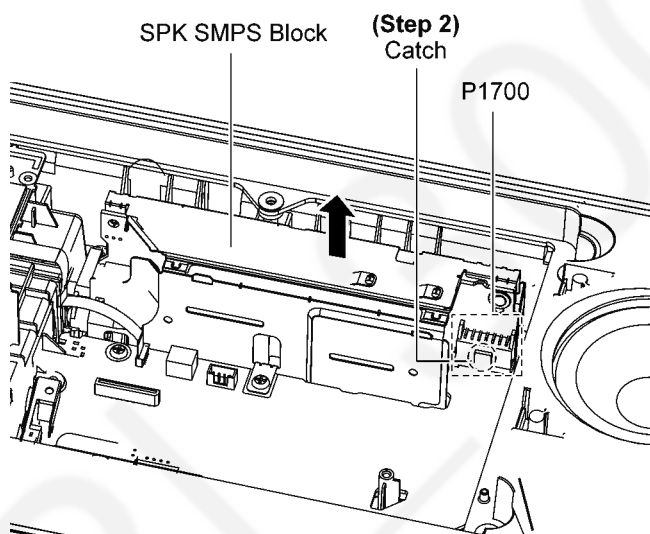
13.9. Disassembly of SPK SMPS P.C.B.

• Refer to “Disassembly of Inner Cover Unit”.

Step 1 Remove 5 screws.

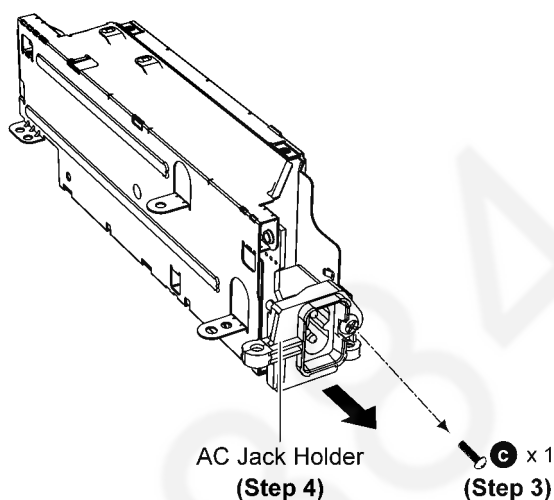


Step 2 Release the catch and lift up the SPK SMPS Block.
Caution: During assembling, a “click” sound could be heard when the SPK SMPS Block is attached properly to the SPK Main P.C.B..



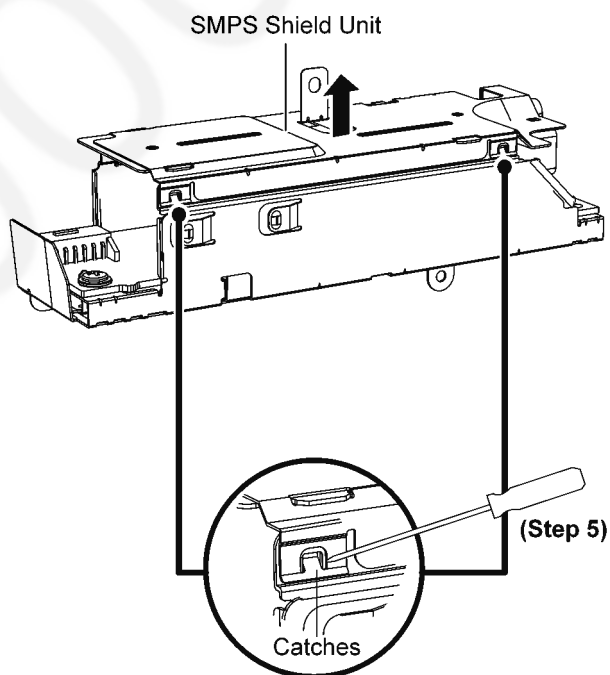
Step 3 Remove 1 screw.

Step 4 Remove AC Jack Holder.



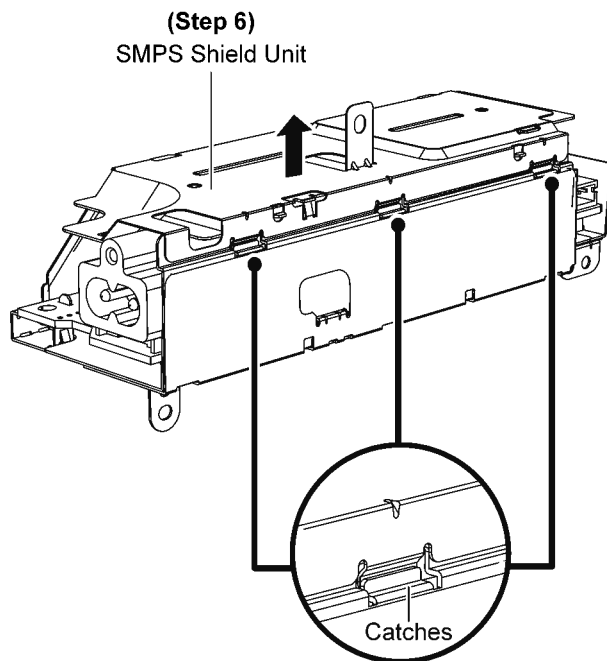
Step 5 Release 2 catches using a screwdriver and gently push up the SMPS Shield Unit.

Caution: During assembling, ensure that the SMPS Shield Unit is caught properly to the SMPS bracket as shown.

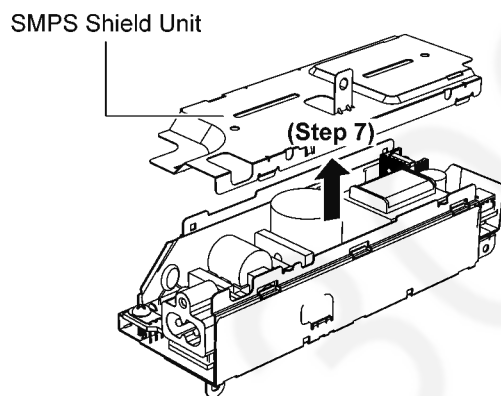


Step 6 Gently push up the SMPS Shield Unit to release the catches.

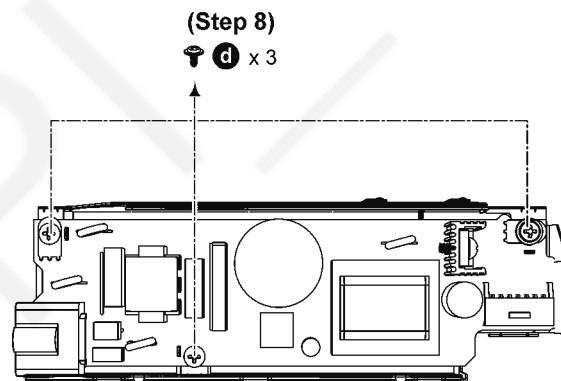
Caution: During assembling, ensure that the SMPS Shield Unit is caught properly to the SMPS bracket as shown.



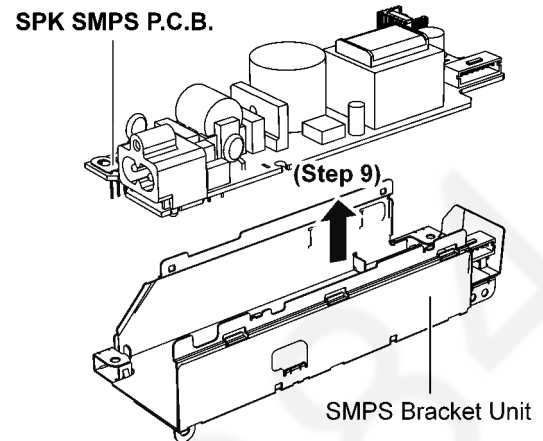
Step 7 Remove the SMPS Shield Unit.



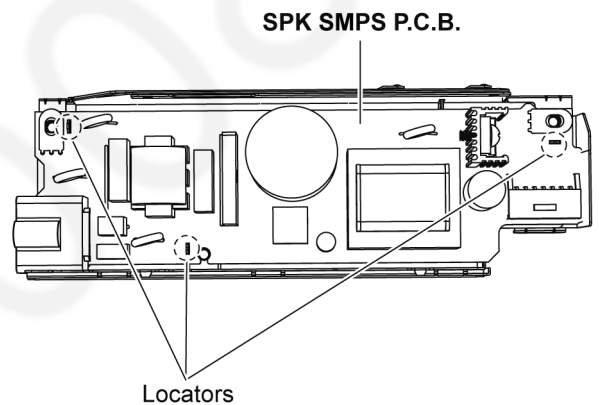
Step 8 Remove 3 screws.



Step 9 Remove the SPK SMPS P.C.B..



Caution: During assembling, ensure that SPK SMPS P.C.B. is properly located and fully seated onto the SMPS Bracket Unit.



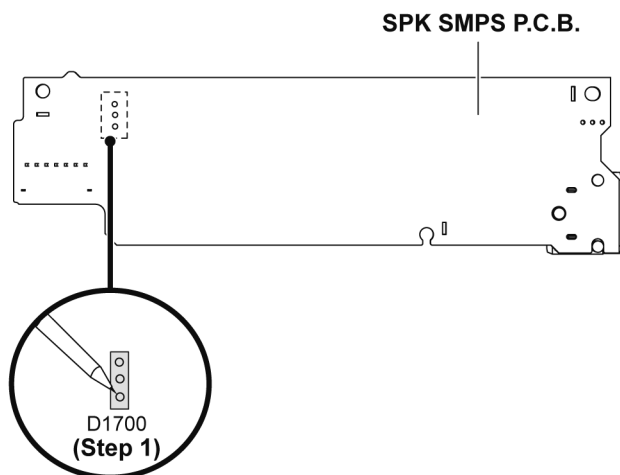
13.10. Replacement of Diode (D1700)

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

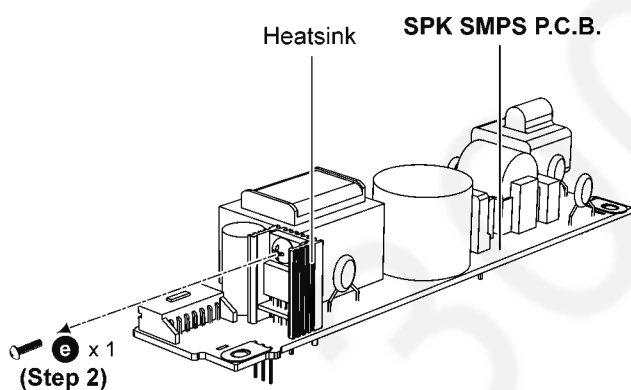
13.10.1. Disassembly of Diode (D1700)

Caution: Avoid touching the heatsink unit and SPK SMPS P.C.B., due to its high temperature after prolonged use. Touching it may lead to injuries.

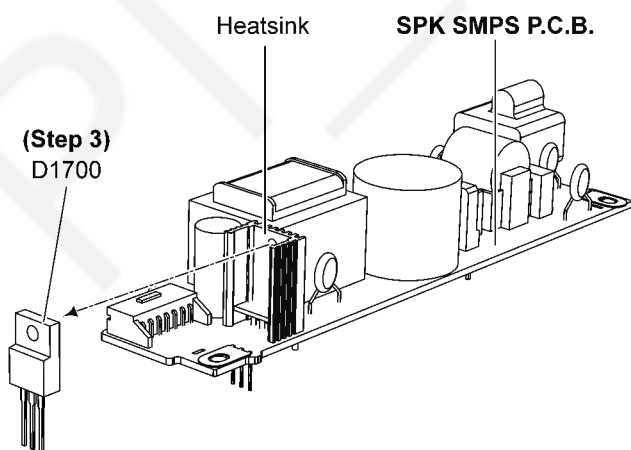
Step 1 Desolder pins of the Diode (D1700) on the solder side of SPK SMPS P.C.B..



Step 2 Remove 1 screw.



Step 3 Remove the Diode (D1700).



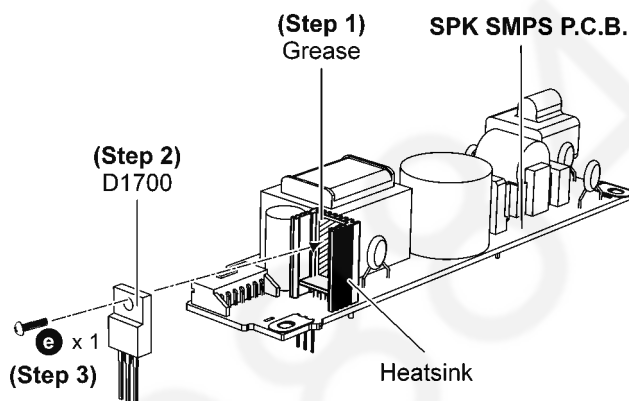
13.10.2. Assembly of Diode (D1700)

Step 1 Apply grease to the heatsink unit.

Step 2 Fix the Diode (D1700) onto SPK SMPS P.C.B..

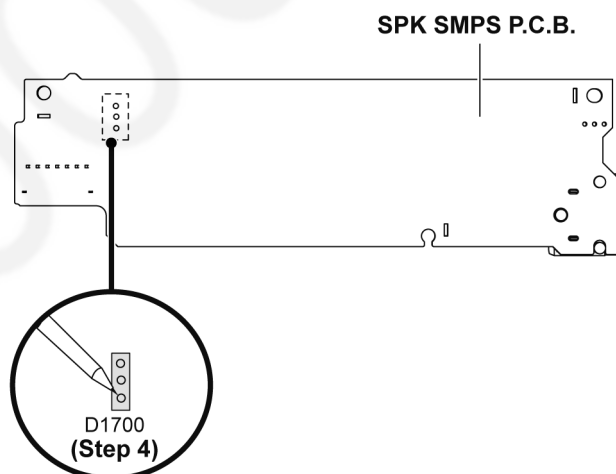
Step 3 Fix the Diode (D1700) onto the heatsink unit with 1 screw.

Caution: Ensure the Diode (D1700) is fixed properly to the heatsink.



Step 4 Solder pins of the Diode (D1700).

Caution: Ensure the Diode (D1700) is seated properly onto the SPK SMPS P.C.B. before soldering.



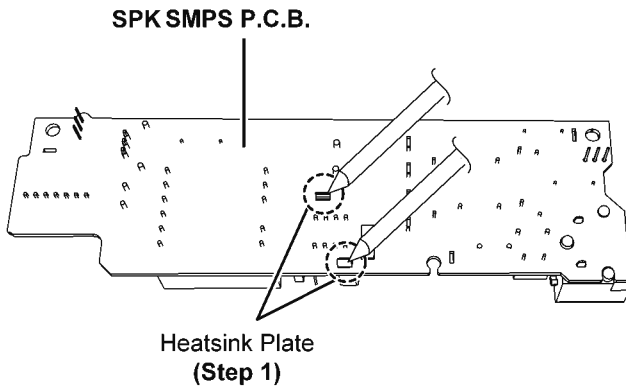
13.11. Replacement of Switching Regulator IC (IC1700)

- Refer to "Disassembly of SPK SMPS P.C.B."

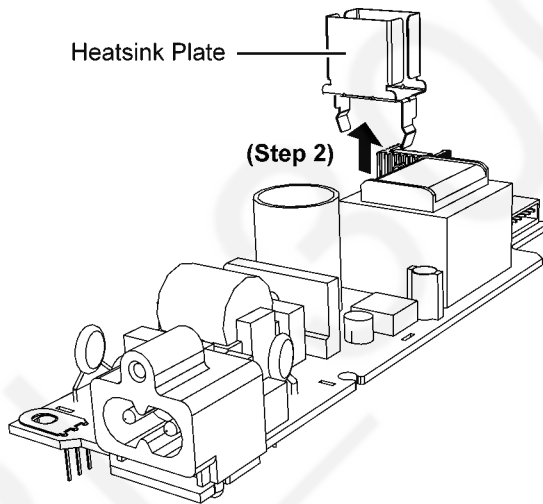
13.11.1. Disassembly of Switching Regulator IC (IC1700)

Caution: Avoid touching the heatsink unit and SPK SMPS P.C.B., due to its high temperature after prolonged use. Touching it may lead to injuries.

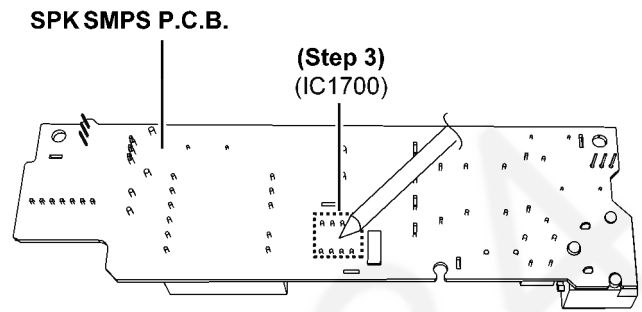
Step 1 Desolder pins of the Heatsink Plate on the solder side of SPK SMPS P.C.B..



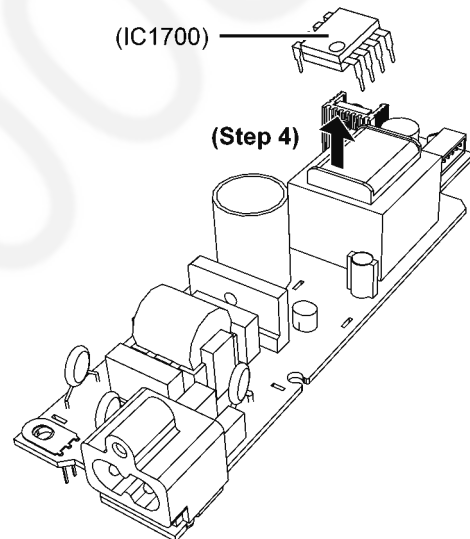
Step 2 Remove the Heatsink Plate.



Step 3 Desolder pins of the Switching Regulator IC (IC1700) on the solder side of SPK SMPS P.C.B..

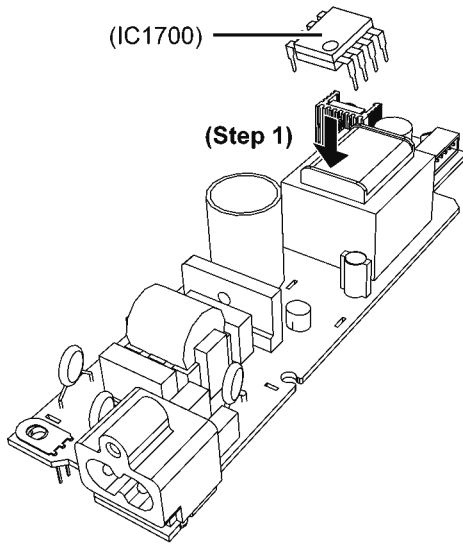


Step 4 Remove the Switching Regulator IC (IC1700).

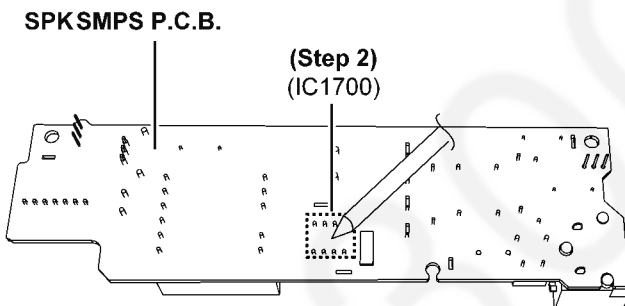


13.11.2. Assembly of Switching Regulator IC (IC1700)

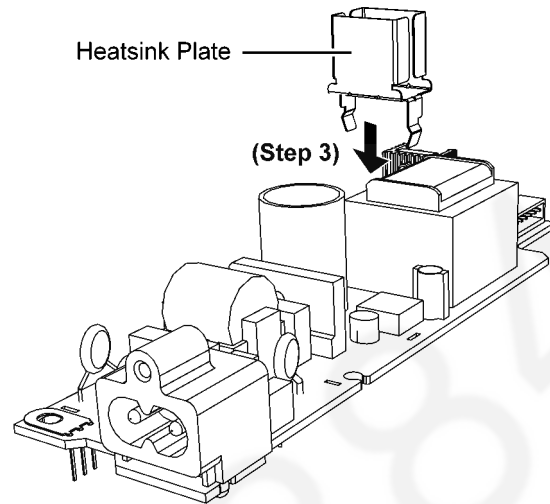
Step 1 Fix the Switching Regulator IC (IC1700) onto SPK SMPS P.C.B..



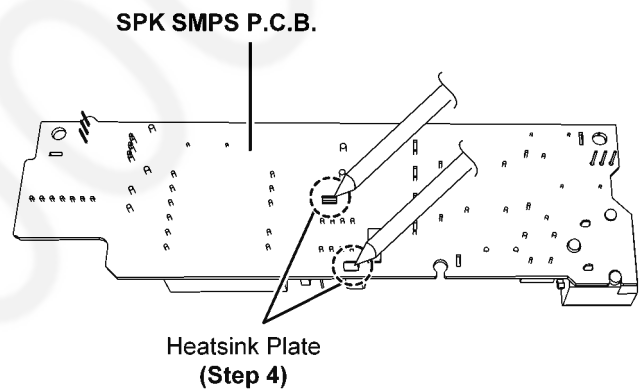
Step 2 Solder pins of the Switching Regulator IC (IC1700).
Caution: Ensure the Switching Regulator IC (IC1700) is seated properly onto the SPK SMPS P.C.B. before soldering.



Step 3 Fix the Heatsink Plate onto SPK SMPS P.C.B..



Step 4 Solder pins of the Heatsink Plate.
Caution: Ensure the Heatsink Plate is seated properly onto the SPK SMPS P.C.B. before soldering.



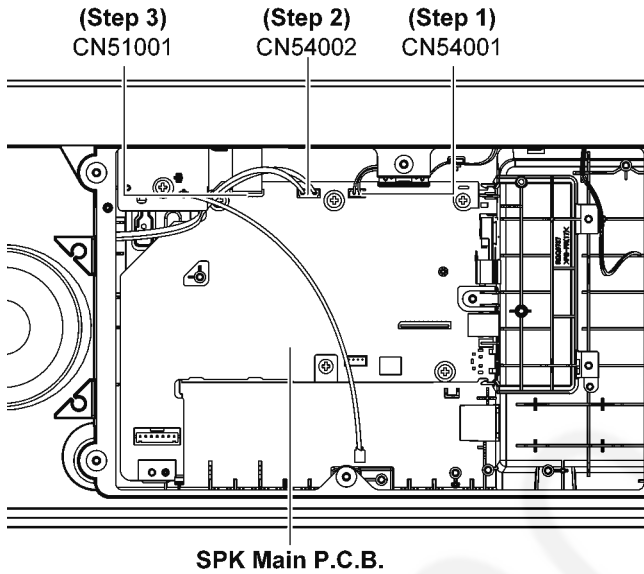
13.12. Disassembly of SPK Main P.C.B.

- Refer to "Disassembly of Inner Cover Unit".
- Refer to "Disassembly of SPK Bluetooth Module P.C.B..".
- Refer to (Step 1) - (Step 4) of Item 13.6.
- Refer to (Step 1) - (Step 2) of Item 13.9.

Step 1 Detach 2P Wire at the connector (CN54001) on SPK Main P.C.B..

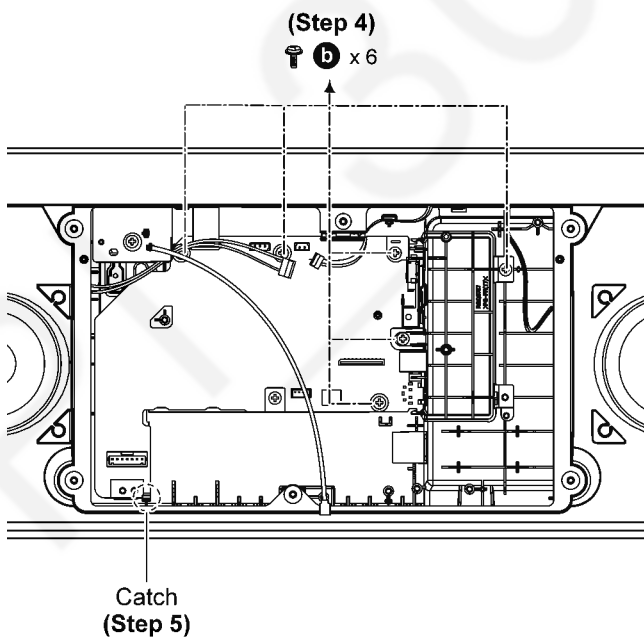
Step 2 Detach 2P Wire at the connector (CN54002) on SPK Main P.C.B..

Step 3 Detach 12P FFC at the connector (CN51001) on SPK Main P.C.B..

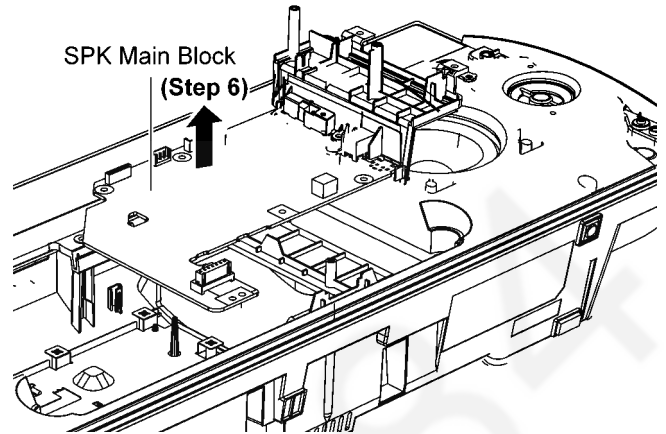


Step 4 Remove 6 screws.

Step 5 Release 1 catch.

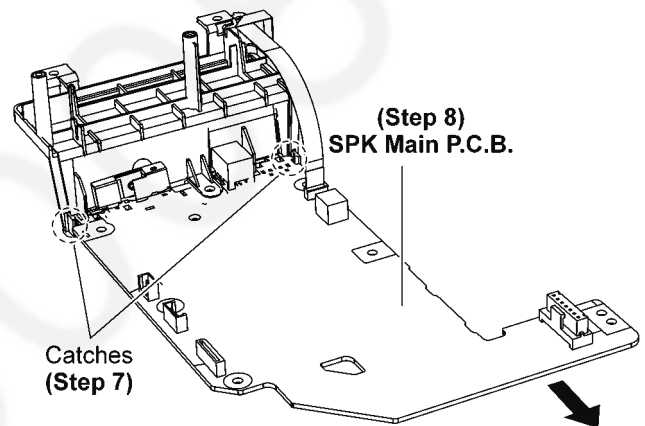


Step 6 Remove the SPK Main Block.

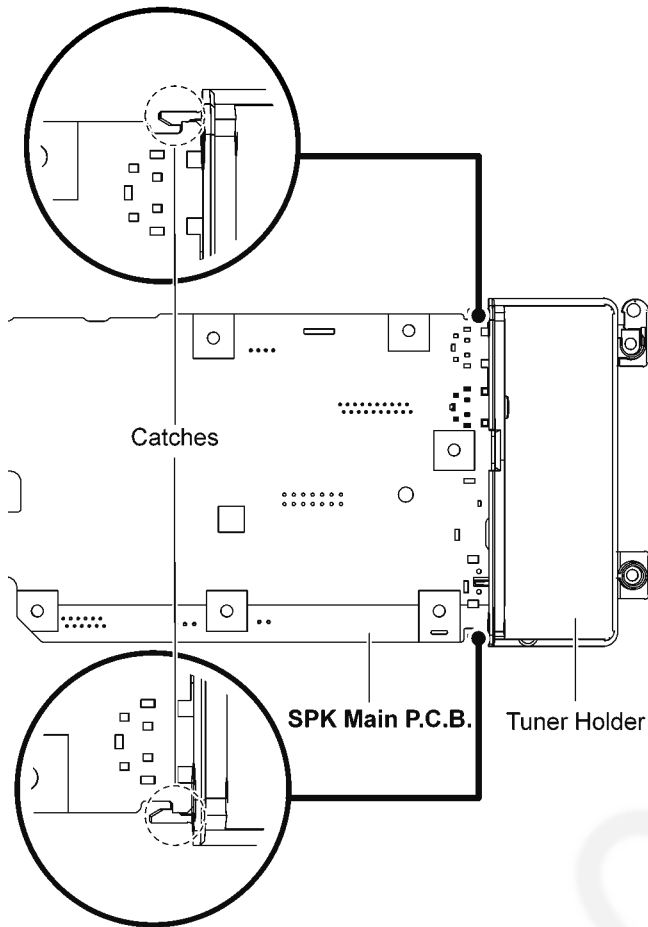


Step 7 Release 2 catches.

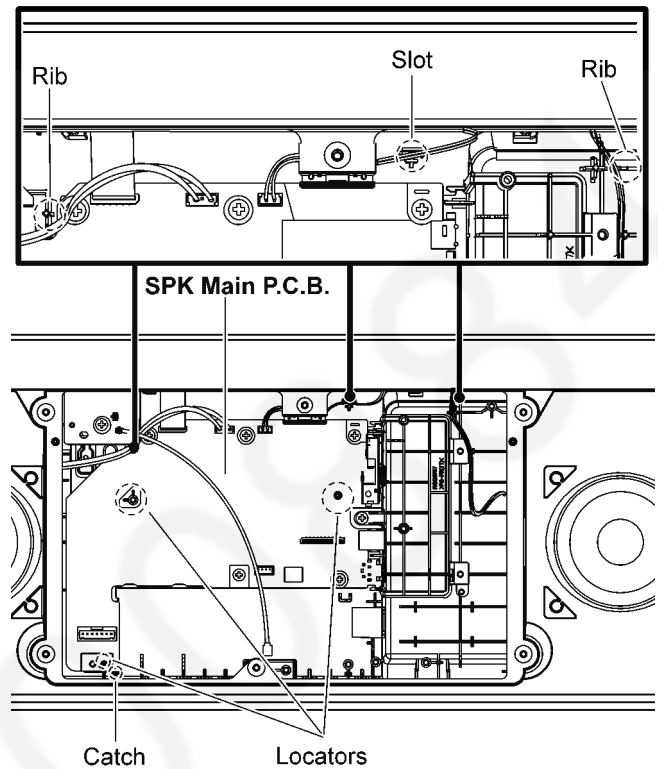
Step 8 Remove the SPK Main P.C.B..



Caution: During assembling, ensure that Tuner Holder is properly located and fully seated onto the SPK Main P.C.B..



Caution 1: During assembling, ensure that the (SP1 and SP2) 2P Wire are dressed into the ribs and slot as shown.
Caution 2: During assembling, ensure that SPK Main P.C.B. is properly located and fully seated onto the Unit.



13.13. Disassembly of Front Panel Block

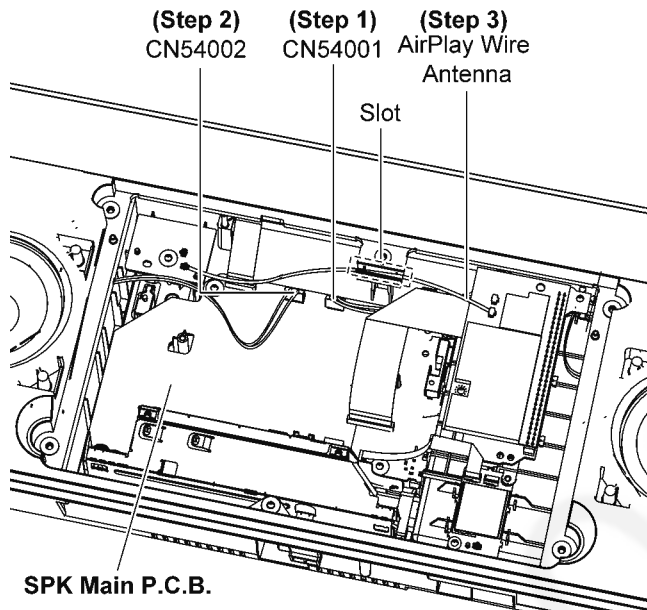
- Refer to "Disassembly of Inner Cover Unit".

Step 1 Detach 2P Wire at the connector (CN54001) on SPK Main P.C.B..

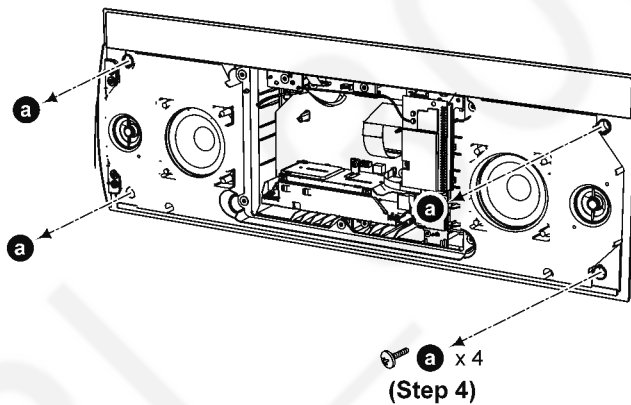
Step 2 Detach 2P Wire at the connector (CN54002) on SPK Main P.C.B..

Step 3 Lift up the AirPlay Wire Antenna from the slot.

Caution: During assembling, ensure AirPlay Wire Antenna is properly insert in the slot.

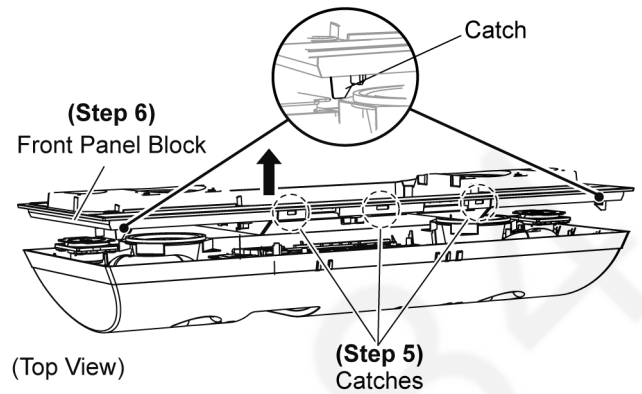


Step 4 Remove 4 screws.

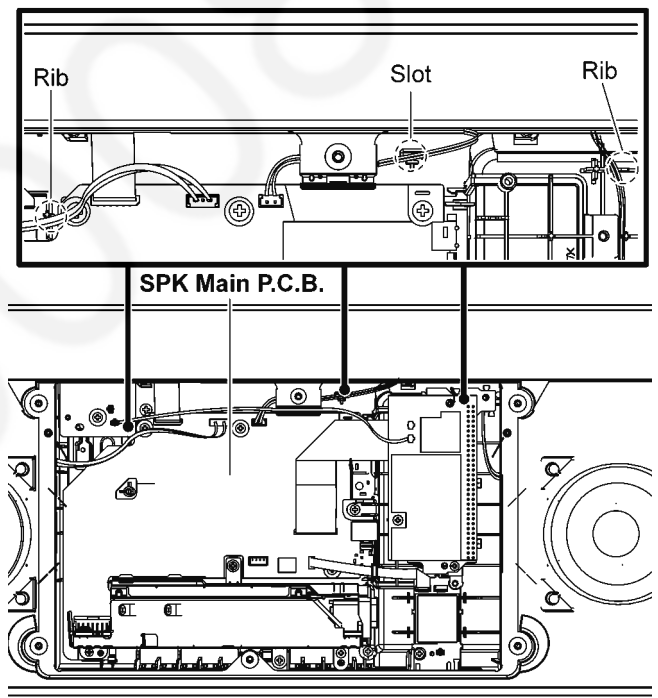


Step 5 Release 5 catches.

Step 6 Remove the Front Panel Block as arrow shown.



Caution: During assembling, ensure that the (SP1 and SP2) 2P Wire are dressed into the ribs and slot as shown.

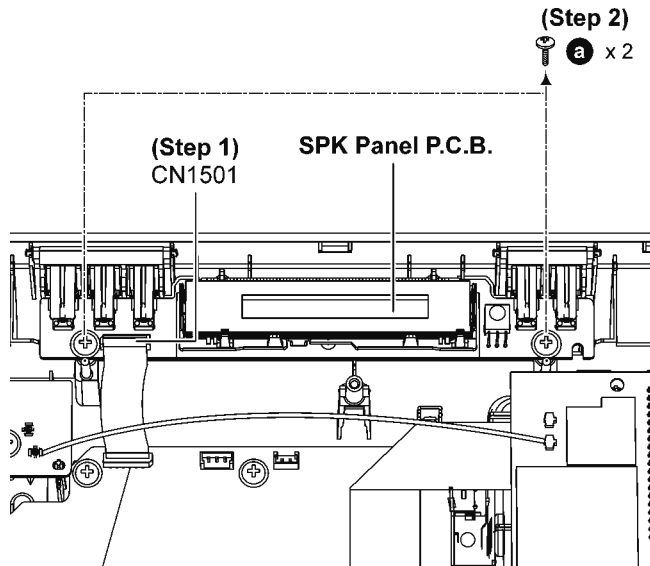


13.14. Disassembly of SPK Panel P.C.B.

- Refer to "Disassembly of Inner Cover Unit"
- Refer to "Disassembly of Front Panel Block"

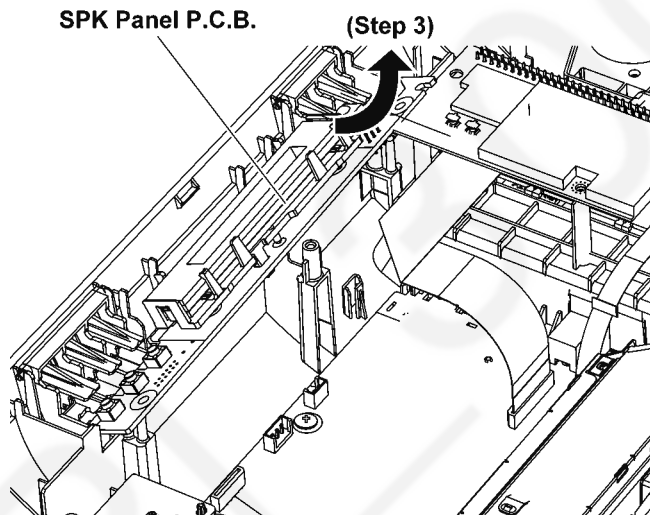
Step 1 Detach 12P FFC at the connector (CN1501) on SPK Panel P.C.B..

Step 2 Remove 2 screws.

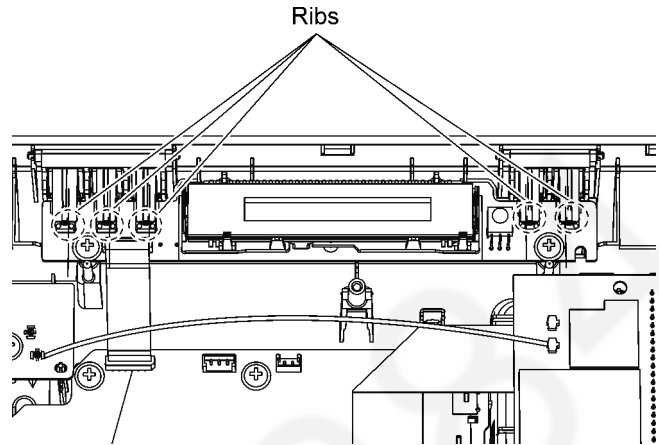


Step 3 Lift up and remove the SPK Panel P.C.B..

Caution: During assembling, ensure that the SPK Panel P.C.B. is properly and fully seated onto the unit.



Caution: During assembling, make sure the buttons are placed properly below the ribs.

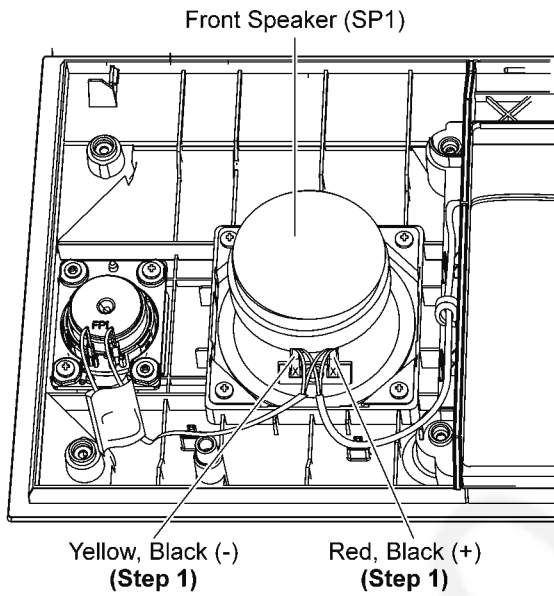


13.15. Disassembly of Front Speaker (SP1 and SP2)

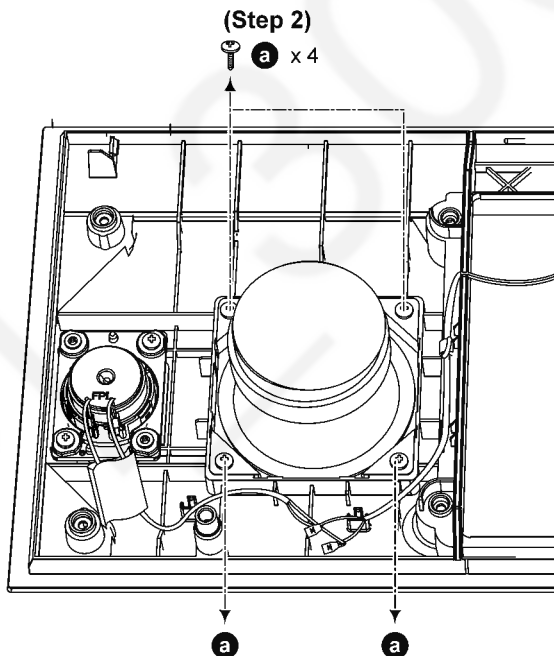
- Refer to "Disassembly of Inner Cover Unit"
- Refer to "Disassembly of Front Panel Block"

Note: Front Speaker (SP1 and SP2) have the same Mechanical structure. For disassembling of Front Speaker (SP2), repeat the (Step 1) to (Step 3) of Item 11.15.

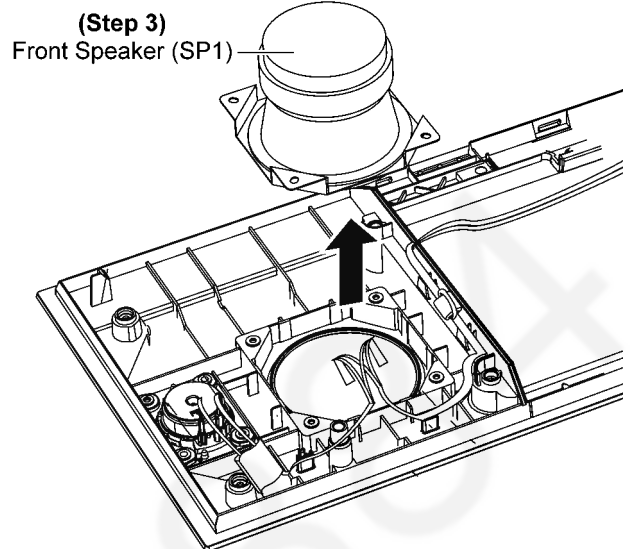
Step 1 Detach Red, Black (+) Wire and Yellow, Black (-) Wire at the terminals on the Front Speaker (SP1).



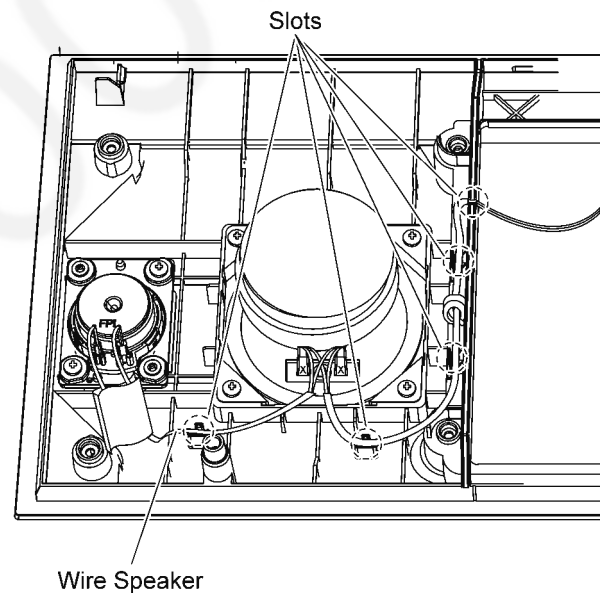
Step 2 Remove 4 screws.



Step 3 Remove the Front Speaker (SP1).



Caution: During assembling, ensure the wires of the speaker are fully caught to the slot.



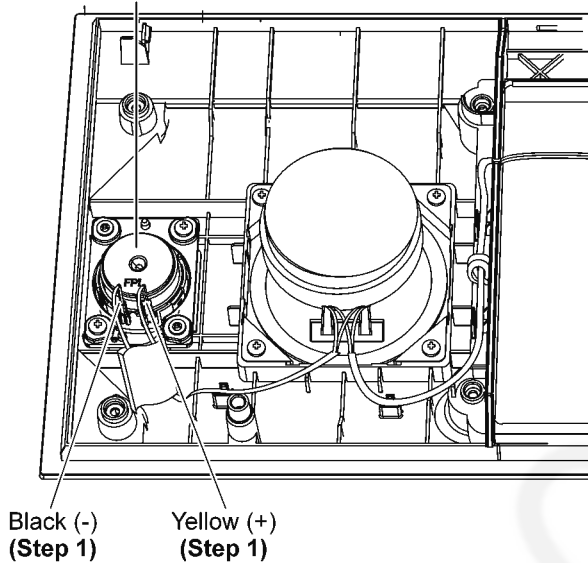
13.16. Disassembly of Tweeter Speaker (SP3 and SP4)

- Refer to "Disassembly of Inner Cover Unit"
- Refer to "Disassembly of Front Panel Block"

Note: Tweeter Speaker (SP3 and SP4) have the same Mechanical structure. For disassembling of Tweeter Speaker (SP4), repeat the (Step 1) to (Step 3) of Item 11.16.

Step 1 Detach Yellow (+) Wire and Black (-) Wire at the terminals on the Tweeter Speaker (SP3).

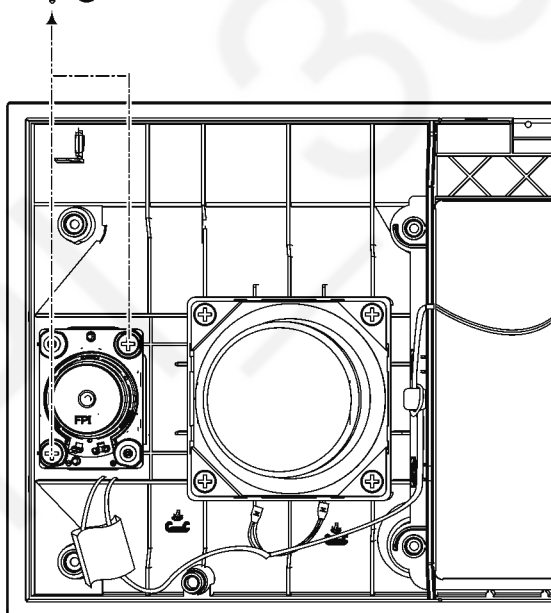
Tweeter Speaker (SP3)



Step 2 Remove 2 screws.

(Step 2)

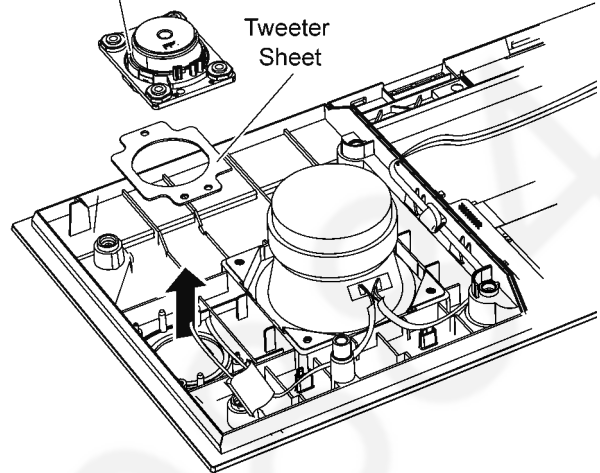
a x 2



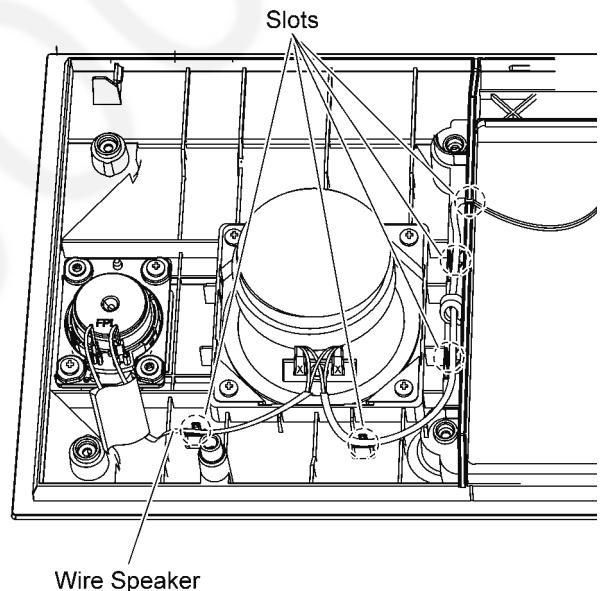
Step 3 Lift up to remove Tweeter Speaker (SP3).

Caution: During assembling, ensure the Tweeter Sheet and the Tweeter Speaker are properly fixed.

(Step 3)
Tweeter Speaker (SP3)



Caution: During assembling, ensure the wires of the speaker are fully caught to the slot.



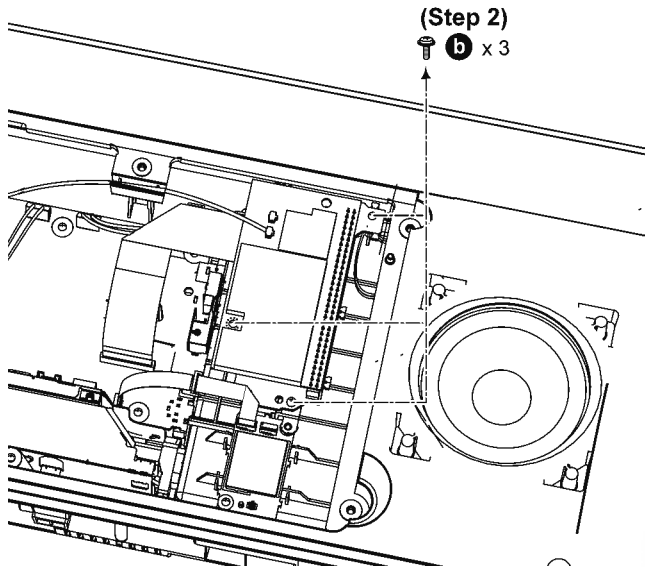
14 Service Position (SB-NE5)

Note: For description of the disassembly procedures, see the Section 13.

14.1. Checking of SPK AirPlay Connect P.C.B.

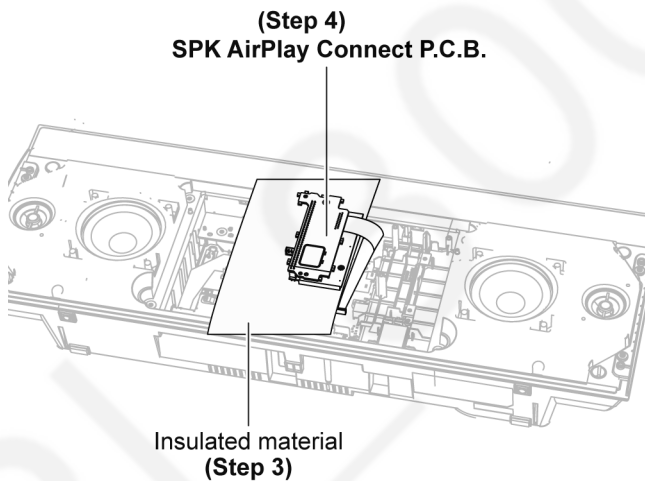
Step 1 Remove the Inner Cover Unit.

Step 2 Remove 3 screws.



Step 3 Flip over the SPK AirPlay Connect P.C.B. and SPK AirPlay Module P.C.B. onto insulated material.

Step 4 Check the SPK AirPlay Connect P.C.B. according to the diagram shown.



14.2. Checking of SPK SMPS P.C.B.

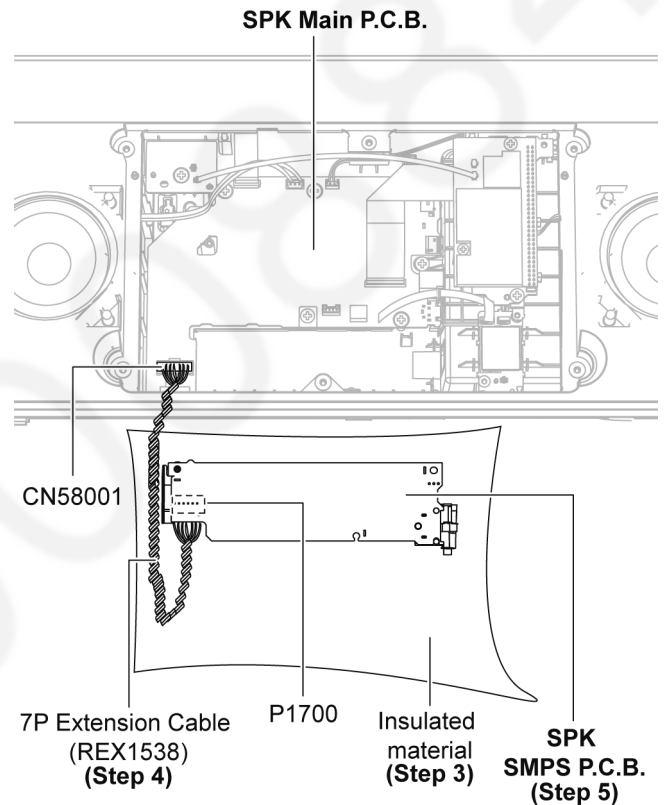
Step 1 Remove the Inner Cover Unit.

Step 2 Remove the SPK SMPS P.C.B.

Step 3 Place the SPK SMPS P.C.B. onto insulated material.

Step 4 Connect 7P extension cable (REX1538) from P1700 on the SPK SMPS P.C.B. to CN58001 SPK Main P.C.B..

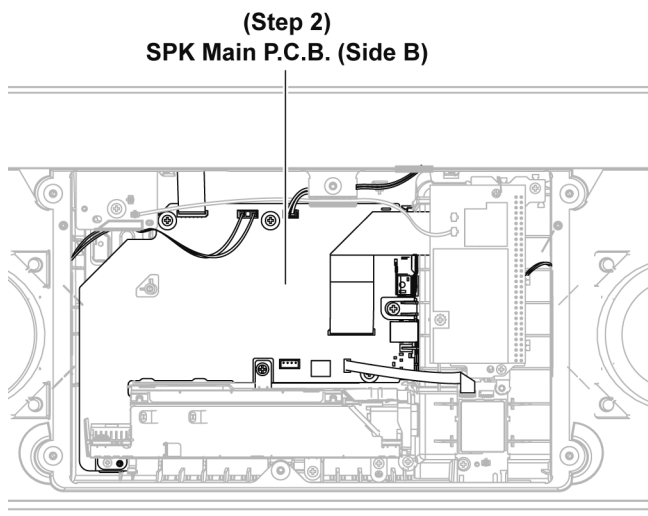
Step 5 Check the SPK SMPS P.C.B. according to the diagram shown.



14.3. Checking of SPK Main P.C.B. (Side B)

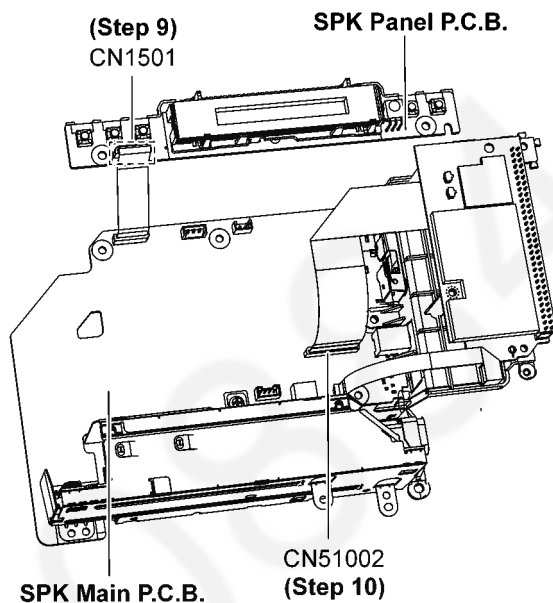
Step 1 Remove the Inner Cover Unit.

Step 2 Check the SPK Main P.C.B. (Side B) according to the diagram shown.



Step 9 Connect 12P FFC at the connector (CN1501) on SPK Panel P.C.B..

Step 10 Connect 20P FFC at the connector (CN51002) on SPK Main P.C.B..



14.4. Checking of SPK Main P.C.B. (Side A)

Step 1 Remove the Inner Cover Unit.

Step 2 Remove the SPK Bluetooth Module P.C.B..

Step 3 Remove the SPK AirPlay Unit.

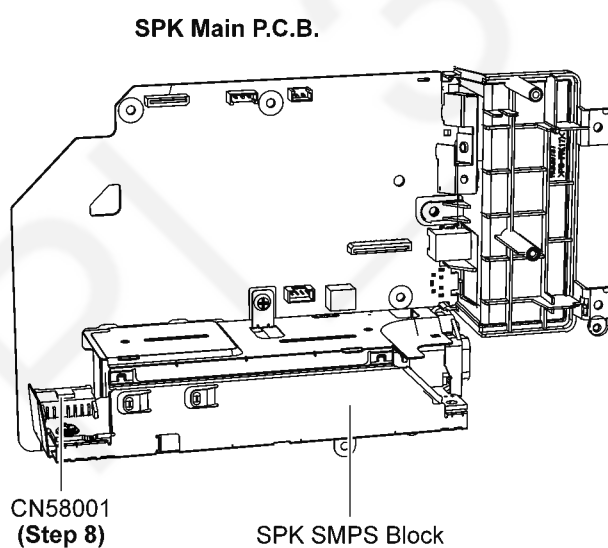
Step 4 Remove the SPK SMPS Block.

Step 5 Remove the SPK Main P.C.B..

Step 6 Remove the Front Panel Block.

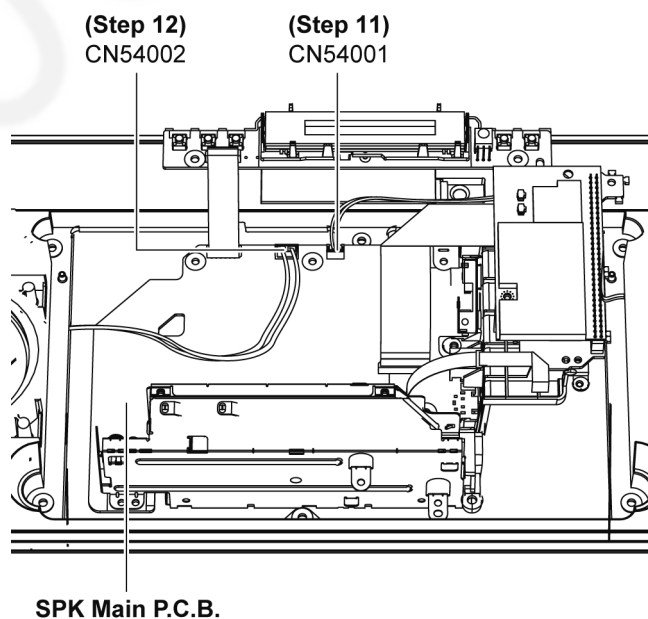
Step 7 Remove the SPK Panel P.C.B..

Step 8 Connect 7P at the connector (CN58001) on SPK Main P.C.B..



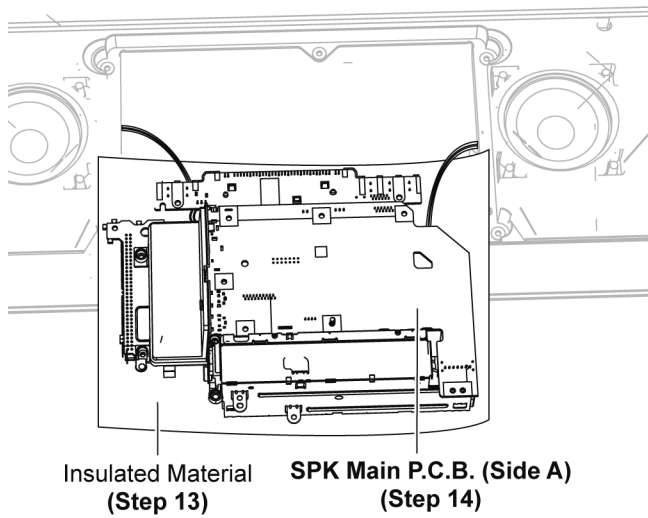
Step 11 Connect 2P Wire at the connector (CN54001) on SPK Main P.C.B..

Step 12 Connect 2P Wire at the connector (CN54002) on SPK Main P.C.B..



Step 13 Flip over and place the SPK Main P.C.B. onto insulated material.

Step 14 Check the SPK Main P.C.B. (Side A) according to the diagram shown.



14.5. Checking of SPK Panel P.C.B.

Step 1 Remove the Inner Cover Unit.

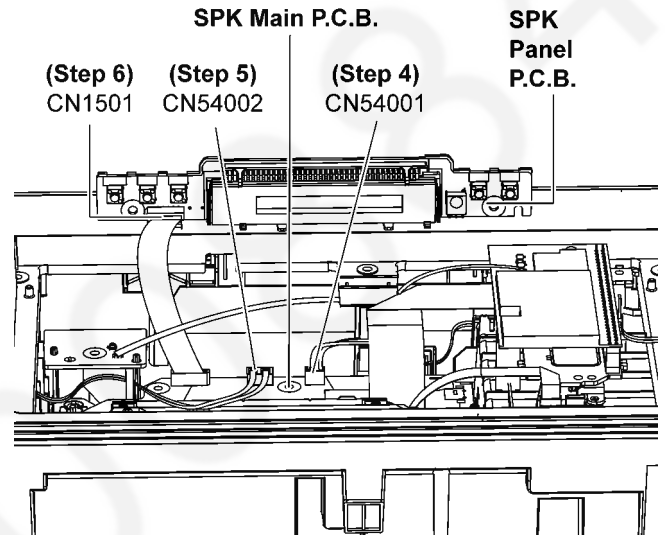
Step 2 Remove the Front Panel Block.

Step 3 Remove the SPK Panel P.C.B..

Step 4 Connect 2P Wire at the connector (CN54001) on SPK Main P.C.B..

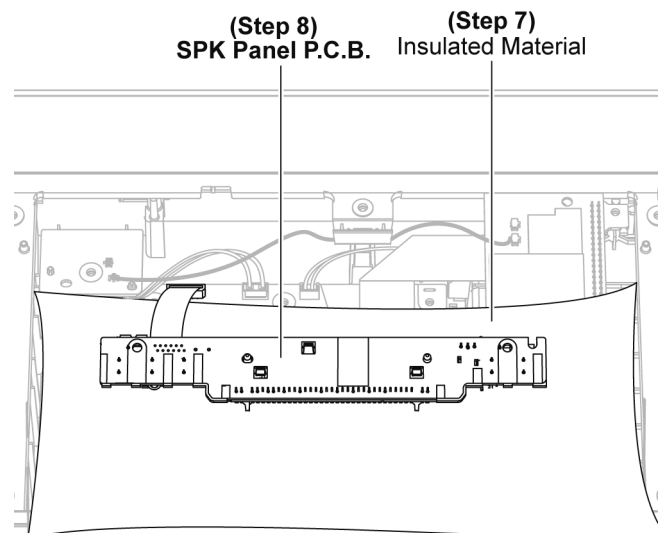
Step 5 Connect 2P Wire at the connector (CN54002) on SPK Main P.C.B..

Step 6 Connect 12P FFC at the connector (CN1501) on SPK Panel P.C.B..



Step 7 Place the SPK Panel P.C.B. onto insulated material.

Step 8 Check the SPK Panel P.C.B. according to the diagram shown.

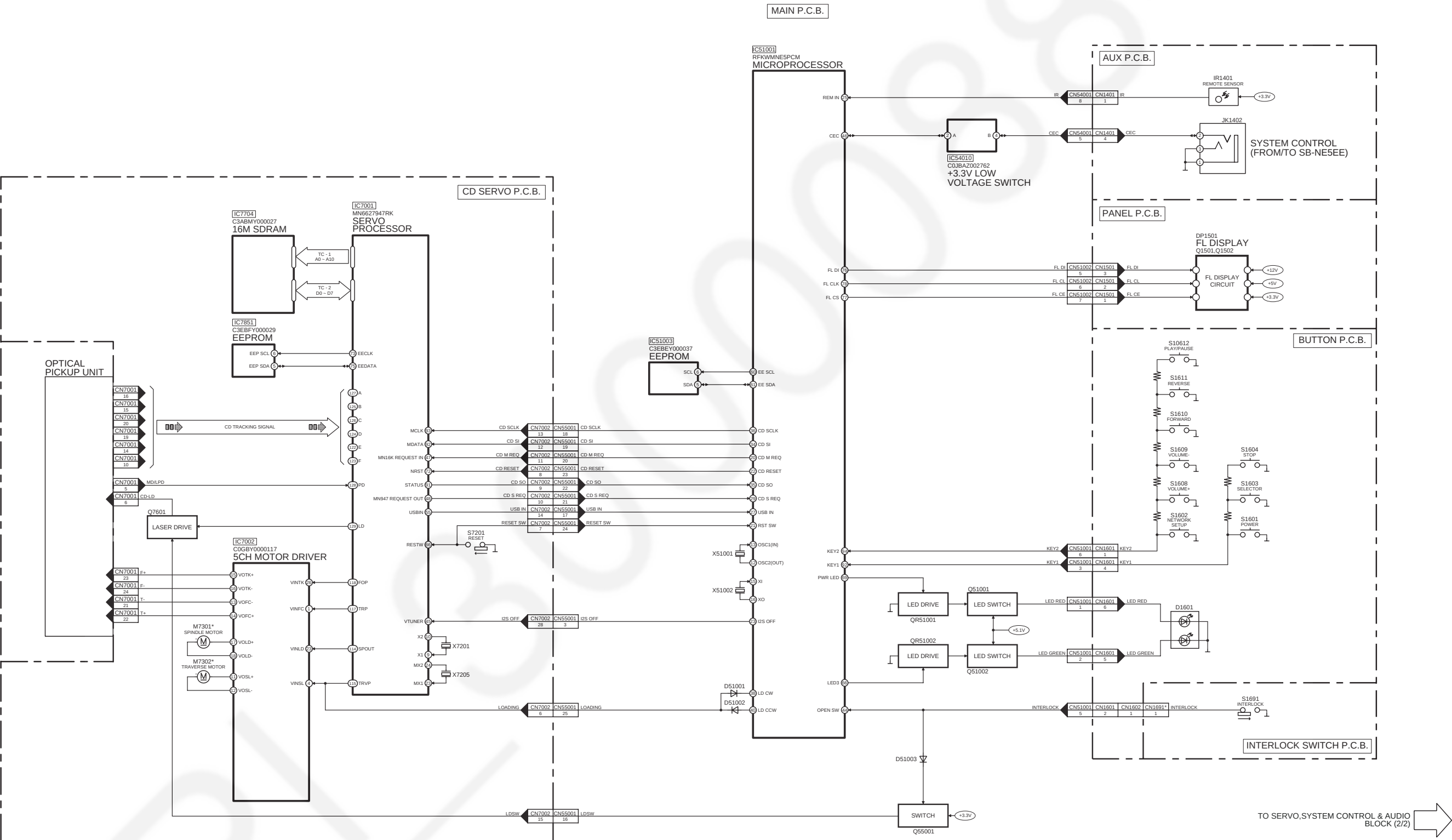


PL/30000884

15 Block Diagram

15.1. Servo, System Control and Audio (SL-NE5)

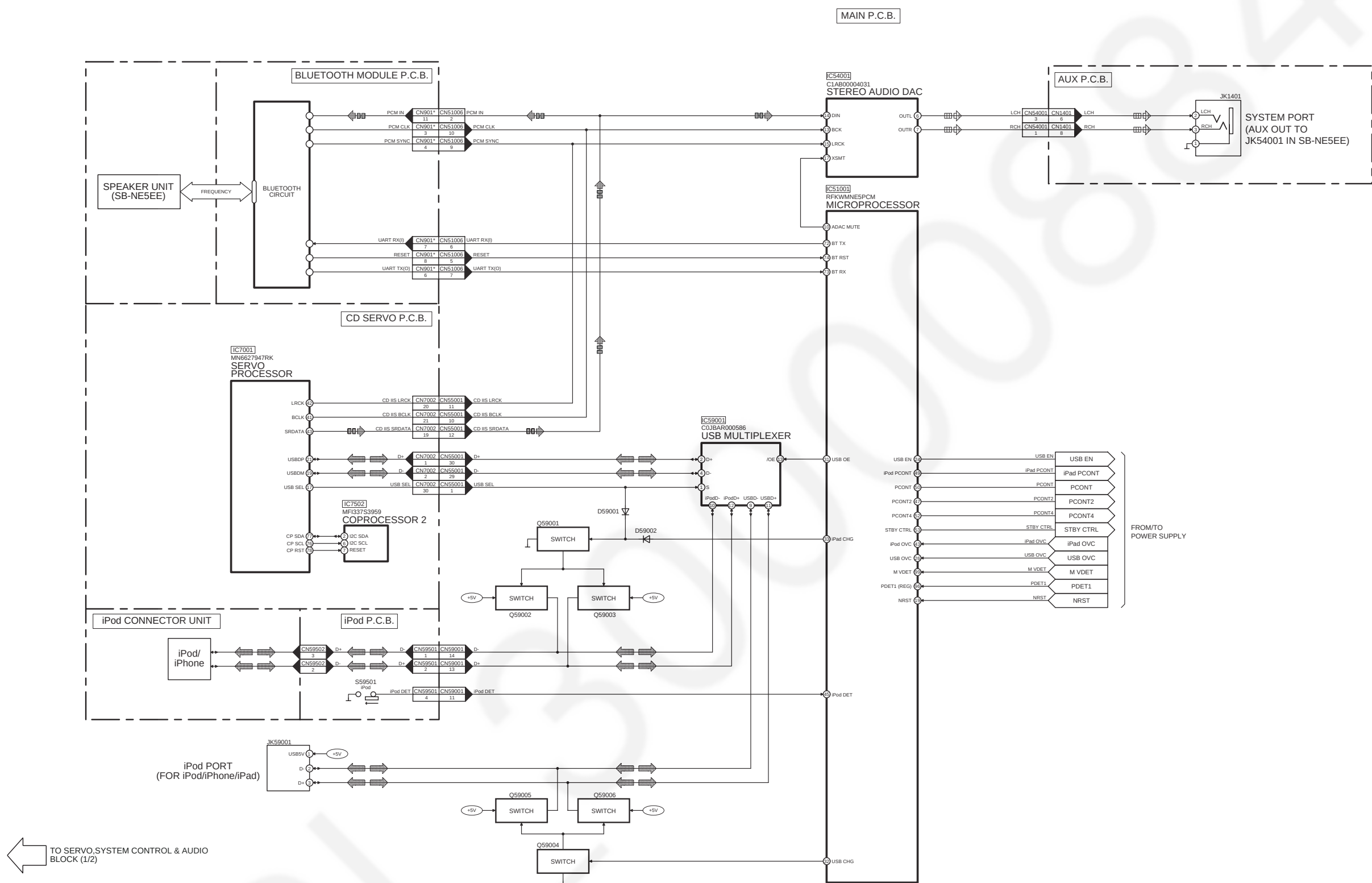
 : CD AUDIO INPUT SIGNAL LINE
  : AUX AUDIO INPUT SIGNAL LINE
  : USB/iPod/iPhone/iPad SIGNAL LINE



TO SERVO, SYSTEM CONTROL & AUDIO BLOCK (2/2)

NOTE: " * " REF IS FOR INDICATION ONLY

SC-NE5EE(SL-NE5EE) SERVO, SYSTEM CONTROL & AUDIO (1/2) BLOCK DIAGRAM



← TO SERVO, SYSTEM CONTROL & AUDIO
BLOCK (1/2)

NOTE: " * " REF IS FOR INDICATION ONLY

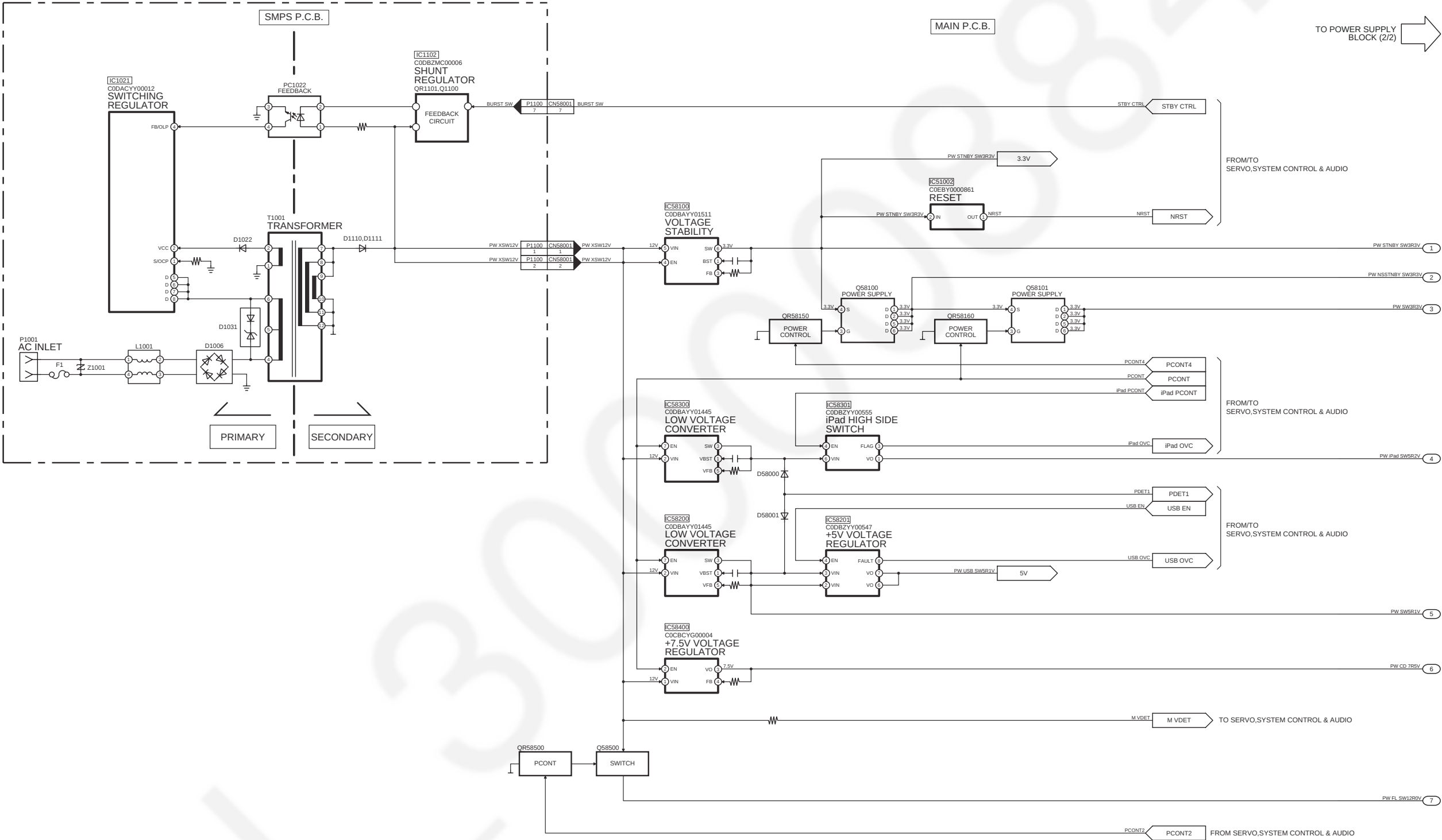
SC-NE5EE(SL-NE5EE) SERVO,SYSTEM CONTROL & AUDIO (2/2) BLOCK DIAGRAM

15.2. IC Terminal Chart (SL-NE5)

TC	IC7704 16M SDRAM		SIGNAL NAME	IC7001 SERVO PROCESSOR	
	PORT NAME	PIN NO		PIN NO	PORT NAME
1	A0	21	A0	35	A0
	A1	22	A1	34	A1
	A2	23	A2	33	A2
	A3	24	A3	112	A3
	A4	27	A4	111	A4
	A5	28	A5	110	A5
	A6	29	A6	109	A6
	A7	30	A7	108	A7
	A8	31	A8	107	A8
	A9	32	A9	106	A9
	A10	20	A10	36	A10

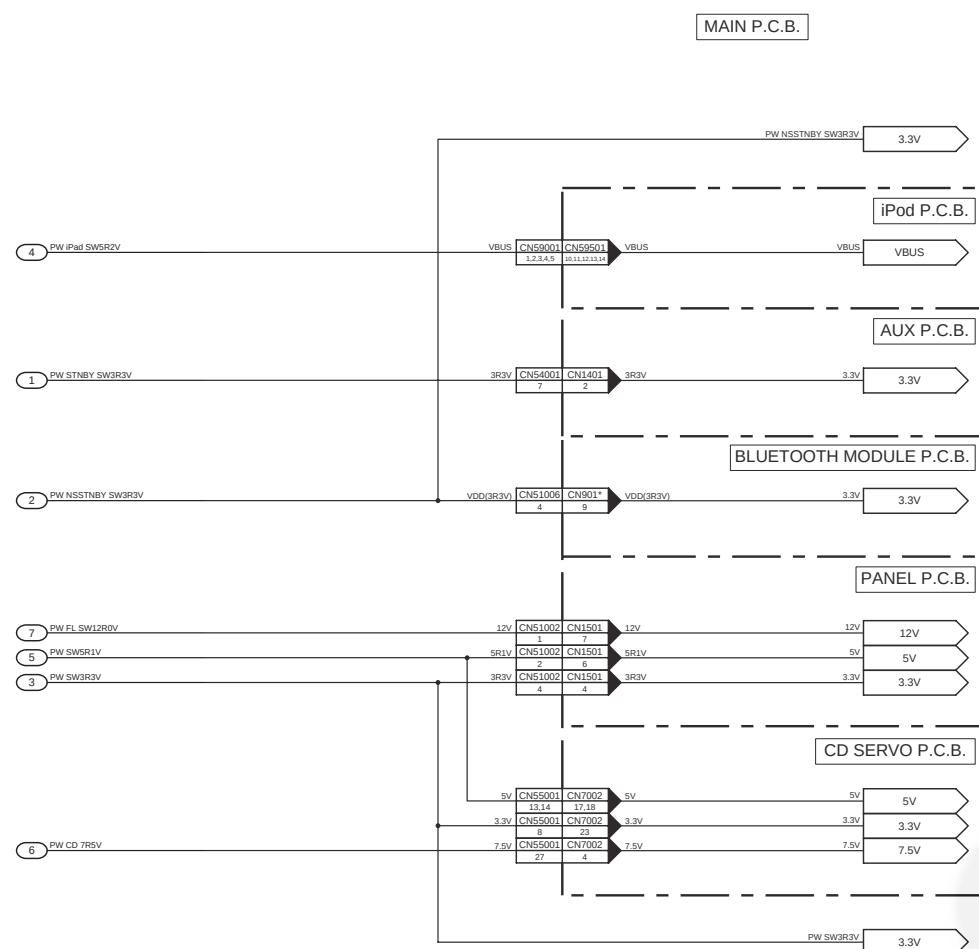
TC	IC7704 16M SDRAM		SIGNAL NAME	IC7001 SERVO PROCESSOR	
	PORT NAME	PIN NO		PIN NO	PORT NAME
2	DQ0 / DQ15	2 / 49	D0	102	D0
	DQ1 / DQ14	3 / 48	D1	101	D1
	DQ2 / DQ13	5 / 46	D2	100	D2
	DQ3 / DQ12	6 / 45	D3	99	D3
	DQ4 / DQ11	8 / 43	D4	98	D4
	DQ5 / DQ10	9 / 42	D5	97	D5
	DQ6 / DQ9	11 / 40	D6	96	D6
	DQ7 / DQ8	12 / 39	D7	95	D7

15.3. Power Supply (SL-NE5)



SC-NE5EE(SL-NE5EE) POWER SUPPLY (1/2) BLOCK DIAGRAM

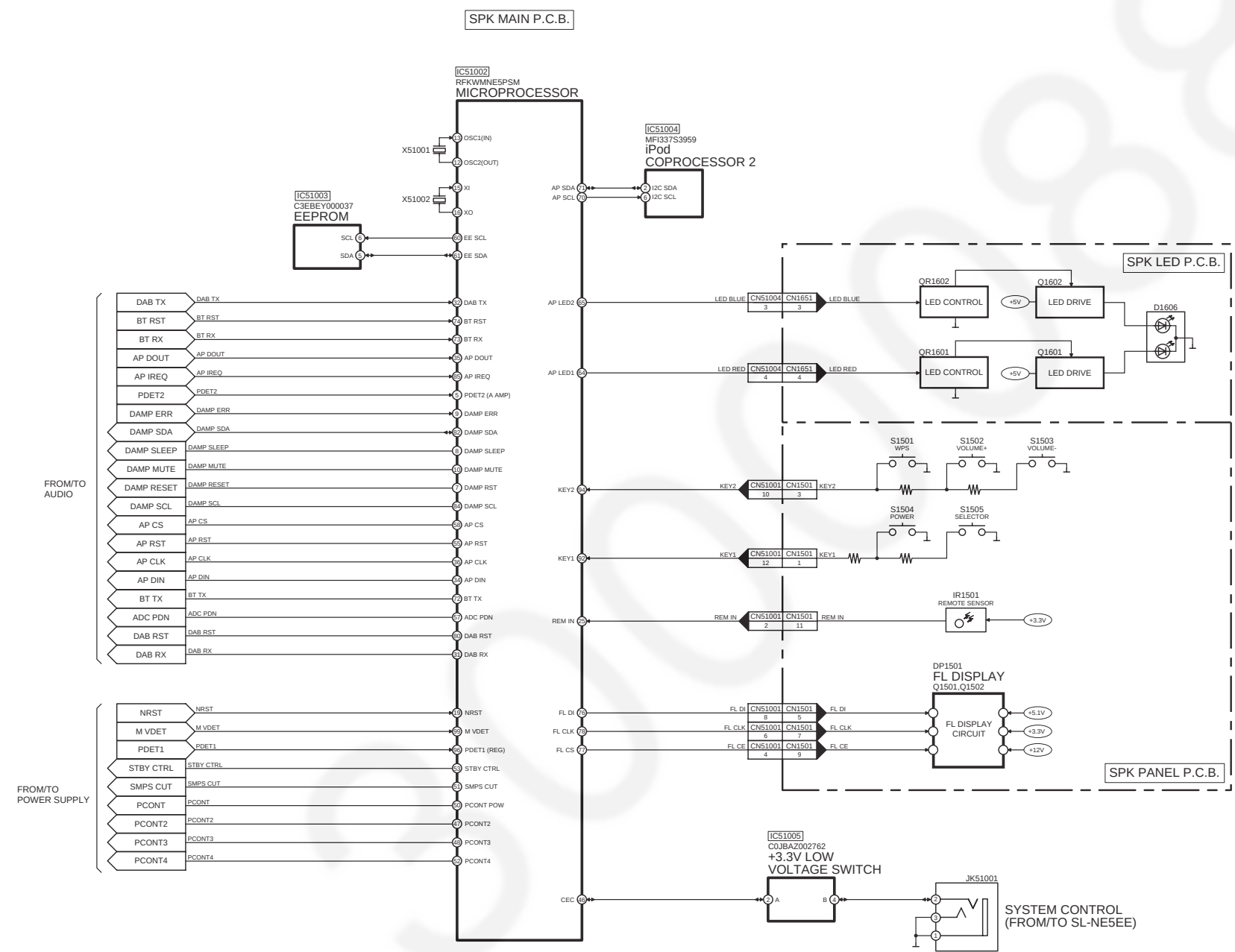
← TO POWER SUPPLY
BLOCK (1/2)



NOTE: “*” REF IS FOR INDICATION ONLY

SC-NE5EE(SL-NE5EE) POWER SUPPLY (2/2) BLOCK DIAGRAM

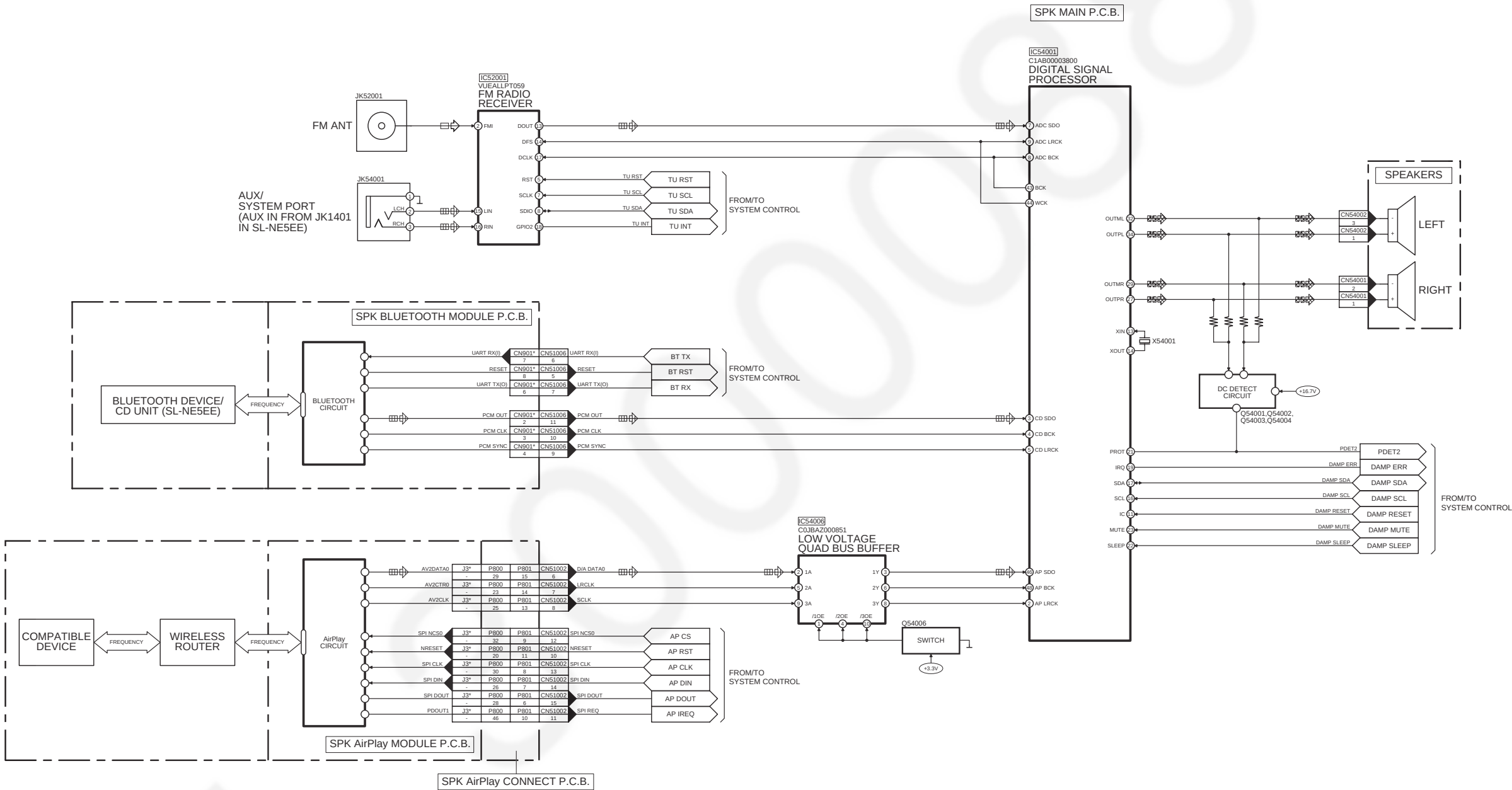
15.4. System Control (SB-NE5)



SC-NE5EE(SB-NE5EE) SYSTEM CONTROL BLOCK DIAGRAM

15.5. Audio (SB-NE5)

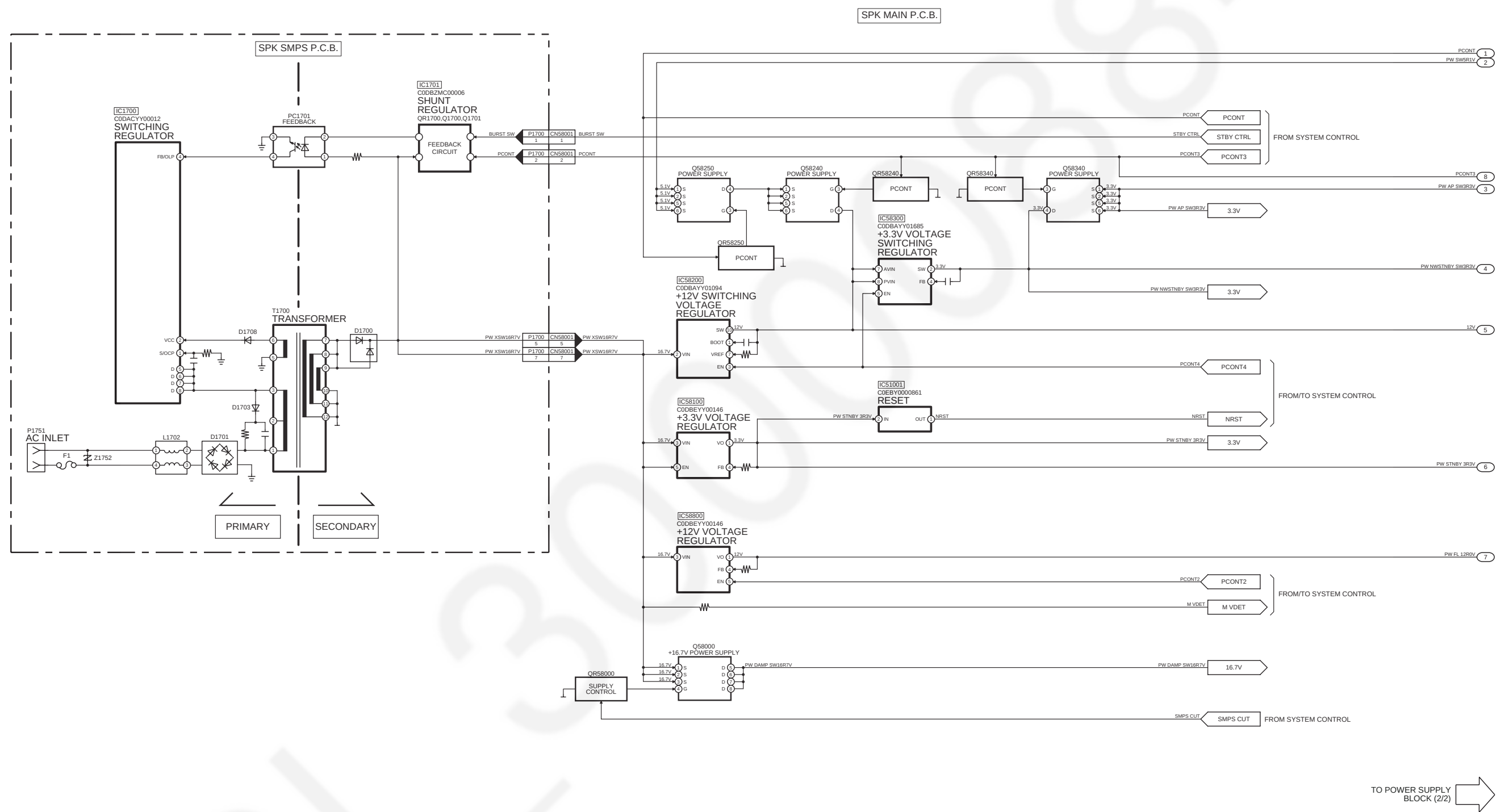
 : AUX/BLUETOOTH/AirPlay AUDIO INPUT SIGNAL LINE
  : AUDIO OUTPUT SIGNAL LINE
  : FM SIGNAL LINE



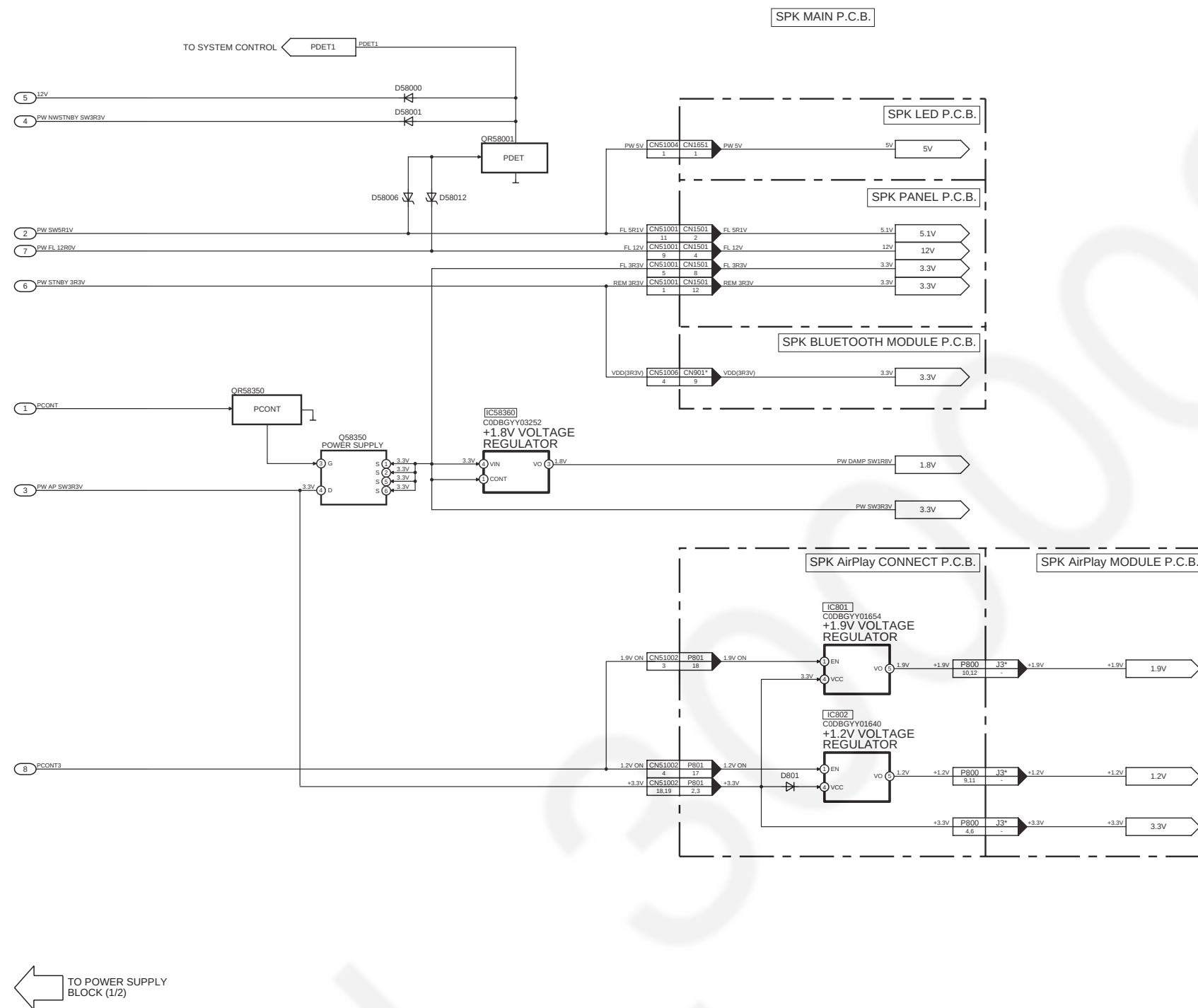
NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-NE5EE(SB-NE5EE) AUDIO BLOCK DIAGRAM

15.6. Power Supply (SB-NE5)



SC-NE5EE(SB-NE5EE) POWER SUPPLY (1/2) BLOCK DIAGRAM

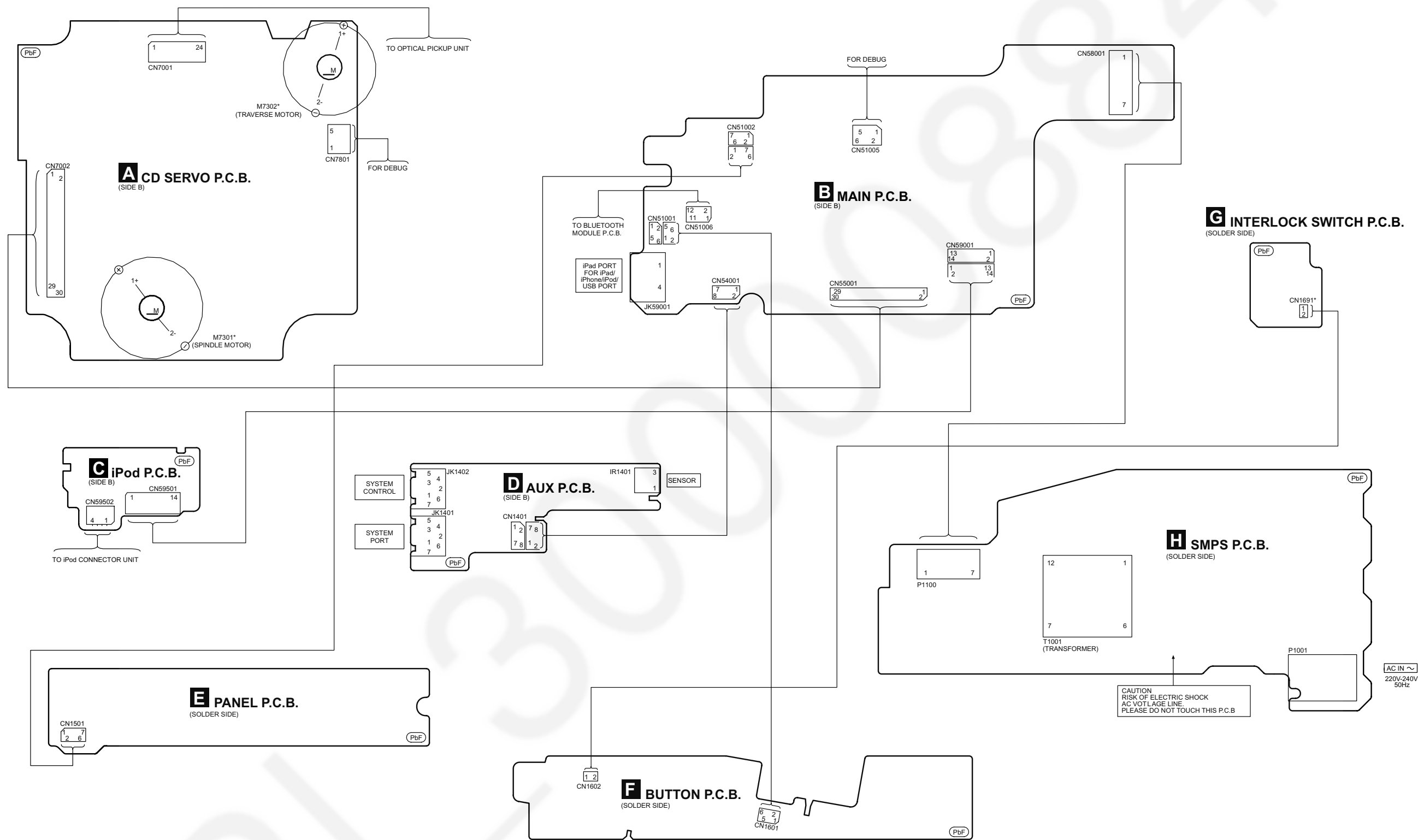


NOTE: “*” REF IS FOR INDICATION ONLY

SC-NE5EE(SB-NE5EE) POWER SUPPLY (2/2) BLOCK DIAGRAM

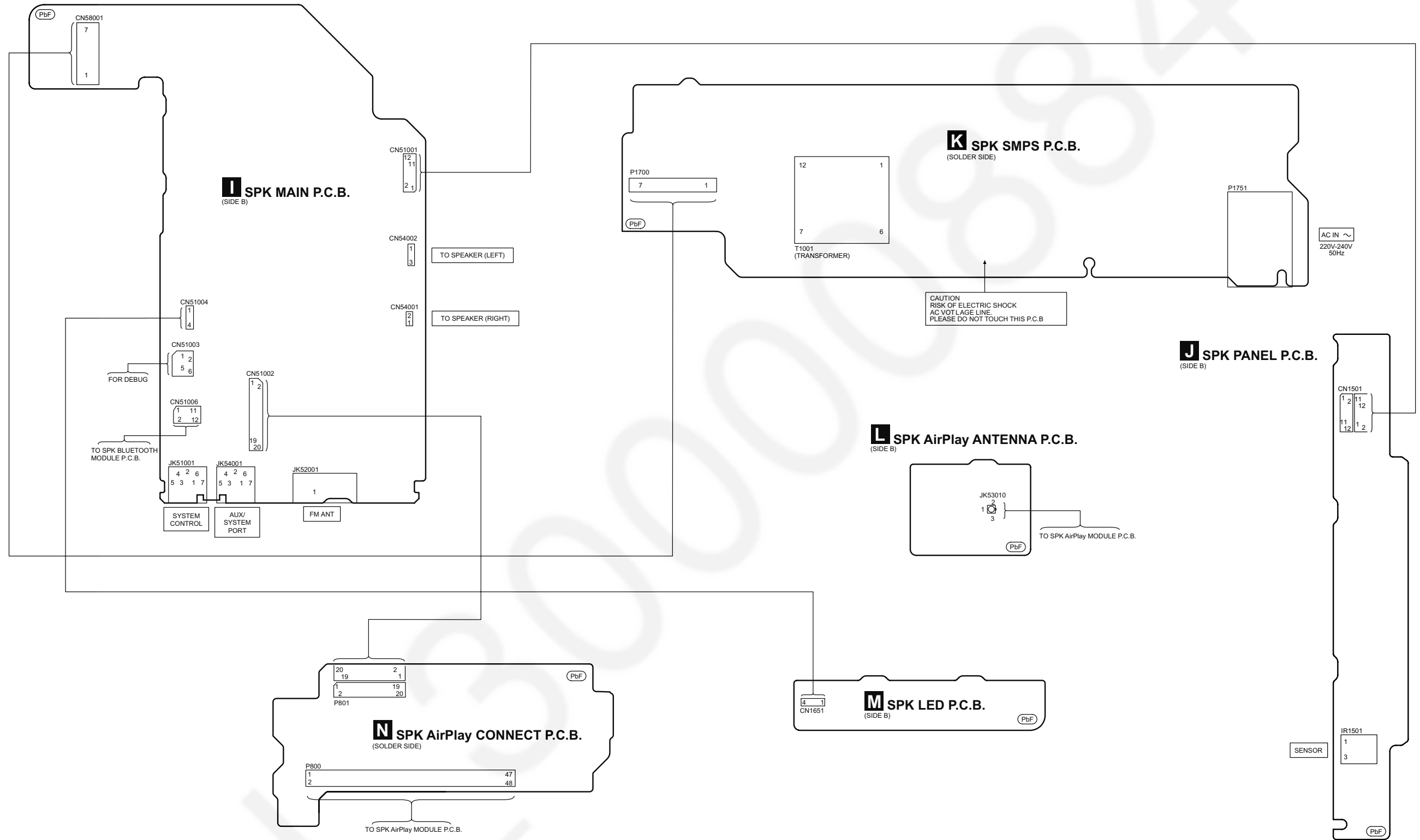
16 Wiring Connection Diagram

16.1. Main Unit (SL-NE5)



NOTE: " * " REF IS FOR INDICATION ONLY.

16.2. Speaker Unit (SB-NE5)



NOTE: " * " REF IS FOR INDICATION ONLY.

SC-NE5EE(SB-NE5EE) WIRING CONNECTION DIAGRAM

PI/30000884

17 Schematic Diagram

17.1. Schematic Diagram Notes

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

Notes (SL-NE5):

S1601:	POWER switch ().
S1602:	NETWORK SETUP switch.
S1603:	SELECTOR switch.
S1604:	STOP () switch.
S1608:	VOLUME (+) switch.
S1609:	VOLUME (-) switch.
S1610:	FORWARD switch.
S1611:	REVERSE switch.
S1691:	INTERLOCK switch.
S7201:	RESET switch.
S10612:	PLAY/PAUSE switch.
S59501:	iPod switch.

Notes (SB-NE5):

S1501:	WPS switch.
S1502:	VOLUME (+) switch.
S1503:	VOLUME (-) switch.
S1504:	POWER switch ().
S1505:	SELECTOR 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.

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

AC rated voltage capacitors (SL-NE5):

C1001, C1003, C1005, C1006, C1018

AC rated voltage capacitors (SB-NE5):

C1702, C1710, C1725, C1727, C1728

• 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
	: USB/iPod/iPhone/iPad Signal Line
	: Audio Output Signal Line
	: AUX/Bluetooth Audio Input Signal Line
	: FM Signal Line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T2A, 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



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

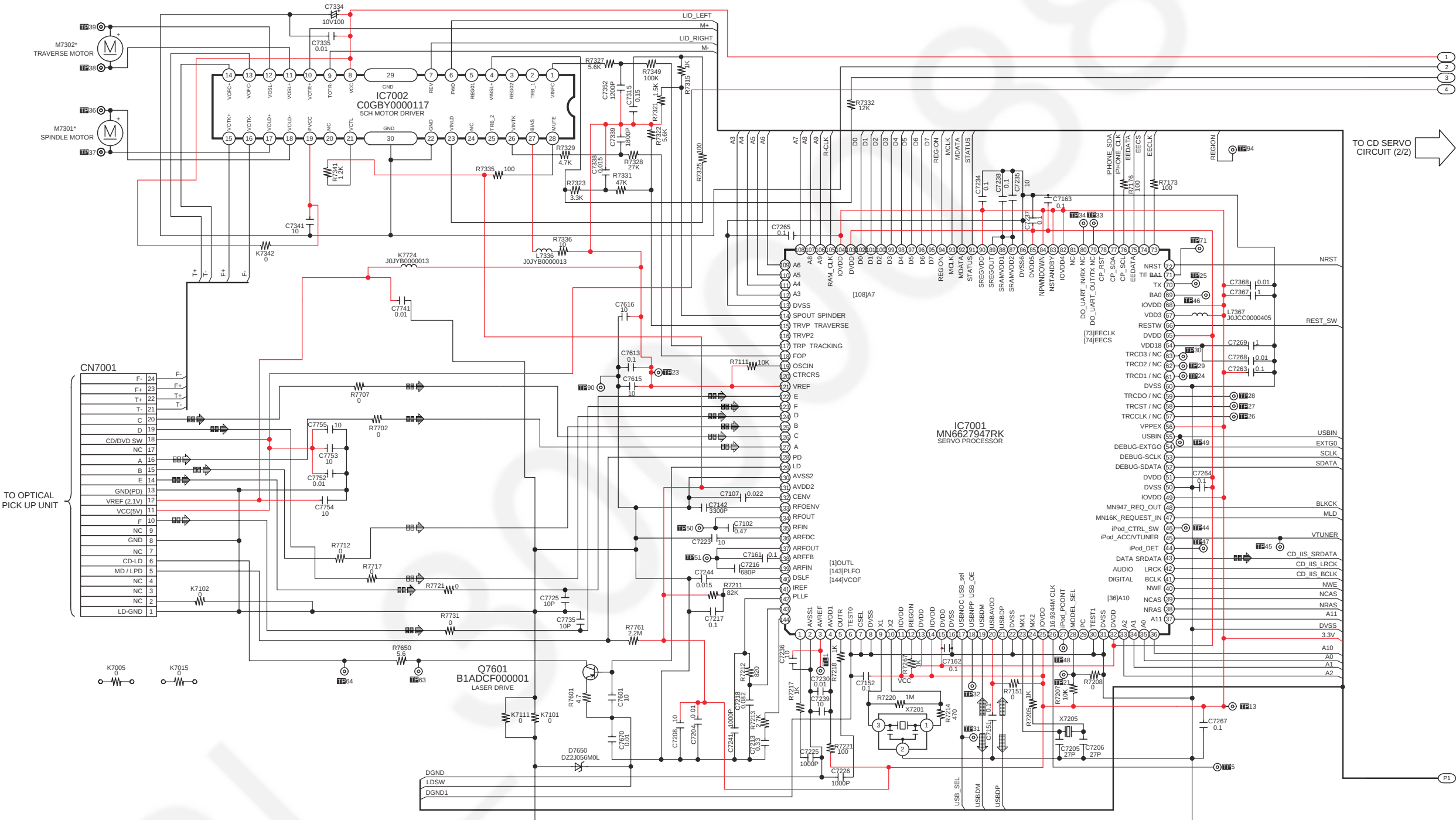
PI-30000884

17.2. CD Servo Circuit (SL-NE5)

SCHEMATIC DIAGRAM - 1

A CD SERVO CIRCUIT

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



NOTE: " * " REF IS FOR INDICATION ONLY

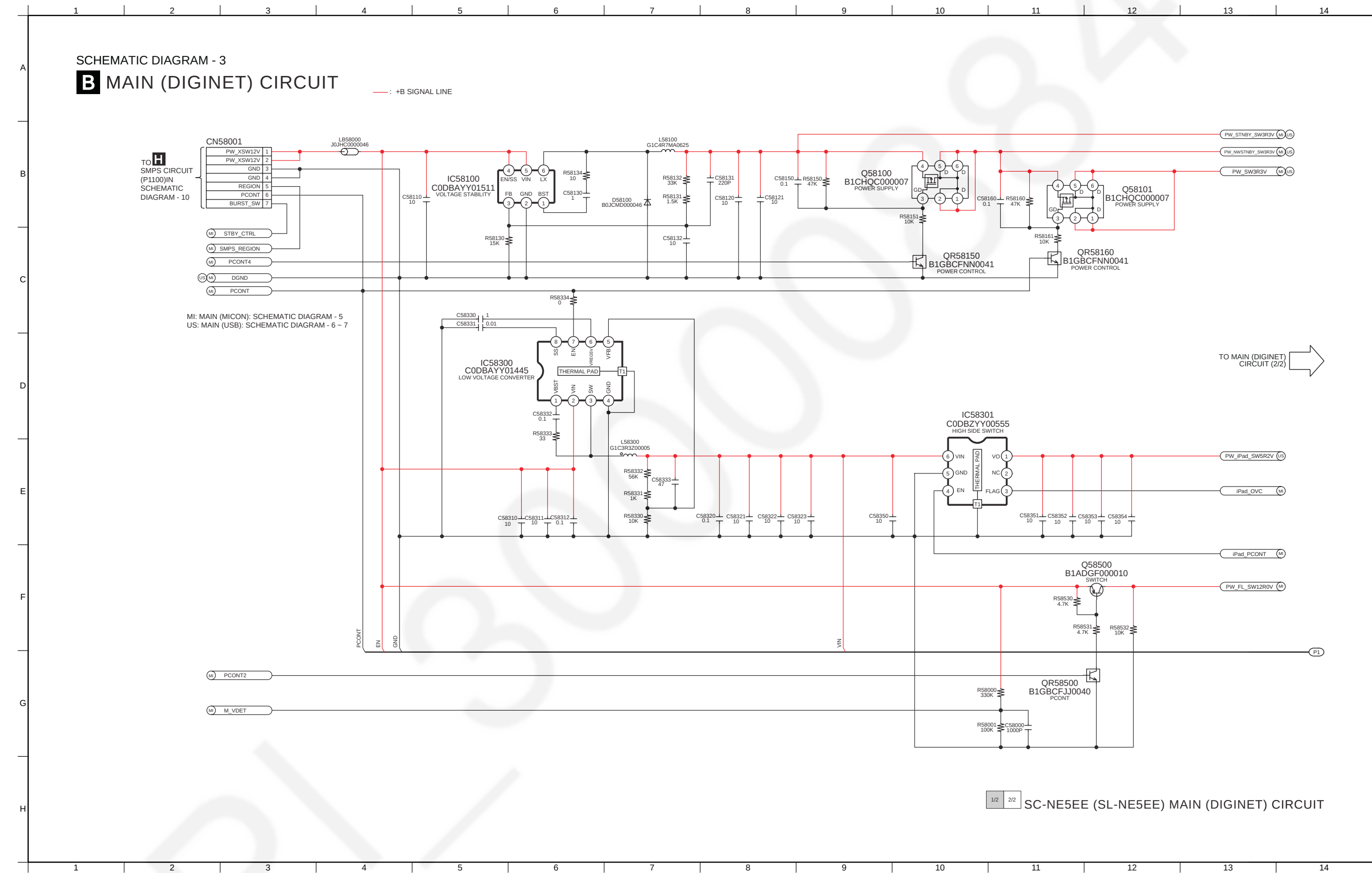
1/2 2/2 SC-NE5EE (SL-NE5EE) CD SERVO CIRCUIT

A CD SERVO CIRCUIT

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



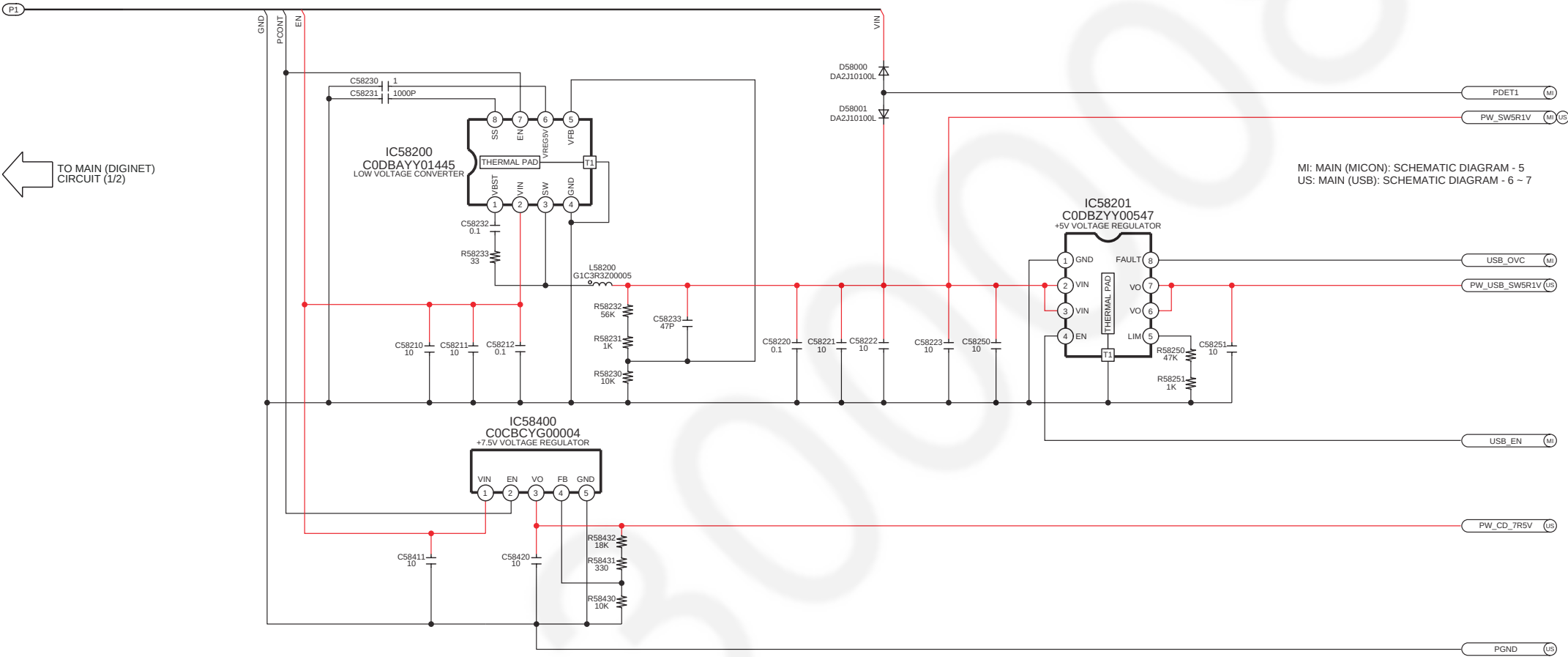
17.3. Main (Diginet/Micon/USB) Circuit (SL-NE5)



SCHEMATIC DIAGRAM - 4

B MAIN (DIGINET) CIRCUIT

— : +B SIGNAL LINE



B MAIN (MICON) CIRCUIT

FOR DEBUG

TO F BUTTON CIRCUIT (CN1601) IN SCHEMATIC DIAGRAM - 9

TO E PANEL CIRCUIT (CN1601) IN SCHEMATIC DIAGRAM - 8

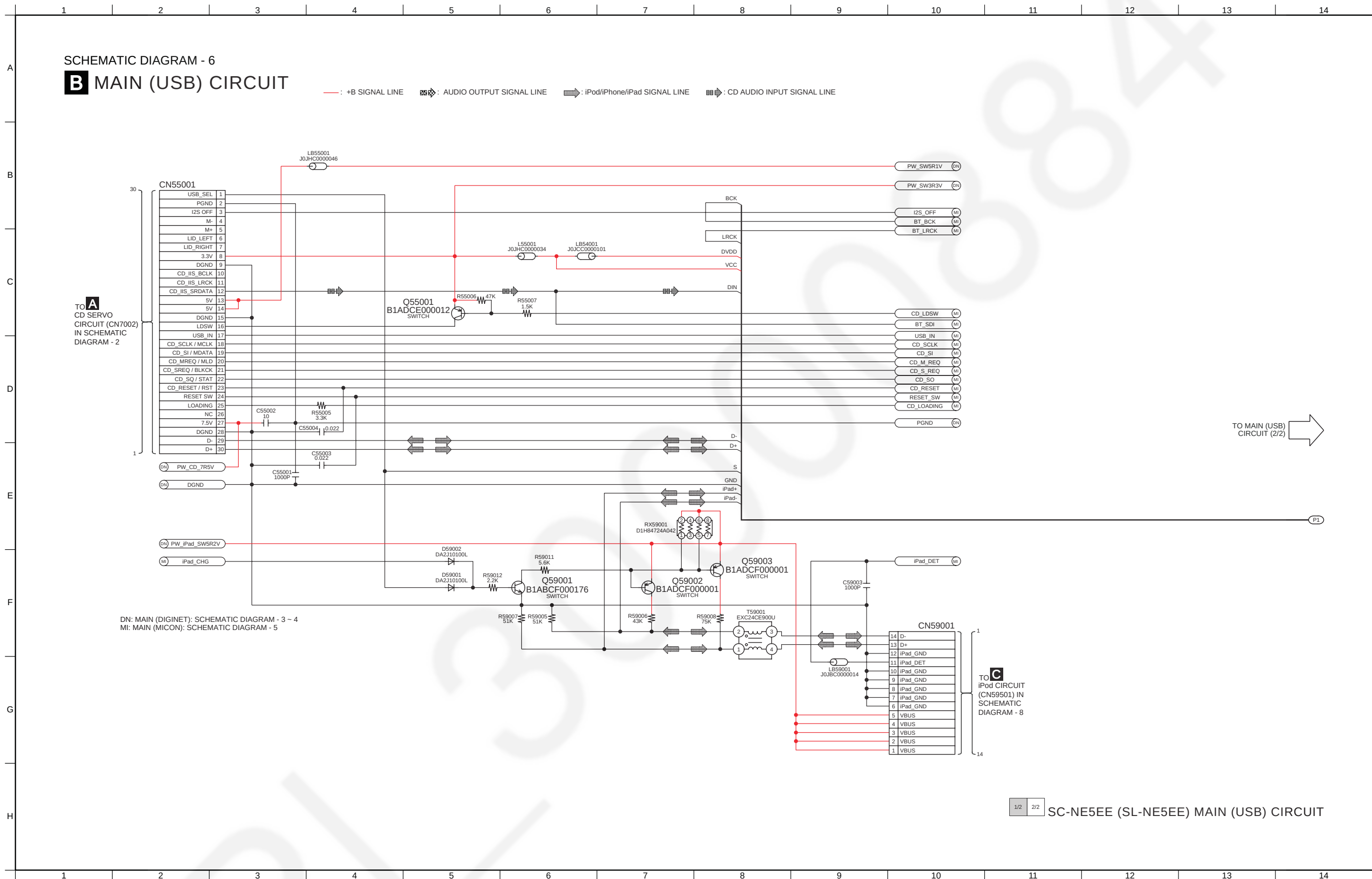
TO BLUETOOTH MODULE P.C.B.

DN: MAIN (DIGITAL): SCHEMATIC DIAGRAM - 3 ~ 4
US: MAIN (USB): SCHEMATIC DIAGRAM - 6 ~ 7

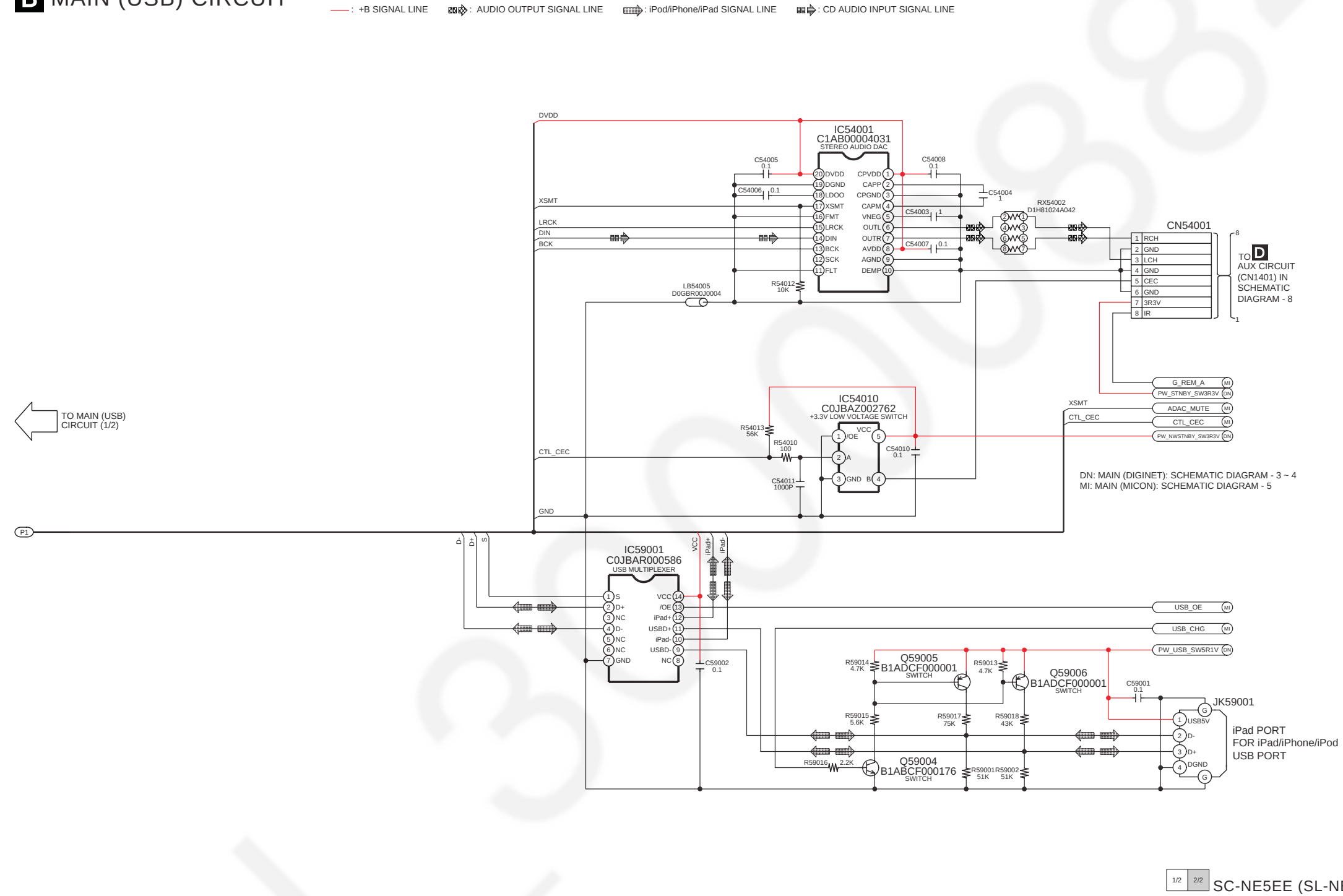
PCONT (DN)
iPad_PCONT (DN)
CD_LDSW (US)
PCONT2 (US)
CTL_CEC (US)
iPad_DET (US)
PW_SW3R3V (DN)
iPad_OVC (DN)

PN5555 (S1 N5555) MAIN (NMCN) CIRCUIT

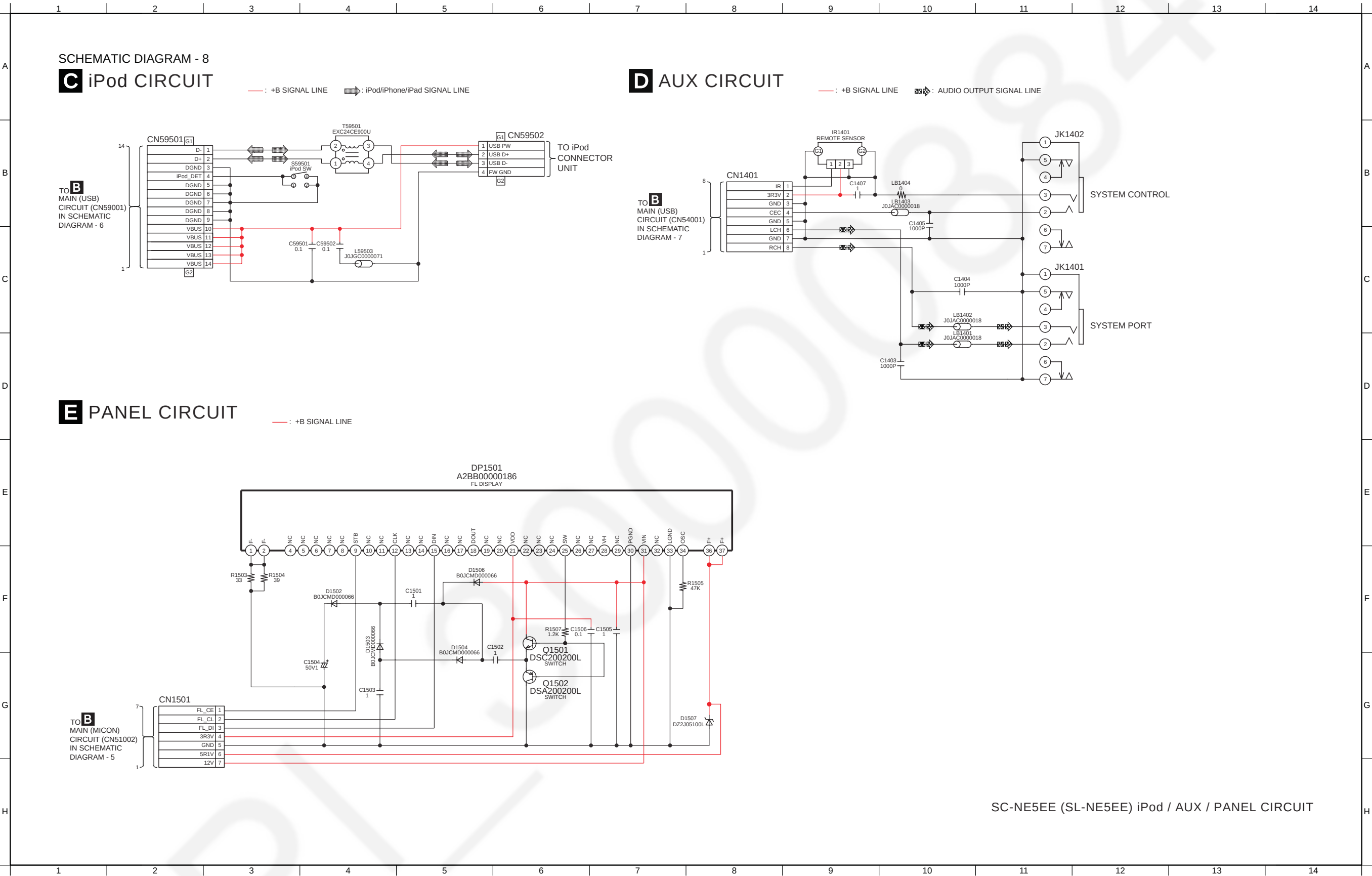
SC-NE5EE (SL-NE5EE) MAIN (MICON) CIRCUIT



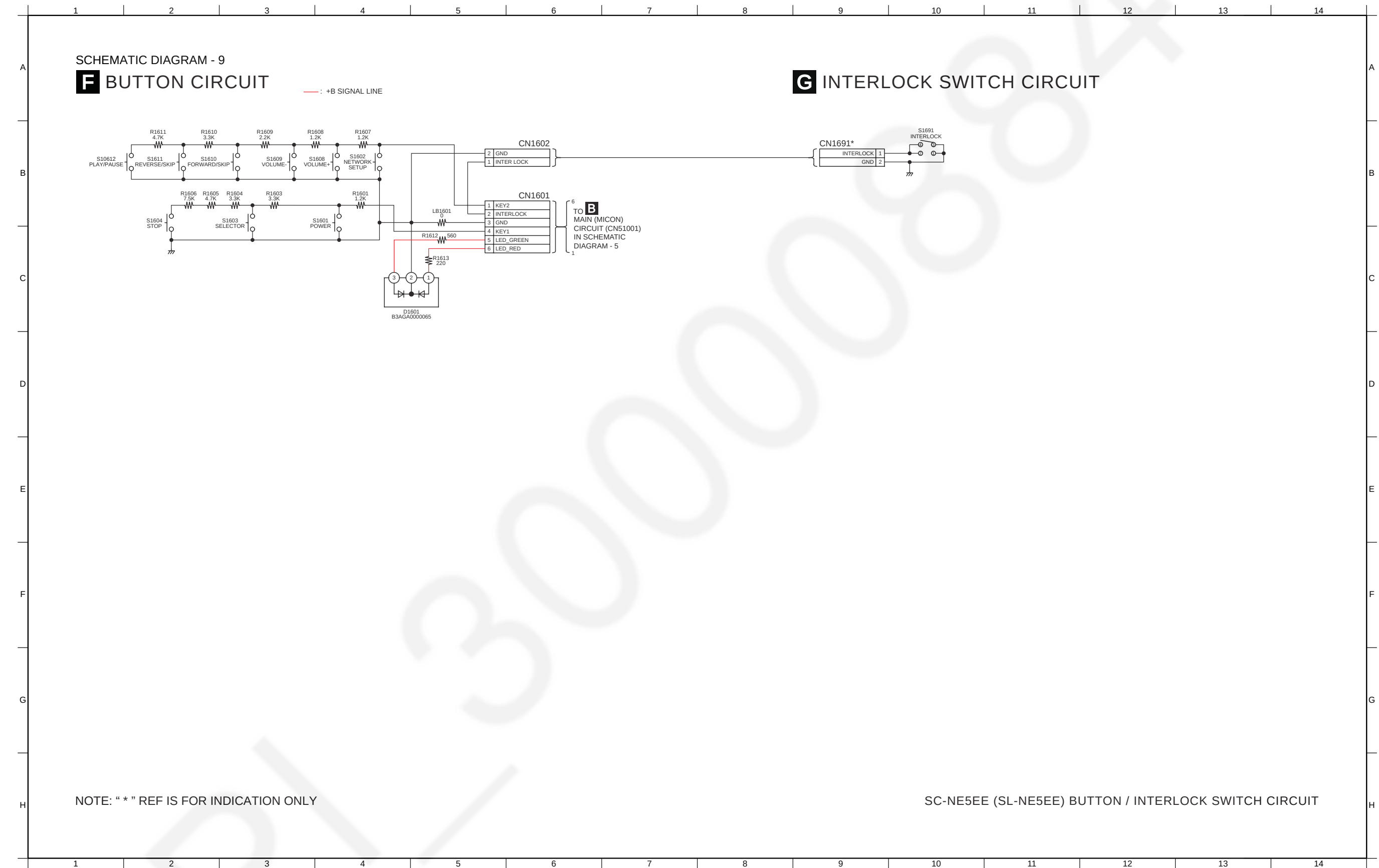
B MAIN (USB) CIRCUIT



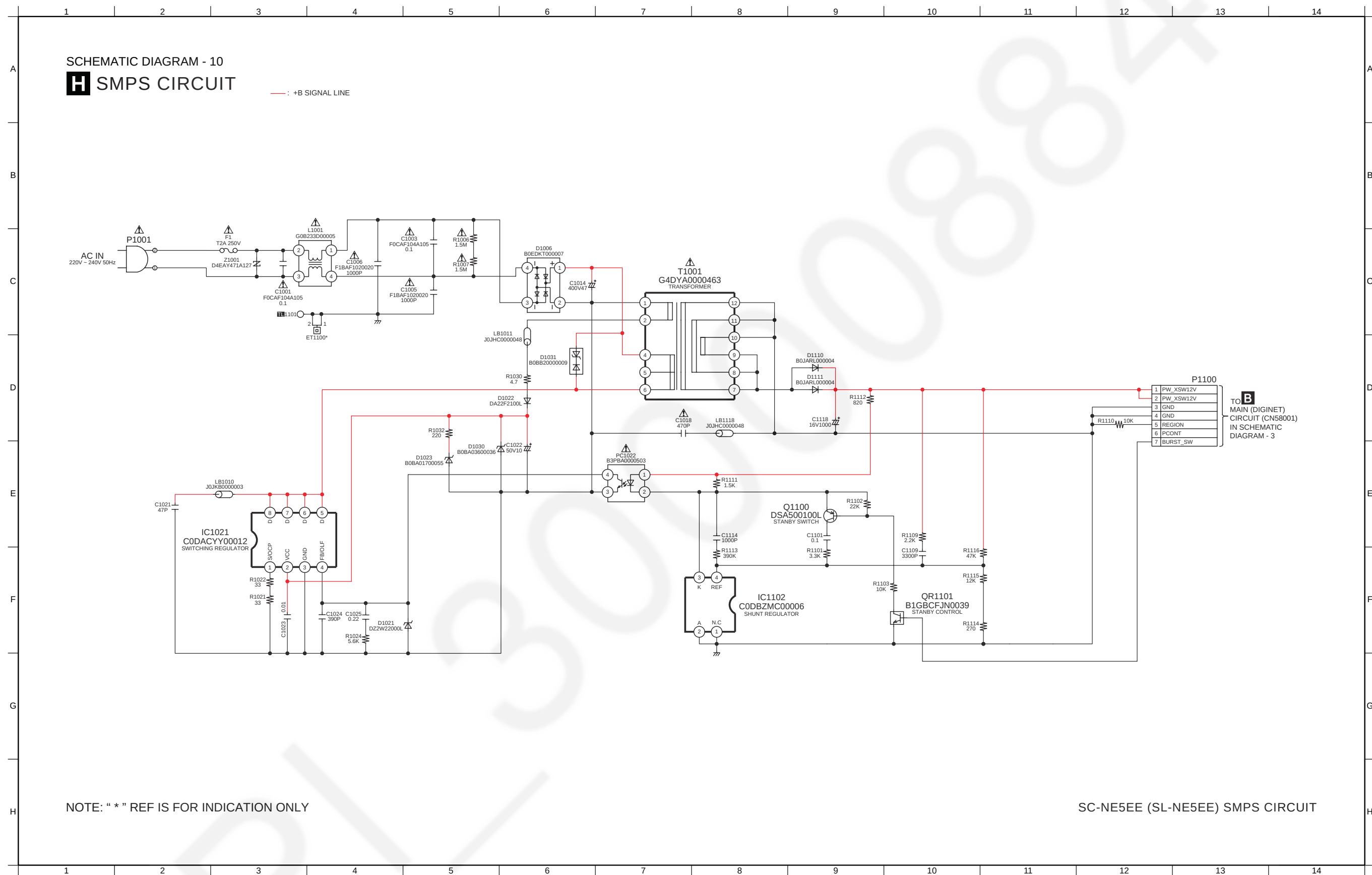
17.4. iPod, AUX and Panel Circuit (SL-NE5)



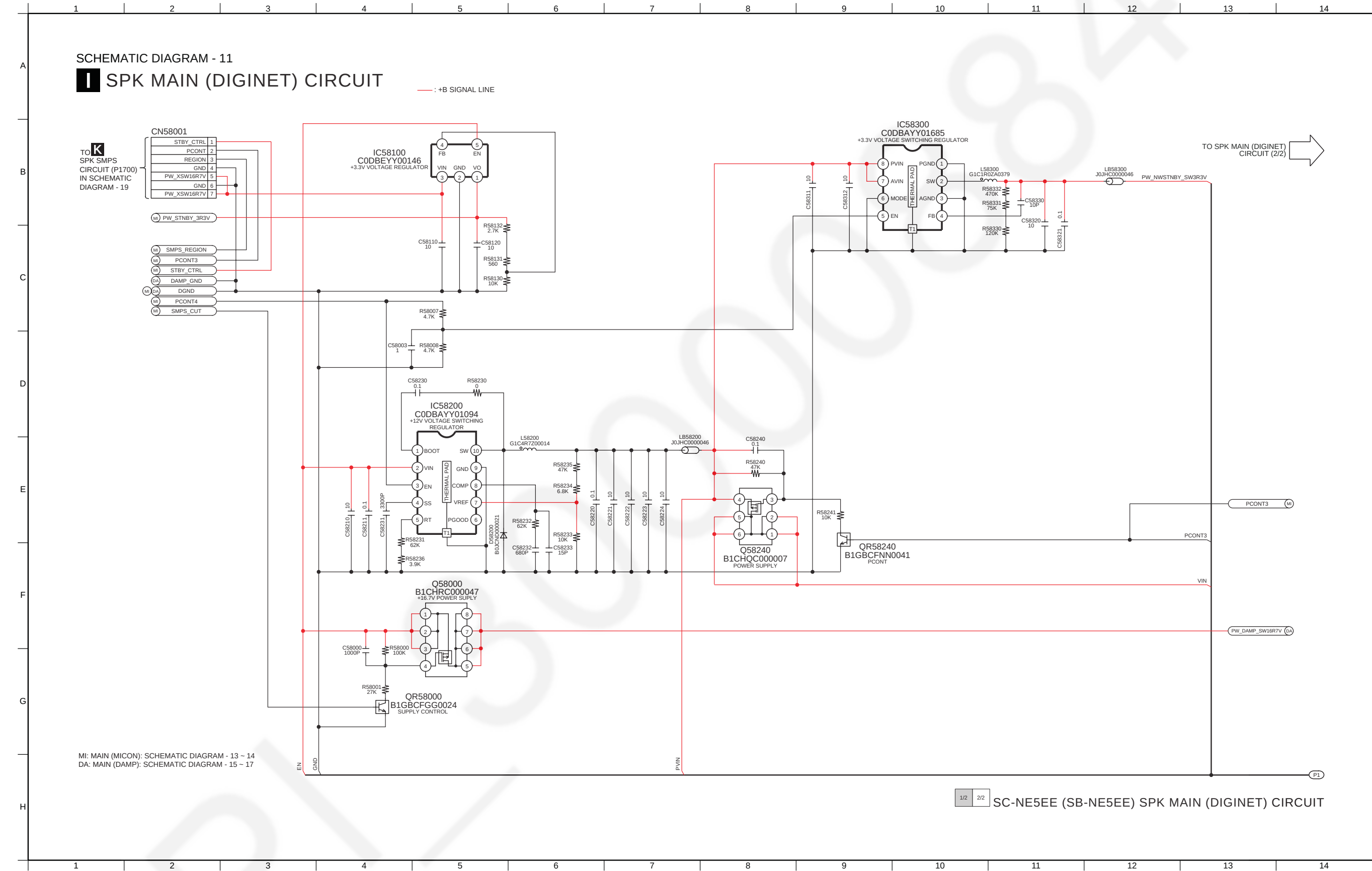
17.5. Button and Interlock Switch Circuit (SL-NE5)



17.6. SMPS Circuit (SL-NE5)



17.7. SPK Main (Diginet/Micon/Damp) Circuit (SB-NE5)

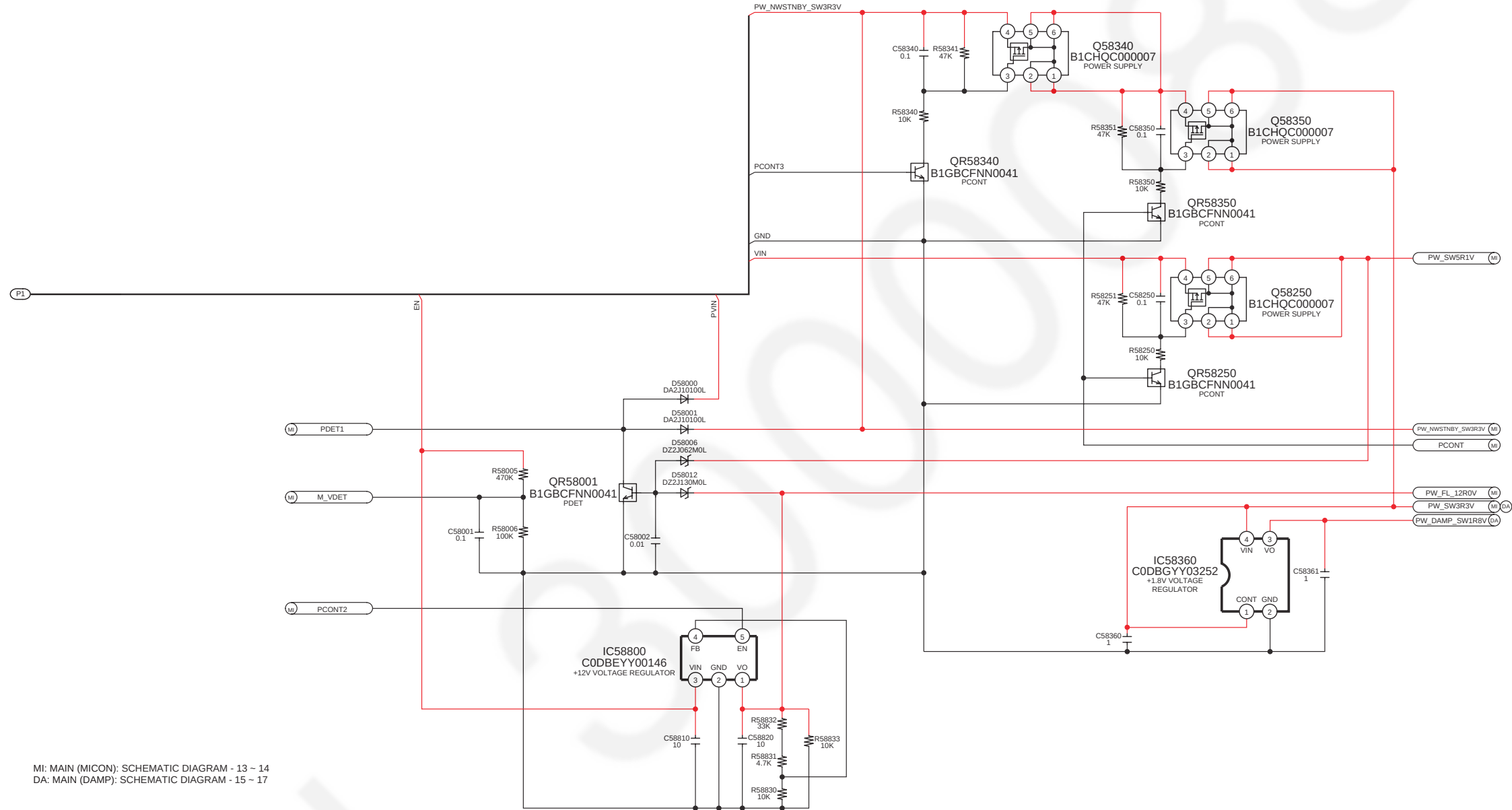


SCHEMATIC DIAGRAM - 12

I SPK MAIN (DIGINET) CIRCUIT

— : +B SIGNAL LINE

← TO SPK MAIN (DIGINET)
CIRCUIT (1/2)



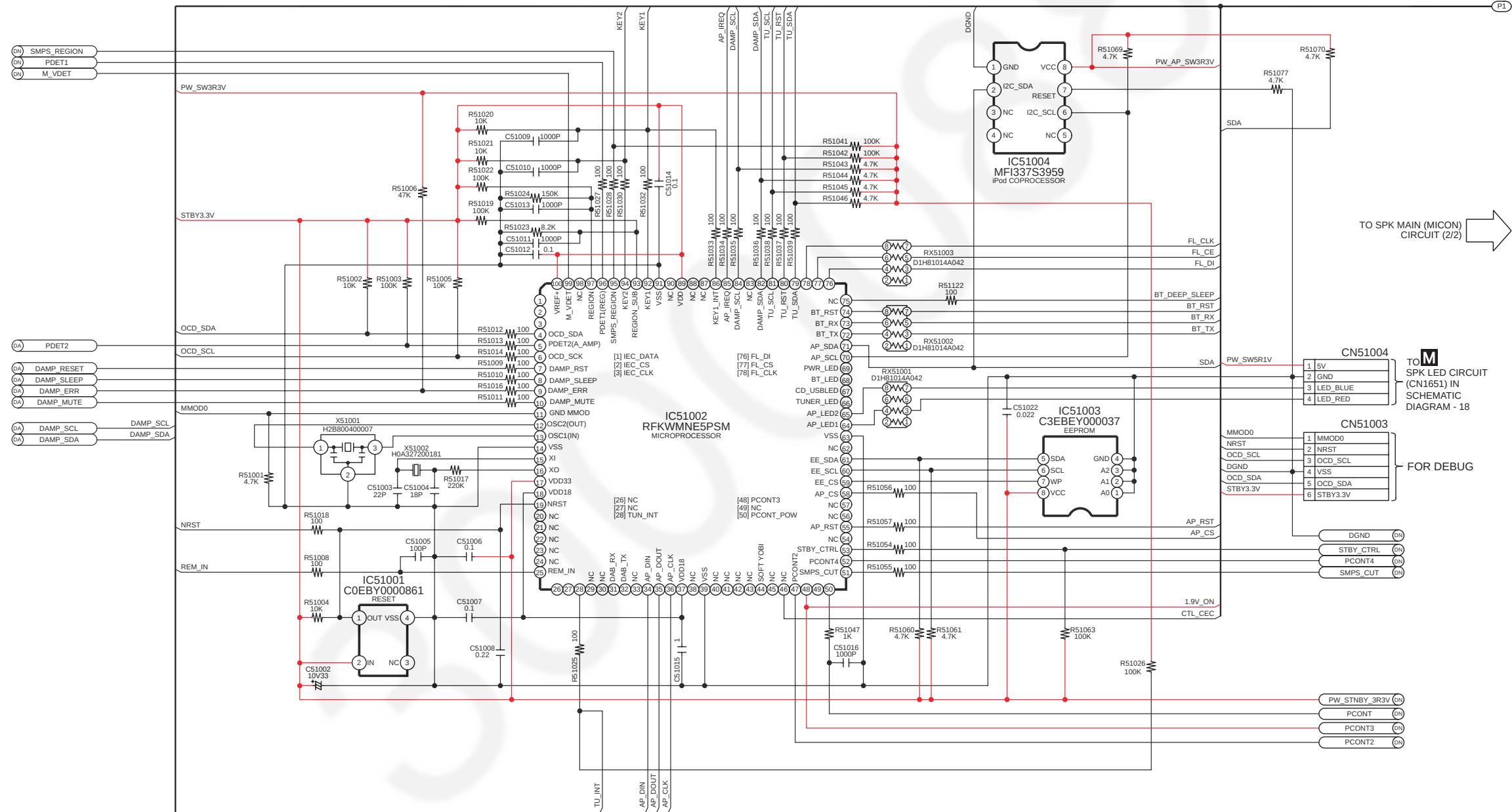
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 13 ~ 14
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 15 ~ 17

1/2 2/2 SC-NE5EE (SB-NE5EE) SPK MAIN (DIGINET) CIRCUIT

SCHEMATIC DIAGRAM - 13

1 SPK MAIN (MICON) CIRCUIT

— : +B SIGNAL LINE  : BLUETOOTH AUDIO INPUT SIGNAL LINE



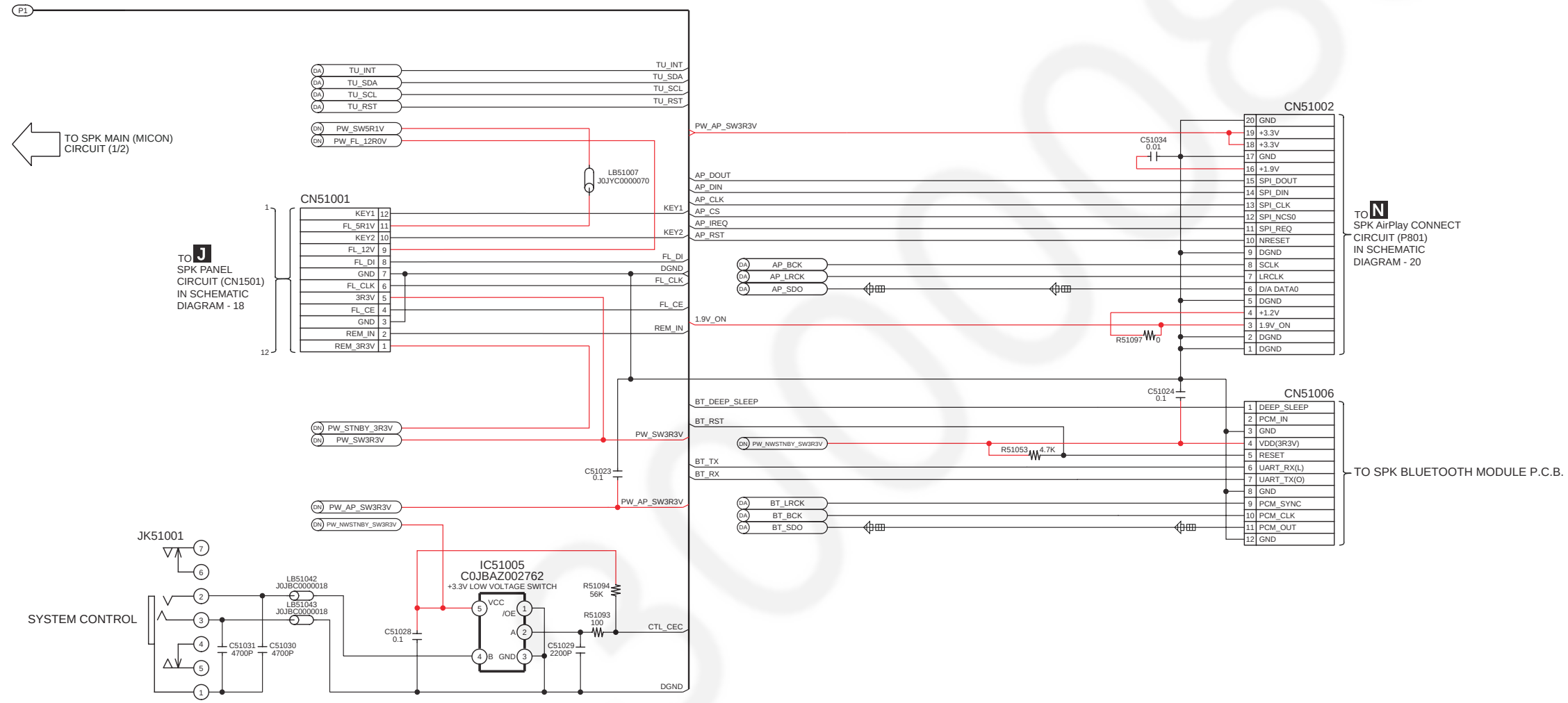
DN: MAIN (DIGINET): SCHEMATIC DIAGRAM - 11 ~ 12
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 15 ~ 17

1/2 2/2 SC-NE5EE (SB-NE5EE) SPK MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 14

I SPK MAIN (MICON) CIRCUIT

— : +B SIGNAL LINE  : BLUETOOTH AUDIO INPUT SIGNAL LINE



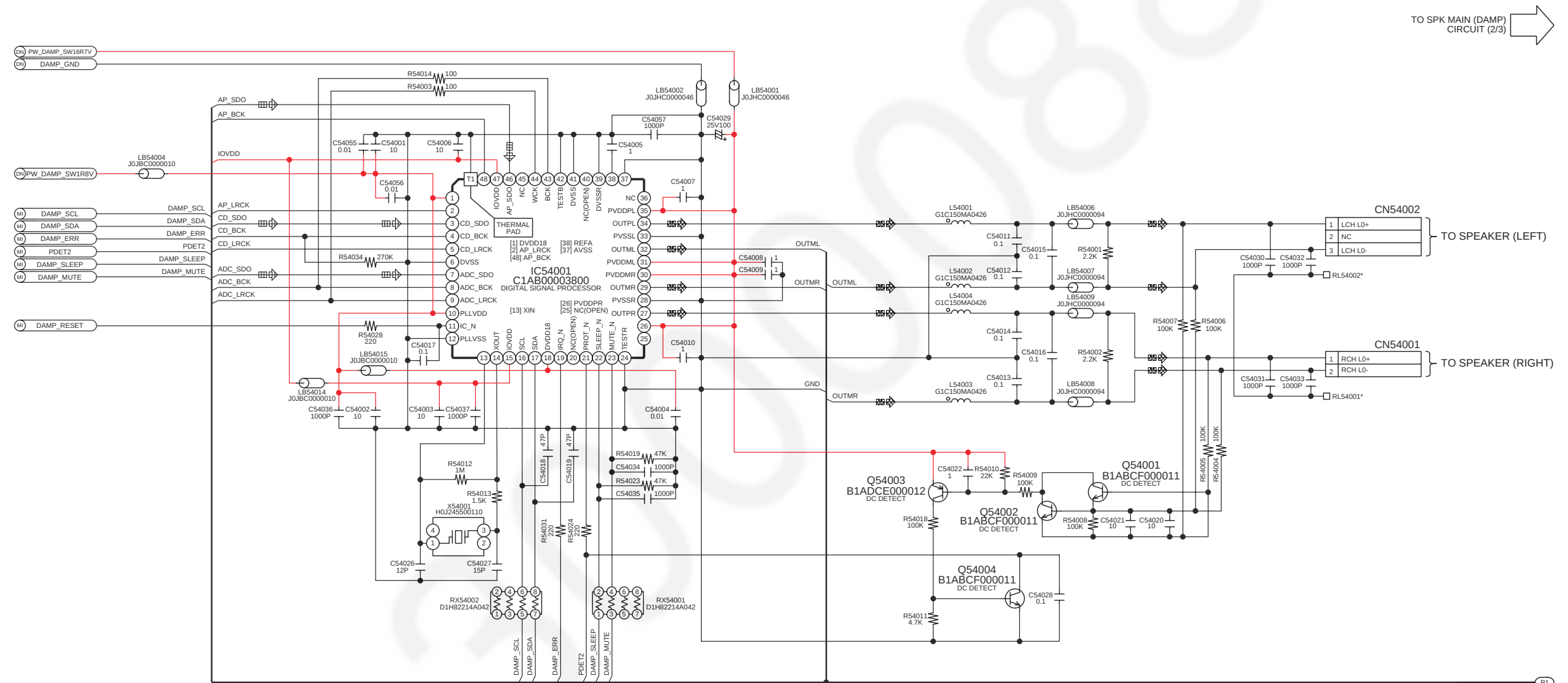
DN: MAIN (DIGINET): SCHEMATIC DIAGRAM - 11 ~ 12
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 15 ~ 17

1/2 2/2 SC-NE5EE (SB-NE5EE) SPK MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 15

I SPK MAIN (DAMP) CIRCUIT

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



DN: MAIN (DIGINET): SCHEMATIC DIAGRAM - 11 ~ 12
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 13 ~ 14

NOTE: " * " REF IS FOR INDICATION ONLY

1/3 2/3 3/3 SC-NE5EE (SB-NE5EE) SPK MAIN (DAMP) CIRCUIT

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



1/3

2/3

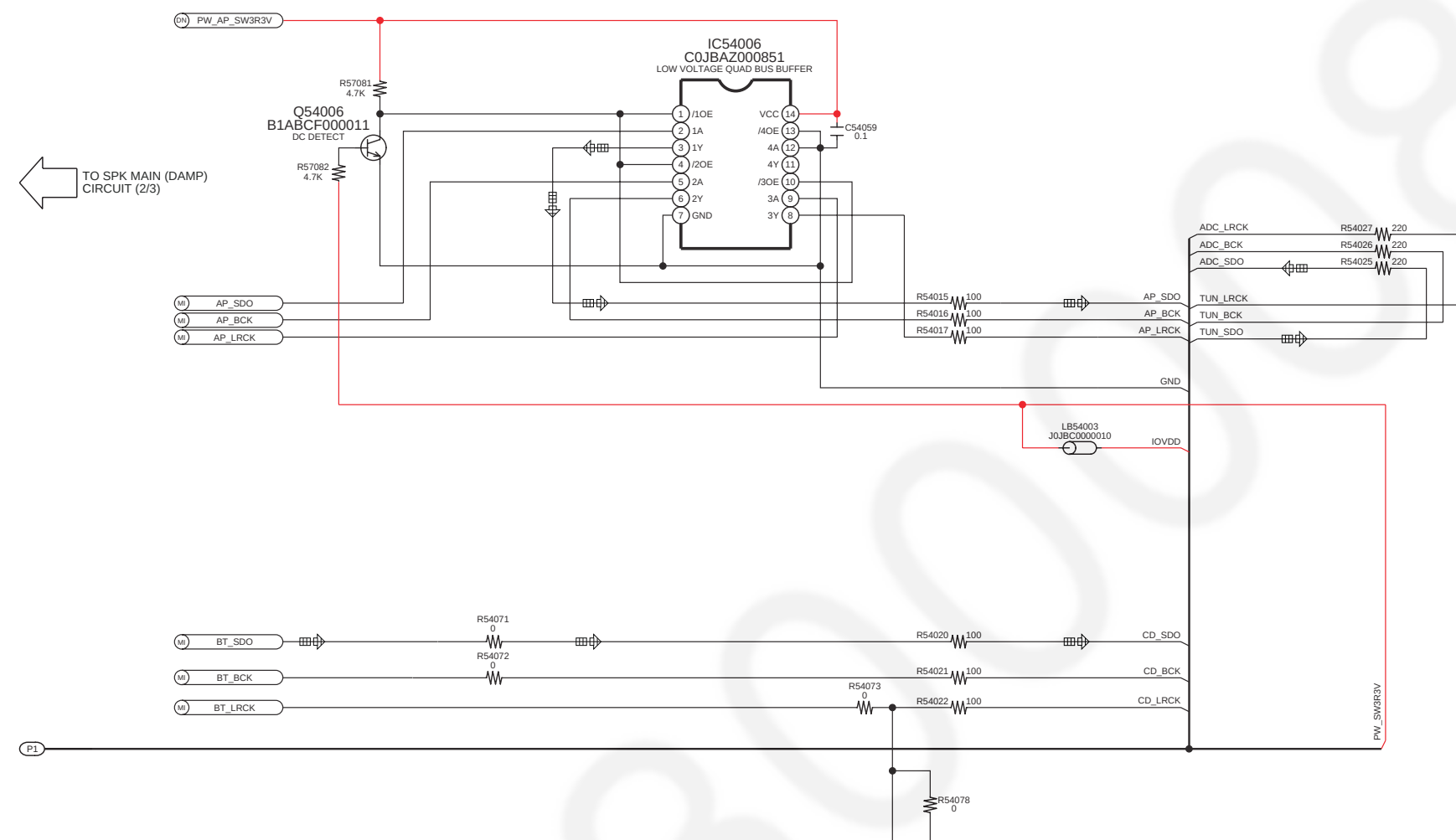
3/3

SC-NE5EE (SB-NE5EE) SPK MAIN (DAMP) CIRCUIT

SCHEMATIC DIAGRAM - 17

I SPK MAIN (DAMP) CIRCUIT

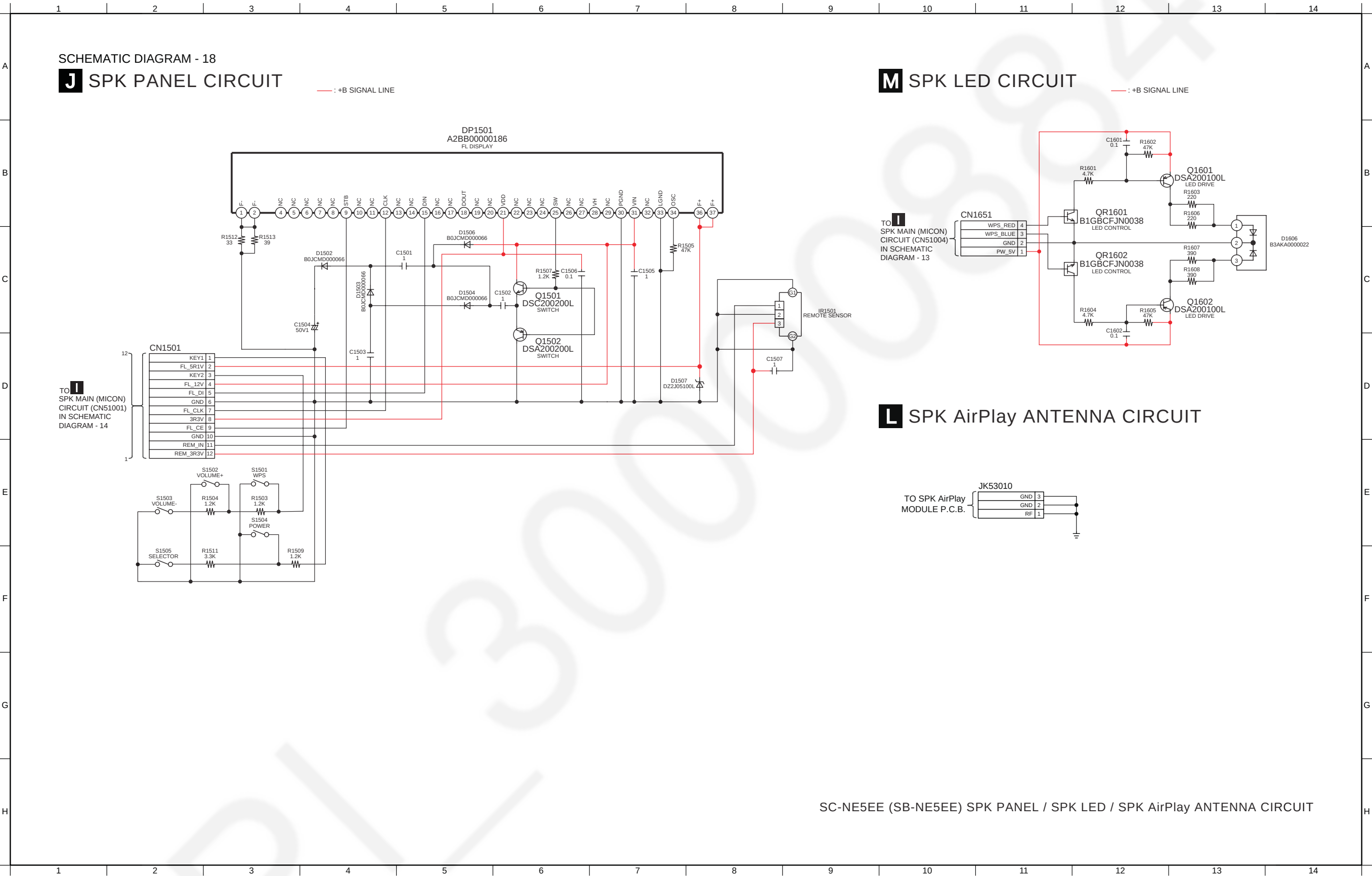
— : +B SIGNAL LINE  : AUX AUDIO INPUT SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE  : FM SIGNAL LINE



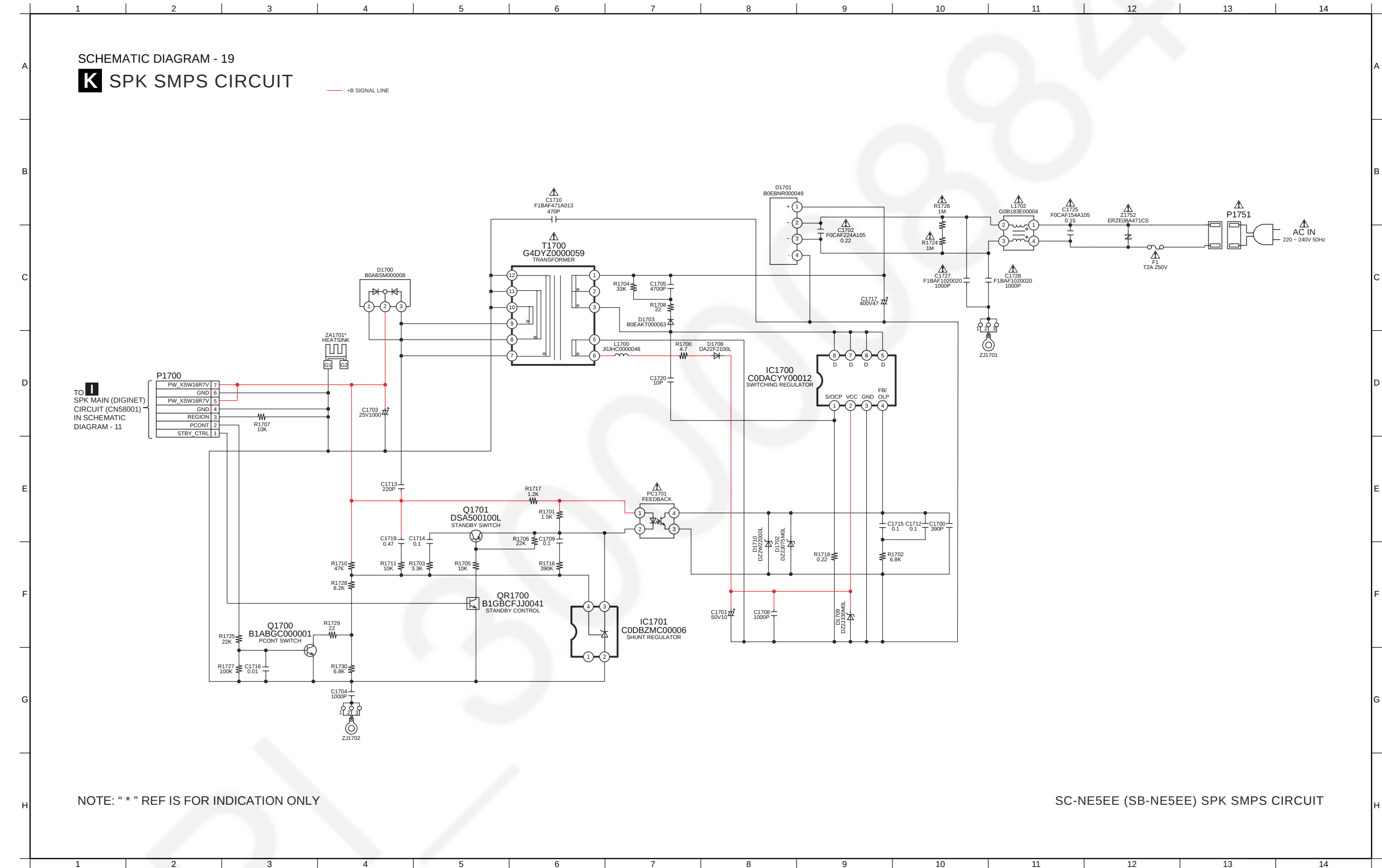
DN: MAIN (DIGINET): SCHEMATIC DIAGRAM - 11 ~ 12
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 13 ~ 14

1/3 2/3 3/3 SC-NE5EE (SB-NE5EE) SPK MAIN (DAMP) CIRCUIT

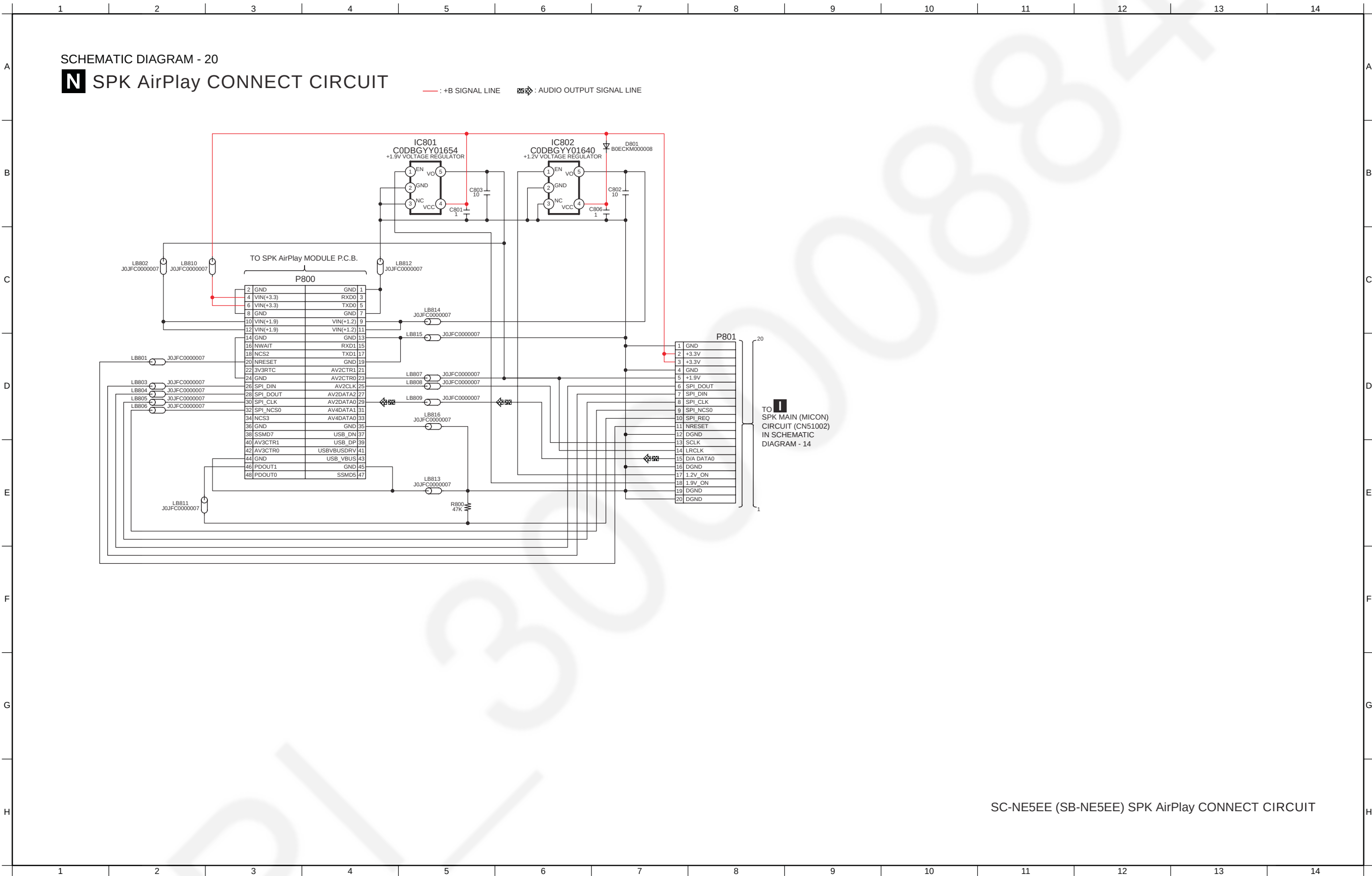
17.8. SPK Panel, SPK AirPlay Antenna and SPK LED Circuit (SB-NE5)



17.9. SPK SMPS Circuit (SB-NE5)



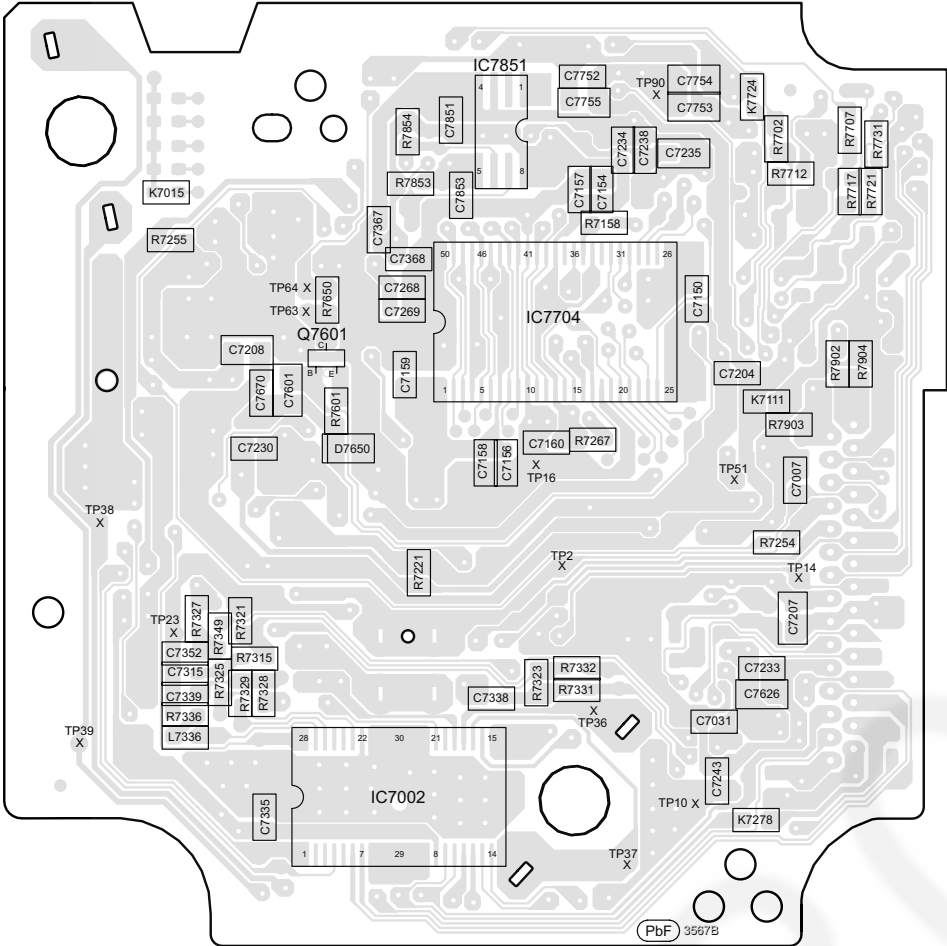
17.10. SPK AirPlay Connect Circuit (SB-NE5)



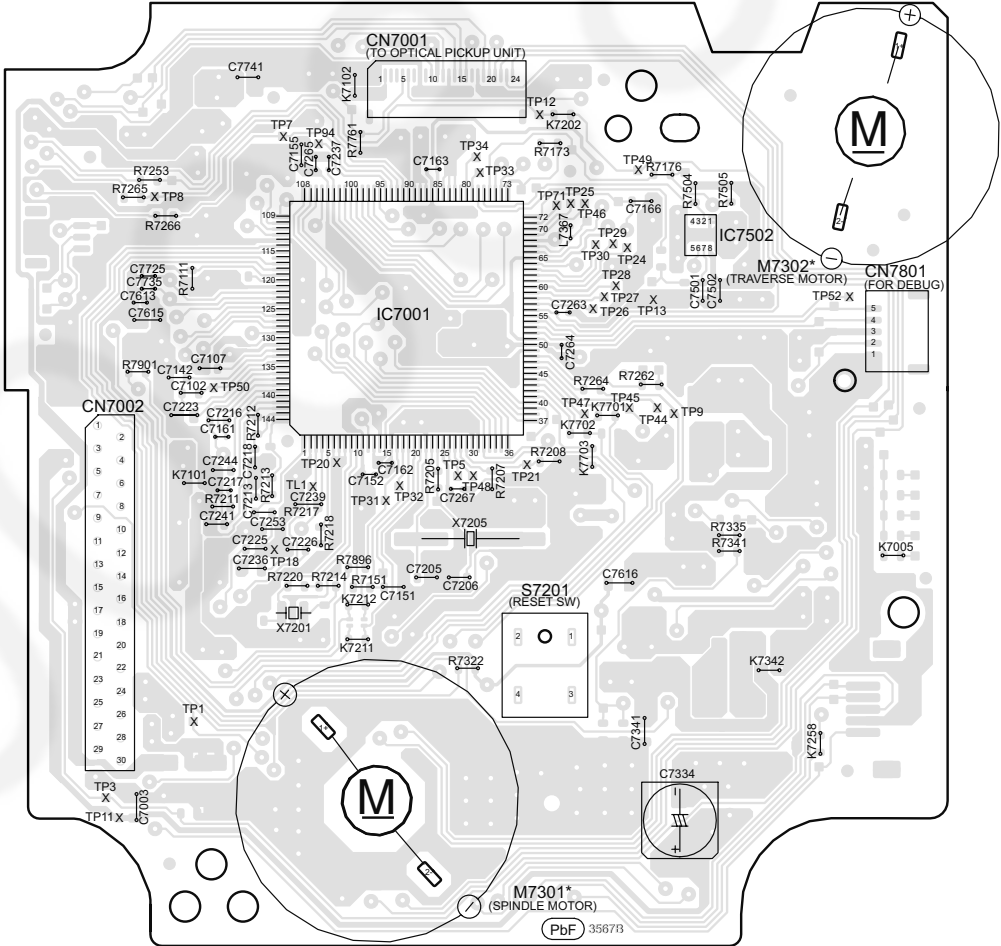
18 Printed Circuit Board

18.1. CD Servo P.C.B. (SL-NE5)

A CD SERVO P.C.B. (REP4781K)



(SIDE A)



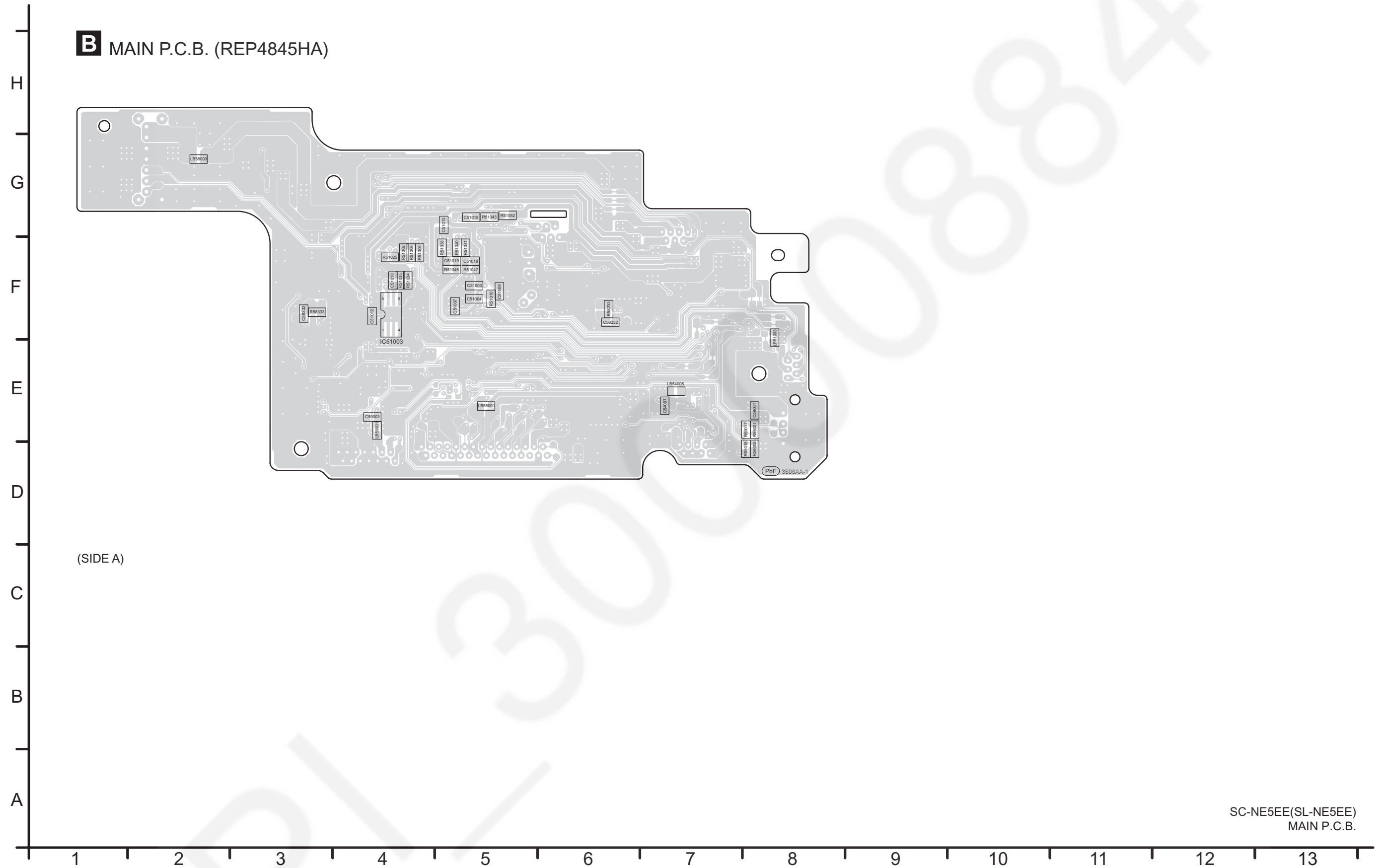
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY

SC-NE5EE(SL-NE5EE)
CD SERVO P.C.B.

18.2. Main P.C.B. (SL-NE5)

B MAIN P.C.B. (REP4845HA)

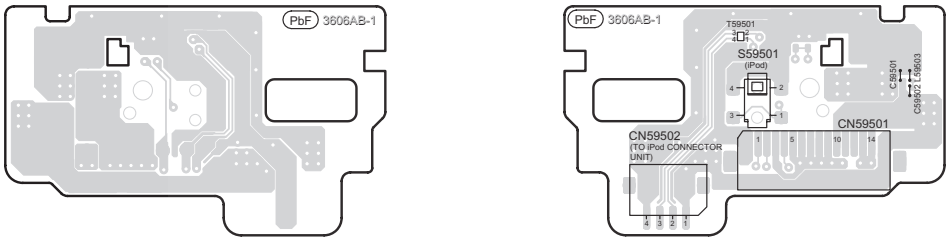


A vertical scale with labels A, B, C, D, E, F, G, and H from bottom to top.



18.3. iPod, AUX and Panel P.C.B. (SL-NE5)

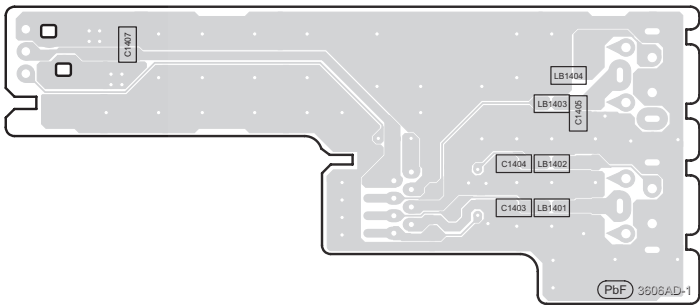
C iPod P.C.B. (REP4845HB)



(SIDE A)

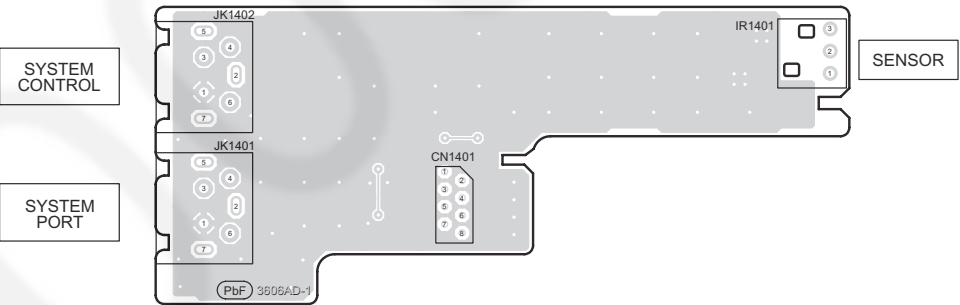
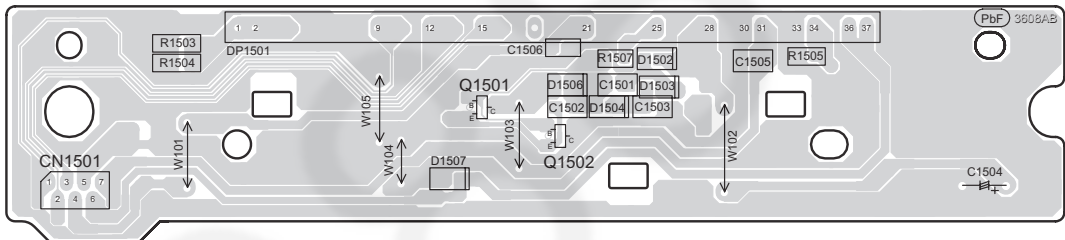
(SIDE B)

D AUX P.C.B. (REP4845HD)



(SIDE A)

E PANEL P.C.B. (REP4847CB)



(SIDE B)

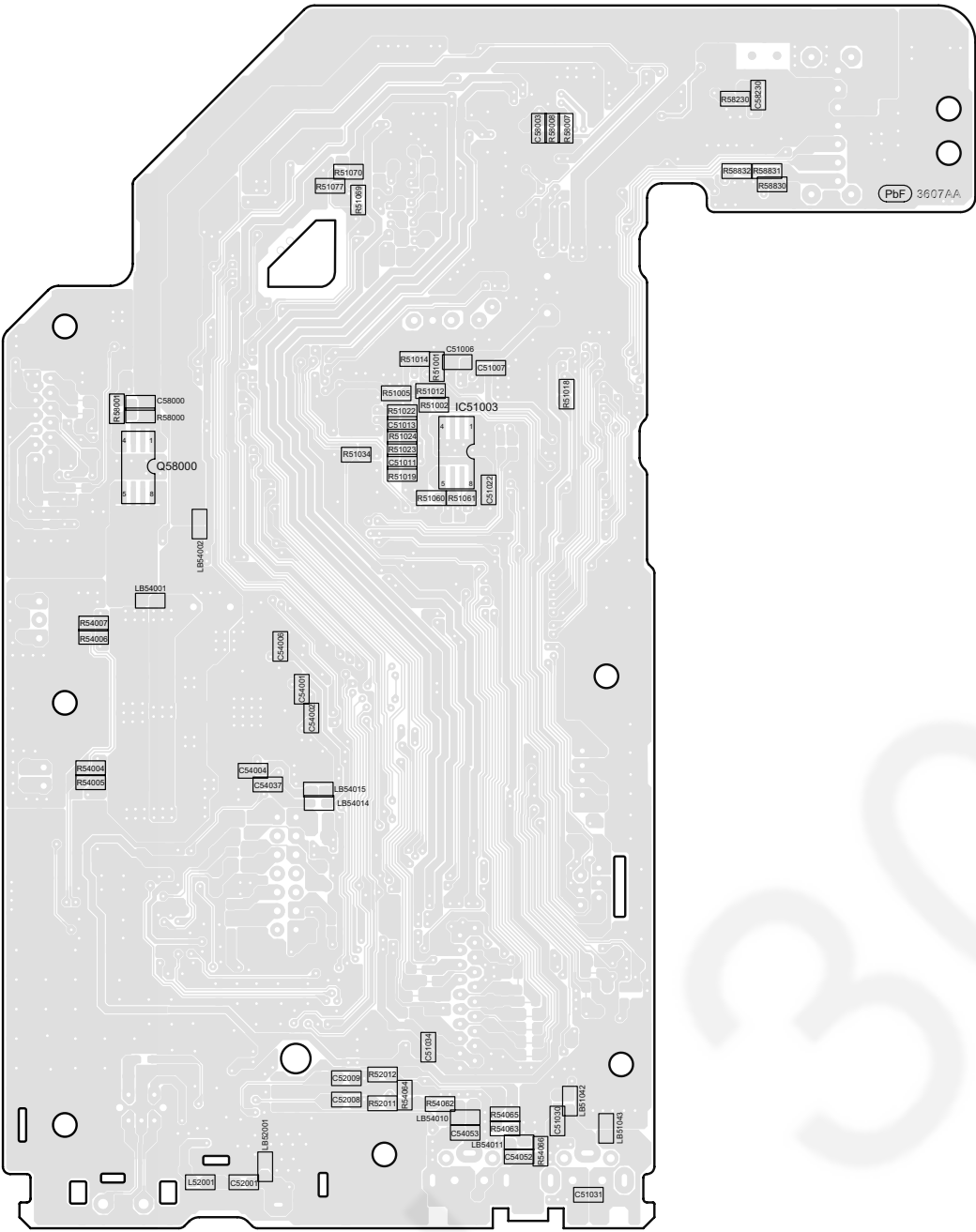
A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top.

AC IN ~
220V-240V
50Hz

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

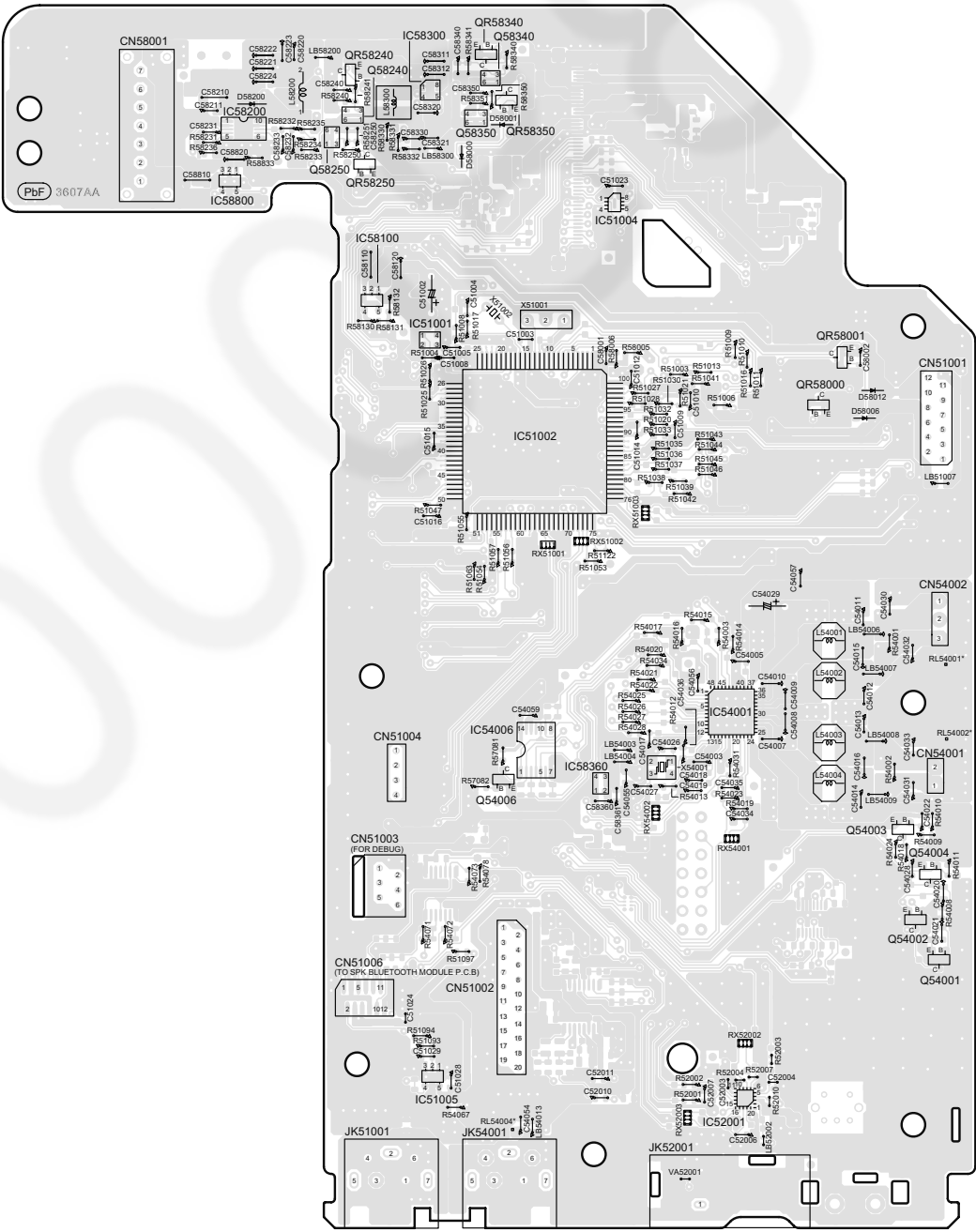
18.5. SPK Main P.C.B. (SB-NE5)

I SPK MAIN P.C.B. (REP4846HA)



(SIDE A)

NOTE: " * " REF IS FOR INDICATION ONLY.



(SIDE B)

TO SPEAKER (LEFT)

TO SPEAKER (RIGHT)

SYSTEM CONTROL

AUX/ SYSTEM PORT

FM ANT

SC-NE5EE(SB-NE5EE)
SPK MAIN P.C.B.

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

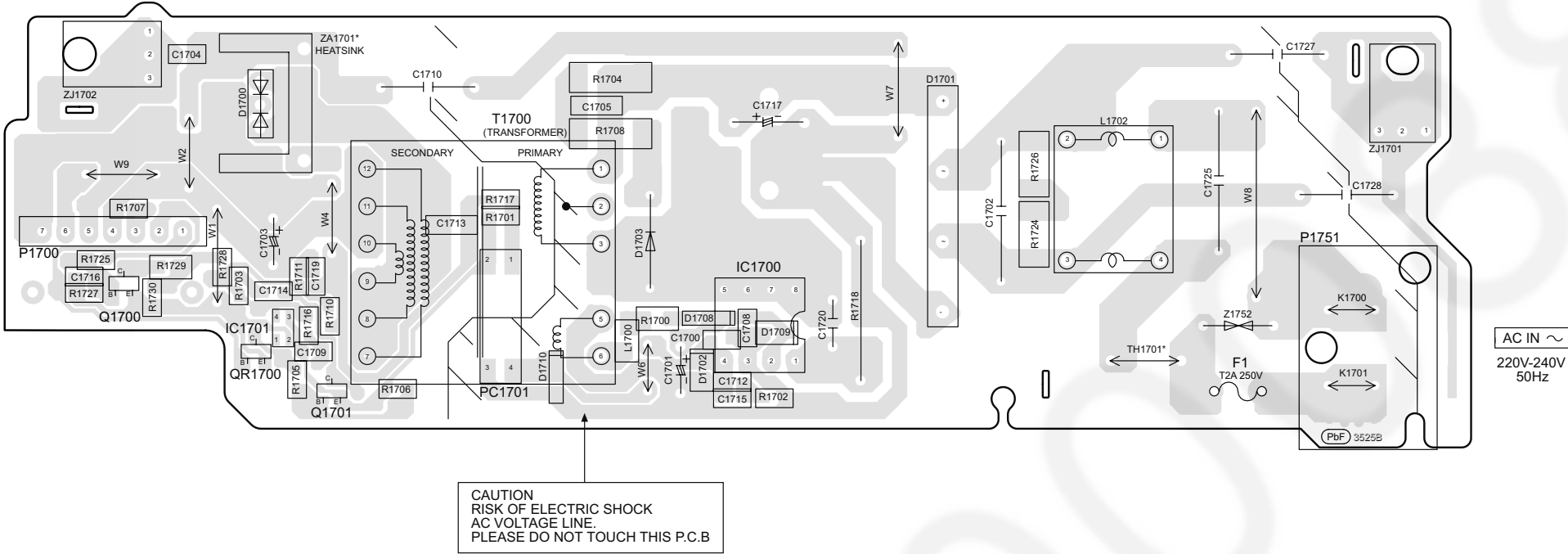
(SIDE B)

(SIDE B)

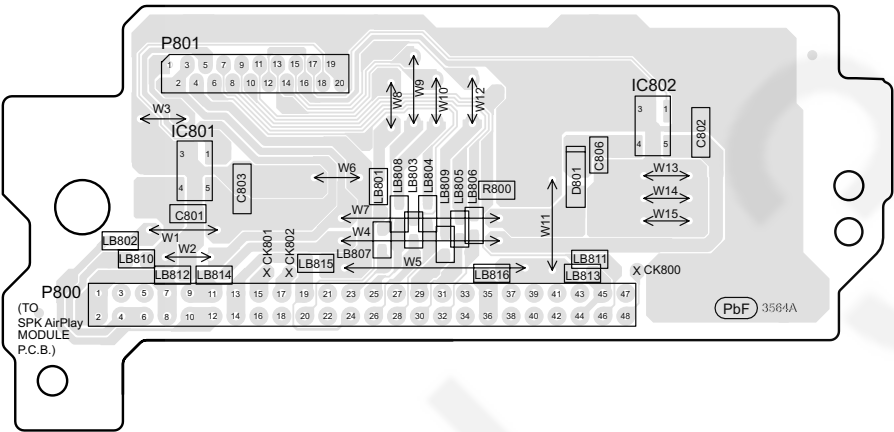
SC-NE5EE(SB-NE5EE)
SPK PANEL / SPK AirPlay ANTENNA / SPK LED P.C.B.

18.7. SPK SMPS and SPK AirPlay Connect P.C.B. (SB-NE5)

K SPK SMPS P.C.B. (REP4848F)



N SPK AirPlay CONNECT P.C.B. (REP4772A)



NOTE: " * " REF IS FOR INDICATION ONLY

SC-NE5EE(SB-NE5EE)
SPK SMPS / SPK AirPlay CONNECT P.C.B.

19 Appendix Information of Schematic Diagram

19.1. Voltage Measurement and Waveform Chart (SL-NE5)

Note:

- Indicated voltage values are the 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 the 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.

19.1.1. CD Servo P.C.B. (1/2)

REF NO.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.5	0	3.3	3.3	1.7	0	0	0	1.7	1.5	3.3	1.6	1.8	3.3	1.8	0	1.8	0	1.8	3.3
REF NO.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.8	0	1.5	1.6	3.3	1.2	1.5	1.2	3.3	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2
REF NO.	IC7001																			
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	0	2.1	0	3.3	3.3	3.3	0	3.3	3.3	3.3	0	3.3	3.3	1.2	1.2	1.5	0
REF NO.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.2	1.5	1.7	1.5	3.3	1.5	3.3	3.3	1.8	1.2	1.2	3.3	1.5	1.8	1.5	1.5	1.5	1.5	1.2	1.2
REF NO.	IC7001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	1.5	3.3	3.3	3.3	0	1.5	1.5	1.5	1.5	1.5	1.5
REF NO.	IC7001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	1.5	1.5	3.3	3.3	3.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0	3.3	3.3	0	1.5	1.5	2.1	2.1
REF NO.	IC7001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	2.1	1.5	1.5	1.5	1.5	1.2	1.5	1.8	1.8	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
REF NO.	IC7001																			
MODE	141	142	143	144																
CD PLAY	3.3	3.3	3.3	3.3																
REF NO.	IC7002																			
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	0	3.2	1.6	0	3.3	3.2	7.5	0	0	3.9	3.9	2.7	2.5	2.8	2.5	1.1	3.8	5.1	0
REF NO.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	1.5	0	1.1	0	0	1.6	1.6	3.2	0	0										
REF NO.	IC7502																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.2	3.3	0	0	0	1.5	3.3	3.3												
REF NO.	IC7704																			
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	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

SC-NE5EE(SL-NE5EE) CD SERVO P.C.B.

19.1.2. CD Servo P.C.B. (2/2)

REF NO.	IC7704																			
MODE	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
REF NO.	IC7704																			
MODE	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										
REF NO.	IC7851																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	3.2	3.2	0	3.2												
REF NO.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.0	2.0	2.3																	
SC-NE5EE(SL-NE5EE) CD SERVO P.C.B.																				

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

REF NO.	IC51001																			
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	3.3	0	0	0	0	0	0	0	1.6	1.6	0	1.3	1.7	3.3	1.8	3.3	3.2
STANDBY	0	0	0	3.3	0	0	0	0	0	0	0	1.6	1.6	0	1.3	1.7	3.3	1.8	3.3	3.2
REF NO.	IC51001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	3.3	0	3.3	3.3	3.3	3.3	0	3.2	1.7	0	3.2	0	3.3	3.3	3.3	1.8	3.3	0	0
STANDBY	3.3	3.3	0	3.3	3.3	3.3	3.3	0	3.2	1.7	0	3.2	0	3.3	3.3	3.3	1.8	3.3	0	0
REF NO.	IC51001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	3.3	0.6	3.3	3.3	3.3	0	3.3	3.3	0	3.3	0	0	0	0	0	0	0	3.3
STANDBY	0	0	3.3	0.6	3.3	3.3	3.3	0	3.3	3.3	0	3.3	0	0	0	0	0	0	0	3.3
REF NO.	IC51001																			
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	0	0	0	0	0	0	0	3.3	0	0	3.3	3.3	3.3	0	0	1.5	0.2	0	0
STANDBY	3.3	0	0	0	0	0	0	0	3.3	0	0	3.3	3.3	3.3	0	0	1.5	0.2	0	0
REF NO.	IC51001																			
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	3.3	0	0	3.3	0	0	3.3	2.8	3.3	1.2	3.3	0.3	0	2.8	3.3
STANDBY	0	0	0	0	0	3.3	0	0	3.3	0	0	3.3	2.8	3.3	1.2	3.3	0.3	0	2.8	3.3
REF NO.	IC51002																			
MODE	1	2	3	4																
CD PLAY	3.3	3.3	0	0																
STANDBY	3.3	3.3	0	0																
REF NO.	IC51003																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	3.3	3.3	0	3.3												
STANDBY	0	0	0	0	3.3	3.3	0	3.3												
REF NO.	IC54001																			
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	1.7	0	0	0	0	0	3.3	0	0	0	1.0	1.6	0.8	1.6	0	0	1.9	0	3.3
STANDBY	3.3	1.7	0	0	0	0	0	3.3	0	0	0	1.0	1.6	0.8	1.6	0	0	1.9	0	3.3
REF NO.	IC54010																			
MODE	1	2	3	4	5															
CD PLAY	0	3.3	0	3.2	3.3															
STANDBY	0	3.3	0	3.2	3.3															
REF NO.	IC58100																			
MODE	1	2	3	4	5	6														
CD PLAY	6.8	0	1.0	12.0	12.0	3.3														
STANDBY	6.8	0	1.0	12.0	12.0	3.3														

SC-NE5EE(SL-NE5EE) MAIN P.C.B.

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

REF NO.	IC58200																	
MODE	1	2	3	4	5	6	7	8										
CD PLAY	10.4	12.0	5.1	0	0.8	5.4	3.2	5.4										
STANDBY	10.4	12.0	5.1	0	0.8	5.4	3.2	5.4										
REF NO.	IC58201																	
MODE	1	2	3	4	5	6	7	8										
CD PLAY	0	5.0	5.0	3.3	0.8	5.0	5.0	0										
STANDBY	0	5.0	5.0	3.3	0.8	5.0	5.0	0										
REF NO.	IC58300																	
MODE	1	2	3	4	5	6	7	8										
CD PLAY	9.6	12.0	5.1	0	0.9	5.5	3.2	5.4										
STANDBY	9.6	12.0	5.1	0	0.8	5.5	3.2	5.4										
REF NO.	IC58301																	
MODE	1	2	3	4	5	6												
CD PLAY	5.0	0	0	3.3	0	12.0												
STANDBY	5.0	0	0	3.3	0	12.0												
REF NO.	IC58400																	
MODE	1	2	3	4	5													
CD PLAY	12.0	3.2	7.5	2.7	0													
STANDBY	12.0	3.2	7.5	2.7	0													
REF NO.	IC59001																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
CD PLAY	0	2.0	0	2.0	0	0	0	0	2.0	0	2.7	0	0	3.3				
STANDBY	0	2.0	0	2.0	0	0	0	0	2.0	0	2.7	0	0	3.3				
REF NO.	Q51001																	
MODE	E	C	B		E	C	B		E	C	B		1	2	3	4	5	6
CD PLAY	5.1	5.0	4.3		5.1	0	5.1		3.3	3.2	2.5		3.3	3.3	0.6	3.3	3.3	3.3
STANDBY	5.1	5.0	4.3		5.1	0	5.1		3.3	3.2	2.5		3.3	3.3	0.6	3.3	3.3	3.3
REF NO.	Q58101																	
MODE	1	2	3	4	5	6		E	C	B		E	C	B		E	C	B
CD PLAY	3.3	3.3	0.6	3.3	3.3	3.3		12.0	11.9	6.0		0	5.1	0		5.1	0	5.1
STANDBY	3.3	3.3	0.6	3.3	3.3	3.3		12.0	11.9	6.0		0	5.1	0		5.1	0	5.1
REF NO.	Q59003																	
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C
CD PLAY	5.1	0	5.1		0	0	0.7		5.1	5.1	4.4		5.1	5.1	4.4		0	0
STANDBY	5.1	0	5.1		0	0	0.7		5.1	5.1	4.4		5.1	5.1	4.4		0	0
REF NO.	QR51002																	
MODE	E	C	B		E	C	B		E	C	B		E	C	B			
CD PLAY	0	5.0	0		0	0	3.3		0	0	3.2		0	0	3.3			
STANDBY	0	5.0	0		0	0	3.3		0	0	3.2		0	0	3.3			

SC-NE5EE(SL-NE5EE) MAIN P.C.B.

19.1.5. Panel P.C.B.

REF NO.	Q1501						Q1502											
MODE	E	C	B		E	C	B		E	C	B							
CD PLAY	6.0	11.9	6.1		6.0	0	6.1											
STANDBY	6.1	11.9	6.1		6.0	0	6.1											

SC-NE5EE(SL-NE5EE) PANEL P.C.B.

19.1.6. SMPS P.C.B.

REF NO.	IC1021																	
MODE	1	2	3	4	5	6	7	8										
POWER ON	0	17.4	0	1.4	166.3	166.3	166.3	166.3										
STANDBY	0	17.4	0	1.4	166.3	166.3	166.3	166.3										

REF NO.	IC1102																	
MODE	1	2	3	4														
POWER ON	0	0	10.4	2.5														
STANDBY	0	0	10.4	2.5														

REF NO.	Q1100				QR1101													
MODE	E	C	B		E	C	B											
POWER ON	10.5	0	10.4		0	10.4	0											
STANDBY	10.4	0	10.5		0	10.4	0											

SC-NE5EE(SL-NE5EE) SMPS P.C.B.

19.2. Voltage Measurement and Waveform Chart (SB-NE5)

19.2.1. SPK Main P.C.B. (1/3)

REF NO.	IC51001																			
MODE	1	2	3	4																
CD PLAY	3.3	3.3	0	0																
STANDBY	3.3	3.3	0	0																

REF NO.	IC51002																			
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	3.3	3.3	0	3.3	3.3	3.3	3.3	0	1.6	1.6	0	1.1	1.7	3.3	1.8	3.3	0
STANDBY	0	0	0	3.3	3.3	0	3.3	3.3	3.3	3.3	0	1.6	1.6	0	1.1	1.7	3.3	1.8	3.3	0

REF NO.	IC51002																			
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	3.3	0	0	0	0	0	0	0	0	3.3	3.2	3.3	1.8	0	0	0
STANDBY	0	0	0	0	3.3	0	0	0	0	0	0	0	0	3.3	3.2	3.3	1.8	0	0	0

REF NO.	IC51002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	3.3	3.3	3.3	0	3.3	3.3	3.3	0	0	3.3	0	0	3.3	0	3.3
STANDBY	0	0	0	0	0	3.3	3.3	3.3	0	3.3	3.3	3.3	0	0	3.3	0	0	3.3	0	3.3

REF NO.	IC51002																			
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	0	0	0	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	0	0	1.5	0	3.3	3.3
STANDBY	3.3	0	0	0	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	0	0	1.5	0	3.3	3.3

REF NO.	IC51002																			
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	3.3	0	3.3	0	3.3	0	0	3.3	0	0	3.3	0.3	3.3	1.2	3.3	0.3	0	3.0	3.3
STANDBY	3.3	3.3	0	3.3	0	3.3	0	0	3.3	0	0	3.3	0.3	3.3	1.2	3.3	0.3	0	3.0	3.3

REF NO.	IC51003																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	3.3	3.3	0	3.3												
STANDBY	0	0	0	0	3.3	3.3	0	3.3												

REF NO.	IC51004																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	3.3	0	0	0	3.3	0	3.3												
STANDBY	0	3.3	0	0	0	3.3	0	3.3												

REF NO.	IC51005																			
MODE	1	2	3	4	5															
CD PLAY	0	3.3	0	3.3	3.3															
STANDBY	0	3.3	0	3.3	3.3															

REF NO.	IC54001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.8	0	3.0	1.7	1.8	0	0.8	1.2	1.2	1.8	3.3	0	1.3	1.6	3.3	3.3	3.3	1.8	3.3	0
STANDBY	1.8	0	3.0	1.7	1.8	0	0.8	1.2	1.2	1.8	3.3	0	1.3	1.6	3.3	3.3	3.3	1.8	3.3	0

SC-NE5EE(SB-NE5EE) SPK MAIN P.C.B.

19.2.2. SPK Main P.C.B. (2/3)

REF NO.	IC54001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	3.3	3.3	0	0	16.8	0	0	3.0	16.8	16.8	0.6	0	3.0	16.8	0	0	0.3	0	0
STANDBY	3.3	3.3	3.3	0	0	16.8	0	0	3.0	16.8	16.8	0.6	0	3.0	16.8	0	0	0.3	0	0
REF NO.	IC54001																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	0	0	0	0	0	1.5	3.3	1.6												
STANDBY	0	0	0	0	0	1.5	3.3	1.6												
REF NO.	IC54006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	0	0	0	1.6	1.6	0	1.6	1.6	0	0	0	0	3.3						
STANDBY	0	0	0	0	1.6	1.6	0	1.6	1.6	0	0	0	0	3.3						
REF NO.	IC58100																			
MODE	1	2	3	4	5															
CD PLAY	3.3	0	16.8	2.5	16.8															
STANDBY	3.3	0	16.8	2.5	16.8															
REF NO.	IC58200																			
MODE	1	2	3	4	5	6	7	8	9	10										
CD PLAY	11.2	16.8	3.3	2.2	0.5	0	3.3	0.7	0	5.1										
STANDBY	11.2	16.8	3.3	2.3	0.5	0	3.3	0.7	0	5.1										
REF NO.	IC58300																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	3.3	0	0.6	1.6	0	5.1	5.1												
STANDBY	0	3.3	0	0.6	1.6	0	5.1	5.1												
REF NO.	IC58360																			
MODE	1	2	3	4																
CD PLAY	3.3	0	1.8	3.3																
STANDBY	3.3	0	1.8	3.3																
REF NO.	IC58800																			
MODE	1	2	3	4	5															
CD PLAY	12.0	0	16.8	2.5	3.3															
STANDBY	12.0	0	16.8	2.5	3.3															
REF NO.	Q54001				Q54002				Q54003				Q54004				Q54006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	3.5	16.6	3.5		3.5	16.6	3.5		16.7	0	16.8		0	3.3	0		0	3.0	3.0	
STANDBY	3.5	16.6	3.5		3.5	16.6	3.5		16.8	0	16.8		0	3.3	0		0	3.0	3.0	
REF NO.	Q58000								Q58240											
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6					
CD PLAY	16.8	16.8	16.8	3.6	16.8	16.8	16.8	16.8		5.1	5.1	0.9	5.1	5.1	5.1					
STANDBY	16.8	16.8	16.8	3.6	16.8	16.8	16.8	16.8		5.1	5.1	0.9	5.1	5.1	5.1					

SC-NE5EE(SB-NE5EE) SPK MAIN P.C.B.

19.2.3. SPK Main P.C.B. (3/3)

REF NO.	Q58250							Q58340							Q58350					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	6
CD PLAY	5.1	5.1	0.9	5.1	5.1	5.1		3.3	3.3	0.6	3.3	3.3	3.3		3.3	3.3	0.6	3.3	3.3	3.3
STANDBY	5.1	5.1	0.9	5.1	5.1	5.1		3.3	3.3	0.6	3.3	3.3	3.3		3.3	3.3	0.6	3.3	3.3	3.3

REF NO.	QR58000				QR58001				QR58240				QR58250				QR58340			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	3.2		0	3.3	0		0	0	3.3		0	0	3.2		0	0	3.3	
STANDBY	0	0	3.2		0	3.3	0		0	0	3.3		0	0	3.2		0	0	3.3	

REF NO.	QR58350																			
MODE	E	C	B																	
CD PLAY	0	0	3.2																	
STANDBY	0	0	3.2																	

SC-NE5EE(SB-NE5EE) SPK MAIN P.C.B.

19.2.4. SPK Panel P.C.B.

REF NO.	Q1501				Q1502															
MODE	E	C	B		E	C	B													
CD PLAY	6.0	12.0	6.1		6.0	0	6.1													
STANDBY	6.0	12.0	6.1		6.0	0	6.1													

SC-NE5EE(SB-NE5EE) SPK PANEL P.C.B.

19.2.5. SPK LED P.C.B.

REF NO.	Q1601				Q1602				QR1601				QR1602							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	5.1	0	5.0		5.0	0	5.0		0	5.0	0		0	5.0	0					
STANDBY	5.0	0	5.0		5.0	0	5.0		0	5.0	0		0	5.0	0					

SC-NE5EE(SB-NE5EE) SPK LED P.C.B.

19.2.6. SPK SMPS P.C.B.

REF NO.	IC1700															
MODE	1	2	3	4	5	6	7	8								
POWER ON	3.0	20.2	0	2.0	600	600	600	600								
STANDBY	3.0	20.2	0	2.0	600	600	600	600								

REF NO.	IC1701															
MODE	1	2	3	4												
POWER ON	0	0	18.0	2.5												
STANDBY	0	0	18.0	2.5												

REF NO.	Q1700				Q1701				QR1700											
MODE	E	C	B		E	C	B		E	C	B									
POWER ON	0	18.0	3.3		14.74	0	14.74		0	14.46	0									
STANDBY	0	1.12	3.3		8.06	8.04	7.36		0	0	3.3									

SC-NE5EE(SB-NE5EE) SPK SMPS P.C.B.

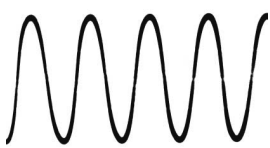
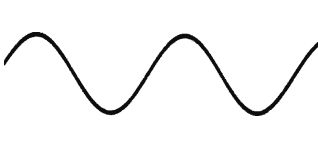
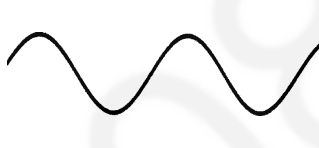
19.2.7. SPK AirPlay Connect P.C.B.

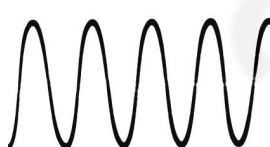
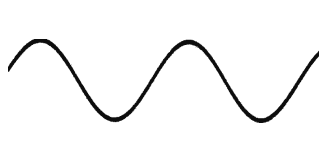
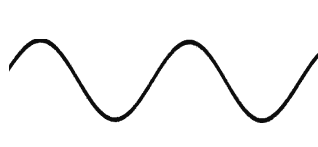
REF NO.	IC801																	
MODE	1	2	3	4	5													
CD PLAY	1.9	0	0	3.3	1.9													
STANDBY	1.9	0	0	3.3	1.9													

REF NO.	IC802																	
MODE	1	2	3	4	5													
CD PLAY	1.2	0	0	2.5	1.2													
STANDBY	1.2	0	0	2.5	1.2													

SC-NE5EE(SB-NE5EE) SPK AirPlay CONNECT P.C.B.

19.3. Waveform Chart

WF No. IC51001-12 (PLAY)  3.8Vp-p(5nsec/div)	WF No. IC51001-13 (PLAY)  3Vp-p(50nsec/div)	WF No. IC51001-15,16 (PLAY)  2.4Vp-p(10usec/div)	
SC-NE5EE(SL-NE5EE)			

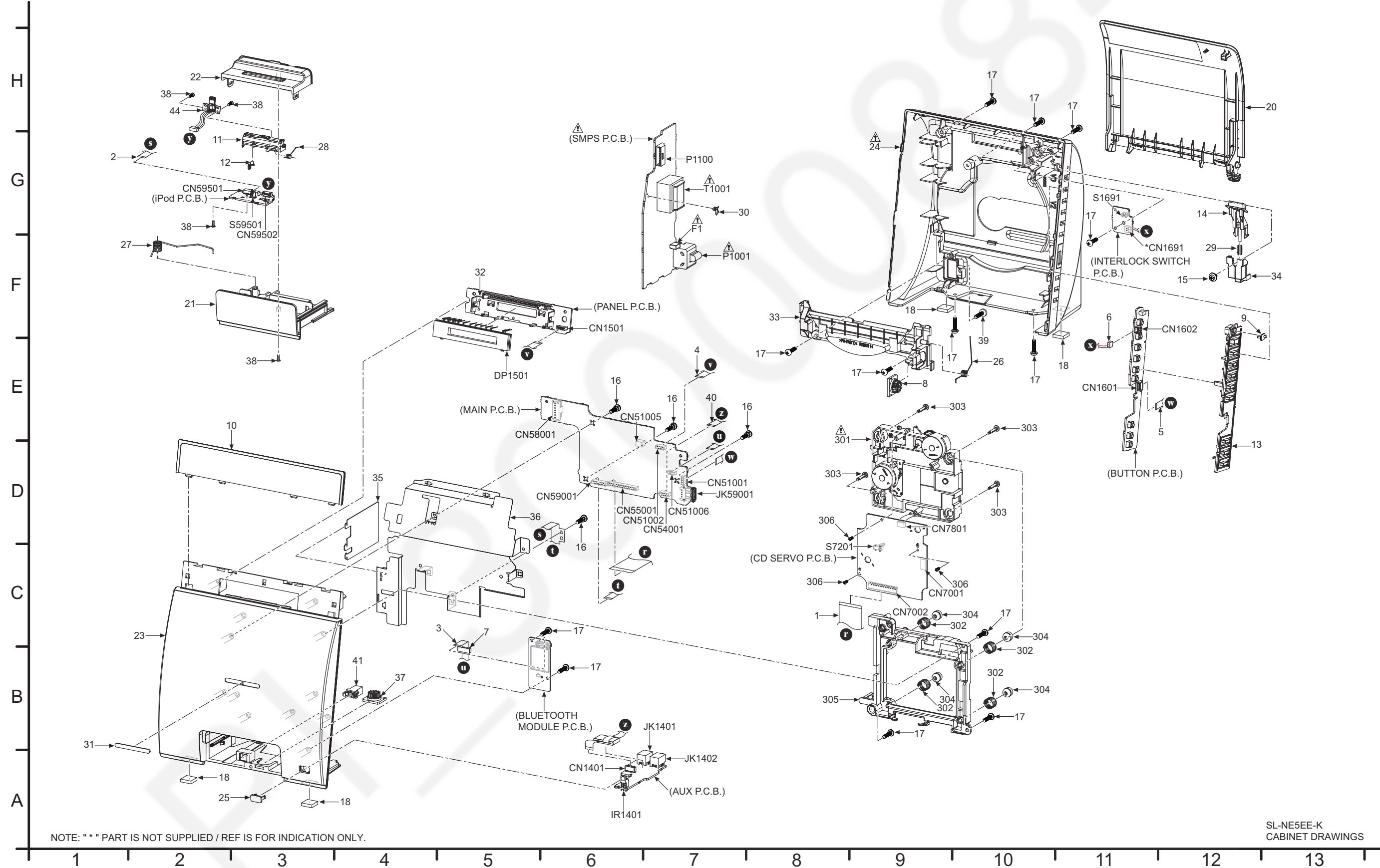
WF No. IC51002-12 (PLAY)  3.8Vp-p(50nsec/div)	WF No. IC51002-13 (PLAY)  3Vp-p(50nsec/div)	WF No. IC51002-15 (PLAY)  1.3Vp-p(10usec/div)	WF No. IC51002-16 (PLAY)  2.4Vp-p(10usec/div)
WF No. IC54001-3 (PLAY)  4.8Vp-p(5usec/div)	WF No. IC54001-13 (PLAY)  1.4Vp-p(20nsec/div)	WF No. IC54001-14 (PLAY)  5.6Vp-p(20nsec/div)	WF No. IC54001-27,29,32,34 (PLAY)  28Vp-p(1usec/div)
SC-NE5EE(SB-NE5EE)			

PL/30000884

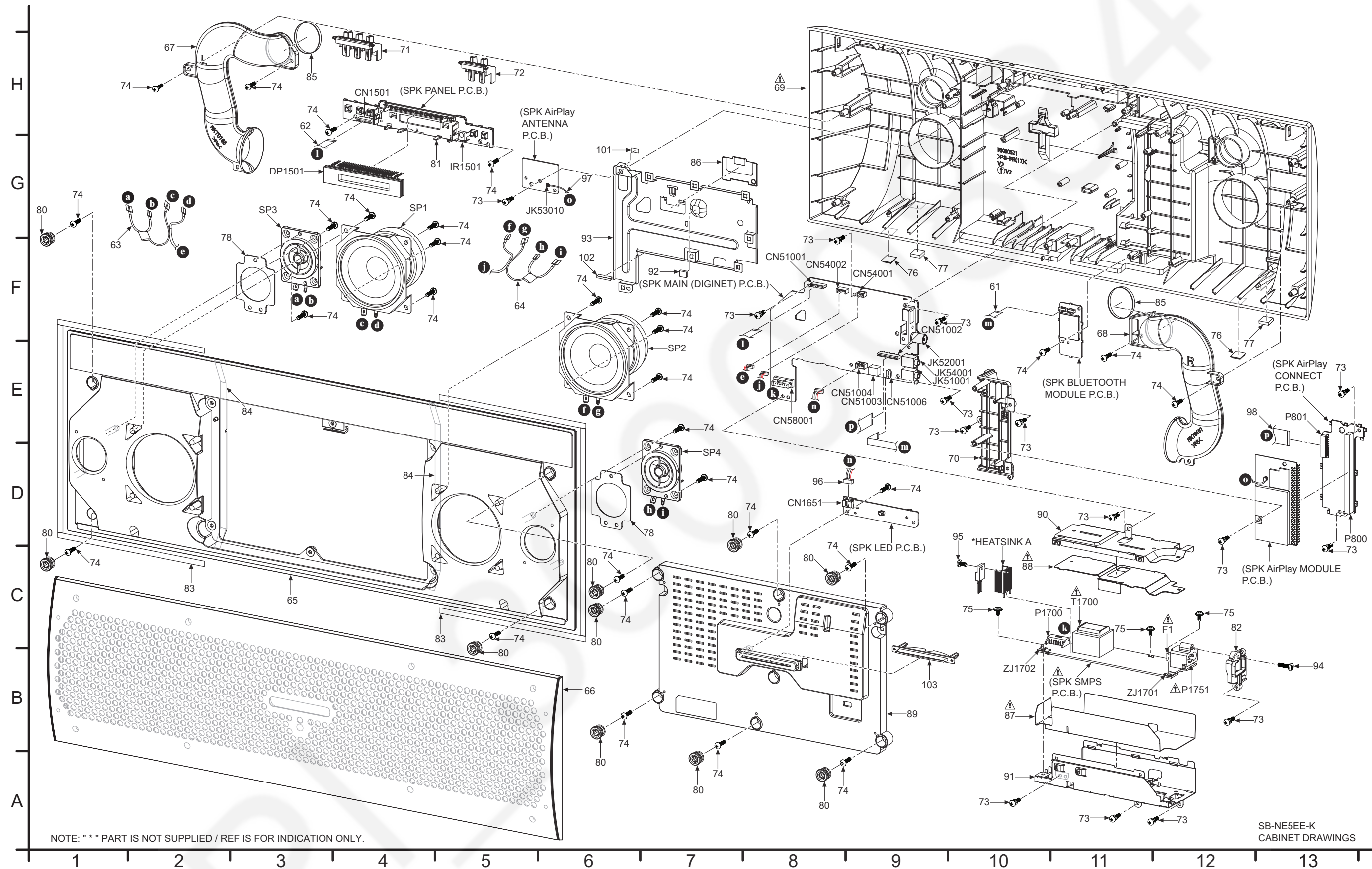
20 Exploded View and Replacement Parts List

20.1. Exploded View and Mechanical replacement Parts List

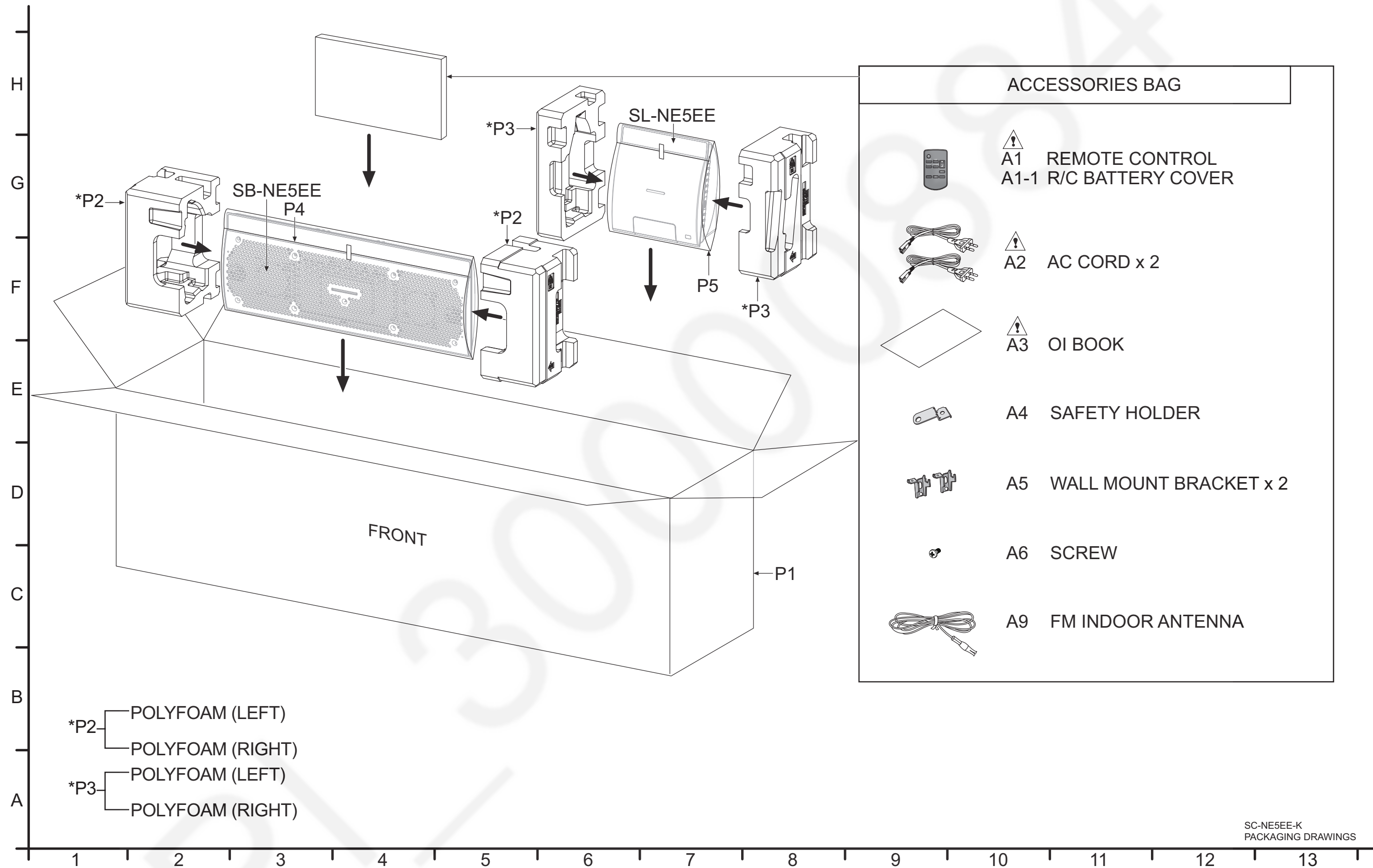
20.1.1. Cabinet Parts Location (SL-NE5)



20.1.2. Cabinet Parts Location (SB-NE5)



20.1.3. Packaging



SC-NE5EE-K
PACKAGING DRAWINGS

PI/30000884

20.1.4. Mechanical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- 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

20.1.4.1. CD Unit (SL-NE5)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE1665	30P FFC (CD SERVO - MAIN)	1	
	2	REE1770	14P FFC (MAIN - iPod)	1	
	3	REE1771	12P FFC (BLUE-BOOTH - MAIN)	1	
	4	REE1772	7P FFC (PANEL - MAIN)	1	
	5	REE1774	6P FFC (BUTTON - MAIN)	1	
	6	REX1600	2P CABLE WIRE (INTERLOCK - BUTTON)	1	
	7	JOKD00000051	FERRITE CORE	1	
	8	RDG0640	DAMPER GEAR	1	
	9	RGL0789-Q	CD LIGHT PIECE	1	
	10	RFKHLNE5EG-K	CD TOP PANEL ASS'Y	1	
	11	RGQ0750-K	CONNECTOR SUPPORT	1	
	12	RGQ0755-K	IPOD SW PIECE	1	
	13	RGU2866-K	CD OPERATION BUTTON	1	
	14	RGU2867-K	CD OPEN BUTTON	1	
	15	RHD26016-1L	SCREW	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	16	RHD26043-1	SCREW	4	
	17	RHD26046	SCREW	13	
	18	RKAX0028-K	LEG CUSHION	4	
	20	RKF0957-K	CD LID	1	
	21	RKF0958-K	IPOD BASE	1	
	22	RKF0959-K	IPOD TOP COVER	1	
	23	RKM0712-K	CD FRONT CABINET	1	
	24	RFKHLNE5EE-K	CD REAR CABINET ASS'Y	1	
	25	RKW1037-Q	CD SENSOR PANEL	1	
	26	RMB0960	CD OPEN SPRING	1	
	27	RMB0961	IPOD OPEN SPRING	1	
	28	RMB0962	IPOD TILT SPRING	1	
	29	RMB0963	CD OP BUTTON SPRING	1	
	30	RMCK1008	LEAF SPRING	1	
	31	RMG0938-K	I-POD SUPPORT RUBBER	1	
	32	RMN1049-1	FL HOLDER	1	
	33	RMR2114-K1	CD POCKET	1	
	34	RMR2115-K	CD OPEN BUTTON BASE	1	
	35	RMV0423	CD SMPS INSULATOR	1	
	36	RSC1201	CD MAIN SHIELD	1	
	37	RXGX1003	DAMPER GEAR	1	
	38	VHD1224-1A	SCREW	4	
	39	XTB3+10JFJK	SCREW	1	
	40	REZ2099	8P FFC UNIT	1	
	41	RHQ0103-H	LATCH	1	
	44	RXQ2198	LIGHTNING CONNECTOR UNIT	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			TRAVERSE DECK		
⚠	301	RAE5301Z-V	TRAVERSE	1	
	302	RME0109-1	FLOATING SPRING	4	
	303	RMS0757-1	FIX PIN	4	
	304	RMG0730-G	FLOATING RUBBER	4	
	305	RMQ2020-1J	MIDDLE CHASSIS	1	
	306	XTN2+6GFJ	SCREW	3	

20.1.4.2. Speaker Unit (SB-NE5)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	61	REE1767	12P FFC (BLUE-TOOTH - MAIN)	1	
	62	REE1769	12P FFC (PANEL - MAIN)	1	
	63	REX1596	1P WIRE (SPK L - MAIN)	1	
	64	REX1597	1P WIRE (SPK R - MAIN)	1	
	65	RFKGCNE5EG-K	SPEAKER FRONT CABINET ASS'Y	1	
	66	RYB0395	SPEAKER NET FRAME	1	
	67	RXQ2156	SPEAKER LEFT PORT UNIT	1	
	68	RXQ2157	SPEAKER RIGHT PORT UNIT	1	
⚠	69	RFKHCNE5EE-K	SPEAKER REAR CABINET ASS'Y	1	
	70	RGQ0737-K1	TUNER HOLDER	1	
	71	RGU2864-K	POWER BUTTON	1	
	72	RGU2865-K	VOLUME BUTTON	1	
	73	RHD26043-1	SCREW	15	
	74	RHD26046	SCREW	30	
	75	RHD30092-1	SCREW	3	
	76	RKA0253-H	LEG CUSHION	2	
	77	RKA0294-K	LEG CUSHION	2	
	78	RMF0458-J	TWEETER SHEET	2	
	80	RMG0520-H	NET HOLDER	10	
	81	RMN1049-1	FL HOLDER	1	
	82	RMN1055	AC JACK HOLDER	1	
	83	RMQ2156	EPT SEALER A	2	
	84	RMQ2157	EPT SEALER B	2	
	85	RMQ2158	EPT SEALER C	2	
	86	RMQ2159	SP HOLE COVER	1	
⚠	87	RMV0390	SMPS INSULATOR SHEET A	1	
⚠	88	RMV0391-1	SMPS INSULATOR SHEET B	1	
	89	RMV0416-1	SPEAKER INNER COVER	1	
	90	RSC1067	SMPS SHIELD	1	
	91	RSC1068-1	SMPS BRACKET	1	
	92	RSC1097	D-AMP HEAT ABSORBER	1	
	93	RSC1200	SPEAKER REAR SHIELD	1	
	94	XTB3+10JFJK	SCREW	1	
	95	XTB3+8JFJ-J	SCREW	1	
	96	REX1598	4P WIRE CABLE (MAIN - LED)	1	
	97	REX1599	1P WIRE CABLE (AIRPLAY ANTENNA-AIRPLAY MODULE)	1	
	98	REE1768	20P FFC (MAIN - AIRPLAY CONNECT)	1	
	101	RMQ2199	NON-WOVEN FABRIC CLOTH A	1	
	102	RMQ2209	EPT SEALER E	1	
	103	RGL0790-W	PANEL LIGHT	1	
			SPEAKERS		
	SP1	EAS8P231A	FRONT SPEAKER	1	
	SP2	EAS8P231A	FRONT SPEAKER	1	
	SP3	L0AZ03A00017	TWEETER SPEAKER	1	
	SP4	L0AZ03A00017	TWEETER SPEAKER	1	

20.1.4.3. Packaging (SC-NE5)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PACKING MATERIALS		
	P1	RPG0E58-1	PACKING CASE	1	
	P2	RPN2557	POLYFOAM (SB)	1	
	P3	RPN2568-1	POLYFOAM (SL)	1	
	P4	RPF0657	MIRAMAT SHEET (SB)	1	
	P5	RPF0658	MIRAMAT SHEET (SL)	1	
			ACCESSORIES		
⚠	A1	N2QAYC000090	REMOTE CONTROL	1	
	A1-1	RKK-HTB10GNK	R/C BATTERY COVER	1	
⚠	A2	K2CQ2YY00119	AC CORD	2	
⚠	A3	VQT4U57	O/I BOOK (Ru/Ur)	1	
	A4	RGQ0660-K	SAFETY HOLDER	1	
	A5	RMQX1082-S	WALL MOUNT BRACKET	2	
	A6	XTB3+8JFJK-J	SCREW	1	
	A9	RSAX0002	FM ANTENNA INDOOR	1	

20.2. 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 (μ F) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCJM unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by JAPAN.

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

20.2.1. CD Unit (SL-NE5)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUITS BOARDS		
	PCB1	REP4781K	CD SERVO P.C.B.	1	(RTL)
	PCB2	REP4845HA	MAIN (DIGINET) P.C.B.	1	(RTL)
	PCB2	REP4845HA	MAIN (MICON) P.C.B.	1	(RTL)
	PCB2	REP4845HA	MAIN (USB) P.C.B.	1	(RTL)
	PCB3	REP4845HB	iPod P.C.B.	1	(RTL)
	PCB4	REP4845HD	AUX P.C.B.	1	(RTL)
$\triangle$	PCB5	REP4847CA	SMPS P.C.B.	1	(RTL)
	PCB6	REP4847CB	PANEL P.C.B.	1	(RTL)
	PCB7	REP4847CC	BUTTON P.C.B.	1	(RTL)
	PCB8	REP4847CD	INTERLOCK SWITCH P.C.B.	1	(RTL)
	PCB9	REP4912A	BLUETOOTH MODULE P.C.B. (TRANSMITTER)	1	
			INTEGRATED CIRCUITS		
	IC1021	C0DACY000012	IC	1	(E.S.D)
	IC1102	C0DBZMC00006	IC	1	(E.S.D)
	IC7001	MN6627947RK	IC	1	(E.S.D)
	IC7002	C0GBY0000117	IC	1	(E.S.D)
	IC7502	MFI337S3959	IC	1	(E.S.D)
	IC7704	C3ABMY000027	IC	1	(E.S.D)
	IC7851	C3EBFY000029	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC51001	RFKWMNE5PCM	IC	1	(E.S.D)
	IC51002	C0EBY0000861	IC	1	(E.S.D)
	IC51003	C3EBEY000037	IC	1	(E.S.D)
	IC54001	C1AB00004031	IC	1	(E.S.D)
	IC54010	C0JBAZ002762	IC	1	(E.S.D)
	IC58100	C0DBAYY01511	IC	1	(E.S.D)
	IC58200	C0DBAYY01445	IC	1	(E.S.D)
	IC58201	C0DBZYY00547	IC	1	(E.S.D)
	IC58300	C0DBAYY01445	IC	1	(E.S.D)
	IC58301	C0DBZYY00555	IC	1	(E.S.D)
	IC58400	C0CBCYG000004	IC	1	(E.S.D)
	IC59001	C0JBAR000586	IC	1	(E.S.D)
			TRANSISTORS		
	Q1100	DSA500100L	TRANSISTOR	1	(E.S.D)
	Q1501	DSC200200L	TRANSISTOR	1	(E.S.D)
	Q1502	DSA200200L	TRANSISTOR	1	(E.S.D)
	Q7601	B1ADCF0000001	TRANSISTOR	1	(E.S.D)
	Q51001	DSA200100L	TRANSISTOR	1	(E.S.D)
	Q51002	DSA200100L	TRANSISTOR	1	(E.S.D)
	Q55001	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q58100	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q58101	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q58500	B1ADGF000010	TRANSISTOR	1	(E.S.D)
	Q59001	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q59002	B1ADCF0000001	TRANSISTOR	1	(E.S.D)
	Q59003	B1ADCF0000001	TRANSISTOR	1	(E.S.D)
	Q59004	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q59005	B1ADCF0000001	TRANSISTOR	1	(E.S.D)
	Q59006	B1ADCF0000001	TRANSISTOR	1	(E.S.D)
	QR1101	B1GBCFJN0039	TRANSISTOR	1	(E.S.D)
	QR51001	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)
	QR51002	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	QR58150	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR58160	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR58500	B1GBCFJJ0040	TRANSISTOR	1	(E.S.D)
			DIODES		
	D1006	B0EDKT000007	DIODE	1	(E.S.D)
	D1021	DZ2W22000L	DIODE	1	(E.S.D)
	D1022	DA22F2100L	DIODE	1	(E.S.D)
	D1023	B0BA01700055	DIODE	1	(E.S.D)
	D1030	B0BA03600036	DIODE	1	(E.S.D)
	D1031	B0BB20000009	DIODE	1	(E.S.D)
	D1110	B0JARL000004	DIODE	1	(E.S.D)
	D1111	B0JARL000004	DIODE	1	(E.S.D)
	D1502	B0JCMD000066	DIODE	1	(E.S.D)
	D1503	B0JCMD000066	DIODE	1	(E.S.D)
	D1504	B0JCMD000066	DIODE	1	(E.S.D)
	D1506	B0JCMD000066	DIODE	1	(E.S.D)
	D1507	DZ2J05100L	DIODE	1	(E.S.D)
	D1601	B3AGA0000065	DIODE	1	(E.S.D)
	D7650	DZ2J056M0L	DIODE	1	(E.S.D)
	D51001	DA2J10100L	DIODE	1	(E.S.D)
	D51002	DA2J10100L	DIODE	1	(E.S.D)
	D51003	DA2J10100L	DIODE	1	(E.S.D)
	D58000	DA2J10100L	DIODE	1	(E.S.D)
	D58001	DA2J10100L	DIODE	1	(E.S.D)
	D58100	B0JCMD000046	DIODE	1	(E.S.D)
	D59001	DA2J10100L	DIODE	1	(E.S.D)
	D59002	DA2J10100L	DIODE	1	(E.S.D)
			SWITCHES		
	S1601	EVQ21405R	SW POWER	1	
	S1602	EVQ21405R	SW NETWORK SETUP	1	
	S1603	EVQ21405R	SW SELECTOR	1	
	S1604	EVQ21405R	SW STOP	1	
	S1608	EVQ21405R	SW VOLUME +	1	
	S1609	EVQ21405R	SW VOLUME -	1	
	S1610	EVQ21405R	SW FORWARD	1	
	S1611	EVQ21405R	SW REVERSE	1	
	S1691	K0L1BA000007	SW INTERLOCK	1	
	S7201	K0L1BA000158	SW RESET	1	
	S10612	EVQ21405R	SW PLAY/PAUSE	1	
	S59501	K0L1BA000028	SW iPod	1	
			CONNECTORS		
	CN1401	K1MN08A00048	8P CONNECTOR	1	
	CN1501	K1MN07A00005	7P CONNECTOR	1	
	CN1601	K1MN06B00015	6P CONNECTOR	1	
	CN1602	K1KA02BA0061	2P CONNECTOR	1	
	CN7001	K1MN24BA0197	24P CONNECTOR	1	
	CN7002	K1MN30B00046	30P CONNECTOR	1	
	CN7801	K1KA05BA0014	5P CONNECTOR	1	
	CN51001	K1MN06A00013	6P CONNECTOR	1	
	CN51002	K1MN07A00005	7P CONNECTOR	1	
	CN51005	K1MN06C00005	6P CONNECTOR	1	
	CN51006	K1MY12AA0021	12P CONNECTOR	1	
	CN54001	K1MN08A00048	8P CONNECTOR	1	
	CN55001	K1MN30A00019	30P CONNECTOR	1	
	CN58001	K1KB07AA0076	7P CONNECTOR	1	
	CN59001	K1MN14A00024	14P CONNECTOR	1	
	CN59501	K1MN14BA0147	14P CONNECTOR	1	
	CN59502	K1KA04BA0047	4P CONNECTOR	1	
	P1100	K1KA07BA0117	7P CONNECTOR	1	
			COILS AND INDUC-TORS		
	K7724	J0JYB0000013	INDUCTOR	1	
⚠	L1001	G0B233D00005	LINE FILTER	1	
	L7336	J0JYB0000013	INDUCTOR	1	
	L7367	J0JCC0000405	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L55001	J0JHC0000034	INDUCTOR	1	
	L58100	G1C4R7MA0625	INDUCTOR	1	
	L58200	G1C3R3Z00005	INDUCTOR	1	
	L58300	G1C3R3Z00005	INDUCTOR	1	
	L59503	J0JGC0000071	INDUCTOR	1	
	LB1010	J0JKB0000003	INDUCTOR	1	
	LB1011	J0JHC0000048	INDUCTOR	1	
	LB1118	J0JHC0000048	INDUCTOR	1	
	LB1401	J0JAC0000018	INDUCTOR	1	
	LB1402	J0JAC0000018	INDUCTOR	1	
	LB1403	J0JAC0000018	INDUCTOR	1	
	LB51003	J0JCC0000101	INDUCTOR	1	
	LB54001	J0JCC0000101	INDUCTOR	1	
	LB55001	J0JHC0000046	INDUCTOR	1	
	LB58000	J0JHC0000046	INDUCTOR	1	
	LB59001	J0JBC0000014	INDUCTOR	1	
	R51060	J0JCC0000101	INDUCTOR	1	
			TRANSFORMER		
⚠	T1001	G4DYA0000463	TRANSFORMER	1	
			FILTERS		
	T59001	EXC24CE900U	FILTER	1	
	T59501	EXC24CE900U	FILTER	1	
			VARISTOR		
⚠	Z1001	D4EAY471A127	VARISTOR	1	
			PHOTO COUPLER		
⚠	PC1022	B3PBA0000503	PHOTO COUPLER	1	
			OSCILLATORS		
	X7201	H2C169500011	OSCILLATOR	1	
	X7205	H0J120500076	OSCILLATOR	1	
	X51001	H2B8004A0008	OSCILLATOR	1	
	X51002	H0A327200181	OSCILLATOR	1	
			LCD DISPLAY		
	DP1501	A2BB00000186	LCD DISPLAY	1	
			FUSE		
⚠	F1	K5G202Y00006	FUSE	1	
			JACKS		
	JK1401	K2HC1YYB0032	JK SYSTEM PORT	1	
	JK1402	K2HC1YYB0033	JK SYSTEM CON-TROL	1	
	JK59001	K1FY104B0076	JK iPad	1	
⚠	P1001	K2AA2B000011	AC INLET	1	
			REMOTE SENSOR		
	IR1401	PNJ4881M02VT	PHOTO DETECTOR	1	
			CHIP JUMPERS		
	K7005	D0GBR00J0004	0 1/10W	1	
	K7015	D0GBR00J0004	0 1/10W	1	
	K7101	D0GBR00J0004	0 1/10W	1	
	K7102	D0GBR00J0004	0 1/10W	1	
	K7111	D0GBR00J0004	0 1/10W	1	
	K7211	D0GBR00J0004	0 1/10W	1	
	K7212	D0GBR00J0004	0 1/10W	1	
	K7258	D0GBR00J0004	0 1/10W	1	
	K7278	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	K7342	D0GBR00J0004	0 1/10W	1	
	LB1404	D0GBR00J0004	0 1/10W	1	
	LB1601	D0GBR00J0004	0 1/10W	1	
	LB51016	D0GBR00J0004	0 1/10W	1	
	LB54005	D0GBR00J0004	0 1/10W	1	
			RESISTORS		
	K7202	D0GB101JA065	100 1/10W	1	
	K7701	D0GB271JA065	270 1/10W	1	
	K7702	D0GB271JA065	270 1/10W	1	
	K7703	D0GB271JA065	270 1/10W	1	
⚠	R1006	ERJ8GEYJ155V	1.5M 1/4W	1	
⚠	R1007	ERJ8GEYJ155V	1.5M 1/4W	1	
	R1021	D0GZR33JA027	33 1W	1	
	R1022	D0GZR33JA027	33 1W	1	
	R1024	D0GB562JA065	5.6K 1/10W	1	
	R1030	D0GD4R7JA017	4.7 1/8W	1	
	R1032	ERJ14YJ221U	220 1/8W	1	
	R1101	D0GB332JA065	3.3K 1/10W	1	
	R1102	D0GB223JA065	22K 1/10W	1	
	R1103	D0GB103JA065	10K 1/10W	1	
	R1109	D0GB222JA065	2.2K 1/10W	1	
	R1110	D0GB103JA065	10K 1/10W	1	
	R1111	D0GB152JA065	1.5K 1/10W	1	
	R1112	D0GB821JA065	820 1/10W	1	
	R1113	D0GB394JA008	390K 1/10W	1	
	R1114	D1BB2700A074	270 1/10W	1	
	R1115	D1BB1202A074	12K 1/10W	1	
	R1116	D1BB4702A074	47K 1/10W	1	
	R1503	D0GF330JA048	33 1/4W	1	
	R1504	D0GF390JA048	39 1/4W	1	
	R1505	D0GB473JA065	47K 1/10W	1	
	R1507	D0GB122JA065	1.2K 1/10W	1	
	R1601	D0GB122JA065	1.2K 1/10W	1	
	R1603	D0GB332JA065	3.3K 1/10W	1	
	R1604	D0GB332JA065	3.3K 1/10W	1	
	R1605	D0GB472JA065	4.7K 1/10W	1	
	R1606	D0GB752JA065	7.5K 1/10W	1	
	R1607	D0GB122JA065	1.2K 1/10W	1	
	R1608	D0GB122JA065	1.2K 1/10W	1	
	R1609	D0GB222JA065	2.2K 1/10W	1	
	R1610	D0GB332JA065	3.3K 1/10W	1	
	R1611	D0GB472JA065	4.7K 1/10W	1	
	R1612	D0GB561JA065	560 1/10W	1	
	R1613	D0GB221JA065	220 1/10W	1	
	R7111	D0GB103JA065	10K 1/10W	1	
	R7151	D0GBR00J0004	0 1/10W	1	
	R7158	D0GB330JA065	33 1/10W	1	
	R7173	D0GB101JA065	100 1/10W	1	
	R7176	D0GB101JA065	100 1/10W	1	
	R7205	D0GB102JA065	1K 1/10W	1	
	R7207	D0GB103JA065	10K 1/10W	1	
	R7208	D0GBR00J0004	0 1/10W	1	
	R7211	D0GB823JA065	82K 1/10W	1	
	R7212	D0GB821JA065	820 1/10W	1	
	R7213	D0GB272JA065	2.7K 1/10W	1	
	R7214	D0GB471JA065	470 1/10W	1	
	R7217	D0GB102JA065	1K 1/10W	1	
	R7218	D0GB102JA065	1K 1/10W	1	
	R7220	D0GB105JA065	1M 1/10W	1	
	R7221	D0GB101JA065	100 1/10W	1	
	R7253	D0GB101JA065	100 1/10W	1	
	R7254	D0GB102JA065	1K 1/10W	1	
	R7255	D0GB103JA065	10K 1/10W	1	
	R7262	D0GB101JA065	100 1/10W	1	
	R7264	D0GB101JA065	100 1/10W	1	
	R7265	D0GB101JA065	100 1/10W	1	
	R7266	D0GB101JA065	100 1/10W	1	
	R7267	D0GB102JA065	1K 1/10W	1	
	R7315	D0GB102JA065	1K 1/10W	1	
	R7321	D0GB152JA065	1.5K 1/10W	1	
	R7322	D0GB562JA065	5.6K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R7323	D0GB332JA065	3.3K 1/10W	1	
	R7325	D0GB101JA065	100 1/10W	1	
	R7327	D0GB562JA065	5.6K 1/10W	1	
	R7328	D0GB273JA065	27K 1/10W	1	
	R7329	D0GB472JA065	4.7K 1/10W	1	
	R7331	D0GB473JA065	47K 1/10W	1	
	R7332	D0GB123JA065	12K 1/10W	1	
	R7335	D0GB101JA065	100 1/10W	1	
	R7336	D0GB100JA065	10 1/10W	1	
	R7341	D0GB122JA065	1.2K 1/10W	1	
	R7349	D0GB104JA065	100K 1/10W	1	
	R7504	D0GB222JA065	2.2K 1/10W	1	
	R7505	D0GB222JA065	2.2K 1/10W	1	
	R7601	D0GB4R7JA065	4.7 1/10W	1	
	R7650	D0GB5R6JA065	5.6 1/10W	1	
	R7702	D0GBR00J0004	0 1/10W	1	
	R7707	D0GBR00J0004	0 1/10W	1	
	R7712	D0GBR00J0004	0 1/10W	1	
	R7717	D0GBR00J0004	0 1/10W	1	
	R7721	D0GBR00J0004	0 1/10W	1	
	R7731	D0GBR00J0004	0 1/10W	1	
	R7761	D0GB225JA065	2.2M 1/10W	1	
	R7853	D0GB332JA065	3.3K 1/10W	1	
	R7854	D0GB332JA065	3.3K 1/10W	1	
	R7896	D0GB102JA065	1K 1/10W	1	
	R7901	D0GB330JA065	33 1/10W	1	
	R7902	D0GB330JA065	33 1/10W	1	
	R7903	D0GB223JA065	22K 1/10W	1	
	R7904	D0GB223JA065	22K 1/10W	1	
	R51002	D0GB101JA065	100 1/10W	1	
	R51006	D0GB472JA065	4.7K 1/10W	1	
	R51007	D0GB224JA065	220K 1/10W	1	
	R51008	D0GB101JA065	100 1/10W	1	
	R51009	D0GB101JA065	100 1/10W	1	
	R51010	D0GB101JA065	100 1/10W	1	
	R51014	D0GB103JA065	10K 1/10W	1	
	R51021	D0GB102JA065	1K 1/10W	1	
	R51023	D0GB104JA065	100K 1/10W	1	
	R51025	D0GB104JA065	100K 1/10W	1	
	R51027	D0GB102JA065	1K 1/10W	1	
	R51028	D0GB473JA065	47K 1/10W	1	
	R51029	D0GB472JA065	4.7K 1/10W	1	
	R51030	D0GB104JA065	100K 1/10W	1	
	R51031	D0GB101JA065	100 1/10W	1	
	R51032	D0GB473JA065	47K 1/10W	1	
	R51033	D0GB101JA065	100 1/10W	1	
	R51034	D0GB472JA065	4.7K 1/10W	1	
	R51035	D0GB472JA065	4.7K 1/10W	1	
	R51038	D0GB101JA065	100 1/10W	1	
	R51040	D0GB101JA065	100 1/10W	1	
	R51041	D0GB101JA065	100 1/10W	1	
	R51043	D0GB564JA065	560K 1/10W	1	
	R51044	D0GB154JA065	150K 1/10W	1	
	R51046	D0GB103JA065	10K 1/10W	1	
	R51047	D0GB103JA065	10K 1/10W	1	
	R51048	D0GB104JA065	100K 1/10W	1	
	R51049	D0GB103JA065	10K 1/10W	1	
	R51050	D0GB472JA065	4.7K 1/10W	1	
	R51051	D0GB104JA065	100K 1/10W	1	
	R51052	D0GB104JA065	100K 1/10W	1	
	R51053	D0GB101JA065	100 1/10W	1	
	R51054	D0GB101JA065	100 1/10W	1	
	R51055	D0GB103JA065	10K 1/10W	1	
	R51058	D0GB101JA065	100 1/10W	1	
	R51068	D0GB101JA065	100 1/10W	1	
	R54010	D0GB101JA065	100 1/10W	1	
	R54012	D0GB103JA065	10K 1/10W	1	
	R54013	D0GB563JA065	56K 1/10W	1	
	R55005	D0GB332JA065	3.3K 1/10W	1	
	R55006	D0GB473JA065	47K 1/10W	1	
	R55007	D0GB152JA065	1.5K 1/10W	1	
	R58000	D0GB334JA008	330K 1/10W	1	
	R58001	D0GB104JA008	100K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R58130	ERJ3RBD153V	15K 1/16W	1	
	R58131	D0HB152ZA002	1.5K 1/16W	1	
	R58132	ERJ3RBD333V	33K 1/16W	1	
	R58134	D0GB100JA008	10 1/10W	1	
	R58150	D0GB473JA008	47K 1/10W	1	
	R58151	D0GB103JA008	10K 1/10W	1	
	R58160	D0GB473JA008	47K 1/10W	1	
	R58161	D0GB103JA008	10K 1/10W	1	
	R58230	ERJ3RBD103V	10K 1/16W	1	
	R58231	D0HB102ZA002	1K 1/16W	1	
	R58232	ERJ3RBD563V	56K 1/16W	1	
	R58233	D0GB330JA008	33 1/10W	1	
	R58250	ERJ3RBD473V	47K 1/16W	1	
	R58251	D0HB102ZA002	1K 1/16W	1	
	R58330	ERJ3RBD103V	10K 1/16W	1	
	R58331	D0HB102ZA002	1K 1/16W	1	
	R58332	ERJ3RBD563V	56K 1/16W	1	
	R58333	D0GB330JA008	33 1/10W	1	
	R58334	D0GAR00J0005	0 1/16W	1	
	R58430	ERJ3RBD103V	10K 1/16W	1	
	R58431	ERJ3RBD331V	330 1/16W	1	
	R58432	D0HB183ZA002	18K 1/16W	1	
	R58530	D0GB472JA008	4.7K 1/10W	1	
	R58531	D0GB472JA008	4.7K 1/10W	1	
	R58532	D0GB103JA008	10K 1/10W	1	
	R59001	ERJ3GEYF513V	51K 1/10W	1	
	R59002	ERJ3GEYF513V	51K 1/10W	1	
	R59005	ERJ3GEYF513V	51K 1/10W	1	
	R59006	ERJ3GEYF433V	43K 1/10W	1	
	R59007	ERJ3GEYF513V	51K 1/10W	1	
	R59008	ERJ3GEYF753V	75K 1/10W	1	
	R59011	D0GB562JA065	5.6K 1/10W	1	
	R59012	D0GB222JA065	2.2K 1/10W	1	
	R59013	D0GB472JA065	4.7K 1/10W	1	
	R59014	D0GB472JA065	4.7K 1/10W	1	
	R59015	D0GB562JA065	5.6K 1/10W	1	
	R59016	D0GB222JA065	2.2K 1/10W	1	
	R59017	ERJ3GEYF753V	75K 1/10W	1	
	R59018	ERJ3GEYF433V	43K 1/10W	1	
			RESISTOR NETWORKS		
	RX51001	D1H81014A042	RESISTOR NETWORK	1	
	RX51002	D1H81014A042	RESISTOR NETWORK	1	
	RX51003	D1H81014A042	RESISTOR NETWORK	1	
	RX51004	D1H81024A042	RESISTOR NETWORK	1	
	RX51005	D1H81524A042	RESISTOR NETWORK	1	
	RX51006	D1H81014A042	RESISTOR NETWORK	1	
	RX51007	D1H81014A042	RESISTOR NETWORK	1	
	RX51008	D1H81014A042	RESISTOR NETWORK	1	
	RX54002	D1H81024A042	RESISTOR NETWORK	1	
	RX59001	D1H84724A042	RESISTOR NETWORK	1	
			CAPACITORS		
⚠	C1001	F0CAF104A105	0.1uF	1	
⚠	C1003	F0CAF104A105	0.1uF	1	
⚠	C1005	F1BAF1020020	1000pF	1	
⚠	C1006	F1BAF1020020	1000pF	1	
	C1014	F2B2G4700004	47uF 400V	1	
⚠	C1018	F1BAF471A013	470pF	1	
	C1021	F1A3D470A010	47pF 2000V	1	
	C1022	F2A1H100A454	10uF 50V	1	
	C1023	F1H1H103A219	0.01uF 50V	1	
	C1024	F1H1H391A889	390pF 50V	1	
	C1025	F1H1E2240008	0.22uF 25V	1	
	C1101	F1H1C104A041	0.1uF 16V	1	
	C1109	F1H1H332A219	3300pF 50V	1	
	C1114	F1H1H102A219	1000pF 50V	1	
	C1118	F2A1C1020095	1000uF 16V	1	
	C1403	F1H1H102A831	1000pF 50V	1	
	C1404	F1H1H102A831	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1405	F1H1H102A831	1000pF 50V	1	
	C1407	F1H1A105A036	1uF 10V	1	
	C1501	F1J1E105A171	1uF 25V	1	
	C1502	F1J1E105A171	1uF 25V	1	
	C1503	F1J1V1050001	1uF 35V	1	
	C1504	F2A1H1R0A013	1.0uF 50V	1	
	C1505	F1J1E105A171	1uF 25V	1	
	C1506	F1H1H104A013	0.1uF 50V	1	
	C7003	F1J1H101A619	100pF 50V	1	
	C7007	F1H1H101A889	100pF 50V	1	
	C7031	F1H1H101A889	100pF 50V	1	
	C7102	F1H1A474A107	0.47uF 10V	1	
	C7107	F1H1H223B047	0.022uF 50V	1	
	C7142	F1H1H332B047	3300pF 50V	1	
	C7150	F1H1C104A120	0.1uF 16V	1	
	C7151	F1H1C104A120	0.1uF 16V	1	
	C7152	F1G1A1040006	0.1uF 10V	1	
	C7154	F1H1C104A120	0.1uF 16V	1	
	C7155	F1H1A105A113	1uF 10V	1	
	C7156	F1H1A105A113	1uF 10V	1	
	C7157	F1H1H103B047	0.01uF 50V	1	
	C7158	F1H1C104A120	0.1uF 16V	1	
	C7159	F1H1C104A120	0.1uF 16V	1	
	C7160	F1H1C104A120	0.1uF 16V	1	
	C7161	F1G1A1040006	0.1uF 10V	1	
	C7162	F1G1A1040006	0.1uF 10V	1	
	C7163	F1G1A1040006	0.1uF 10V	1	
	C7166	F1H1H103B047	0.01uF 50V	1	
	C7204	F1H1H103B047	0.01uF 50V	1	
	C7205	F1H1H270B052	27pF 50V	1	
	C7206	F1H1H270B052	27pF 50V	1	
	C7207	F1J1A106A041	10uF 10V	1	
	C7208	F1J1A106A041	10uF 10V	1	
	C7213	F1H1A334A028	0.33uF 10V	1	
	C7216	F1H1H681A885	680pF 50V	1	
	C7217	F1G1A1040006	0.1uF 10V	1	
	C7218	F1H1C823A178	0.082uF 16V	1	
	C7223	F1J1A106A041	10uF 10V	1	
	C7225	F1H1H102B047	1000pF 50V	1	
	C7226	F1H1H102B047	1000pF 50V	1	
	C7230	F1H1H103B047	0.01uF 50V	1	
	C7233	F1H1H103B047	0.01uF 50V	1	
	C7234	F1H1C104A120	0.1uF 16V	1	
	C7235	F1J1A106A041	10uF 10V	1	
	C7236	F1J1A106A041	10uF 10V	1	
	C7237	F1G1A1040006	0.1uF 10V	1	
	C7238	F1H1C104A120	0.1uF 16V	1	
	C7239	F1J1A106A041	10uF 10V	1	
	C7241	F1H1H102B047	1000pF 50V	1	
	C7243	D0GBR00J0004	0 1/10W	1	
	C7244	F1H1H153B047	0.015uF 50V	1	
	C7253	D0GBR00J0004	0 1/10W	1	
	C7263	F1G1A1040006	0.1uF 10V	1	
	C7264	F1G1A1040006	0.1uF 10V	1	
	C7265	F1G1A1040006	0.1uF 10V	1	
	C7267	F1G1A1040006	0.1uF 10V	1	
	C7268	F1H1H103B047	0.01uF 50V	1	
	C7269	F1H1A105A113	1uF 10V	1	
	C7315	F1H1A154A107	0.15uF 10V	1	
	C7334	F2G1A101A019	100uF 10V	1	
	C7335	F1H1H103B047	0.01uF 50V	1	
	C7338	F1H1H153B047	0.015uF 50V	1	
	C7339	F1H1H182A219	1800pF 50V	1	
	C7341	F1J1A106A041	10uF 10V	1	
	C7352	F1H1H122B047	1200pF 50V	1	
	C7367	F1H1A105A113	1uF 10V	1	
	C7368	F1H1H103B047	0.01uF 50V	1	
	C7501	D0GBR00J0004	0 1/10W	1	
	C7502	F1H1H103B047	0.01uF 50V	1	
	C7601	F1J1A106A041	10uF 10V	1	
	C7613	F1G1A1040006	0.1uF 10V	1	
	C7615	F1J1A106A041	10uF 10V	1	
	C7616	F1J1A106A041	10uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C7626	F1J1A106A041	10uF 10V	1	
	C7670	F1H1H103B047	0.01uF 50V	1	
	C7725	F1G1H100A565	10pF 50V	1	
	C7735	F1G1H100A565	10pF 50V	1	
	C7741	F1H1H103B047	0.01uF 50V	1	
	C7752	F1H1H103B047	0.01uF 50V	1	
	C7753	F1J1A106A041	10uF 10V	1	
	C7754	F1J1A106A041	10uF 10V	1	
	C7755	F1J1A106A041	10uF 10V	1	
	C7851	F1H1H103B047	0.01uF 50V	1	
	C7853	F1H1H101A889	100pF 50V	1	
	C51001	F1H1H220A889	22pF 50V	1	
	C51002	F1H1H180A889	18pF 50V	1	
	C51003	F1H1C104A120	0.1uF 16V	1	
	C51004	F1H1C104A120	0.1uF 16V	1	
	C51005	F2G1A3300007	33uF 10V	1	
	C51006	F1H1A224A061	0.22uF 10V	1	
	C51007	F1H1A105A028	1uF 10V	1	
	C51008	F1H1C104A120	0.1uF 16V	1	
	C51009	F1H1H102A885	1000pF 50V	1	
	C51010	F1H1H331A885	330pF 50V	1	
	C51012	F1H1H223A219	0.022uF 50V	1	
	C51013	F1H1C104A120	0.1uF 16V	1	
	C51014	F1H1C104A120	0.1uF 16V	1	
	C51015	F1H1H102A885	1000pF 50V	1	
	C51016	F1H1H102A885	1000pF 50V	1	
	C51018	F1H1H102A885	1000pF 50V	1	
	C51019	F1H1H102A885	1000pF 50V	1	
	C51020	F1H1C104A120	0.1uF 16V	1	
	C51024	F1G1A1040006	0.1uF 10V	1	
	C54003	F1H1A105A028	1uF 10V	1	
	C54004	F1H1A105A028	1uF 10V	1	
	C54005	F1H1E104A029	0.1uF 25V	1	
	C54006	F1H1E104A029	0.1uF 25V	1	
	C54007	F1H1E104A029	0.1uF 25V	1	
	C54008	F1H1E104A029	0.1uF 25V	1	
	C54010	F1H1C104A041	0.1uF 16V	1	
	C54011	F1H1H102A831	1000pF 50V	1	
	C55001	F1H1H102A831	1000pF 50V	1	
	C55002	F1J1A106A043	10uF 10V	1	
	C55003	F1H1H223A219	0.022uF 50V	1	
	C55004	F1H1H223A219	0.022uF 50V	1	
	C58000	F1H1H102A219	1000pF 50V	1	
	C58110	F1J1C1060001	10uF 16V	1	
	C58120	F1J0J106A014	10uF 6.3V	1	
	C58121	F1J0J106A014	10uF 6.3V	1	
	C58130	F1H1A105A036	1uF 10V	1	
	C58131	F1H1H221A219	220pF 50V	1	
	C58132	F1H1H100A831	10pF 50V	1	
	C58150	F1H1C104A041	0.1uF 16V	1	
	C58160	F1H1C104A041	0.1uF 16V	1	
	C58210	F1J1C1060001	10uF 16V	1	
	C58211	F1J1C1060001	10uF 16V	1	
	C58212	F1H1E104A002	0.1uF 25V	1	
	C58220	F1H1C104A071	0.1uF 16V	1	
	C58221	F1J0J106A014	10uF 6.3V	1	
	C58222	F1J0J106A014	10uF 6.3V	1	
	C58223	F1J0J106A014	10uF 6.3V	1	
	C58230	F1H1A105A028	1uF 10V	1	
	C58231	F1H1H102A219	1000pF 50V	1	
	C58232	F1H1E104A002	0.1uF 25V	1	
	C58233	F1H1H4700006	47pF 50V	1	
	C58250	F1J0J106A014	10uF 6.3V	1	
	C58251	F1J0J106A014	10uF 6.3V	1	
	C58310	F1J1C1060001	10uF 16V	1	
	C58311	F1J1C1060001	10uF 16V	1	
	C58312	F1H1E104A002	0.1uF 25V	1	
	C58320	F1H1C104A071	0.1uF 16V	1	
	C58321	F1J0J106A014	10uF 6.3V	1	
	C58322	F1J0J106A014	10uF 6.3V	1	
	C58323	F1J0J106A014	10uF 6.3V	1	
	C58330	F1H1A105A028	1uF 10V	1	
	C58331	F1H1H103A219	0.01uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C58332	F1H1E104A002	0.1uF 25V	1	
	C58333	F1H1H4700006	47pF 50V	1	
	C58350	F1J0J106A014	10uF 6.3V	1	
	C58351	F1J0J106A014	10uF 6.3V	1	
	C58352	F1J0J106A014	10uF 6.3V	1	
	C58353	F1J0J106A014	10uF 6.3V	1	
	C58354	F1J0J106A014	10uF 6.3V	1	
	C58411	F1K1E1060001	10uF 25V	1	
	C58420	F1J1C1060001	10uF 16V	1	
	C59001	F1H1C104A041	0.1uF 16V	1	
	C59002	F1H1C104A041	0.1uF 16V	1	
	C59003	F1H1H102A831	1000pF 50V	1	
	C59501	F1G1C104A077	0.1uF 16V	1	
	C59502	F1G1C104A077	0.1uF 16V	1	
			SERVICE FIXTURE AND TOOLS		
	SFT1	REX1538	7P WIRE (MAIN - SMPS)	1	
	SFT2	REE1712	30P FFC (MAIN - CD SERVO)	1	

20.2.2. Speaker Unit (SB-NE5)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUITS BOARDS		
	PCB1	REP4846HA	SPK MAIN (DIGI-NET) P.C.B.	1	(RTL)
	PCB2	REP4846HA	SPK MAIN (MICON) P.C.B.	1	(RTL)
	PCB3	REP4846HA	SPK MAIN (DAMP) P.C.B.	1	(RTL)
	PCB4	REP4846HB	SPK PANEL P.C.B.	1	(RTL)
	PCB5	REP4846HE	SPK AirPlay ANTENNA P.C.B.	1	(RTL)
	PCB6	REP4846HF	SPK LED P.C.B.	1	(RTL)
⚠	PCB7	REP4848F	SPK SMPS P.C.B.	1	(RTL)
	PCB8	REP4912B	SPK BLUETOOTH MODULE P.C.B. (RECEIVER)	1	
	PCB9	REP4772A	SPK AirPlay CON-NECT P.C.B.	1	(RTL)
	PCB10	N5HBZ0000103	SPK AirPlay MOD-ULE P.C.B.	1	
			INTEGRATED CIRCUITS		
	IC801	C0DBGYY01654	IC	1	(E.S.D)
	IC802	C0DBGYY01640	IC	1	(E.S.D)
	IC1700	C0DACYY00012	IC	1	(E.S.D)
	IC1701	C0DBZMC00006	IC	1	(E.S.D)
	IC51001	C0EBY0000861	IC	1	(E.S.D)
	IC51002	RFKWMNE5PSM	IC	1	(E.S.D)
	IC51003	C3EBEY000037	IC	1	(E.S.D)
	IC51004	MFI337S3959	IC	1	(E.S.D)
	IC51005	C0JBAZ002762	IC	1	(E.S.D)
	IC52001	VUEALLPT059	IC	1	(E.S.D) , [SPG]
	IC54001	C1AB00003800	IC	1	(E.S.D)
	IC54006	C0JBAZ000851	IC	1	(E.S.D)
	IC58100	C0DBEYY00146	IC	1	(E.S.D)
	IC58200	C0DBAYY01094	IC	1	(E.S.D)
	IC58300	C0DBAYY01685	IC	1	(E.S.D)
	IC58360	C0DBGYY03252	IC	1	(E.S.D)
	IC58800	C0DBEYY00146	IC	1	(E.S.D)
			TRANSISTORS		
	Q1501	DSC200200L	TRANSISTOR	1	(E.S.D)
	Q1502	DSA200200L	TRANSISTOR	1	(E.S.D)
	Q1601	DSA200100L	TRANSISTOR	1	(E.S.D)
	Q1602	DSA200100L	TRANSISTOR	1	(E.S.D)
	Q1700	B1ABGC000001	TRANSISTOR	1	(E.S.D)
	Q1701	DSA500100L	TRANSISTOR	1	(E.S.D)
	Q54001	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q54002	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q54003	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q54004	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q54006	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q58000	B1CHRC000047	TRANSISTOR	1	(E.S.D)
	Q58240	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q58250	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q58340	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q58350	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	QR1601	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)
	QR1602	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)
	QR1700	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	QR58000	B1GBCFGG0024	TRANSISTOR	1	(E.S.D)
	QR58001	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR58240	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR58250	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR58340	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	QR58350	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
			DIODES		
	D801	B0ECKM000008	DIODE	1	(E.S.D)
	D1502	B0JCMD000066	DIODE	1	(E.S.D)
	D1503	B0JCMD000066	DIODE	1	(E.S.D)
	D1504	B0JCMD000066	DIODE	1	(E.S.D)
	D1506	B0JCMD000066	DIODE	1	(E.S.D)
	D1507	DZ2J05100L	DIODE	1	(E.S.D)
	D1606	B3AKA0000022	DIODE	1	(E.S.D)
	D1700	B0ABSM000008	DIODE	1	(E.S.D)
	D1701	B0EBNR000049	DIODE	1	(E.S.D)
	D1702	DZ2J075M0L	DIODE	1	(E.S.D)
	D1703	B0EAKT000063	DIODE	1	(E.S.D)
	D1708	DA22F2100L	DIODE	1	(E.S.D)
	D1709	DZ2J330M0L	DIODE	1	(E.S.D)
	D1710	DZ2W22000L	DIODE	1	(E.S.D)
	D58000	DA2J10100L	DIODE	1	(E.S.D)
	D58001	DA2J10100L	DIODE	1	(E.S.D)
	D58006	DZ2J062M0L	DIODE	1	(E.S.D)
	D58012	DZ2J130M0L	DIODE	1	(E.S.D)
	D58200	B0JCND000021	DIODE	1	(E.S.D)
			VARISTOR		
	VA52001	EZAEG2A50AX	VARISTOR	1	
			SWITCHES		
	S1501	EVQ21405R	SW WPS	1	
	S1502	EVQ21405R	SW VOLUME +	1	
	S1503	EVQ21405R	SW VOLUME -	1	
	S1504	EVQ21405R	SW POWER	1	
	S1505	EVQ21405R	SW SELECTOR	1	
			CONNECTORS		
	CN1501	K1MN12A00011	12P CONNECTOR	1	
	CN1651	K1KA04BA0061	4P CONNECTOR	1	
	CN51001	K1MN12A00011	12P CONNECTOR	1	
	CN51002	K1MN20A00013	20P CONNECTOR	1	
	CN51003	K1MN06C00005	6P CONNECTOR	1	
	CN51004	K1KA04AA0193	4P CONNECTOR	1	
	CN51006	K1MY12AA0021	12P CONNECTOR	1	
	CN54001	K1KA02AA0180	2P CONNECTOR	1	
	CN54002	K1KA03AA0180	3P CONNECTOR	1	
	CN58001	K1KB07AA0076	7P CONNECTOR	1	
	P800	K3ZZ04800002	AirPlay CONNec-TOR	1	
	P801	K1MN20B00019	20P CONNECTOR	1	
	P1700	K1KA07BA0117	7P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1700	J0JHC0000048	INDUCTOR	1	
⚠	L1702	G0B183E00004	LINE FILTER	1	
	L52001	G1CR18JA0020	INDUCTOR	1	
	L54001	G1C150MA0426	INDUCTOR	1	
	L54002	G1C150MA0426	INDUCTOR	1	
	L54003	G1C150MA0426	INDUCTOR	1	
	L54004	G1C150MA0426	INDUCTOR	1	
	L58200	G1C4R7Z00014	INDUCTOR	1	
	L58300	G1C1R0ZA0379	INDUCTOR	1	
	LB801	J0JFC0000007	INDUCTOR	1	
	LB802	J0JHC0000107	INDUCTOR	1	
	LB803	J0JFC0000007	INDUCTOR	1	
	LB804	J0JFC0000007	INDUCTOR	1	
	LB805	J0JFC0000007	INDUCTOR	1	
	LB806	J0JFC0000007	INDUCTOR	1	
	LB807	J0JFC0000007	INDUCTOR	1	
	LB808	J0JFC0000007	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB809	J0JFC0000007	INDUCTOR	1	
	LB810	J0JHC0000107	INDUCTOR	1	
	LB811	J0JFC0000007	INDUCTOR	1	
	LB812	J0JHC0000107	INDUCTOR	1	
	LB813	J0JHC0000107	INDUCTOR	1	
	LB814	J0JHC0000107	INDUCTOR	1	
	LB815	J0JHC0000107	INDUCTOR	1	
	LB816	J0JHC0000107	INDUCTOR	1	
	LB51007	J0JYC0000070	INDUCTOR	1	
	LB51042	J0JAC0000018	INDUCTOR	1	
	LB51043	J0JAC0000018	INDUCTOR	1	
	LB52001	J0JBC0000010	INDUCTOR	1	
	LB52002	J0JYC0000118	INDUCTOR	1	
	LB54001	J0JHC0000046	INDUCTOR	1	
	LB54002	J0JHC0000046	INDUCTOR	1	
	LB54003	J0JBC0000010	INDUCTOR	1	
	LB54004	J0JBC0000010	INDUCTOR	1	
	LB54006	J0JHC0000094	INDUCTOR	1	
	LB54007	J0JHC0000094	INDUCTOR	1	
	LB54008	J0JHC0000094	INDUCTOR	1	
	LB54009	J0JHC0000094	INDUCTOR	1	
	LB54010	J0JAC0000018	INDUCTOR	1	
	LB54011	J0JAC0000018	INDUCTOR	1	
	LB54013	J0JAC0000018	INDUCTOR	1	
	LB54014	J0JBC0000010	INDUCTOR	1	
	LB54015	J0JBC0000010	INDUCTOR	1	
	LB58200	J0JHC0000046	INDUCTOR	1	
	LB58300	J0JHC0000046	INDUCTOR	1	
			TRANSFORMER		
⚠	T1700	G4DYZ0000059	TRANSFORMER	1	
			VARISTOR		
⚠	Z1752	ERZE08A471CS	VARISTOR	1	
			PHOTO COUPLER		
⚠	PC1701	B3PBA0000503	PHOTO COUPLER	1	
			TERMINALS		
	ZJ1701	K4CZ01000027	TERMINAL	1	
	ZJ1702	K4CZ01000027	TERMINAL	1	
			OSCILLATORS		
	X51001	H2B800400007	OSCILLATOR	1	
	X51002	H0A327200181	OSCILLATOR	1	
	X54001	H0J245500110	OSCILLATOR	1	
			LCD DISPLAY		
	DP1501	A2BB00000186	LCD DISPLAY	1	
			FUSE		
⚠	F1	K5G202Y00006	FUSE	1	
			JACKS		
	JK51001	K2HC1YYB0033	JK SYSTEM CONTROL	1	
	JK52001	K4ZZ020000103	FM ANTENNA	1	
	JK53010	K1QZA1AD0014	AM ANTENNA	1	
	JK54001	K2HC1YYB0032	JK AUX/SYSTEM PORT	1	
⚠	P1751	K2AA2B000011	AC INLET	1	
			REMOTE SENSOR		
	IR1501	B3RAB0000109	REMOTE SENSOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			RESISTORS		
	R800	D0GB473JA008	47K 1/10W	1	
	R1503	D0GB122JA065	1.2K 1/10W	1	
	R1504	D0GB122JA065	1.2K 1/10W	1	
	R1505	D0GB473JA065	47K 1/10W	1	
	R1507	D0GB122JA065	1.2K 1/10W	1	
	R1509	D0GB122JA065	1.2K 1/10W	1	
	R1511	D0GB332JA065	3.3K 1/10W	1	
	R1512	D0GF330JA048	33 1/4W	1	
	R1513	D0GF390JA048	39 1/4W	1	
	R1601	D0GB472JA065	4.7K 1/10W	1	
	R1602	D0GB473JA065	47K 1/10W	1	
	R1603	D0GB221JA065	220 1/10W	1	
	R1604	D0GB472JA065	4.7K 1/10W	1	
	R1605	D0GB473JA065	47K 1/10W	1	
	R1606	D0GB221JA065	220 1/10W	1	
	R1607	D0GB391JA065	390 1/10W	1	
	R1608	D0GB391JA065	390 1/10W	1	
	R1700	D0GD4R7JA017	4.7 1/8W	1	
	R1701	D0GB152JA065	1.5K 1/10W	1	
	R1702	D0GB682JA065	6.8K 1/10W	1	
	R1703	D0GB332JA065	3.3K 1/10W	1	
	R1704	ERJ1TYJ333U	33K 1W	1	
	R1705	D0GB103JA065	10K 1/10W	1	
	R1706	D0GB223JA065	22K 1/10W	1	
	R1707	D0GB103JA065	10K 1/10W	1	
	R1708	ERJ1TYJ220U	22 1W	1	
	R1710	D1BB4702A074	47K 1/10W	1	
	R1711	D0GB103JA065	10K 1/10W	1	
	R1716	D0GB394JA008	390K 1/10W	1	
	R1717	D0GB122JA065	1.2K 1/10W	1	
	R1718	ERX2SJR22P	0.22 2W	1	
⚠	R1724	ERJ12YJ105U	1M 1/2W	1	
	R1725	D0GB223JA065	22K 1/10W	1	
⚠	R1726	ERJ12YJ105U	1M 1/2W	1	
	R1727	D0GB104JA065	100K 1/10W	1	
	R1728	D0HB822ZA002	8.2K 1/16W	1	
	R1729	D0GD220JA017	22 1/8W	1	
	R1730	D1BB6801A074	6.8K 1/10W	1	
	R51001	D0GB472JA065	4.7K 1/10W	1	
	R51002	D0GB103JA065	10K 1/10W	1	
	R51003	D0GB104JA065	100K 1/10W	1	
	R51004	D0GB103JA065	10K 1/10W	1	
	R51005	D0GB103JA065	10K 1/10W	1	
	R51006	D0GB473JA065	47K 1/10W	1	
	R51008	D0GB101JA065	100 1/10W	1	
	R51009	D0GB101JA065	100 1/10W	1	
	R51010	D0GB101JA065	100 1/10W	1	
	R51011	D0GB101JA065	100 1/10W	1	
	R51012	D0GB101JA065	100 1/10W	1	
	R51013	D0GB101JA065	100 1/10W	1	
	R51014	D0GB101JA065	100 1/10W	1	
	R51016	D0GB101JA065	100 1/10W	1	
	R51017	D0GB224JA065	220K 1/10W	1	
	R51018	D0GB101JA065	100 1/10W	1	
	R51019	D0GB104JA065	100K 1/10W	1	
	R51020	D0GB103JA065	10K 1/10W	1	
	R51021	D0GB103JA065	10K 1/10W	1	
	R51022	D0GB104JA065	100K 1/10W	1	
	R51023	D0GB822JA065	8.2K 1/10W	1	
	R51024	D0GB154JA065	150K 1/10W	1	
	R51025	D0GB101JA065	100 1/10W	1	
	R51026	D0GB104JA065	100K 1/10W	1	
	R51027	D0GB101JA065	100 1/10W	1	
	R51028	D0GB101JA065	100 1/10W	1	
	R51030	D0GB101JA065	100 1/10W	1	
	R51032	D0GB101JA065	100 1/10W	1	
	R51033	D0GB101JA065	100 1/10W	1	
	R51034	D0GB101JA065	100 1/10W	1	
	R51035	D0GB101JA065	100 1/10W	1	
	R51036	D0GB101JA065	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1716	F1H1H103B047	0.01uF 50V	1	
	C1717	F2B2G4700004	47uF 400V	1	
	C1719	F1H1E4740005	0.47uF 25V	1	
	C1720	F1A3D100A009	10pF 2000V	1	
⚠	C1725	F0CAF154A105	0.15uF	1	
⚠	C1727	F1BAF1020020	1000pF	1	
⚠	C1728	F1BAF1020020	1000pF	1	
	C51002	F2A1A330A010	33uF 10V	1	
	C51003	F1H1H220A889	22pF 50V	1	
	C51004	F1H1H180A889	18pF 50V	1	
	C51005	F1H1H1010005	100pF 50V	1	
	C51006	F1H1C104A120	0.1uF 16V	1	
	C51007	F1H1C104A120	0.1uF 16V	1	
	C51008	F1H1A224A061	0.22uF 10V	1	
	C51009	F1H1H102A885	1000pF 50V	1	
	C51010	F1H1H102A885	1000pF 50V	1	
	C51011	F1H1H102A885	1000pF 50V	1	
	C51012	F1H1C104A120	0.1uF 16V	1	
	C51013	F1H1H102A885	1000pF 50V	1	
	C51014	F1H1C104A120	0.1uF 16V	1	
	C51015	F1H1A105A028	1uF 10V	1	
	C51016	F1H1H102A885	1000pF 50V	1	
	C51022	F1H1H223A219	0.022uF 50V	1	
	C51023	F1H1C104A120	0.1uF 16V	1	
	C51024	F1G1A1040006	0.1uF 10V	1	
	C51028	F1H1C104A041	0.1uF 16V	1	
	C51029	F1H1H102A831	1000pF 50V	1	
	C51030	F1H1H472A219	4700pF 50V	1	
	C51031	F1H1H472A219	4700pF 50V	1	
	C51034	F1H1H103A219	0.01uF 50V	1	
	C52001	F1H1H102A885	1000pF 50V	1	
	C52003	F1G1C104A077	0.1uF 16V	1	
	C52004	F1G1C104A077	0.1uF 16V	1	
	C52006	F1H1H3300005	33pF 50V	1	
	C52007	F1H1H3R0A508	3pF 50V	1	
	C52008	F1H1A105A028	1uF 10V	1	
	C52009	F1H1A105A028	1uF 10V	1	
	C52010	F1H1H221A219	220pF 50V	1	
	C52011	F1H1H221A219	220pF 50V	1	
	C54001	F1H0J106A009	10uF 6.3V	1	
	C54002	F1H0J106A009	10uF 6.3V	1	
	C54003	F1H0J106A009	10uF 6.3V	1	
	C54004	F1H1H103A219	0.01uF 50V	1	
	C54005	F1H1A105A028	1uF 10V	1	
	C54006	F1H0J106A009	10uF 6.3V	1	
	C54007	F1J1E105A171	1uF 25V	1	
	C54008	F1J1E105A171	1uF 25V	1	
	C54009	F1J1E105A171	1uF 25V	1	
	C54010	F1J1E105A171	1uF 25V	1	
	C54011	F1H1H104A783	0.1uF 50V	1	
	C54012	F1H1H104A783	0.1uF 50V	1	
	C54013	F1H1H104A783	0.1uF 50V	1	
	C54014	F1H1H104A783	0.1uF 50V	1	
	C54015	F1J1H104A717	0.1uF 50V	1	
	C54016	F1J1H104A717	0.1uF 50V	1	
	C54017	F1H1C104A041	0.1uF 16V	1	
	C54018	F1H1H4700006	47pF 50V	1	
	C54019	F1H1H4700006	47pF 50V	1	
	C54020	F1J1A106A043	10uF 10V	1	
	C54021	F1J1A106A043	10uF 10V	1	
	C54022	F1H1E105A116	1uF 25V	1	
	C54026	F1H1H1200004	12pF 50V	1	
	C54027	F1H1H1500009	15pF 50V	1	
	C54028	F1H1H104A013	0.1uF 50V	1	
	C54029	F2A1E1010099	100uF 25V	1	
	C54030	F1H1H102A831	1000pF 50V	1	
	C54031	F1H1H102A831	1000pF 50V	1	
	C54032	F1H1H102A831	1000pF 50V	1	
	C54033	F1H1H102A831	1000pF 50V	1	
	C54034	F1H1H102A831	1000pF 50V	1	
	C54035	F1H1H102A831	1000pF 50V	1	
	C54036	F1H1H102A831	1000pF 50V	1	
	C54037	F1H1H102A831	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C54052	F1H1H472A219	4700pF 50V	1	
	C54053	F1H1H472A219	4700pF 50V	1	
	C54054	F1H1H102A831	1000pF 50V	1	
	C54055	F1H1H103A219	0.01uF 50V	1	
	C54056	F1H1H103A219	0.01uF 50V	1	
	C54057	F1H1H102A831	1000pF 50V	1	
	C54059	F1H1C104A041	0.1uF 16V	1	
	C58000	F1H1H102A219	1000pF 50V	1	
	C58001	F1H1C104A041	0.1uF 16V	1	
	C58002	F1H1H103A219	0.01uF 50V	1	
	C58003	F1H1A105A036	1uF 10V	1	
	C58110	F1K1E1060001	10uF 25V	1	
	C58120	F1J0J106A014	10uF 6.3V	1	
	C58210	F1K1E1060008	10uF 25V	1	
	C58211	F1H1E104A002	0.1uF 25V	1	
	C58220	F1H1C104A071	0.1uF 16V	1	
	C58221	F1J0J106A014	10uF 6.3V	1	
	C58222	F1J0J106A014	10uF 6.3V	1	
	C58223	F1J0J106A014	10uF 6.3V	1	
	C58224	F1J0J106A014	10uF 6.3V	1	
	C58230	F1H1E104A002	0.1uF 25V	1	
	C58231	F1H1H332A219	3300pF 50V	1	
	C58232	F1H1H6810005	680pF 50V	1	
	C58233	F1H1H1500009	15pF 50V	1	
	C58240	F1H1C104A041	0.1uF 16V	1	
	C58250	F1H1C104A041	0.1uF 16V	1	
	C58311	F1J0J106A014	10uF 6.3V	1	
	C58312	F1J0J106A014	10uF 6.3V	1	
	C58320	F1J0J106A014	10uF 6.3V	1	
	C58321	F1H1E104A002	0.1uF 25V	1	
	C58330	F1H1H100A831	10pF 50V	1	
	C58340	F1H1C104A041	0.1uF 16V	1	
	C58350	F1H1C104A041	0.1uF 16V	1	
	C58360	F1H1A105A028	1uF 10V	1	
	C58361	F1H1A105A028	1uF 10V	1	
	C58810	F1K1E1060001	10uF 25V	1	
	C58820	F1J1C1060001	10uF 16V	1	
			SERVICE FIXTURE AND TOOLS		
	SFT1	REX1538	7P WIRE (MAIN - SMPS)	1	

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