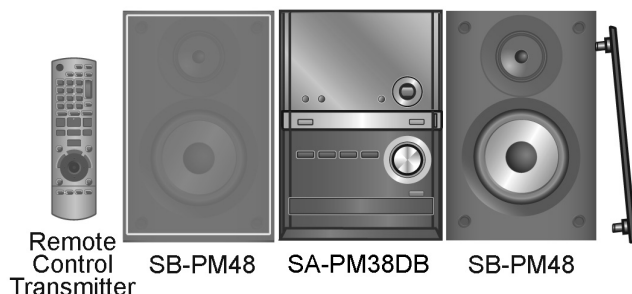


Service Manual

CD Stereo System

Model No. **SA-PM38DBEB**

Product Color: (K)...Black Type



Remote
Control
Transmitter

SB-PM48

SA-PM38DB

SB-PM48

Notes: This model's CD mechanism unit is DLS6C. Please refer to the Original Service Manual (Order No. MD0803034CE) for this mechanism.

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

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

1.1.2. Leakage Current Hot Check

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

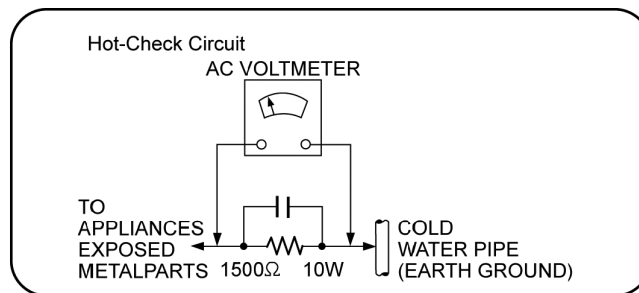


Figure. 1

1.2. Caution for AC Cord

(For “EB” area code model only.)

For your safety, please read the following text carefully.

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

A 5-ampere fuse is fitted in this plug.

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

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

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

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

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

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

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

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

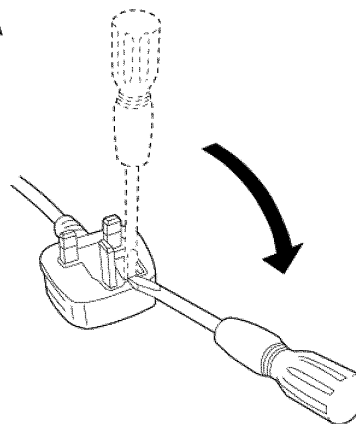
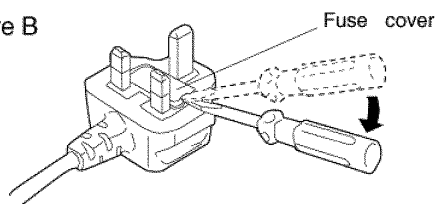


Figure B



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

Figure A

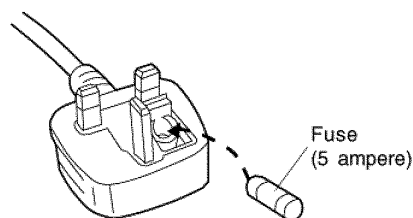
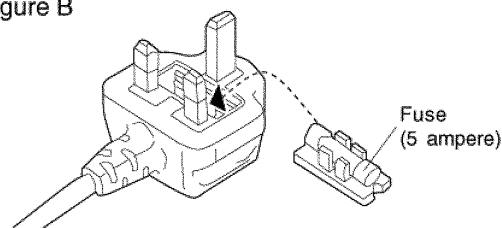


Figure B



1.3. Before Repair and Adjustment

Caution : DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

- Current consumption at AC 220 - 240V, at 50Hz in NO SIGNAL mode (at volume min in FM Tuner mode) should be ~150 mA.

1.4. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

1.5. Safety Part Information

Safety Parts List:

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

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

Table 1

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	301	RAEX0190Z-V	TRAVERSE UNIT ASS'Y	(RTL)
⚠	A2	K2CZ3YY00005	AC CORD	
⚠	A3	RQTX0190-B	O/I BOOK (En/Sp)	
⚠	A6	J0KG00000037	AC CLAMP FILTER	
⚠	PCB7	REPX0708B	TRANSFORMER P.C.B.	(RTL)
⚠	L5901	ELF15N035AN	LINE FILTER	
⚠	T5901	G4CYBYY00022	TRANSFORMER	
⚠	T5902	G4C2AAJ00005	SUB TRANSFORMER	
⚠	Z5901	ERZVA5Z471	ZNR	
⚠	RL5901	K6B1AEA00003	RELAY	
⚠	F5901	K5D102BLA013	FUSE	
⚠	FP5901	K5G502AA0002	FUSE PROTECTOR	
⚠	JK5901	K2AA2B000011	AC INLET	

2 Warning

2.1. Prevention of Electro Static 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 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 aluminium foil, to prevent electrostatic charge build up 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 remover 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, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution :

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

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

2.2. Precaution of Laser Diode

CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

Caution:

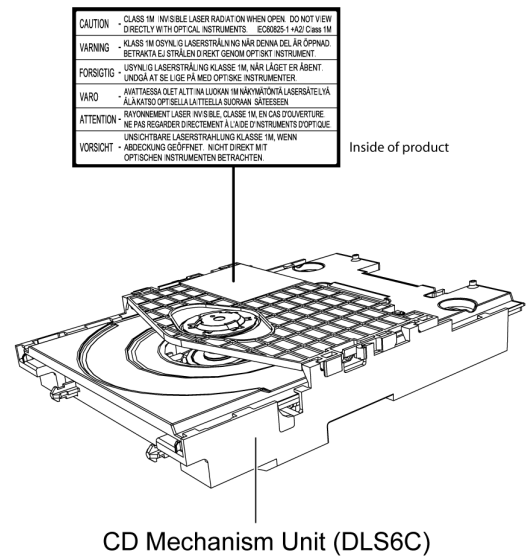
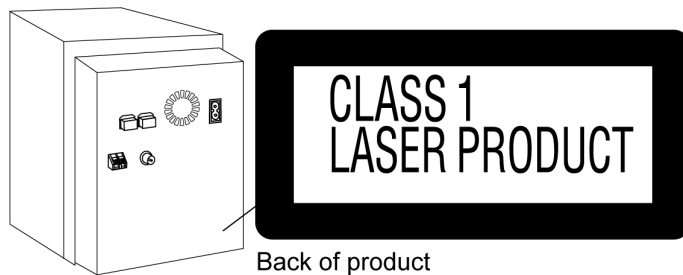
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 785 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 Unit

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

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

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

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

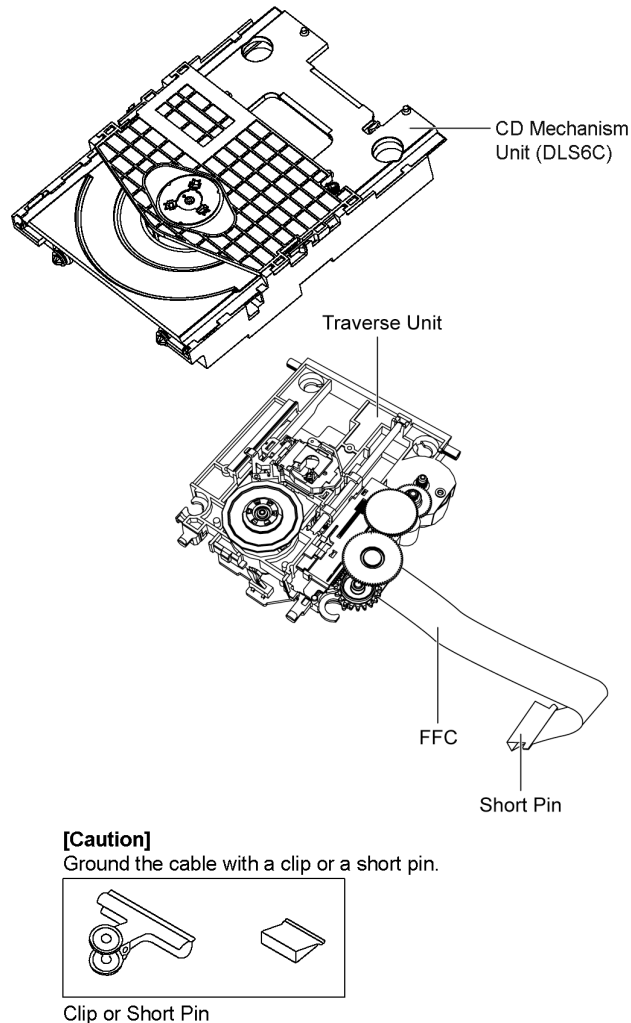


Figure 1

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).

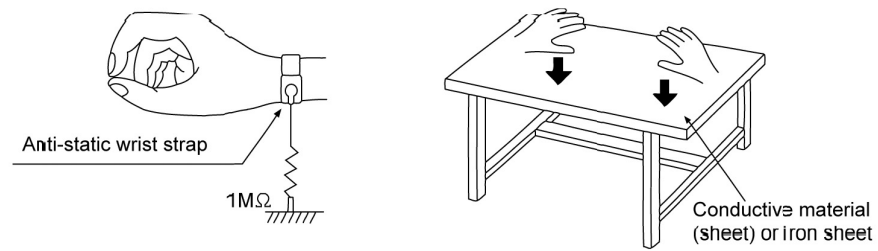


Figure 2

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.

1. CD Mechanism Unit:

- This model uses CD Mechanism Unit (DLS6C).
- This service manual does not contain the following information on CD Mechanism Unit (DLS6C).
 - CD Mechanism Unit P.C.B..
 - Parts List for individual parts of CD Mechanism Unit (DLS6C).
 - Exploded View and Part List for individual parts of CD Mechanism Unit (DLS6C).Please refer to original service manual (Order No. MD0803034CE).

2. Micro-processor:

- Micro-processor IC, (IC800) is supplied as assembled part (RFKWMPM38DB).

4 Specifications

■ Amplifier Section

RMS Output Power Stereo Mode

Front Ch (both ch driven) 20 W per channel (4 Ω),
1 kHz, 10% THD

Phone jack

Terminal Stereo, 3.5 mm

■ Tuner Section

Preset station

FM 30 stations

Frequency Modulation (FM)

Frequency range 87.50 MHz to 108.00 MHz
(50 kHz step)

Antenna terminals

75 Ω (unbalanced)

■ DAB Section

DAB memories

20 channels

Frequency Band (Wavelength)

Band III (UK Only) 11B to 12D
(218.640 MHz to 229.072 MHz)

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

Intermediate Frequency 1st: 38.912 MHz, 2nd: 2.048 MHz

Sensitivity *BER 4x10⁻²

Max input power 0dBm

Min requirement -98dBm

Selectivity

Adjacent channel (Band III) 33dB

Far-Off channel (Band III) 45dB

DAB External Antenna

Terminal F - Connector (75 Ω)

■ CD Section

Disc played [8 cm or 12 cm]

(1) CD-Audio (CD-DA)

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

(3) MP3

Pickup

Wavelength 785 nm

Laser power CLASS I (CD)

Audio output (Disc)

Number of channels FL, FR, 2 channel

■ USB Section

Supported audio file format MP3 (*.mp3)

Maximum port power 500 mA

■ General

Power supply AC 220 to 240 V, 50 Hz

Power consumption 73 W

Dimensions (W x H x D) 153 mm x 226 mm x 292 mm

Mass 2.5 kg

Operating temperature range 0°C to +40°C

Operating humidity range 35% to 80 % RH (no condensation)

Power consumption in standby mode 0.6 W (approx)

Notes :

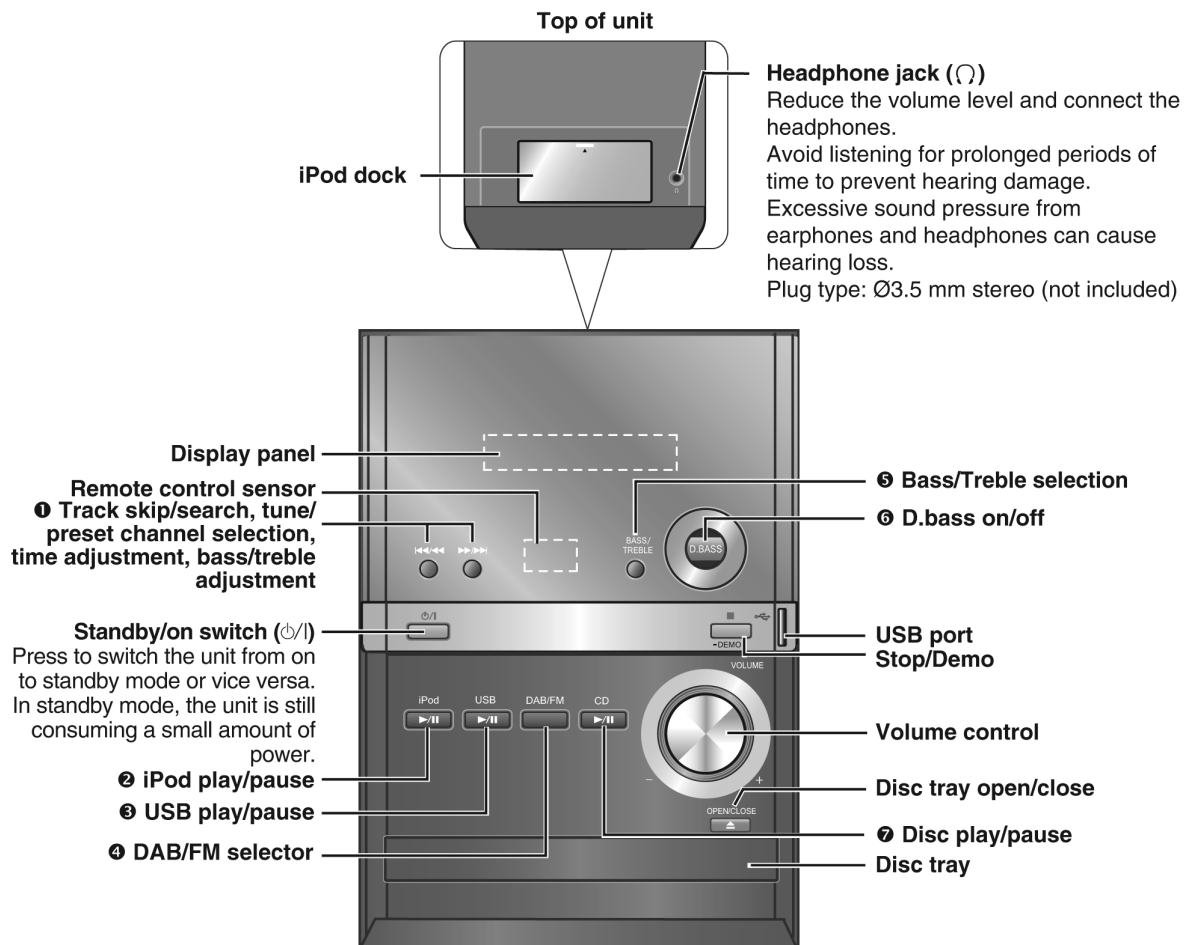
1. Specifications are subject to change without notices. Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

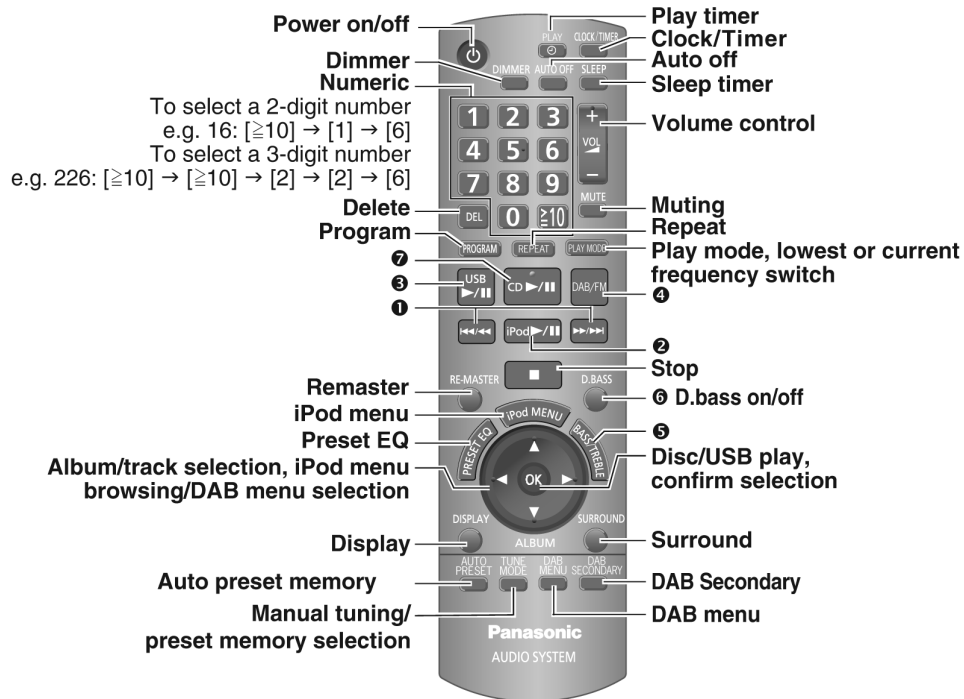
■ System : SC-PM38DBEB-K Music center: SA-PM38DBEB-K
Speaker: SB-PM48EG-K

5 Location of Controls and Components

5.1. Main Unit Key Button Operations



5.2. Remote Control Key Button Operations



6 Operating Instructions

6.1. Disc Information

Note

This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.

CD

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

Using DualDiscs

The "CD" sides of DualDiscs do not meet the CD-DA standard so it may not be possible to play them on this unit.

MP3

Files are treated as tracks and folders are treated as albums.

- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Files must have the extension: ".MP3" or ".mp3"
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with the 3-digit numbers in the order you want to play them.

7 Self diagnosis and special mode setting

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

7.1. Service Mode Summary Table

The service modes can be activated by pressing various button combination on the main unit and remote control unit.

Below is the summary for the various modes for checking:

Player buttons	Remote control unit buttons	Application	Note
■, -DEMO	[4], [7]	To Enter into Doctor Mode for various checking	(Refer to the section "7.2.1 Service Mode Table 1.)

Player buttons	Remote control unit buttons	Mode Name	Note
Note : Applicable in Doctor Mode	[DIMMER]	FL Display Test	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[7]	VOLUME setting (50dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[8]	VOLUME setting (29dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[9]	VOLUME setting (0dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [1], [1]	CD Loading Test Mode (DLS6C)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [1], [2]	CD Traverse Unit Test Mode (DLS6C)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [1], [3]	CD Combination Test Mode (DLS6C)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[SLEEP]	Cold Start	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[2]	USB Test Mode	(Refer to the section "7.2.2 service mode Table 2 for more information.)

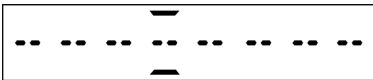
7.2. Service Mode Table

Below is the various special modes for checking:-

7.2.1. Service Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Self -Diagnostic Mode	To enter into self diagnostic checking for main unit.		1. Select [CD ▶/■] for CD mode (Ensure no CD inserted). 2. Press and hold [■, -DEMO] button for 2 seconds follow by [▶▶/▶▶]. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
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)  Version Display (DEC) Check sum (HEX) Checksum : (Condition 1)  Version Display (DEC) No Rom correction (a) If there is NO EEPROM header string OR (b) If there is no EEPROM (no data is received by micro-processor) [NO] is displayed. Checksum : (Condition 2)  If the version of the EEPROM does not match or not working properly [NG] is display. Checksum : (Condition 3)  If the EEPROM version matches, checksum [YYYY] is displayed. (Display 2)  The Checksum of EEPROM and firmware version will be display for 2 sec.	In CD mode: 1. Press [■, -DEMO] button on main unit follow by [4] and [7] on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.

7.2.2. Service Mode Table 2

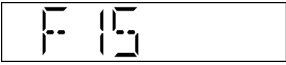
Item		FL Display	Key Operation
Mode Name	Description		Front Key
FL Display Test	To check the FL segments display (All segments will light up)		In Doctor Mode: 1. Press [DIMMER] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
Volume Setting	To check for volume setting during this mode, Bass & treble is set to 0dB & EQ is switch off.		In Doctor Mode: 1. Press [7] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
			In Doctor Mode: 2. Press [8] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
			In Doctor Mode: 3. Press [9] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
CD Loading Test Mode (DLS6C)	To determine the reliability of CD Loading unit. To check for the Open/Close operation for the CD loading unit. It fails when there is abnormality in opening or closing.	 The counter will increment by 1 until reach 99999999 ↓ 	In Doctor Mode: 1. Press [≥10], [1], [1] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
CD Traverse Unit Test Mode (DLS6C)	To check for the traverse unit operation. In this mode, the first & last track is access & read. (TOC). It fails when TOC is not completed by IOS or the traverse is out of focus.	 The counter will increment by 1 until reach 99999999 ↓ 	In Doctor Mode: 1. Press [≥10], [1], [2] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
CD Combination Test Mode (DLS6C)	A combination of CD loading & traverse unit test.	 The counter will increment by 1 until reach 99999999 ↓ 	In Doctor Mode: 1. Press [≥10], [1], [3] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
Cold Start	To activate cold start upon next AC power up.		In Doctor Mode: 1. Press [SLEEP] button on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
USB Test Mode	To Inspect USB Testing.	 The display will appear after 3s, 	In Doctor Mode: 1. Select to USB mode. 2. Press [2] button on remote control. To exit Doctor Mode, press [ϕ/I] button on main unit or remote control.

7.3. Error Code Table

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

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

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
H15	CD Open SW Abnormal	During normal operation CD OPEN SW On fail to be detected with 4 sec. Error No. shall be clear by force or during cold start.		For CD Mechanism Unit (DLS6C). Press [■, -DEMO] on main unit for next error.
F15	CD REST SW Abnormal	CD traverse position initial setting operation failsafe counter (1000 ms) waiting for REST SW to turn on. Error No. shall be clear by force or during cold start.		For CD Mechanism Unit (DLS6C). Press [■, -DEMO] on main unit for next error.
F26	Communication between CD servo LSI and micro-p abnormal.	CD function DTMS command, after system setting, If SENSE = 'L' cannot be detected. Memory shall contain F26 code. After Power on, CD function shall continue, error display shall be "NO DISC". Error No. shall be clear by force or cold start.		For CD Mechanism Unit (DLS6C). Press [■, -DEMO] on main unit for next error.
F76	Power Amp IC output abnormal	DCDET1 = L (NG)		For power. Press [■, -DEMO] on main unit for next error.

8 Troubleshooting Guide

Symptom	Checking items	Repair Items	Remark
No display after power-up	• Check AC supply to unit. • Check fuse, F5901. • Check +3.3V supply to micro-processor, IC800 (Pin 17,89) • Check +Vref to micro-processor, IC800 (Pin 100) • Check –VP supply to FL display and VDD/-VP supply to FL Driver IC (Pin 43/30) • Check oscillator circuit at X801/X802	Change defective parts if found any abnormality: • F5901 • L801 • IC800 • L800 • IC800 • FL900 • IC900 • L900/D901 • X801/X802	Main / Transformer P.C.B
No CD operation	• Check +3.3V supply to Servo-Processor IC • Check Pin 56, 59 of Servo-Processor IC for output • Check +7.5V supply to IC7002 • Check Traverse & spindle motor operation. • Check output for traverse/spindle at Pin 21,23 of IC7001 • Check Pin 80, 81 of IC7001 for the oscillator clock circuit (X7201)	Change defective parts if found any abnormality: • IC7001 • IC7002 • Traverse assembly • X7201	CD Servo P.C.B
No audio sound output.	• Check speaker connection to main unit. • Check solderability at speaker jack, JK5101. • Check output of Power IC, IC5101 (Pin 2,4,10,12) • Check supply VCC to IC5101 • Check FP5901 for open circuit. • Check output of ASP IC, IC200 (Pin 17,22) • Check supply voltage +9V to ASPC IC, IC200 • Check pin 64 of IC800 (ASP_CLK) • Check pin 9 of Power IC (Muting always 'ON') • Check pin 90 of IC800 (Muting always 'ON')	Change defective parts if found any abnormality: • IC5101 • FP5901 • IC200 • IC800 • JK5101	Main / Power P.C.B
No headphone output	• Check solderability of JK950 • Check connection between Main P.C.B & Headphone P.C.B • Check Q761 & Q762 (Muting always 'ON') • Check Pin 5 of IC800 (Muting always 'ON') • Check Pin 1,7 of IC700 • Check output of ASP IC, IC200 (Pin 17,22) • Check supply voltage +9V to ASPC IC, IC200	Change defective parts if found any abnormality: • JK950 • L950,L952 • Q761 • IC700 • IC200	Main / Headphone P.C.B

9 Service Fixture & Tools

Prepare service tools before process service position.

Service Tools		Remarks
Main P.C.B. (CN901) - Panel P.C.B. (CN900)	REEX1022 (11P FFC)	(RTL)

10 Disassembly and Assembly Instructions

“ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges

Special Note:

1. This section describes the disassembly procedures for all the major printed circuit boards and main components.
2. Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out.
(Ensure that no AC power supply is connected during disassembling.)
3. For assembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
4. Do take note of the locators on each printed circuit board during reassembling procedures.
5. The Switch Regulator IC may have high temperature after prolonged use.
6. Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.

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

7. Select items from the following index when checks or replacement are required.

- Disassembly of Top Cabinet Assembly
- Disassembly of Headphone P.C.B.
- Disassembly of iPod P.C.B.
- Disassembly of DAB Unit P.C.B.
- Disassembly of Front Panel Assembly
- Disassembly of USB P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of FL Window
- Disassembly of Centre Ornament
- Disassembly of CD Lid
- Disassembly of CD Mechanism Unit (DLS6C)
- Disassembly of Power P.C.B.
- Replacement of Power Amp IC (IC5101)
- Disassembly of Main P.C.B.
- Disassembly of Fan Unit
- Disassembly of Transformer P.C.B.
- Replacement of Transistor (Q5901)
- Disassembly of CD Servo P.C.B.

CAUTION NOTE:

Please use original screw and at correct locations.

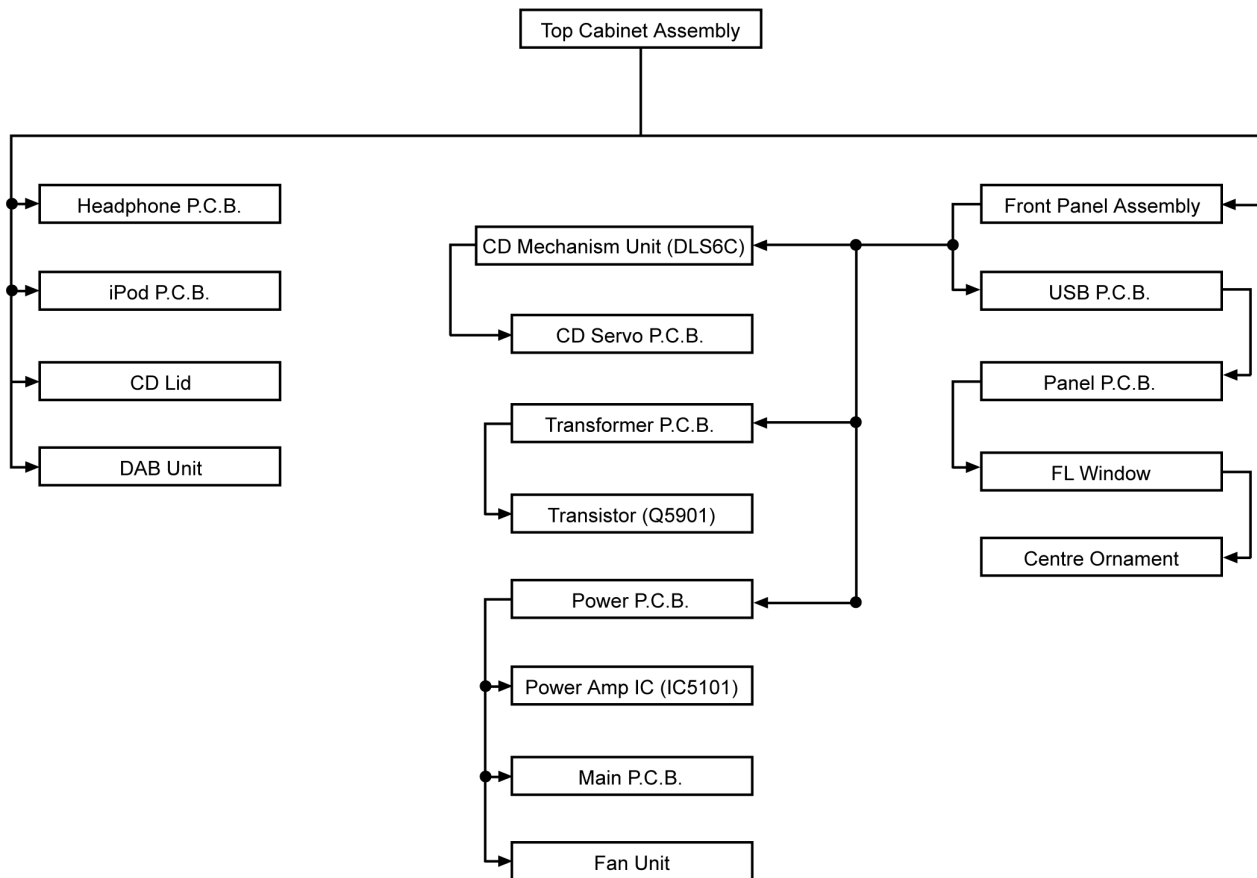
Below shown is part no. of different screw types used:

- | | |
|------------------------|----------------------|
| a : XTB3+10JFJ | e : VHD1224-1 |
| b : XTW3+10SFJK | f : RHDC0023 |
| c : RHD26046-L | g : XTN2+6GFJ |
| d : RHD03001 | |

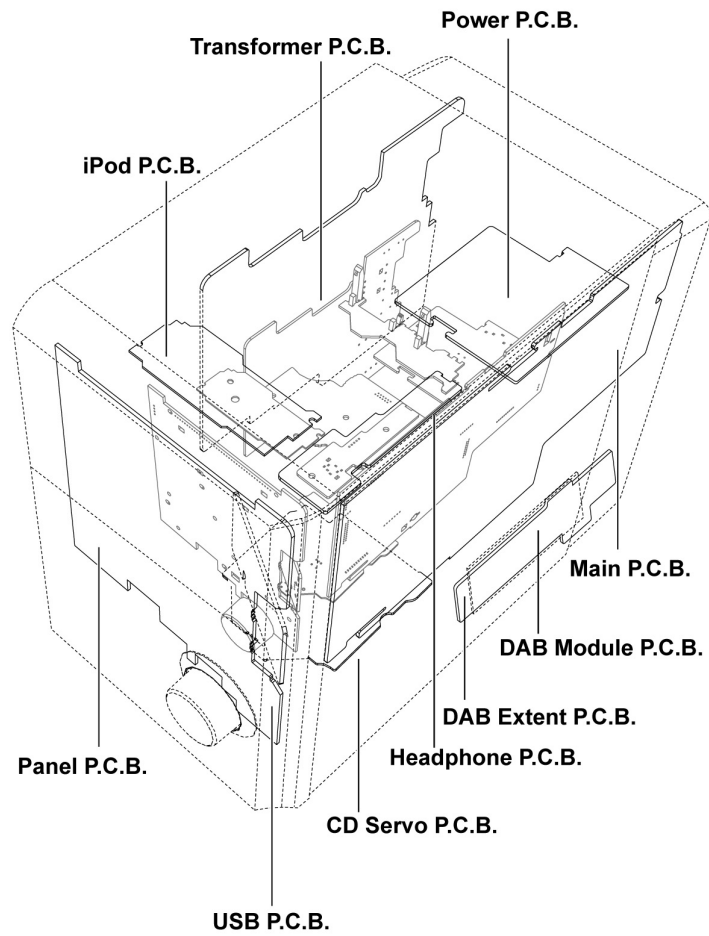
10.1. Disassembly flow chart

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

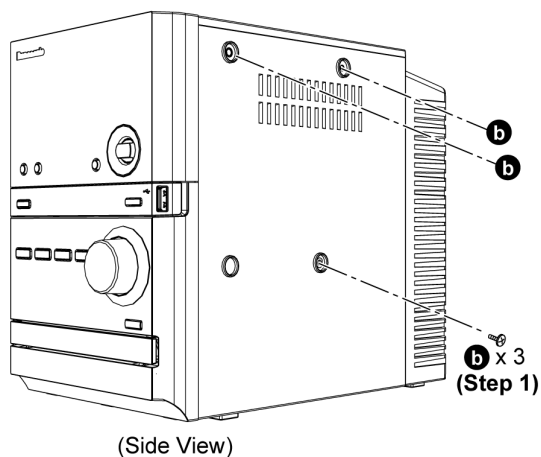
To assemble the unit, reverse the steps shown in the chart below.



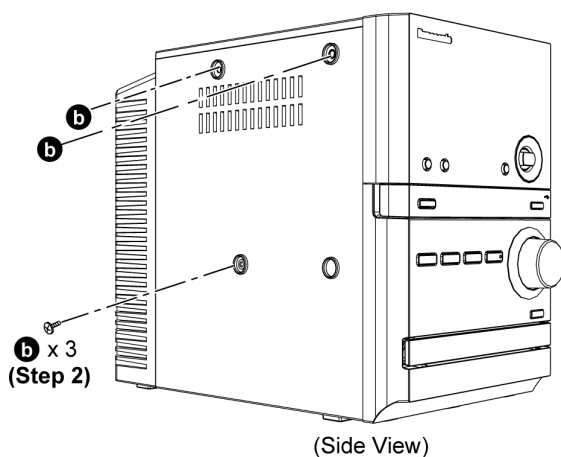
10.2. Main Parts Location Diagram



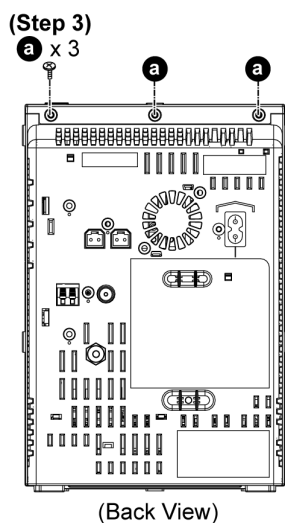
10.3. Disassembly of Top Cabinet Assembly



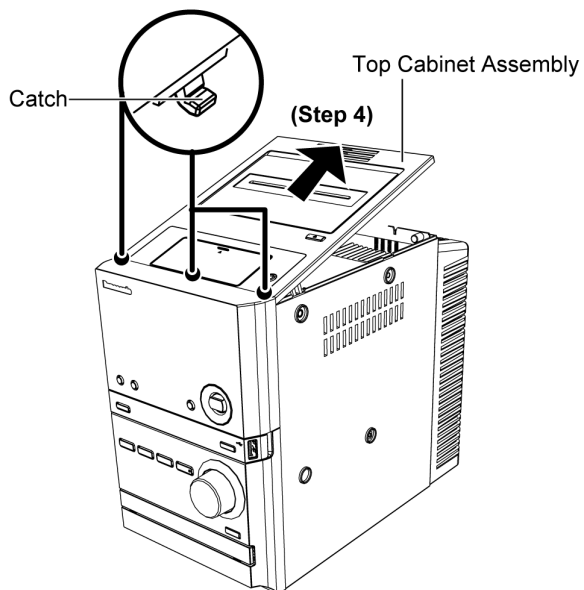
Step 1 : Remove 3 screws.



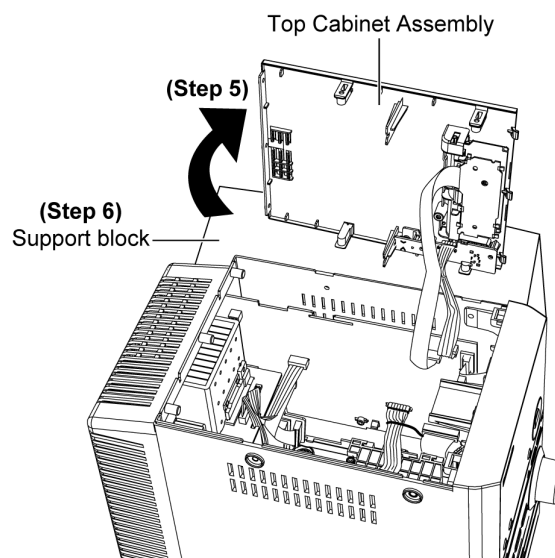
Step 2 : Remove 3 screws.



Step 3 : Remove 3 screws.

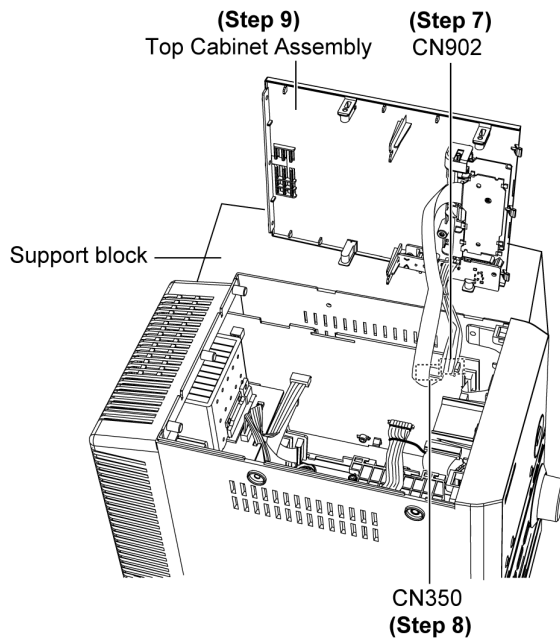


Step 4 : Lift the Top Cabinet Assembly as arrow shown to release 3 catches.



Step 5 : Upset the Top Cabinet Assembly as arrow shown.

Step 6 : Place a support block underneath the Top Cabinet Assembly.



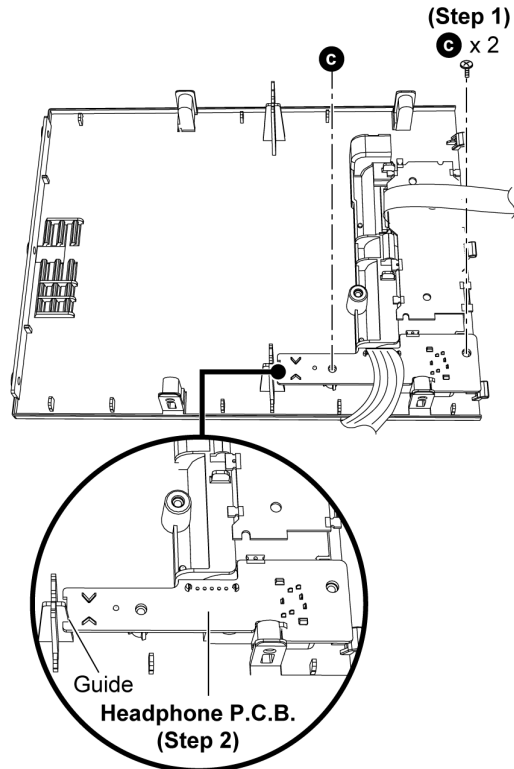
Step 7 : Detach 5P cable at connector (CN902) on Main P.C.B..

Step 8 : Detach 14P FFC at connector (CN350) on Main P.C.B..

Step 9 : Remove Top Cabinet Assembly.

10.4. Disassembly of Headphone P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.

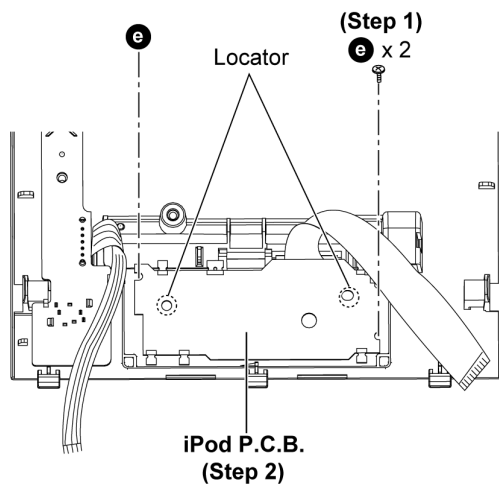


Step 1 : Remove 2 screws.

Step 2 : Release guide and remove Headphone P.C.B..

10.5. Disassembly of iPod P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.



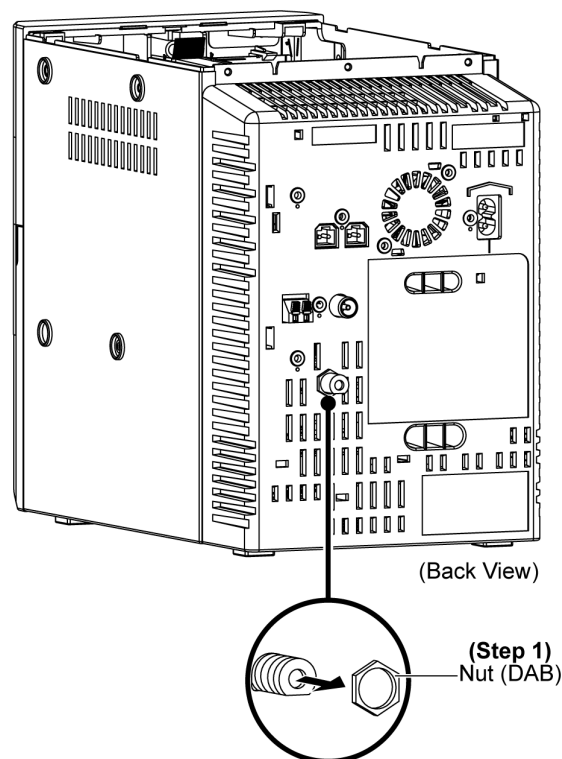
Step 1 : Remove 2 screws.

Step 2 : Remove iPod P.C.B..

Caution : Ensure the iPod P.C.B. is seated properly on the locator after assembled.

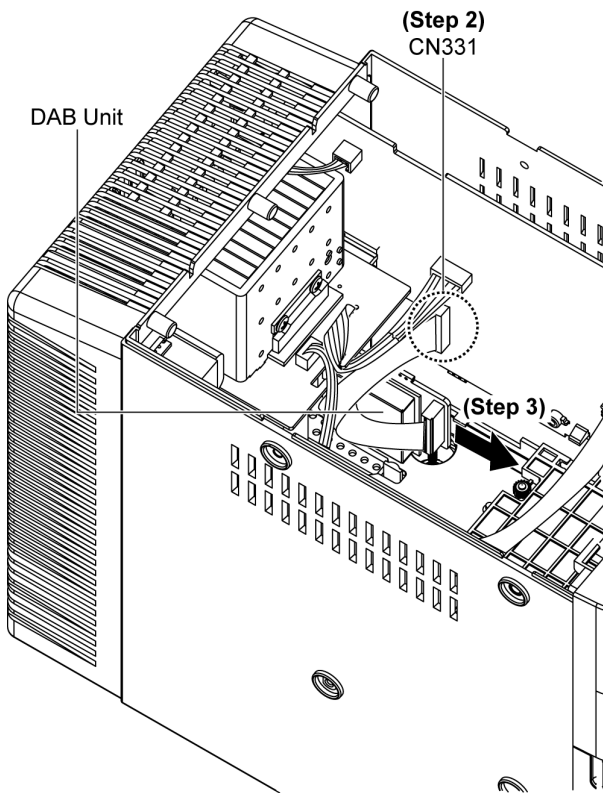
10.6. Disassembly of DAB Unit P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.



Step 1 : Remove the nut (DAB).

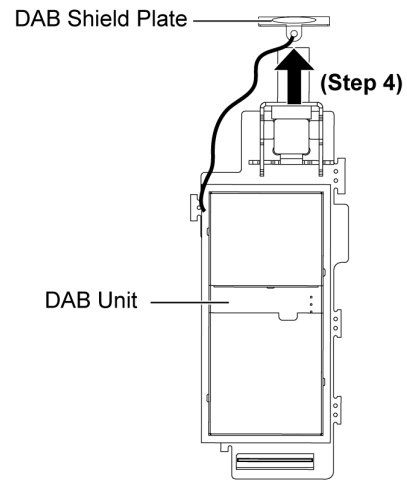
Caution : During reassembling, ensure Nut (DAB) is fully tighten to the rear cabinet assembly.



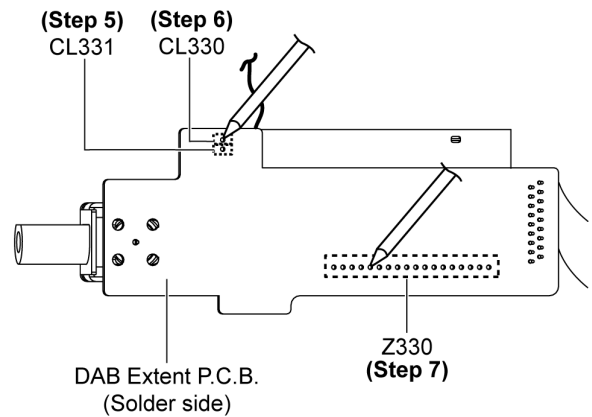
Step 2 : Detach 18P FFC at the connector (CN331) on Main P.C.B..

Step 3 : Remove DAB Unit as arrow shown.

• Disassembly of DAB Extent P.C.B.



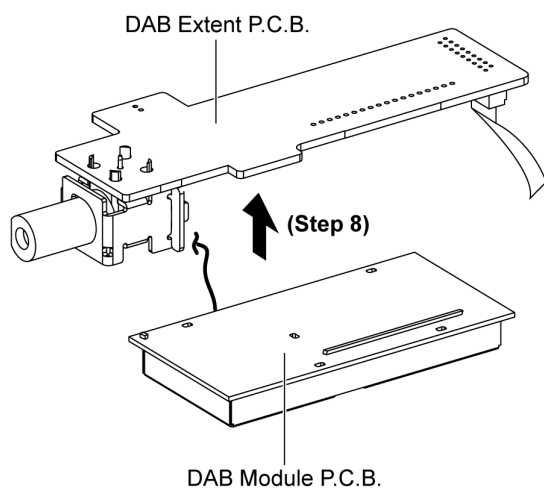
Step 4 : Remove DAB Shield Plate as arrow shown.



Step 5 : Desolder point of (CL331).

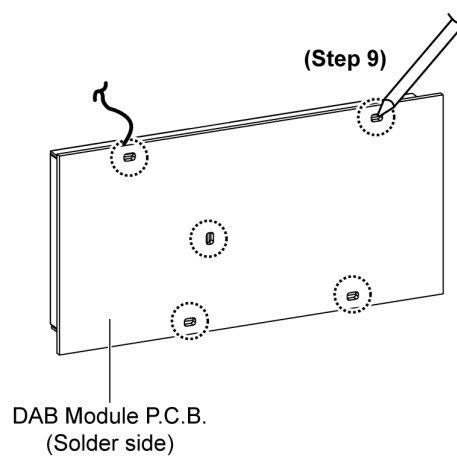
Step 6 : Desolder point of (CL330).

Step 7 : Desolder points of (Z330).

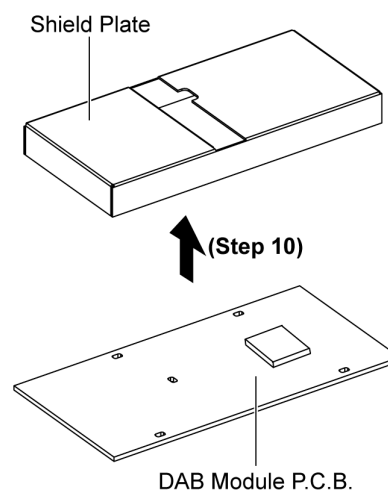


Step 8 : Remove DAB Extent P.C.B. as arrow shown.

• Disassembly of DAB Module P.C.B.



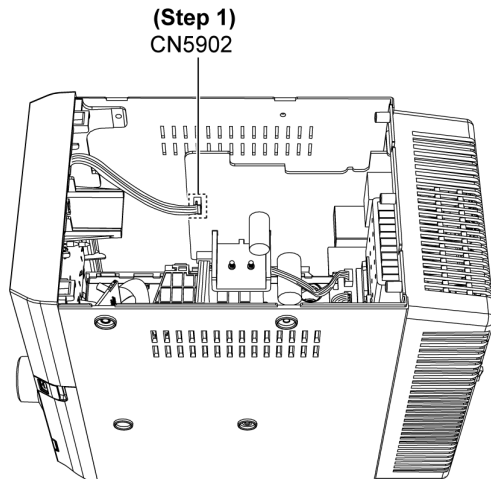
Step 9 : Desolder pins of Shield Plate.



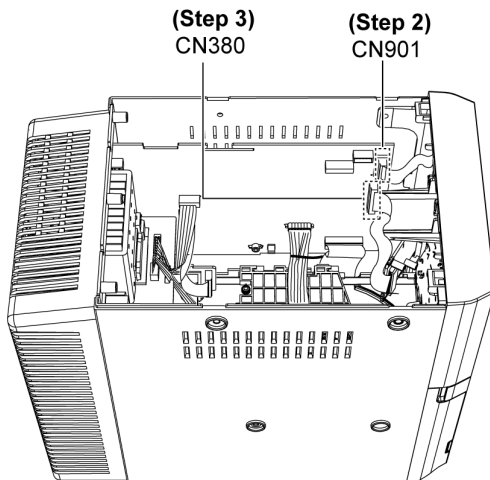
Step 10 : Remove shield plate from DAB Module P.C.B. as arrow shown.

10.7. Disassembly of Front Panel Assembly

- Follow the (Step 1) - (Step 9) of item 10.3.

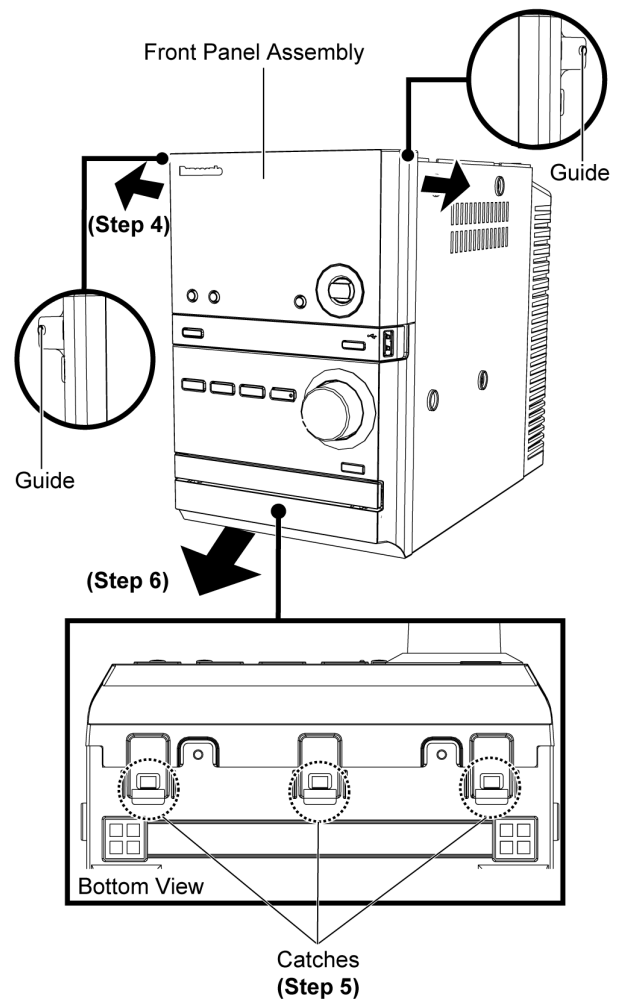


Step 1 : Detach 4P cable at connector (CN5902) on Transformer P.C.B..



Step 2 : Detach 11P FFC at connector (CN901) on Main P.C.B..

Step 3 : Detach 22P FFC at connector (CN380) on Main P.C.B..



Step 4 : Release both guides.

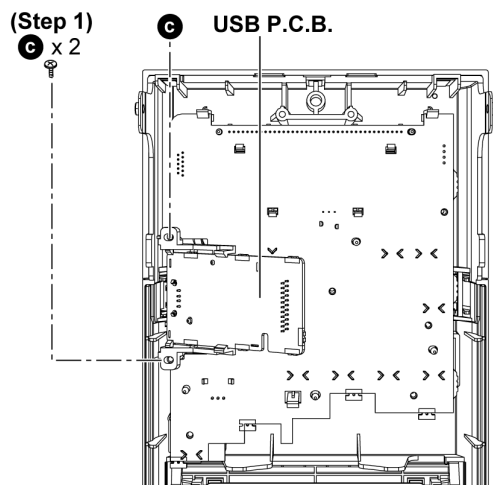
Step 5 : Release 3 Catches from the bottom.

Step 6 : Remove the Front Panel Assembly.

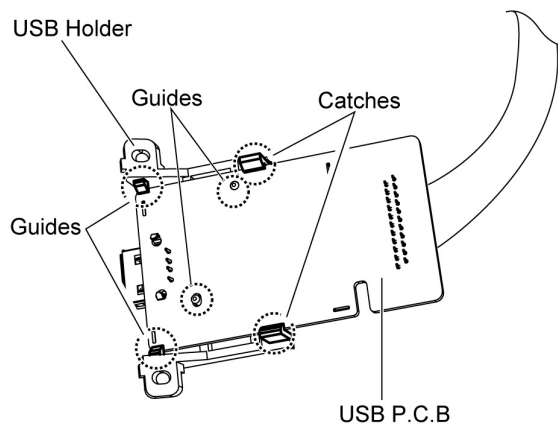
Caution : Do not attempt to exert strong force when detaching the front panel assembly.

10.8. Disassembly of USB P.C.B.

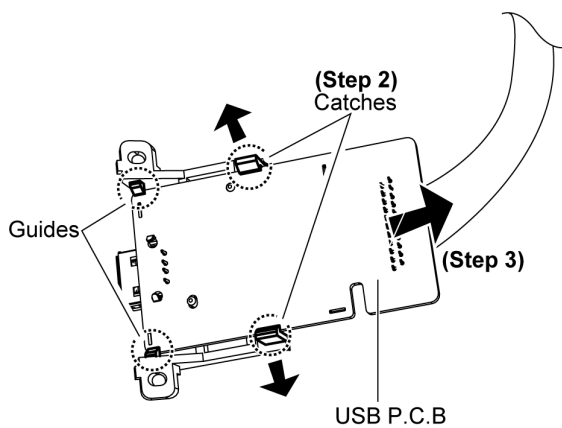
- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.



Step 1 : Remove 2 screws.



Caution : Ensure that the USB P.C.B. is firmly caught and properly seated on the guides during assembly of the USB P.C.B..

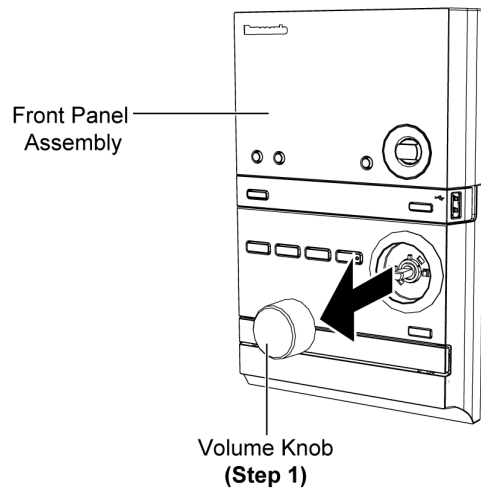


Step 2 : Release both catches as arrows shown.

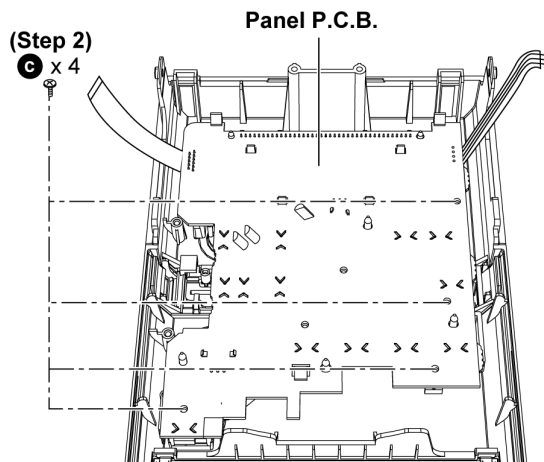
Step 3 : Detach the USB P.C.B as arrow shown to release from both guides.

10.9. Disassembly of Panel P.C.B.

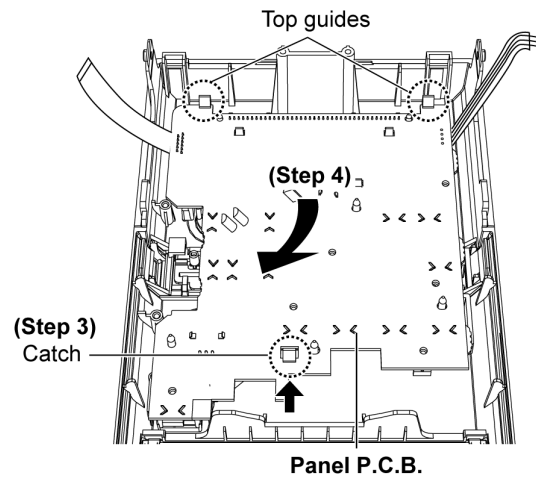
- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 3) of item 10.8.



Step 1 : Remove Volume Knob.



Step 2 : Remove 4 screws.



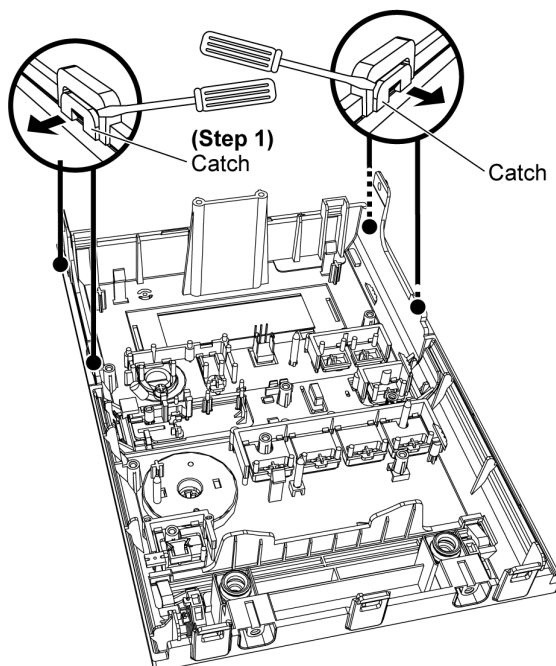
Step 3 : Release the catch

Step 4 : Remove the Panel P.C.B. as arrow shown.

Caution : During assembly ensure that Panel P.C.B. are slot under the top guides. A 'click' sound will be heard when fully caught.

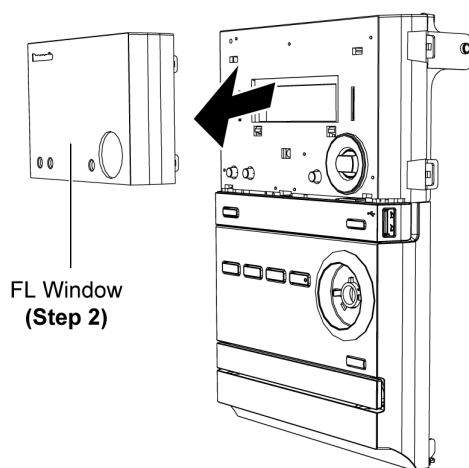
10.10. Disassembly of FL Window

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 3) of item 10.8.
- Follow the (Step 1) - (Step 4) of item 10.9.



Step 1 : Release all catches by pushing the edge of the catches as arrows shown.

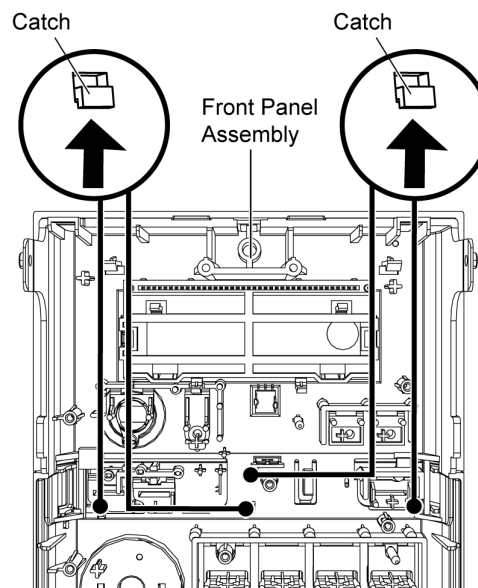
Caution : Do not apply strong force in releasing the catches to avoid damage to the Front Panel Assembly & FL Window.



Step 2 : Remove FL Window.

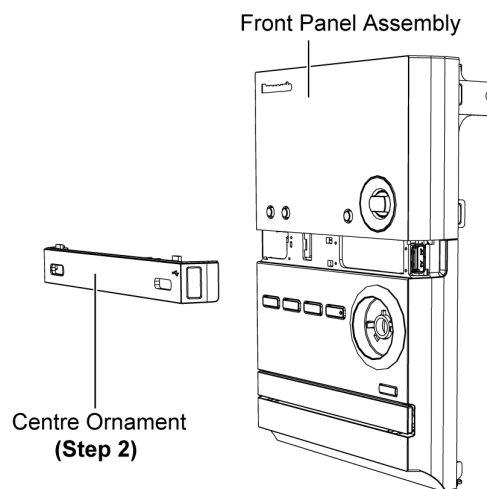
10.11. Disassembly of Centre Ornament

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 3) of item 10.8.
- Follow the (Step 1) - (Step 4) of item 10.9.
- Follow the (Step 1) - (Step 2) of item 10.10.



Step 1 : Release 4 catches as arrows shown.

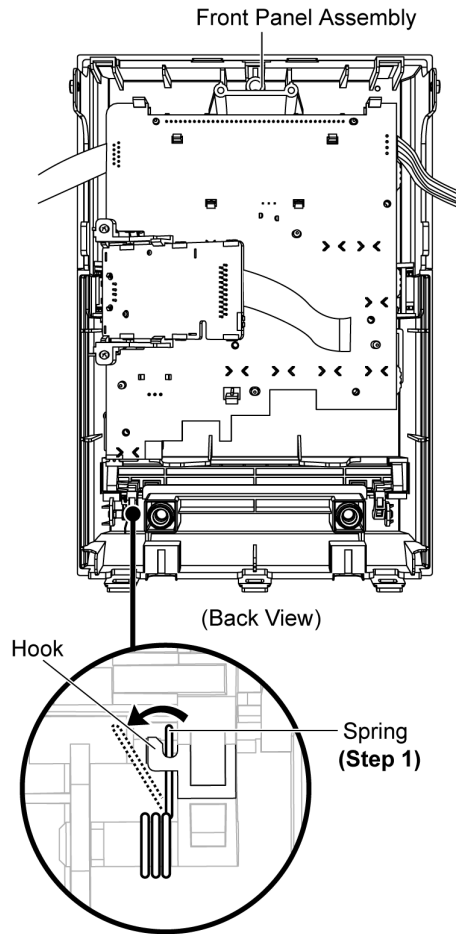
Caution : During assembly ensure that centre ornament are properly caught to the Front Panel Assembly.



Step 2 : Remove Centre Ornament.

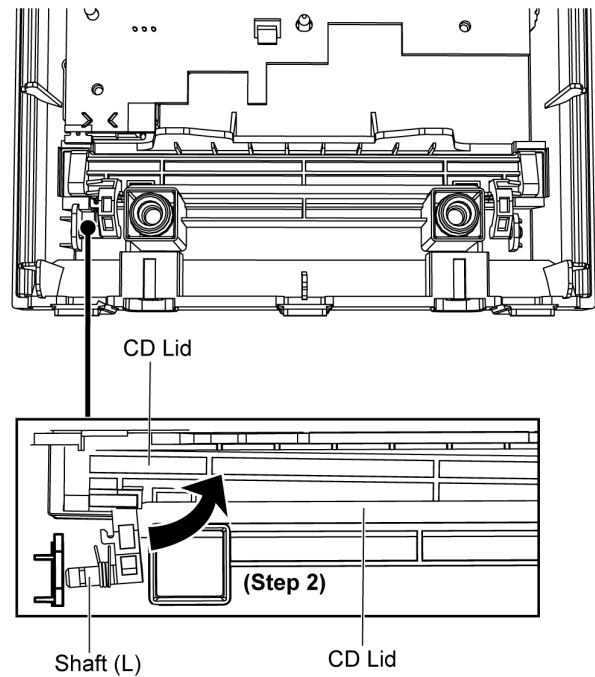
10.12. Disassembly of CD Lid

- Follow the (Step 1) - (Step 9) of item 10.3.

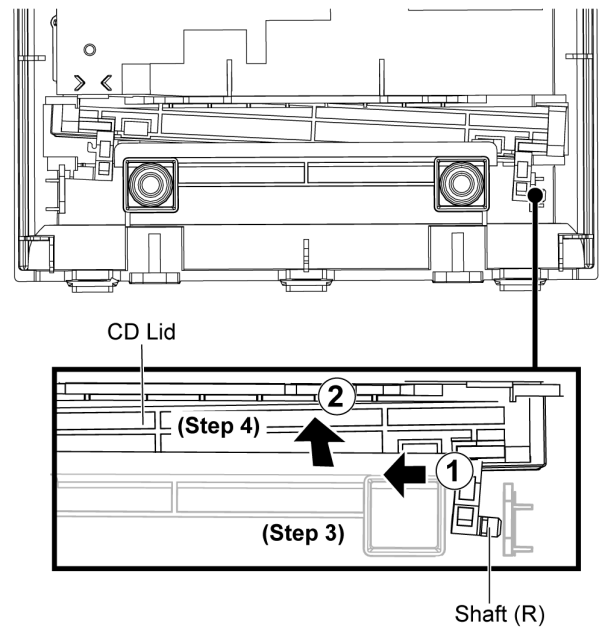


Step 1 : Lift the spring out of the hook.

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



Step 2 : Move the shaft (L) of the CD Lid in the direction of arrow shown.



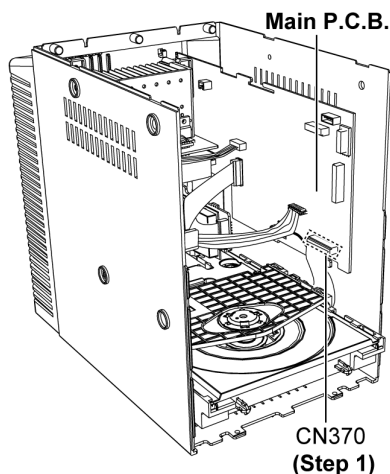
Step 3 : Move the shaft (R) of the CD Lid in the direction of arrow shown.

Step 4 : Remove the CD Lid in the direction of arrow shown.

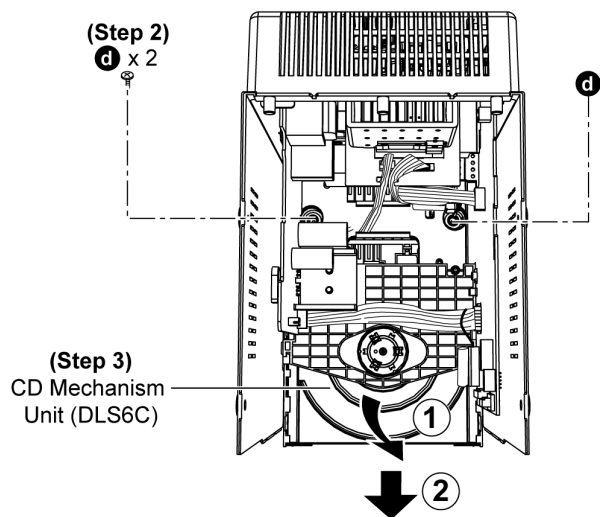
Caution : Do not exert strong force to the shafts during removal and assembly of the CD Lid.

10.13. Disassembly of CD Mechanism Unit (DLS6C)

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.



Step 1 : Detach 22P FFC at connector (CN370) on Main P.C.B..

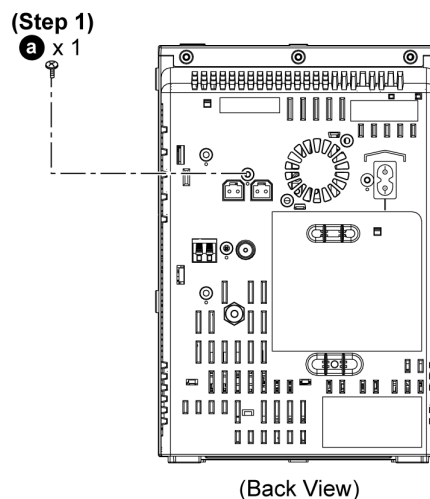


Step 2 : Remove 2 screws.

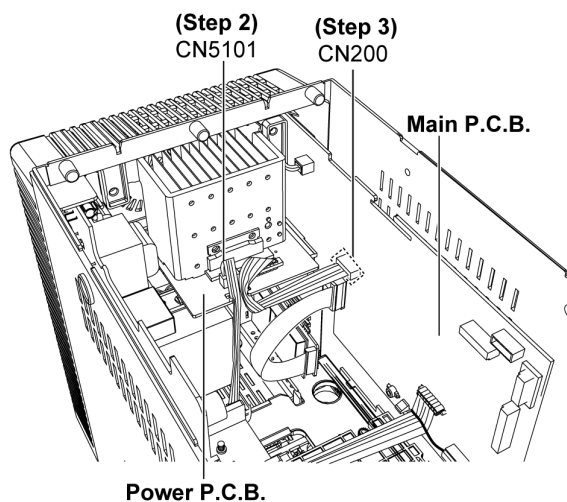
Step 3 : Slightly tilt and remove the CD Mechanism Unit (DLS6C) as arrow shown.

10.14. Disassembly of Power P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.

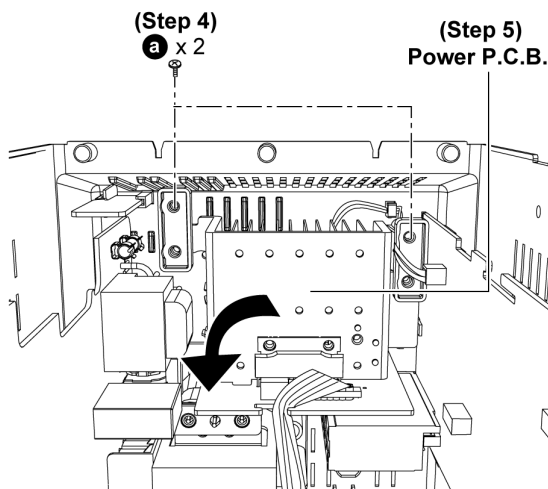


Step 1 : Remove 1 screw.



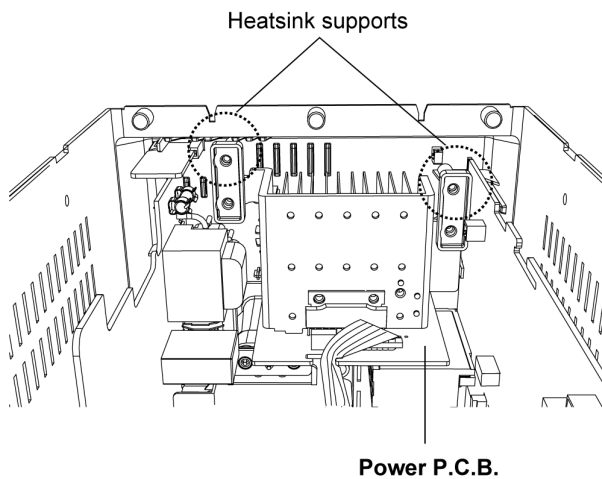
Step 2 : Detach 4P cable at connector (CN5101) on Power P.C.B..

Step 3 : Detach 6P cable at connector (CN200) on Main P.C.B..

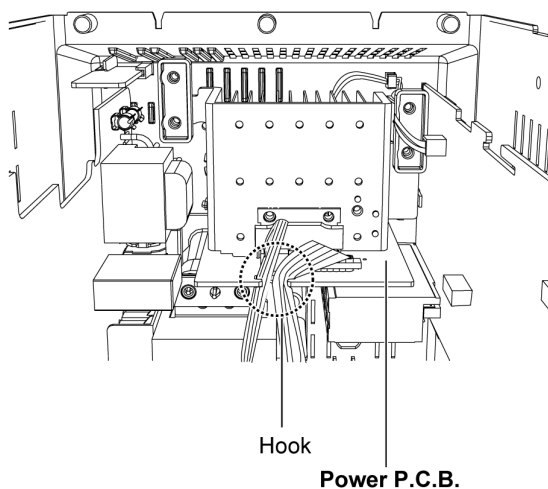


Step 4 : Remove 2 screws.

Step 5 : Remove Power P.C.B. as arrow shown.



Caution 1 : Ensure the heatsink supports are seat properly.

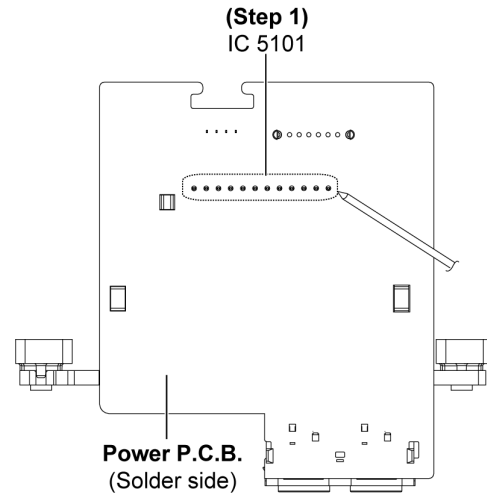


Caution 2 : Ensure the 4P wire is properly dressed into the hook of Power P.C.B. and prevent touching the heatsink unit.

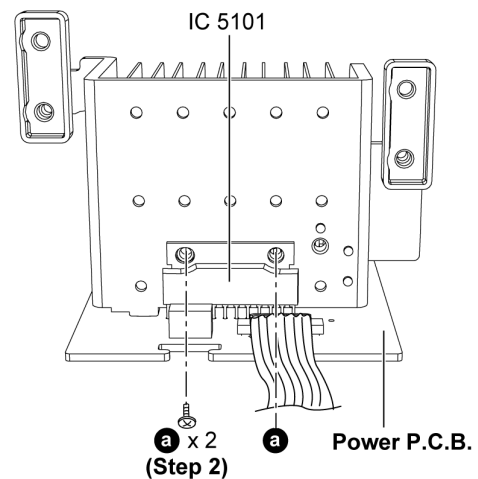
10.15. Replacement of Power Amp IC (IC5101)

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 5) of item 10.14.

Caution : Handle the heatsink unit P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries.

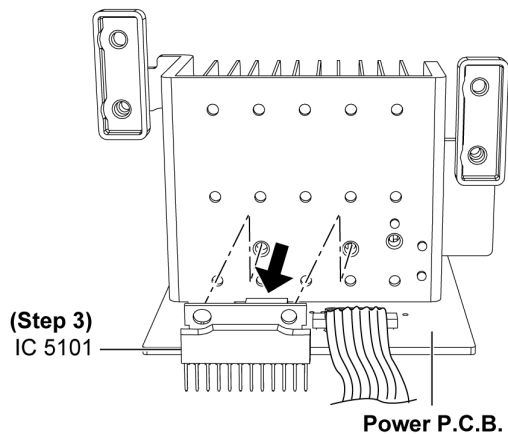


Step 1 : Desolder pins of Power Amp IC (IC5101).

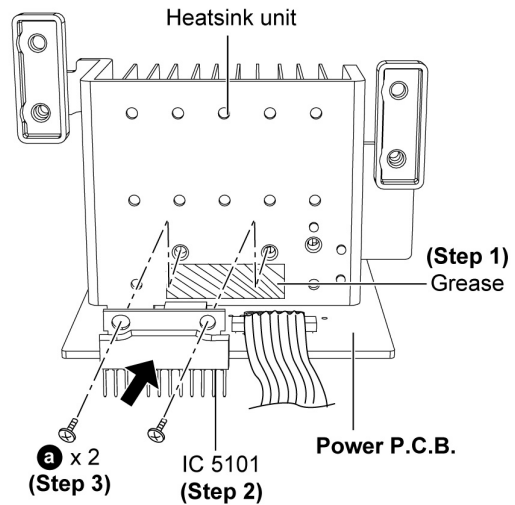


Step 2 : Remove 2 screws.

• **Assembly of Power Amp IC (IC5101)**



Step 3 : Remove Power Amp IC (IC5101).

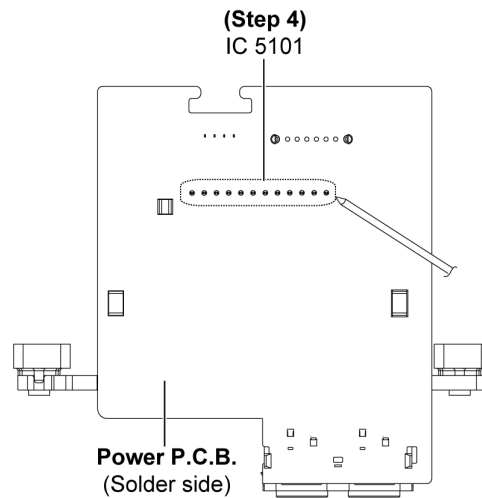


Step 1 : Apply grease to the heatsink unit.

Step 2 : Install Power Amp IC onto Power P.C.B..

Caution : Ensure the pins are inserted & seated properly on the Power P.C.B..

Step 3 : Fix the Power Amp IC (IC5101) onto the heatsink unit with 2 screws.

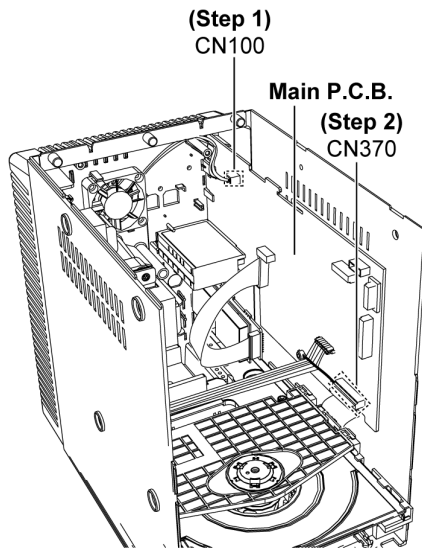


Step 4 : Solder pins of the Power Amp IC (IC5101) on the solder side of Power P.C.B..

Caution : Check for solderability of the Power Amp IC.

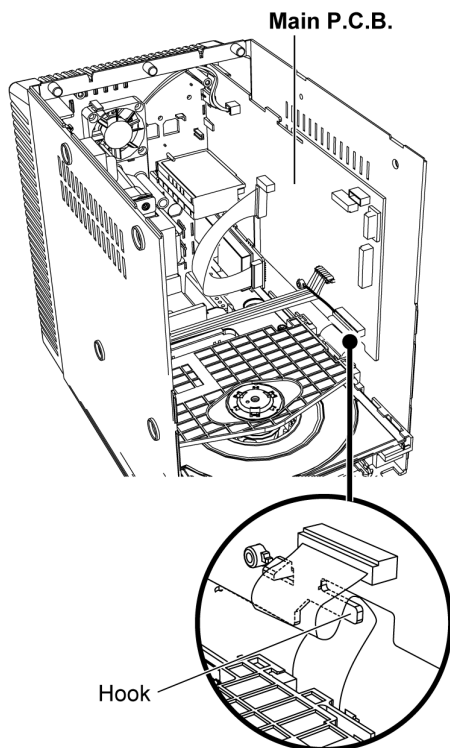
10.16. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 5) of item 10.14.



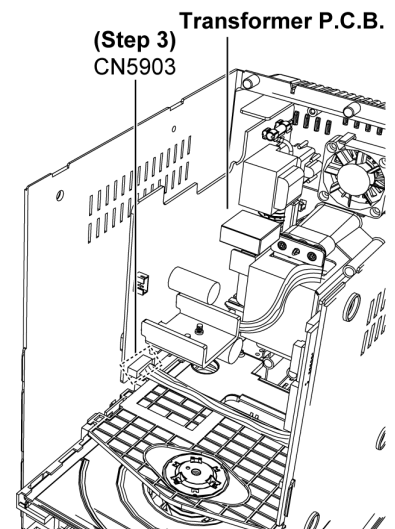
Step 1 : Detach 2P cable at connector (CN100) on Main P.C.B..

Step 2 : Detach 22P FFC at connector (CN370) on Main P.C.B..

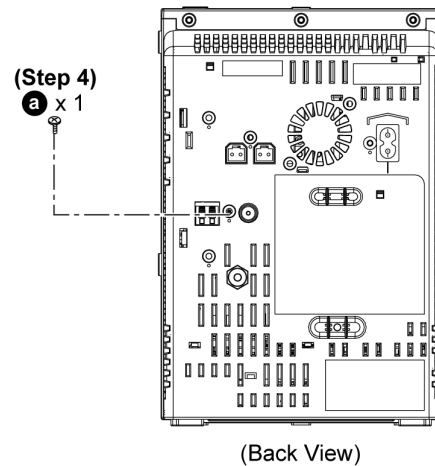


Hook

Caution : Ensure the 22P FFC properly dressed into the hook of Main P.C.B. during assembling.

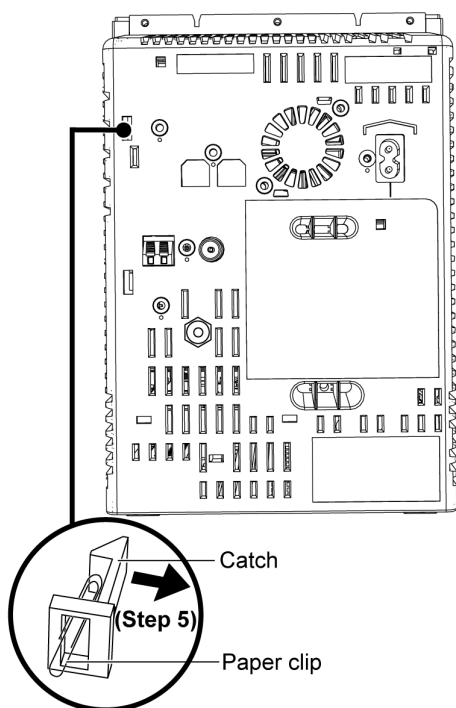


Step 3 : Detach 7P cable at connector (CN5903) on Transformer P.C.B..

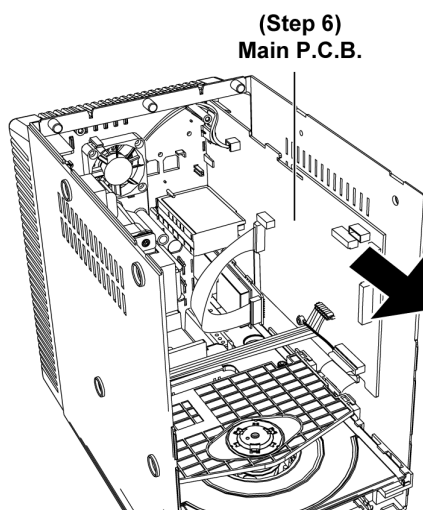


(Back View)

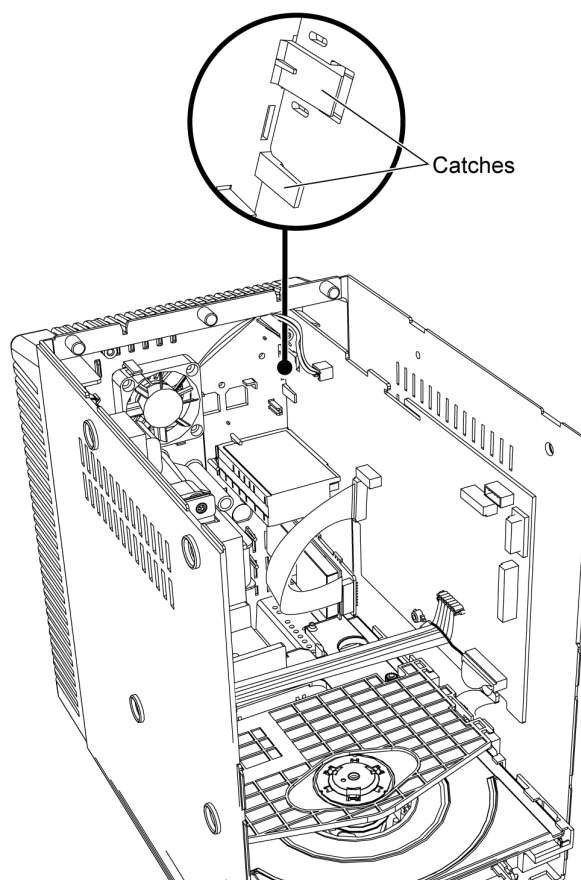
Step 4 : Remove 1 screw.



Step 5 : Use a paper clip to release the catch.



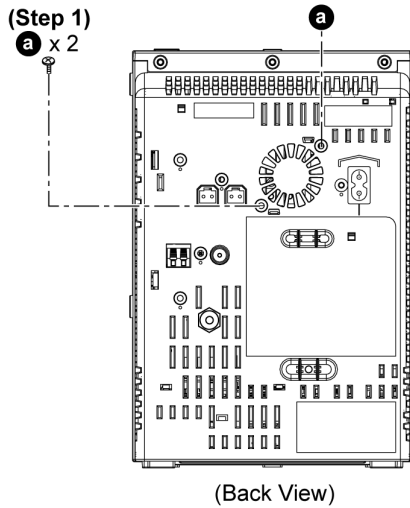
Step 6 : Remove Main P.C.B..



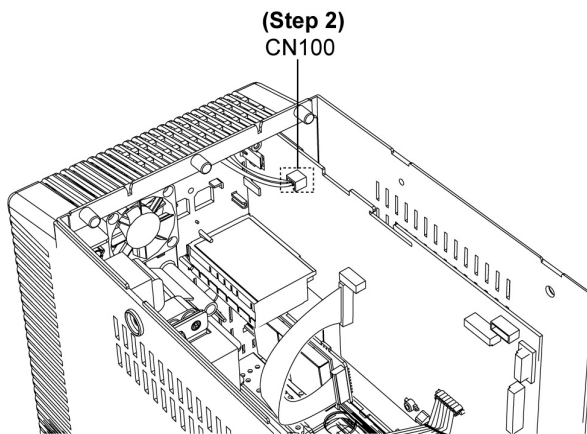
Caution : Ensure the Main P.C.B. fix onto the catches.

10.17. Disassembly of Fan Unit

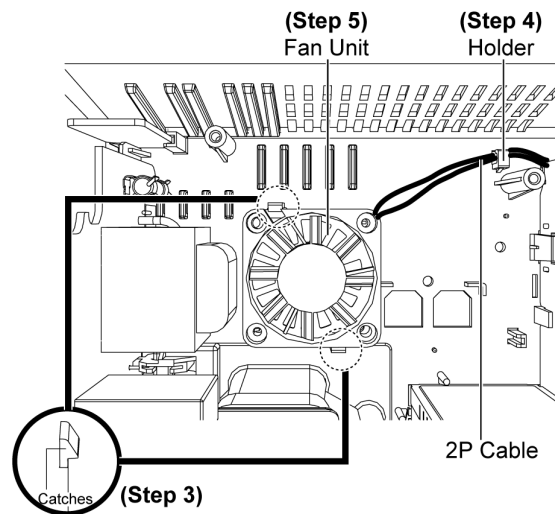
- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 5) of item 10.14.



Step 1 : Remove 2 screws.



Step 2 : Detach 2P cable at connector (CN100) on Main P.C.B..

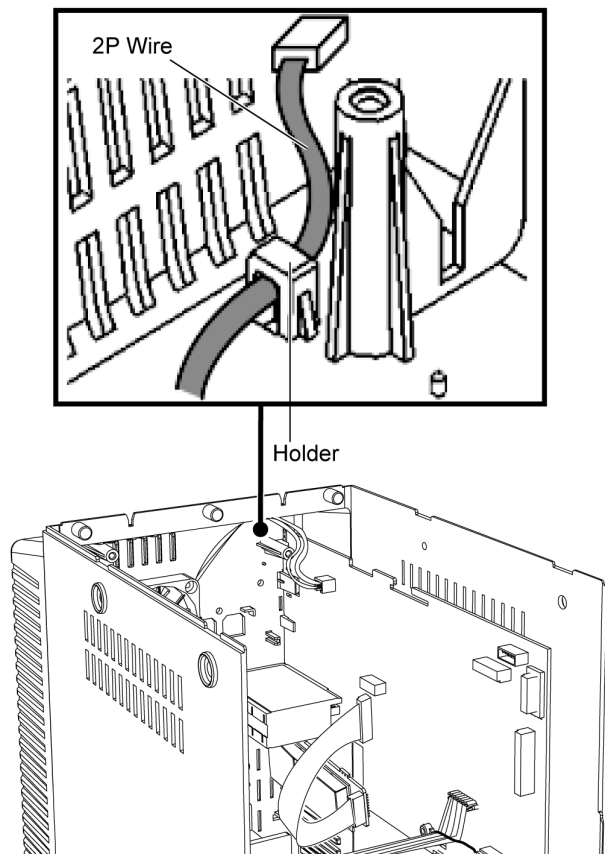


Step 3 : Release 2 catches.

Step 4 : Remove 2P cable from the holder.

Step 5 : Remove Fan Unit.

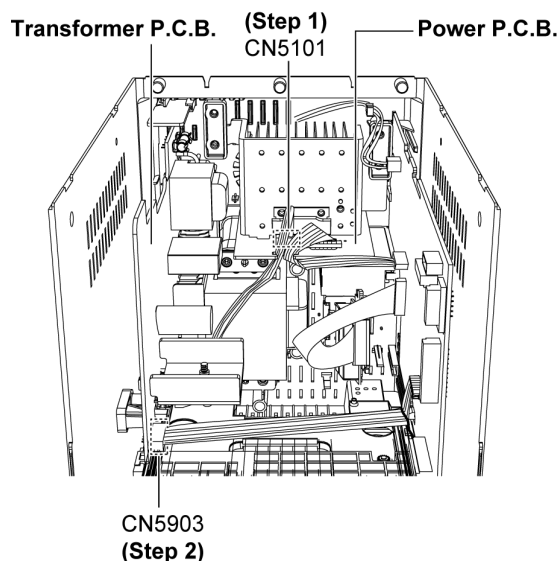
Caution : Ensure the Fan Unit is seated properly onto the rear panel assembly.



Caution : Ensure the 2P wire is inserted into the Holder.

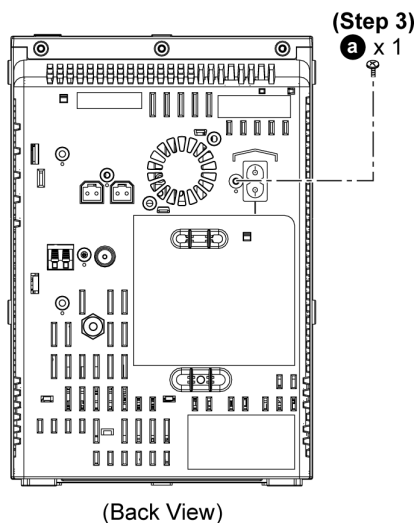
10.18. Disassembly of Transformer P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.

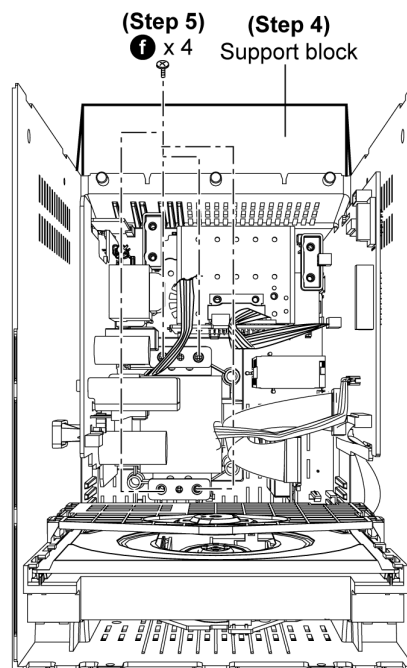


Step 1 : Detach 4P cable at connector (CN5101) on Power P.C.B..

Step 2 : Detach 7P cable at connector (CN5903) on Transformer P.C.B..

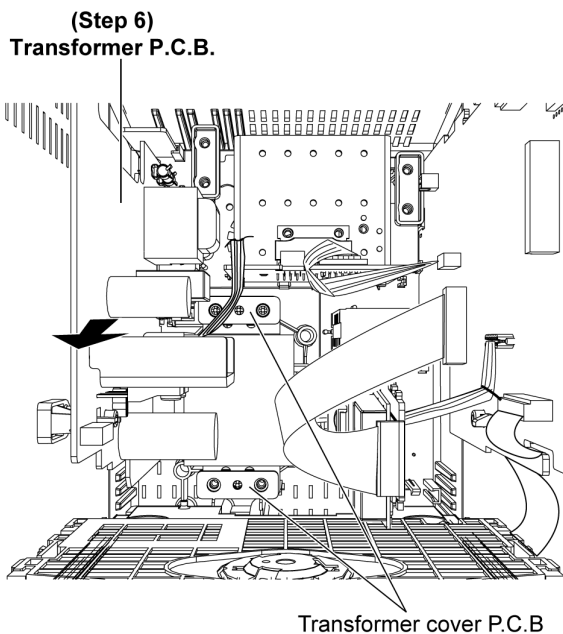


Step 3 : Remove 1 screw.



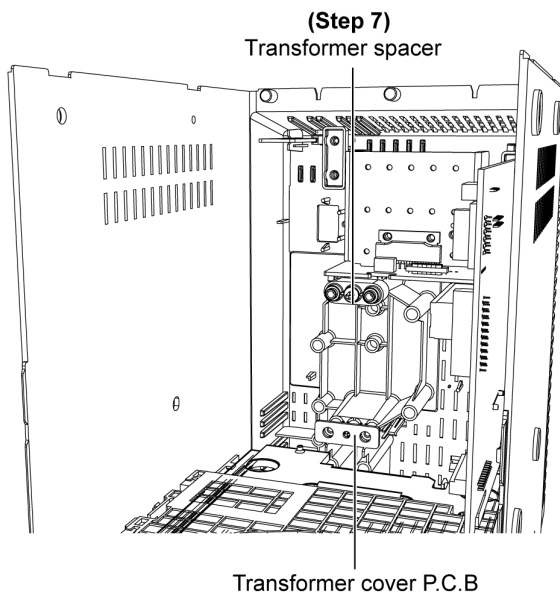
Step 4 : Place a support block to tilt the unit as shown.

Step 5 : Remove 4 screws.



Step 6 : Remove Transformer P.C.B..

Caution : Keep Transformer cover P.C.B. in safe place for assembling use.

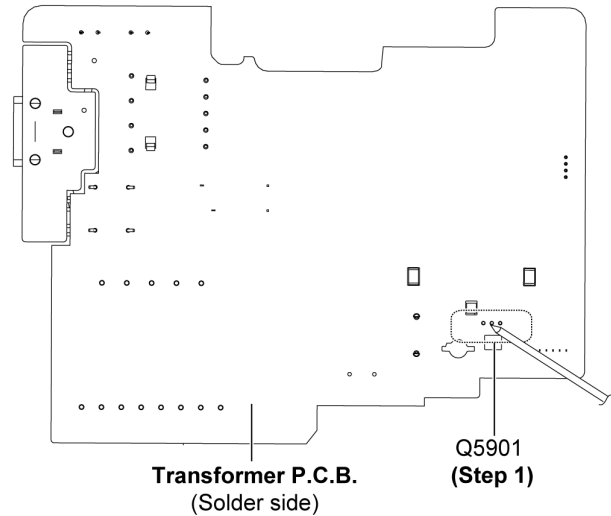


Step 7 : Remove Transformer cover P.C.B. and Trans spacer.
Caution : Keep them in safe place for assembling use.

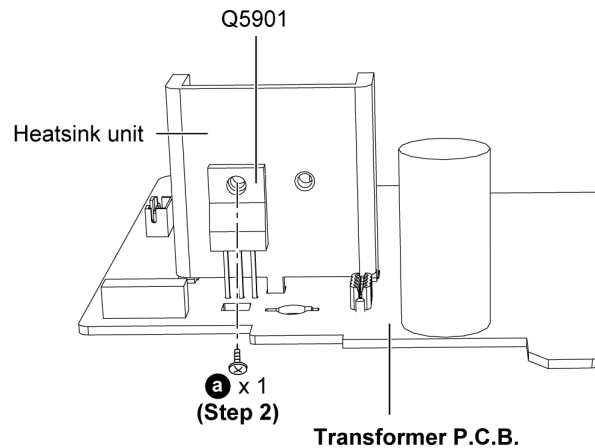
10.19. Replacement of Transistor (Q5901)

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 6) of item 10.18.

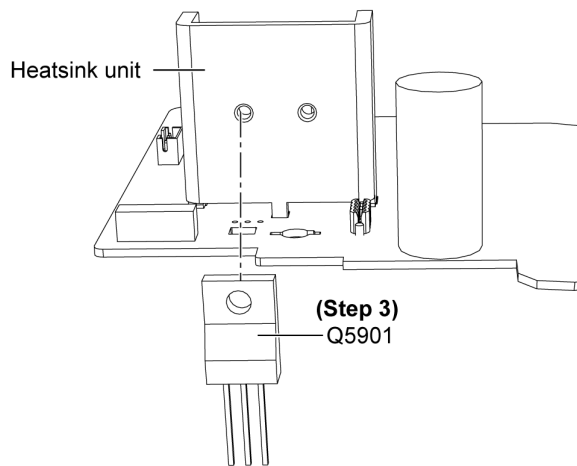
Caution : Handle the heatsink unit and P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries .



Step 1 : Desolder pins of Transistor (Q5901).

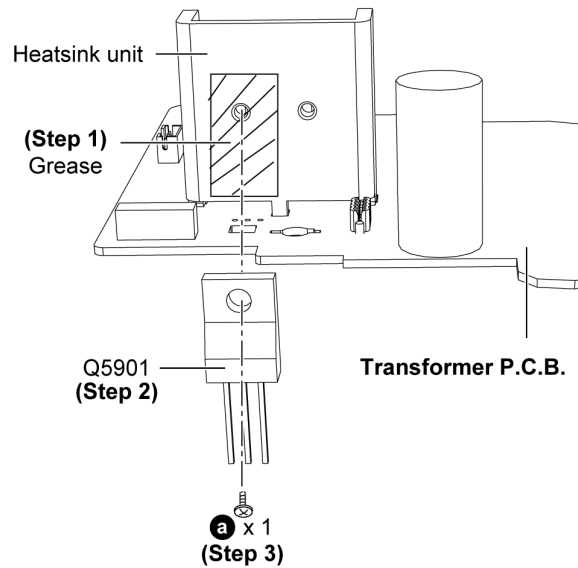


Step 2 : Remove 1 screw.



Step 3 : Remove Transistor (Q5901).

• Assembly of Transistor (Q5901)

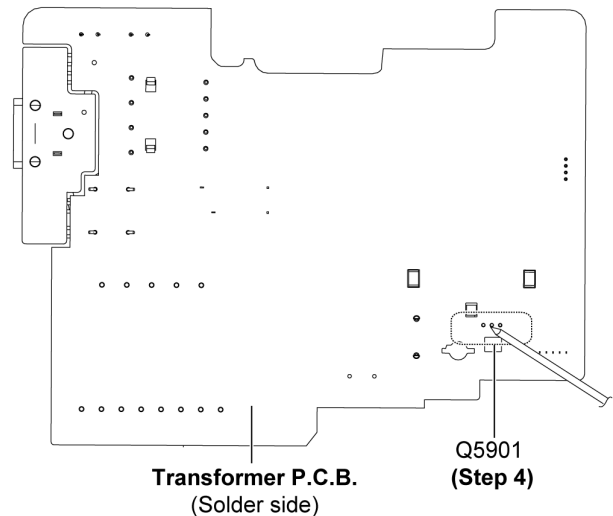


Step 1 : Apply grease to the heatsink unit.

Step 2 : Install Transistor (Q5901) onto Transformer P.C.B..

Caution : Ensure the pins are inserted & seated properly on Transformer P.C.B..

Step 3 : Fix the Transistor (Q5901) onto the heatsink unit with 1 screw.

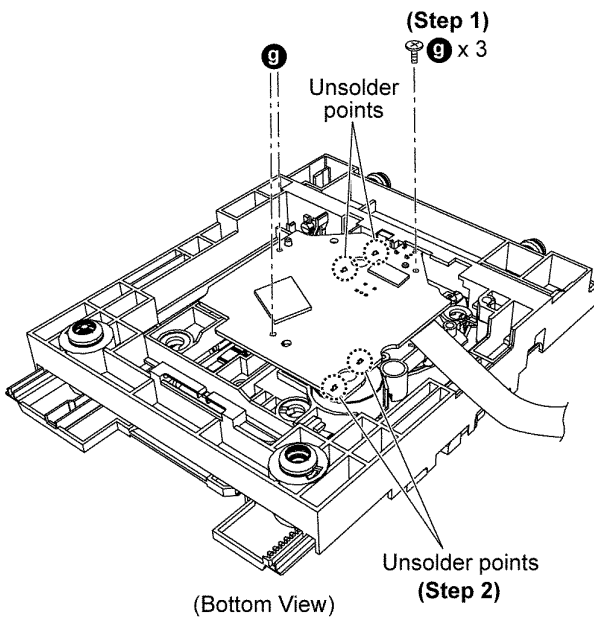


Step 4 : Solder pin of the Transistor (Q5901) on the solder side of Main P.C.B..

Caution : Check for solderability of the Transistor (Q5901).

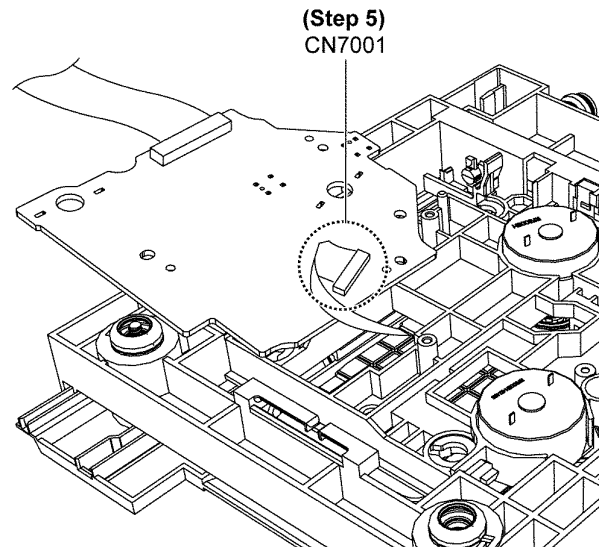
10.20. Disassembly of CD Servo P.C.B.

- Follow the (Step 1) - (Step 9) of item 10.3.
- Follow the (Step 1) - (Step 6) of item 10.7.
- Follow the (Step 1) - (Step 3) of item 10.13.

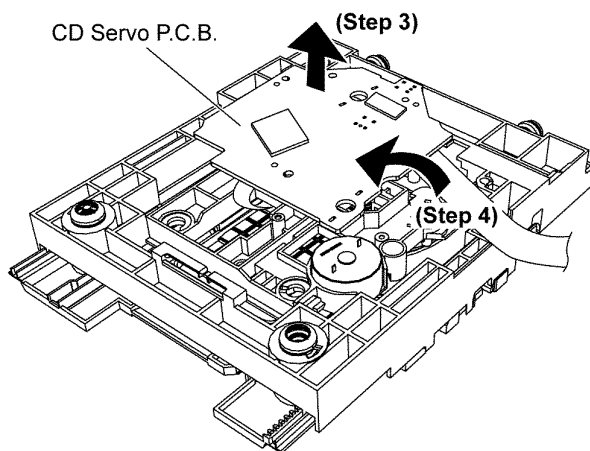


Step 1 : Remove 3 screws.

Step 2 : Unsolder 4 points.



Step 5 : Detach 16P FPC at the connector (CN7001) on CD Servo P.C.B.

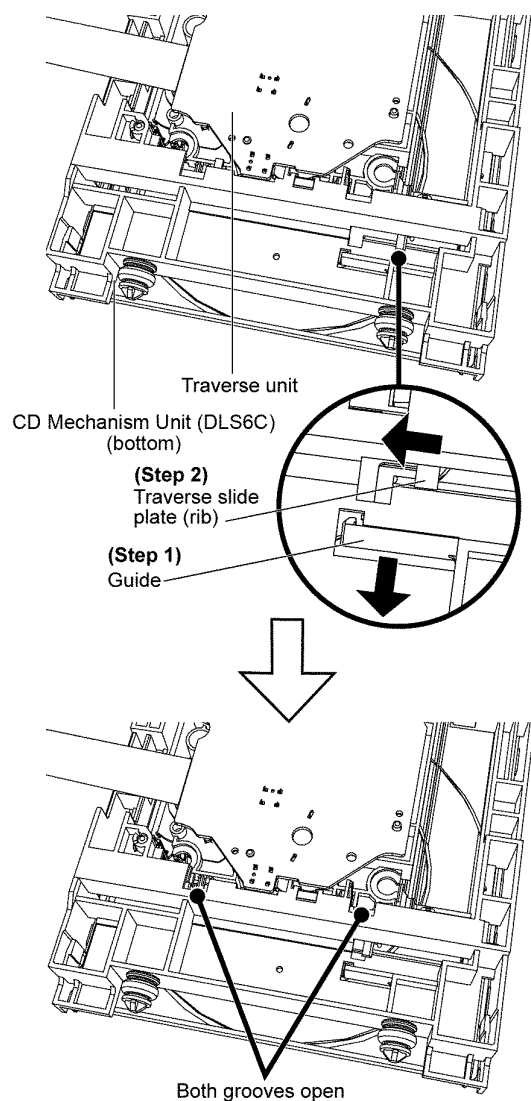


Step 3 : Move up the CD Servo P.C.B.

Step 4 : Flip the CD Servo P.C.B.

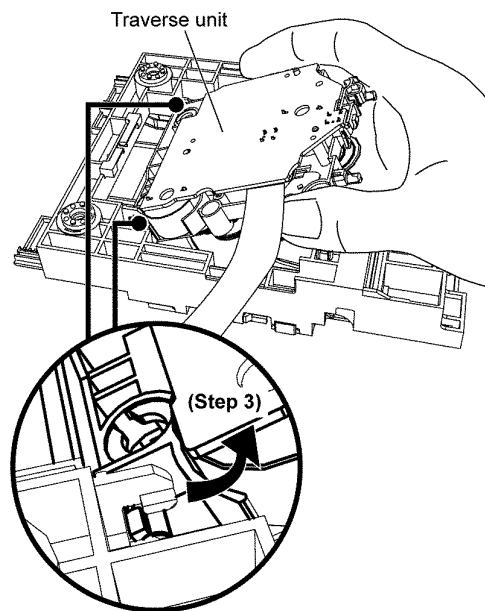
11 Disassembly and Assembly of Traverse Unit

11.1. Disassembling Procedures

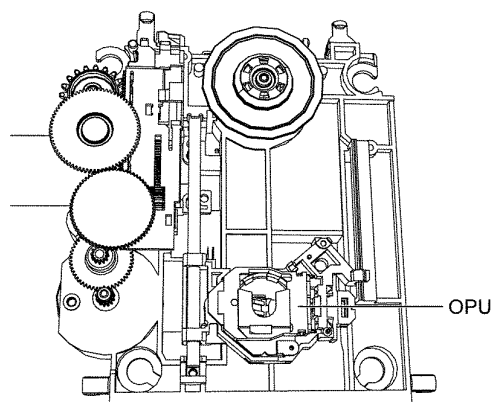


Step 1 : Release the guide.

Step 2 : Push the traverse slide plate (rib), ensure both grooves are opened.

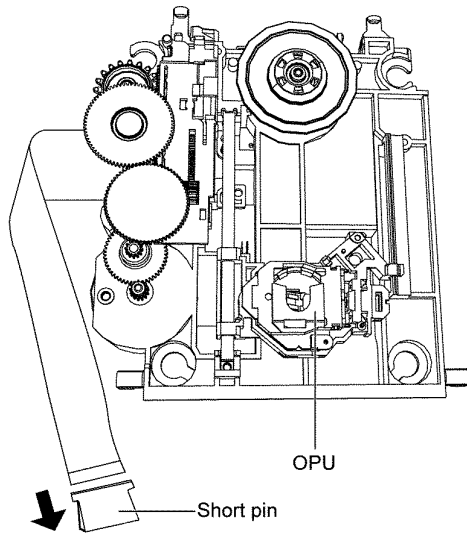


Step 3 : Slide out the traverse unit as arrow shown.

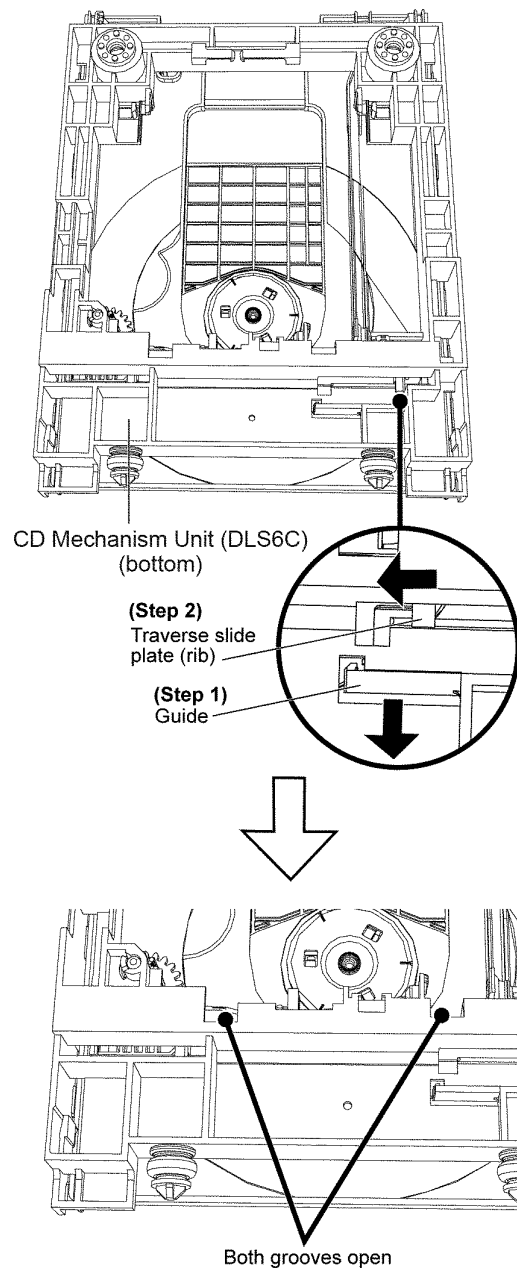


Caution : Ensure the OPU is face upwards, avoid touching the surface of the traverse unit.

11.2. Assembling Procedure

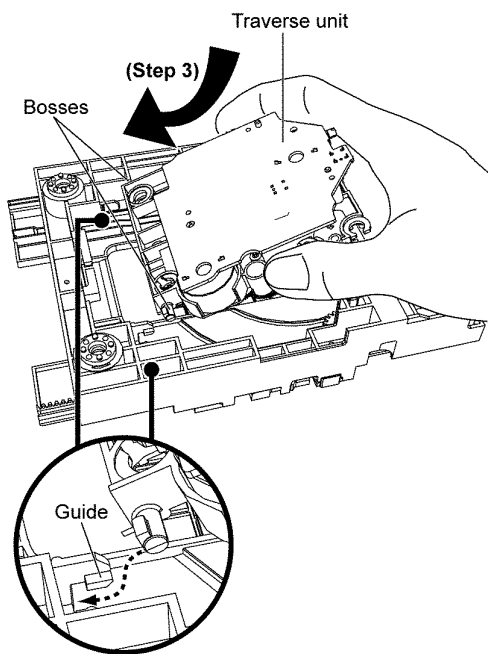


Caution : Removal of the short pin is necessary for replacement of new traverse unit.

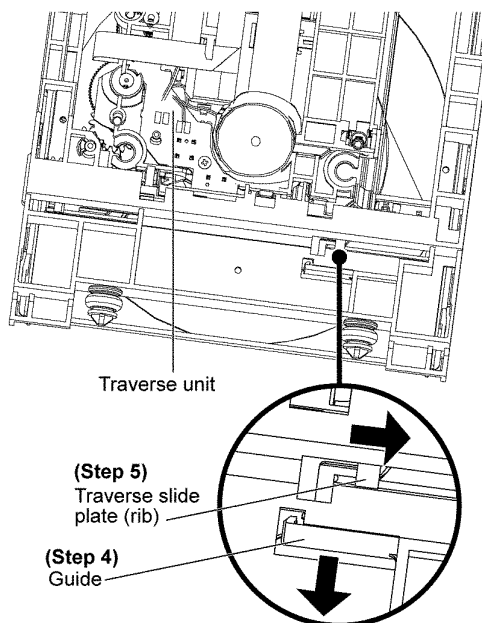


Step 1 : Release the guide.

Step 2 : Push the traverse slide plate (rib), ensure both grooves are opened.



Step 3 : Slot the traverse unit at approximately 45° into the mecha chassis as arrow shown.
Caution : Ensure the bosses fix exactly onto the guides.



Step 4 : Release the guide.
Step 5 : Push the traverse slide plate (rib) to lock the traverse unit in.

12 Service Position

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

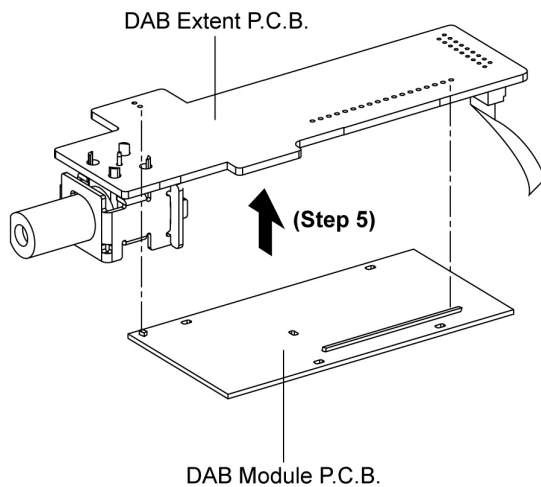
12.1. Checking & Repairing DAB Module P.C.B.

Step 1 : Remove Top Cabinet Assembly.

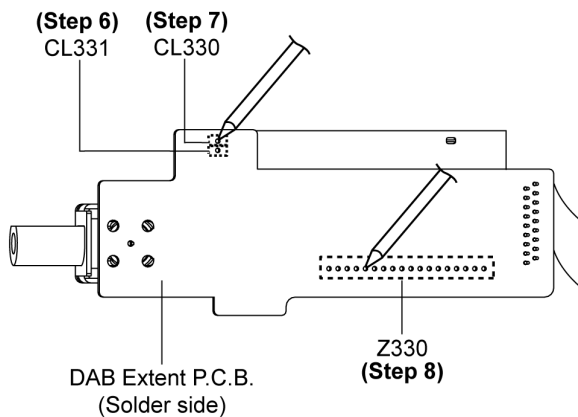
Step 2 : Remove DAB Unit.

Step 3 : Remove DAB Extent P.C.B..

Step 4 : Remove DAB Module P.C.B..



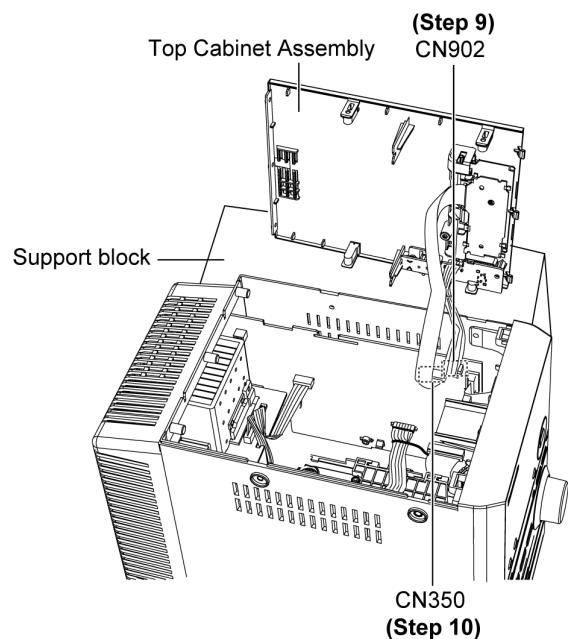
Step 5 : Connect DAB Module P.C.B to the DAB Extent P.C.B..



Step 6 : Solder point of (CL331).

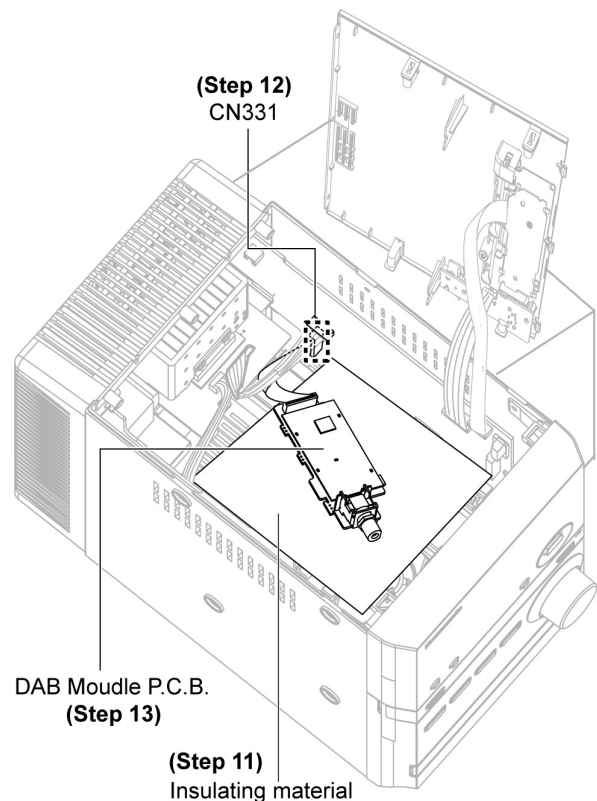
Step 7 : Solder point of (CL330).

Step 8 : Solder points of (Z330).



Step 9 : Connect 5P cable at connector (CN902) on Main P.C.B..

Step 10 : Connect 14P FFC at connector (CN350) on Main P.C.B..



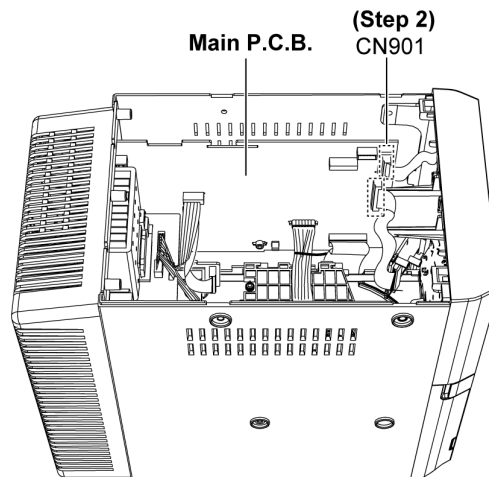
Step 11 : Lay an insulating material under the DAB unit.

Step 12 : Connect 18P FFC at the connector (CN331) on Main P.C.B..

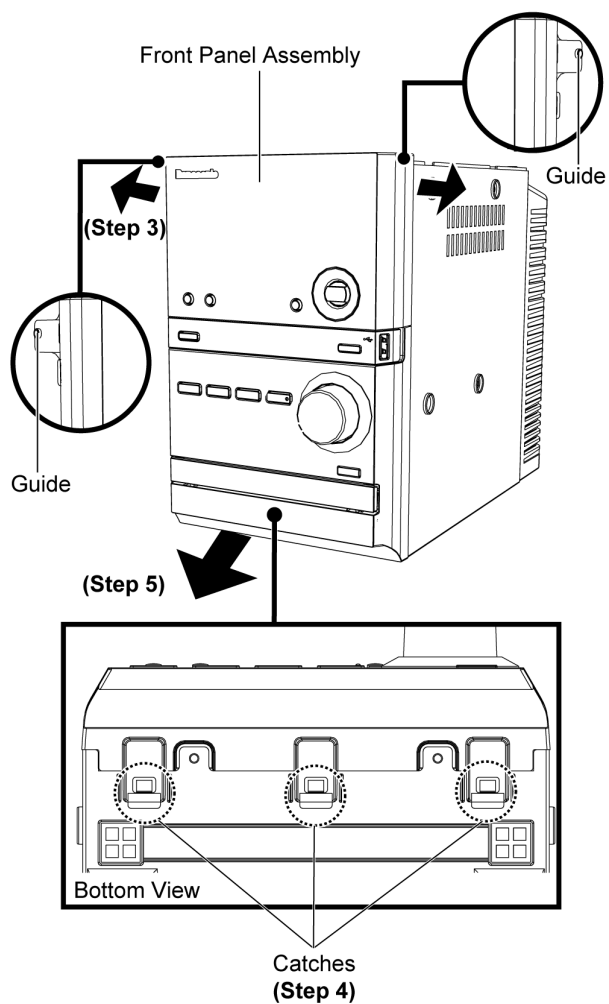
Step 13 : Check and repair DAB Module P.C.B. according to the diagram shown.

12.2. Checking & Repairing USB P.C.B.

Step 1 : Remove Top Cabinet Assembly.



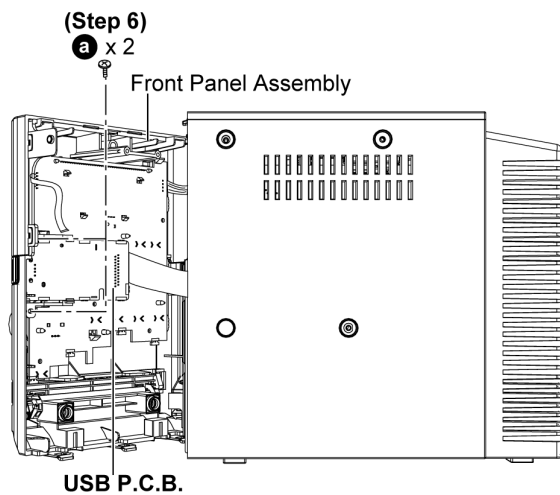
Step 2 : Detach 11P FFC at connector (CN901) on Main P.C.B..



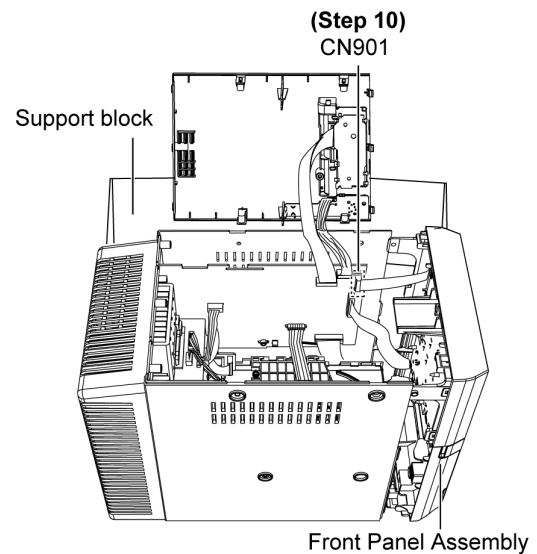
Step 3 : Release both guides.

Step 4 : Release 3 Catches.

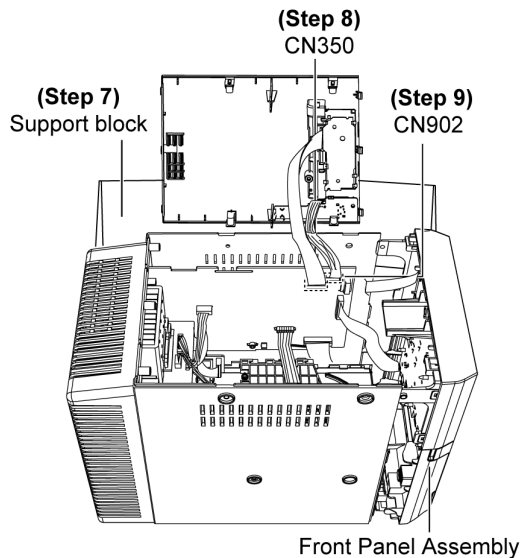
Step 5 : Slightly remove Front Panel Assembly.



Step 6 : Remove 2 screws.



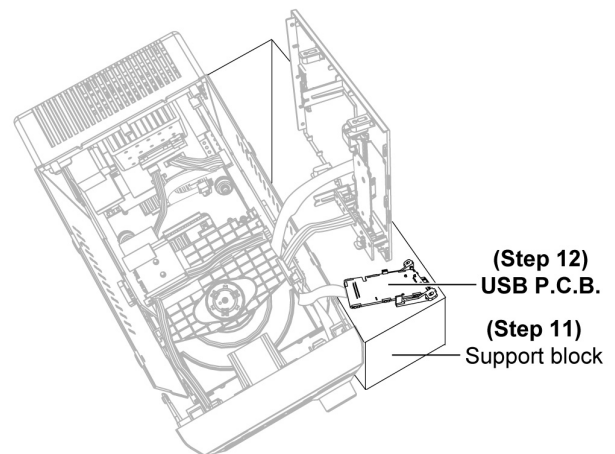
Step 10 : Connect 11P FFC at connector (CN901) on Main P.C.B..



Step 7 : Place a support block underneath the Top Cabinet Assembly.

Step 8 : Connect 14P FFC at connector (CN350) on Main P.C.B..

Step 9 : Connect 5P cable at connector (CN902) on Main P.C.B..



Step 11 : Place a support block underneath the USB P.C.B..

Step 12 : Check & repair USB P.C.B. according to the diagram shown.

12.3. Checking & Repairing Panel P.C.B.

Step 1 : Remove Top Cabinet Assembly.

Step 2 : Remove Front Panel Assembly.

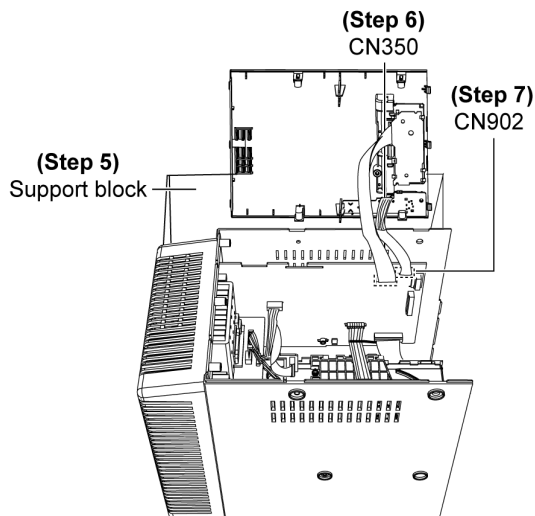
Step 3 : Remove USB P.C.B..

Step 4 : Remove Panel P.C.B..

Step 10 : Connect 4P cable at connector (CN5902) on Transformer P.C.B..

Step 11 : Connect 22P FFC at connector (CN380) on Main P.C.B..

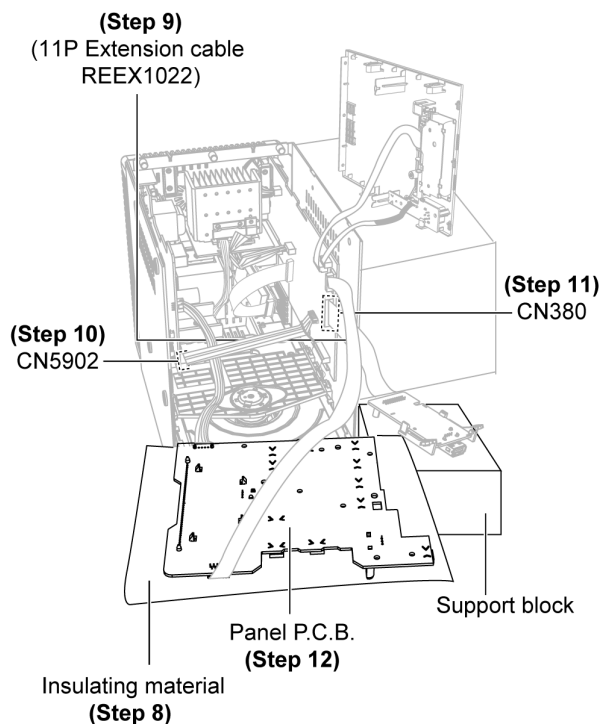
Step 12 : Check & repair Panel P.C.B. according to the diagram shown.



Step 5 : Place a support block underneath the Top Cabinet Assembly.

Step 6 : Connect 14P FFC at connector (CN350) on Main P.C.B..

Step 7 : Connect 5P cable at connector (CN902) on Main P.C.B..



Step 8 : Lay an insulating material on Panel P.C.B..

Step 9 : Attach extension cable REEX1022 (11P FFC from CN901 on Main P.C.B. to CN900 on Panel P.C.B.).

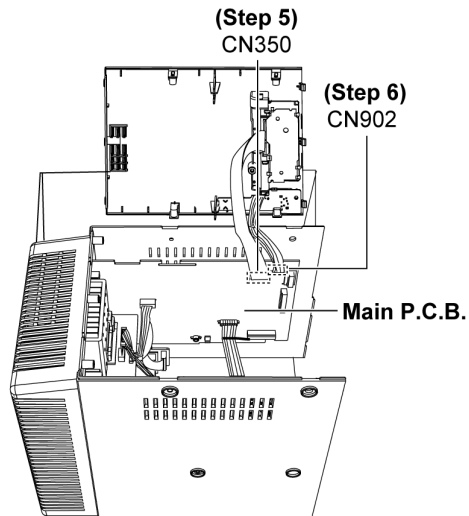
12.4. Checking & Repairing CD Servo P.C.B.

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

Step 1 : Remove Top Cabinet Assembly.

Step 2 : Remove Front Panel Assembly.

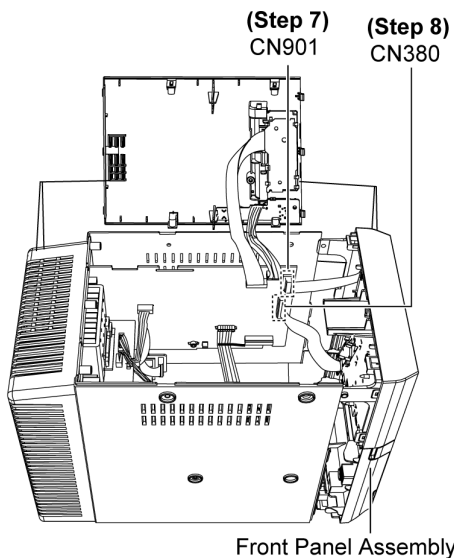
Step 3 : Remove CD Mechanism Unit (DLS6C).



Step 4 : Place a support block underneath the Top Cabinet Assembly.

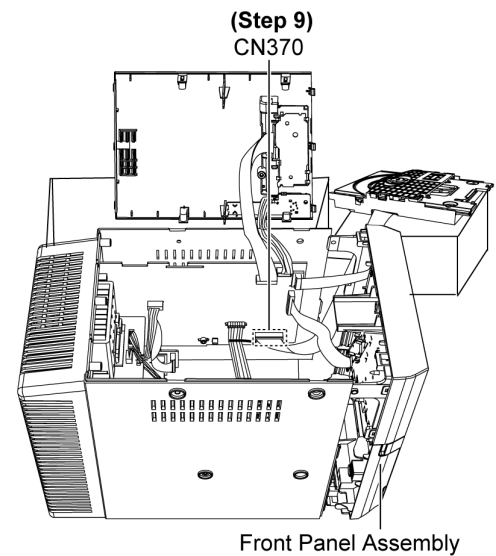
Step 5 : Connect 14P FFC at connector (CN350) on Main P.C.B..

Step 6 : Connect 5P cable at connector (CN902) on Main P.C.B..

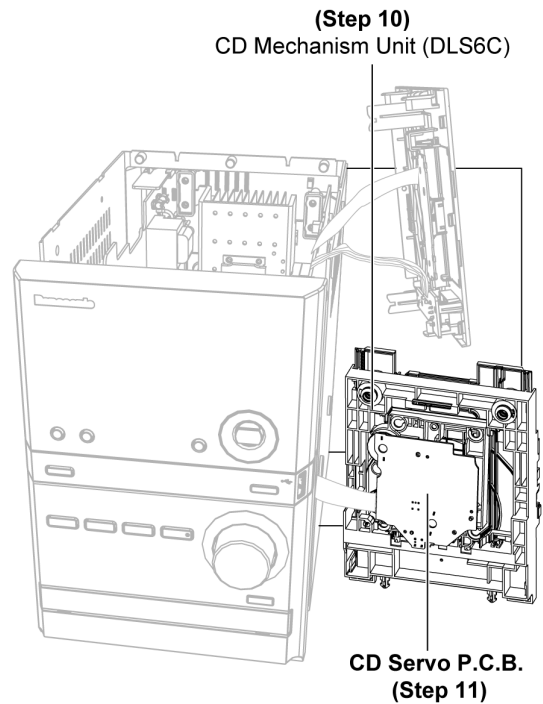


Step 7 : Connect 11P FFC at connector (CN901) on Main P.C.B..

Step 8 : Connect 22P FFC at connector (CN380) on Main P.C.B..



Step 9 : Connect 22P FFC at connector (CN370) on Main P.C.B..



Step 10 : Upset CD Mechanism Unit (DLS6C).

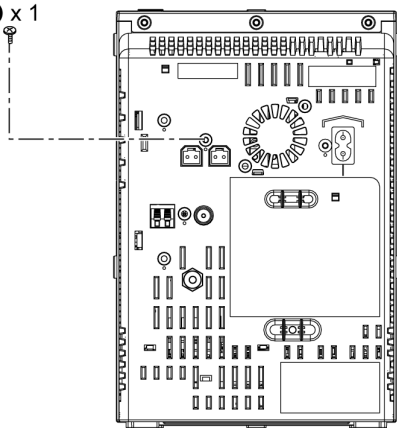
Step 11 : Check & repair CD Servo P.C.B. according to the diagram shown.

12.5. Checking & Repairing Power P.C.B.

Step 1 : Remove Top Cabinet Assembly.

Step 2 : Remove Front Panel Assembly.

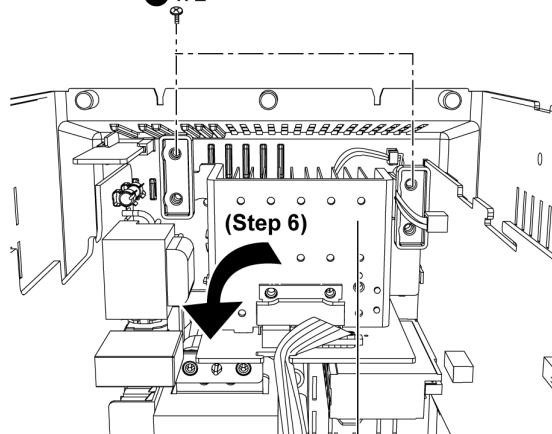
(Step 3)
a x 1



(Back View)

Step 3 : Remove 1 screw.

(Step 4)
a x 2



Power P.C.B.
(Step 5)

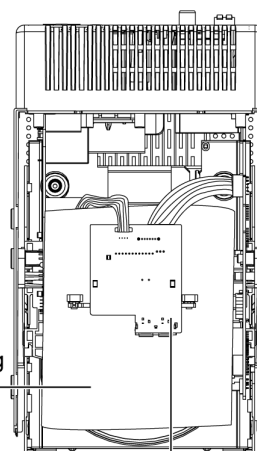
Step 4 : Remove 2 screws.

Step 5 : Detach Power P.C.B..

Step 6 : Flip over Power P.C.B. as arrow shown.

(Step 7)

Note :
Lay an insulating material



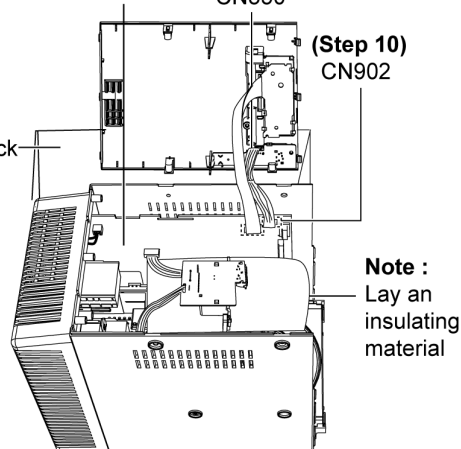
Power P.C.B.

Step 7 : Put insulating material under Power P.C.B..

(Step 9)
Main P.C.B. CN350

(Step 10)
CN902

(Step 8)
Support Block

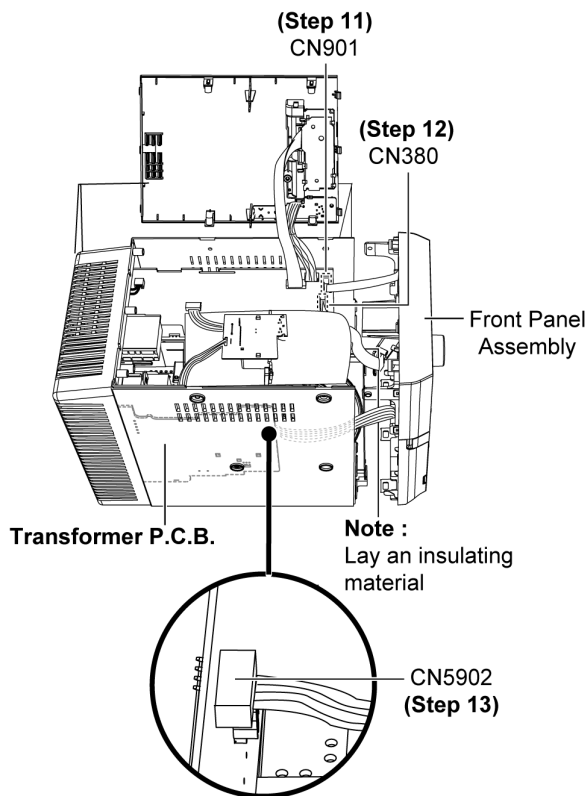


Note :
Lay an insulating material

Step 8 : Place a support block underneath the Top Cabinet Assembly.

Step 9 : Connect 14P FFC at connector (CN350) on Main P.C.B..

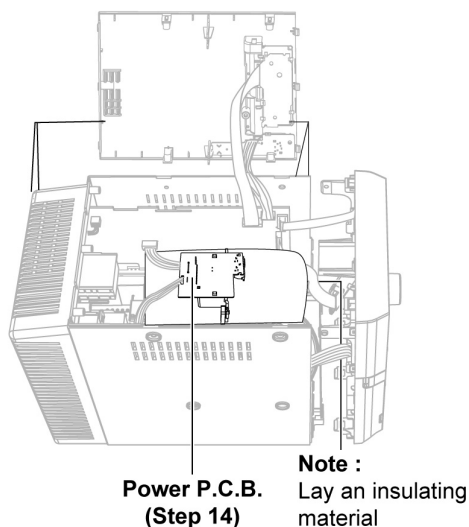
Step 10 : Connect 5P cable at connector (CN902) on Main P.C.B..



Step 11 : Connect 11P FFC at connector (CN901) on Main P.C.B..

Step 12 : Connect 22P FFC at connector (CN380) on USB P.C.B..

Step 13 : Connect 4P cable at connector (CN5902) on Transformer P.C.B..



Step 14 : Check & repair Power P.C.B. according to the diagram shown.

12.6. Checking & Repairing Transformer P.C.B.

Step 1 : Remove Top Cabinet Assembly.

Step 2 : Remove Front Panel Assembly.

Step 3 : Remove USB P.C.B..

Step 4 : Remove Panel P.C.B..

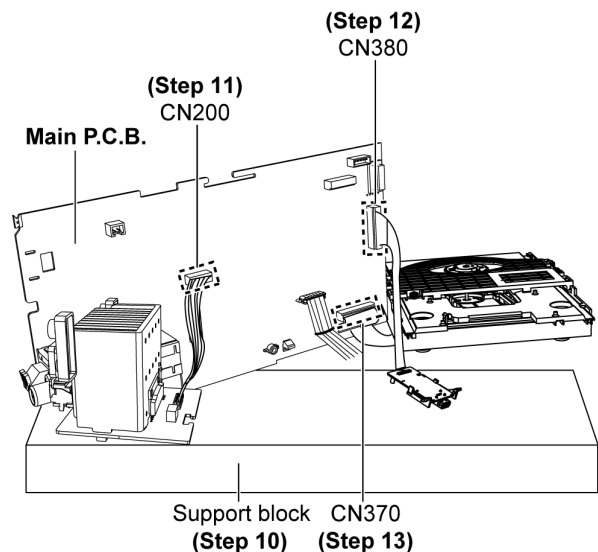
Step 5 : Remove Power P.C.B..

Step 6 : Remove Main P.C.B..

Step 7 : Remove Transformer P.C.B..

Step 8 : Remove CD Mechanism Unit (DLS6C).

Step 9 : Remove Fan Unit.

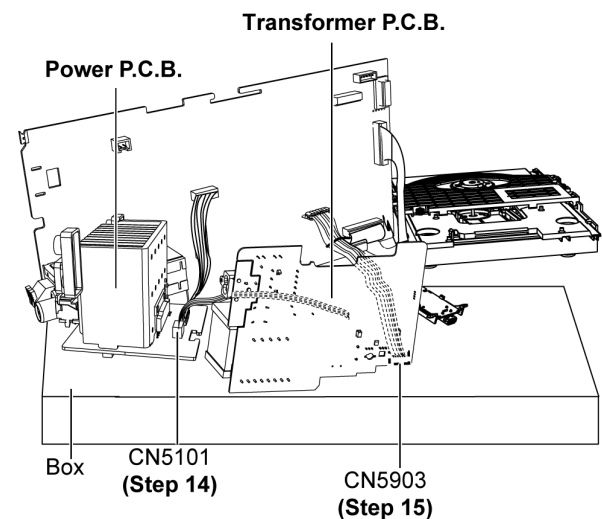


Step 10 : Place a support block as diagram shown.

Step 11 : Connect 6P cable at connector (CN200) on Main P.C.B..

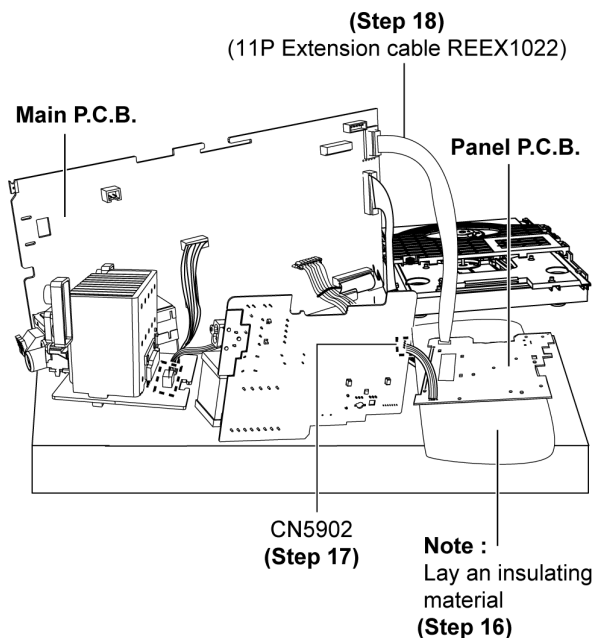
Step 12 : Connect 22P cable at connector (CN380) on Main P.C.B..

Step 13 : Connect 22P cable at connector (CN370) on Main P.C.B..



Step 14 : Connect 4P cable at connector (CN5101) on Power P.C.B..

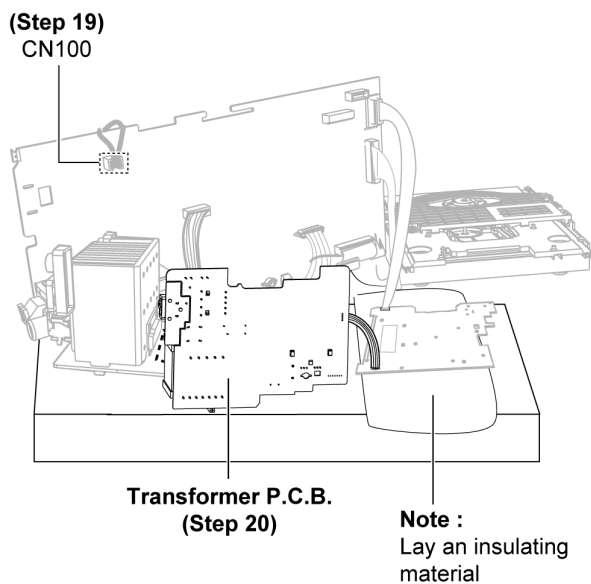
Step 15 : Connect 7P cable at connector (CN5903) on Transformer P.C.B..



Step 16 : Place on insulating material under Panel P.C.B..

Step 17 : Connect 4P cable at connector (CN5902) on Transformer P.C.B..

Step 18 : Attach extension cable REEX1022 (11P FFC from CN901 on Main P.C.B. to CN900 on Panel P.C.B.).

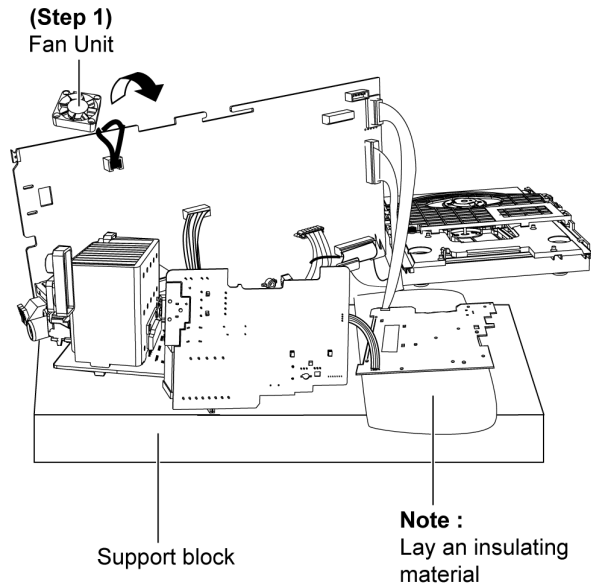


Step 19 : Connect 2P cable (Fan Unit) at connector (CN100) on Main P.C.B..

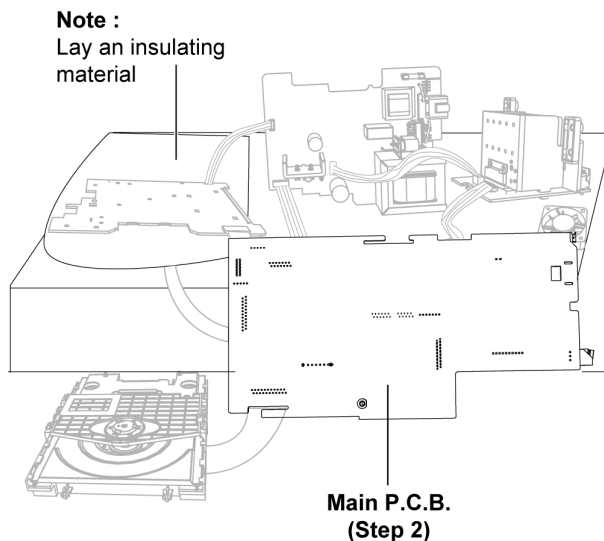
Step 20 : Check & repair Transformer P.C.B. according to the diagram shown.

12.7. Checking & Repairing Main P.C.B.

- Follow (Step 1 - Step 19) of item 12.6.



Step 1 : Flip over Fan Unit.



Step 2 : Check & repair Main P.C.B. according to the diagram shown.

13 Voltage Measurement & Waveform Chart

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.

13.1. USB P.C.B.

REF NO.	IC900																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.7	0.7	0.7	0	0	0	3.3	3.3	3.3	1.8	1.6	1.6	0	0	0	0	3.3	3.3	3.3	0.7
STANDBY	0.7	0.7	0.7	0	0	0	3.4	3.3	3.4	1.8	1.6	1.6	0	0	0	0	3.4	3.4	3.4	0.7

REF NO.	IC900																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	3.3	0.7	0
STANDBY	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	3.4	0.7	0

REF NO.	IC900																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.7	1.8	0.7	0	0.7	3.3	0.3	3.3	3.3	0	3.3	0.7	0	0	0.7	3.0	1.0	1.0	0	0.7
STANDBY	0.7	1.8	0.7	0	0.7	3.3	0.3	3.3	3.4	0	3.4	0.7	0	0	0.7	3.3	0	0	0	0.7

REF NO.	IC900																			
MODE	61	62	63	64																
CD PLAY	0	1.8	0.7	3.3																
STANDBY	0	1.8	0.7	3.3																

SA-PM38DBEB USB P.C.B.

13.2. CD SERVO P.C.B.

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1.6	0	1.6	1.6	1.8	0	3.2	1.5	0	0	0	1.6	1.6	2	0	1.9	1.9	0	1.7	1.7
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0.2	2.4	1.7	1.9	0	0	3.2	1.2	0	1.2	1.6	1.6	0.9	1.4	1.5	1.5	0	3.2	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	3	3	3	2.9	0	3.2	0	0	0	1.6	3.2	0	3.2	1.6
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1.6	1.6	0	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1.5	0	0	0	0	0	0	7.5	1.7	3.2	3.2	3.2	2.8	3.8	3.2	3.2	7.5	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	0	0	0	0	7.1	1.6	1.6	1.6	0	0										
STANDBY	0	0	0	0	0	0	0	0	0	0										
Ref No.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.1	2	2.4																	
STANDBY	0	0.1	0																	

SA-PM38DBEB CD SERVO P.C.B.

13.3. MAIN P.C.B. (1/2)

REF NO.	IC200																			
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	4.5	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0	3.3	3.3
STANDBY	0	0	0.5	0	0.5	0.5	0.5	0.5	0	0	0	0.5	0	0.5	0.5	0.5	0.5	0	0	0

REF NO.	IC200																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9	4.5	4.5	4.5	0.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	0	0	4.5
STANDBY	0	0	0.5	0.5	0	0.5	0	0	0	0	0	0	0	0	0.5	0	0.5	0	0	0.5

REF NO.	IC200																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	0	4.5	0	4.5	0	4.5	4.5	0	0	4.5	0	4.5								
STANDBY	0	0.5	0	0.5	0	0	0	0	0	0.5	0	0								

REF NO.	IC600																			
MODE	1	2	3	4	5															
CD PLAY	7.5	7.5	0	5	1.25															
STANDBY	0.5	0.5	0	0.7	1.25															

REF NO.	IC601																			
MODE	1	2	3	4	5															
CD PLAY	5	0	1.2	3.3	5															
STANDBY	0.7	0	0	0	0.7															

REF NO.	IC700																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.8	0	4.8	0	4.8	0	4.8	9												
STANDBY	0	0	0	0	0	0	0	0												

SA-PM38DBEB MAIN P.C.B.

13.4. MAIN P.C.B. (2/2)

REF NO.	IC800																			
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	3.3	1.2	0	3.3	0	3.3	0	3.3	0	0	1.5	1.5	0	1	1.6	3.3	1.8	3.3	3.3
STANDBY	0	0	0	0	0	0	3.3	0	0	0	0	1.5	1.5	0	1.5	1.5	3.3	0	1.8	3.3

REF NO.	IC800																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	3.2	0	0	3.3	1	0	0	0	1.1	3.3	2.8	3.3	0	3.3	3.3	1.8	0	0	3.3
STANDBY	0	1.2	2	0	3.3	2	1.5	0	0	0	0	0	0	0	0	1.2	1.8	0	0	3.3

REF NO.	IC800																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	3.3	3.3	0	3.3	0	3.3	3.3	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	3.3	3.3	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC800																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	3.3	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	1	0	0	0
STANDBY	0	3.3	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	1.2	0	0	0

REF NO.	IC800																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	0	0	0	0	0	3.3	3.3	0	3.3	3.3	0	0	2.2	2	0	0	3.3
STANDBY	0	0	0	0	0	0	0	0	3.3	3.3	0	3.3	3.3	0	0	1.2	2	3.3	0	3.3

REF NO.	Q760																			
MODE	1	2	3	4	5	6														
REC	0	-1.4	0	0	-1.4	0														
STANDBY	0	0.7	0	0	0.7	0														

REF NO.	Q761																			
MODE	1	2	3	4	5	6														
REC	0	-1.1	0	0	-1.1	0														
STANDBY	0	0	0	0	0	0														

REF NO.	Q100			Q101			Q350			Q375			Q382		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	2.3	0	0	0	0.5	0	3.3	0	5.4	5.4	4.6	0	1.3	0
STANDBY	0	0	0	0	0	0	0	3.3	0	0	1.3	1.3	0.5	0	0.5

REF NO.	Q600			Q602			Q603			Q604			Q761		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	13.6	9	13	5.3	7	5.7	8.8	13	9	5.3	5	0	3.3	-1	3.3
STANDBY	0	0	0	5.3	2.6	0	0	0	0.5	0	0	0	3.3	3.3	0

REF NO.	Q762			Q802			QR375			QR376			QR384		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	3.3	-1	3.3	0	3.3	0	0	0	3.2	3.3	3.3	0	0	1.3	0
STANDBY	3.3	3.3	0	0	3.3	0	0	1.3	0	0	1.7	1.3	0	0.5	0

REF NO.	QR600														
MODE	E	C	B												
CD PLAY	0	0	5												
STANDBY	0	0	0												

SA-PM38DBEB MAIN P.C.B.

13.5. PANEL P.C.B.

REF NO.	IC900																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	1.8	0	1.2	0.8	1.2	0	0	0	3.3	-29	-29	-27	-27	-27	-24.5	-24.5
STANDBY	0	0	0	0	0.9	0	0	0	0	0	0	0	1.2	0.7	0.7	0.7	0.7	0.7	0.7	0.7

REF NO.	IC900																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-29	-24.5	-27	-29.5	-29.5	-29.5	-29.5	-24.5	-20	-24.5	-24.5	-27.5	-24.5	-27	-27	-27	-27	-27	-27	-27
STANDBY	0.7	0.7	0	0.7	0.7	0.7	0.7	0.7	0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

REF NO.	IC900																			
MODE	41	42	43	44																
CD PLAY	-27	-27	3.3	0																
STANDBY	0.7	1.1	1.2	0																

SA-PM38DBEB PANEL P.C.B.

13.6. POWER P.C.B.

REF NO.	IC5101															
MODE	1	2	3	4	5	6	7	8	9	10	11	12				
CD PLAY	15.2	7.1	0	7	3.3	0	0	0	2.6	7.1	0	7.1				
STANDBY	0.9	0	0	0	0	0	0	0	1.2	0	0	0				

SA-PM38DBEB POWER P.C.B.

13.7. TRANSFORMER P.C.B.

REF NO.	IC5901																			
MODE	1	2	3	4	5															
CD PLAY	6	0	1.5	3.3	6															
STANDBY	6.5	0	1.2	0	6.5															

REF NO.	Q5901				Q5902				Q5903				Q5904				Q5905			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	14.5	7	12		6.8	6.8	7.2		0	0	0		0	1.8	1.8		0	0	0	
STANDBY	0.5	0.2	0.2		0	0.2	0.5		0.6	0	0		0	1.8	2		0	6	0	

REF NO.	Q5907																			
MODE	E	C	B																	
CD PLAY	6	9.2	8																	
STANDBY	6	11	6.6																	

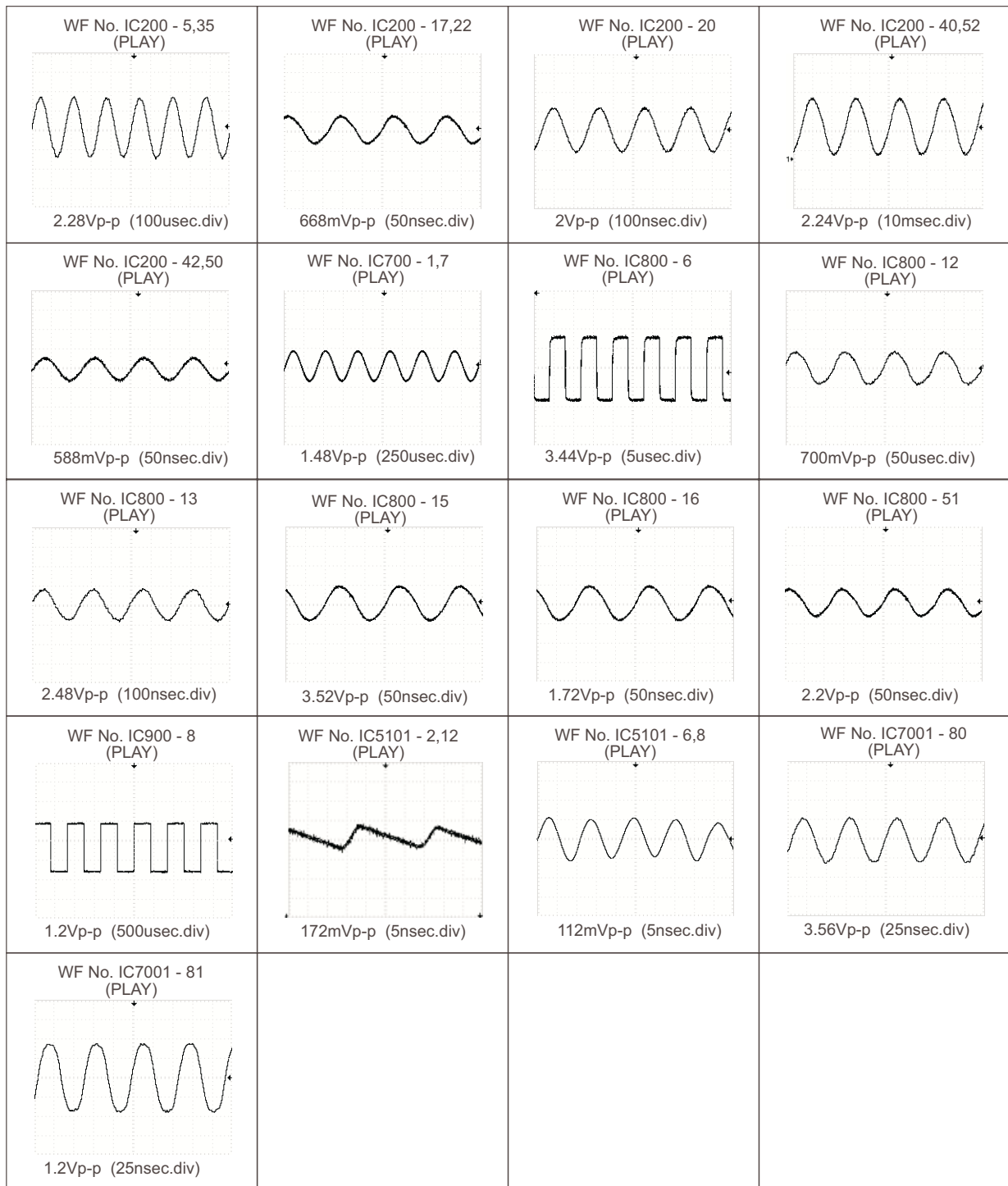
SA-PM38DBEB TRANSFORMER P.C.B.

13.8. DAB MODULE P.C.B.

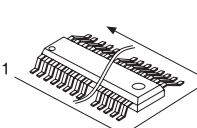
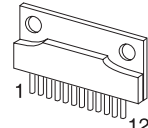
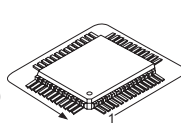
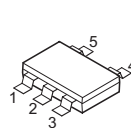
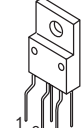
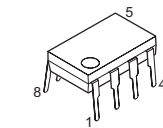
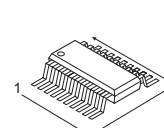
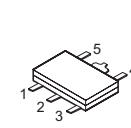
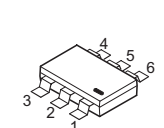
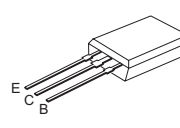
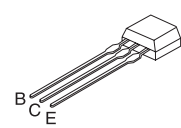
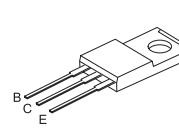
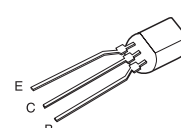
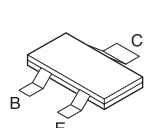
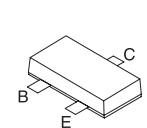
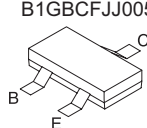
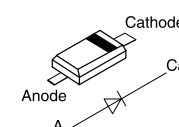
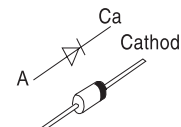
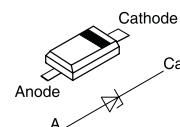
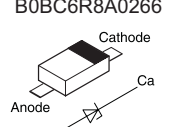
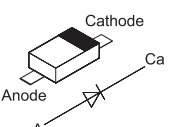
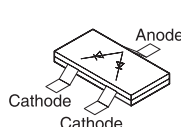
Ref No.	IC1																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	1.7	1.7	3.3	2.2	1.2	1.2	0	0	0	0	0	0	0	0	0	0	0	0	3.3
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC1																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	1.2	0	3.3	0	0	0	0	1.3	1.7	1.6	0	1.2	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC1																			
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	3.3	1.2	0	3.3	3.2	0	0	3.2	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC1																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	3.3	3.3	1.7	1.5	0	0	0	3.3	1.2	0	3.3	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC3																			
MODE	1	2	3	4	5															
CD PLAY	0	0	3.1	5	3.3															
STANDBY	0	0	0	0	0															
Ref No.	IC4																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	1.3	1.6	0	1.7	3.1	0	0	0	3.3	1.8	0	1.8	0	3.3	3.3	3.3				
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Ref No.	IC201																			
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	3.3	2.5	3.3	0	0	0	0	1.5	0.6	0.6	0.6	0	3.3	0	3.3	0	0	3.2	2.4
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.2	1.6	1.6	1.8	1.7	1.2	1.7	1.7	3.1	2.3	3.3	0	1.5	0	0	0	3.1	0	1.6	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	Q1				Q2				Q201				Q202							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0	1.3	0		0	1.5	1		3.3	3.3	0		0	0	1.5					
STANDBY	0	0	0		0	0	0		0	0	0		0	0	0					

SA-PM38DBEB DAB MODULE P.C.B.

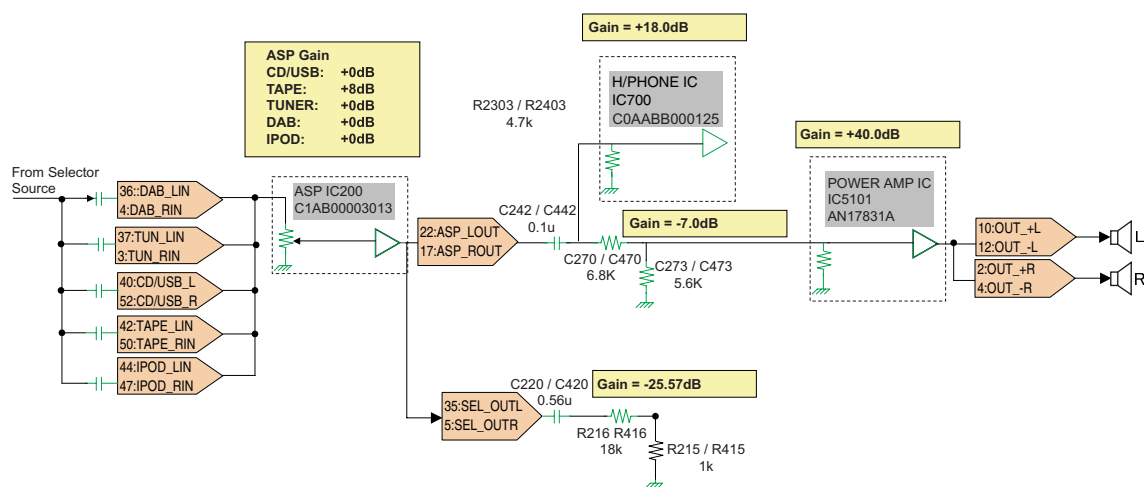
13.9. Waveform Chart



14 Illustration of IC's, Transistors and Diodes

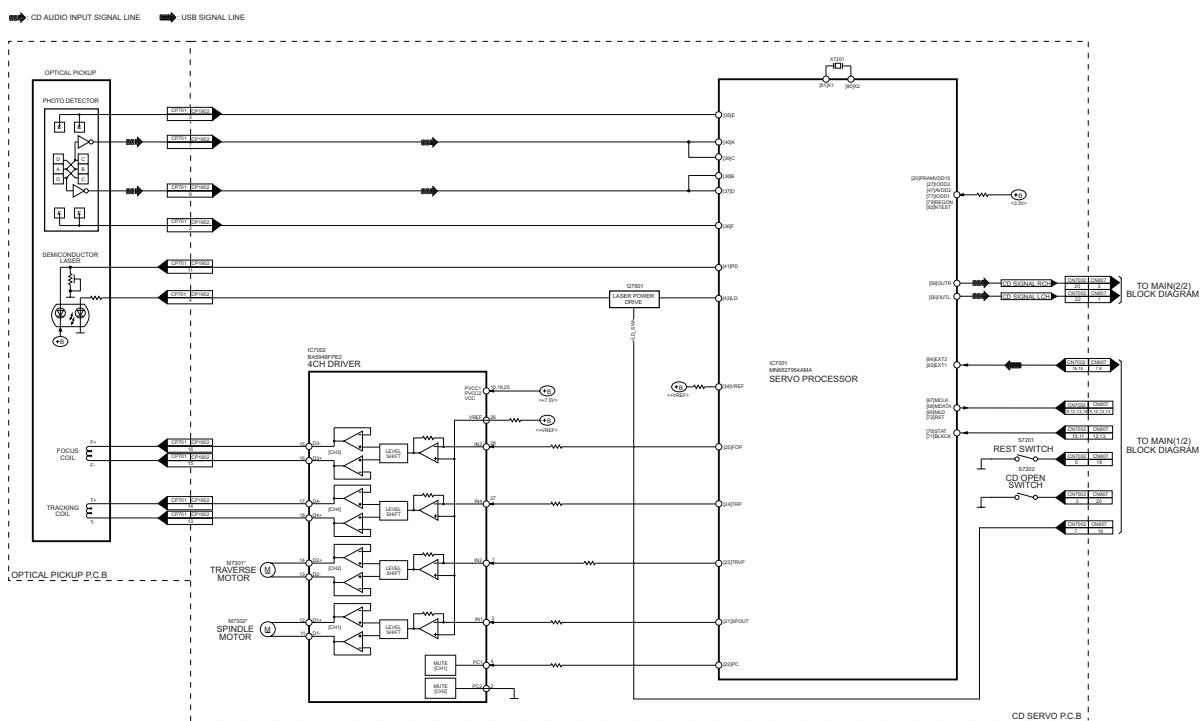
BA5948FPE2 (28P) 	AN17831A 	C0HBB0000057 (44P) C1AB00002719 (40P) C1AB00003013 (52P) MN6627954AMA (100P) MN66721 (80P) MNZSFB5KJM2 (64P) RFKWMPM38DB (100P) 	C0DBGYY00089 	C0DAEJG00001 	
C0AABB000125 	C0FBBK000066 (16P) 	C0CBCBC00208 (5P) 	B1GFGCAA0001 	B1BAG000007 B1BACD000018 	B1BCCD000019 
B1BCCG000023 	2SB0621AHA 	B1ABDF000026 B1ADCF000001 B1ADCE000012 B1GBCFGN0016 B1GBCFJN0009 UNR211100L UNR221100L UNR521400L	UNR9211J0L UNR9111J0L 	UNR9211J0L UNR9111J0L 	2SC4627J0L B1ABCF000176 B1GBCFJJ0051 
MA2J11100L MAZ80560ML 	B0EAKM000117 B0EAMM000038 	MAZ80680ML 	B0BC02900004 B0BC5R6A0266 B0BC6R8A0266 	MAZ80910ML 	B0ADFJ000004 

15 Overall Simplified Block for PM38



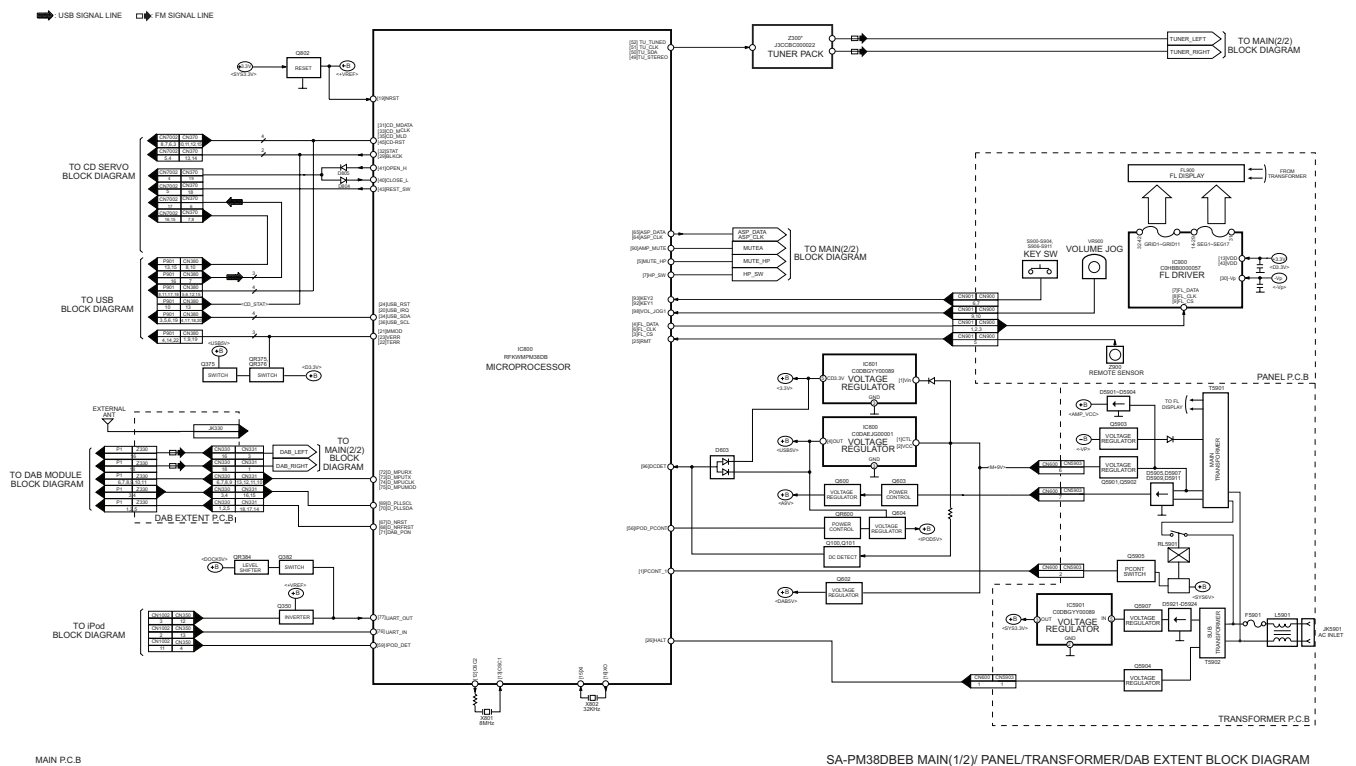
16 Block Diagram

16.1. CD SERVO BLOCK DIAGRAM

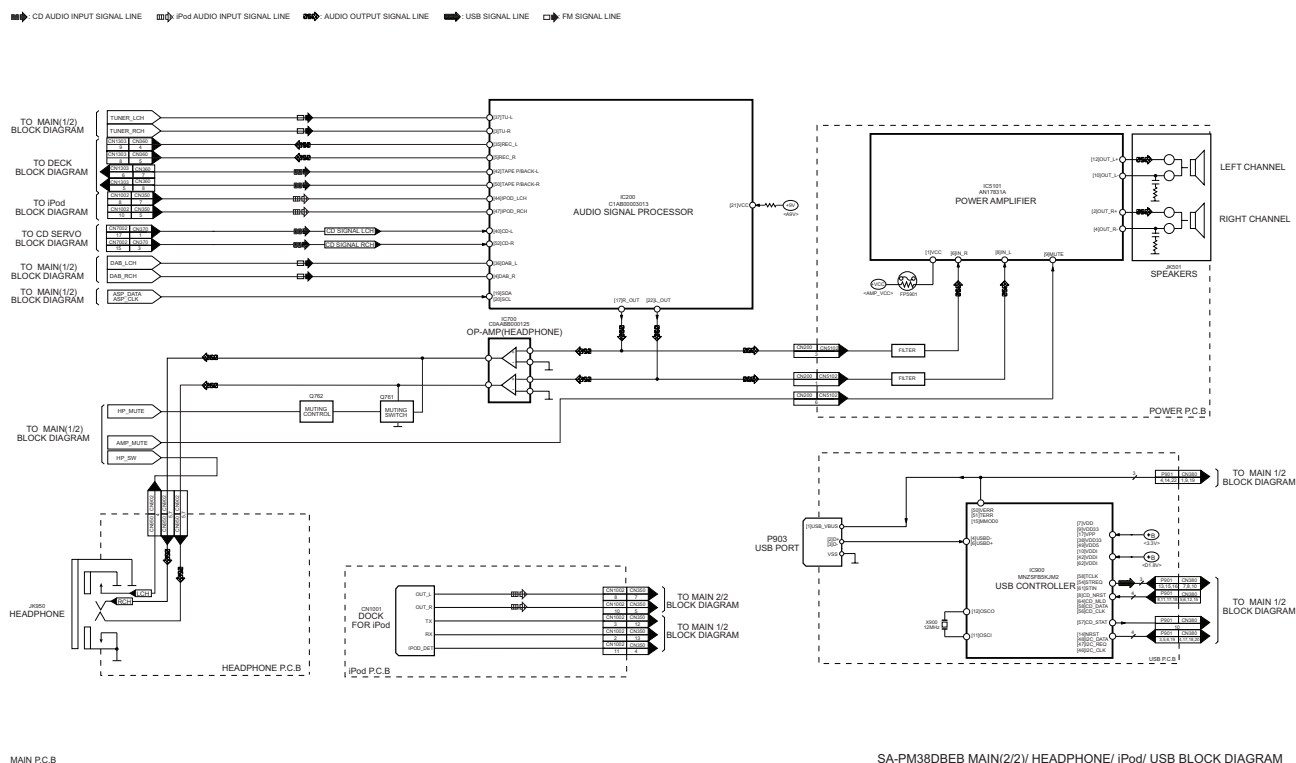


SA-PM38DBEB CD SERVO BLOCK DIAGRAM

16.2. MAIN(1/2)/ PANEL/TRANSFORMER/DAB EXTENT



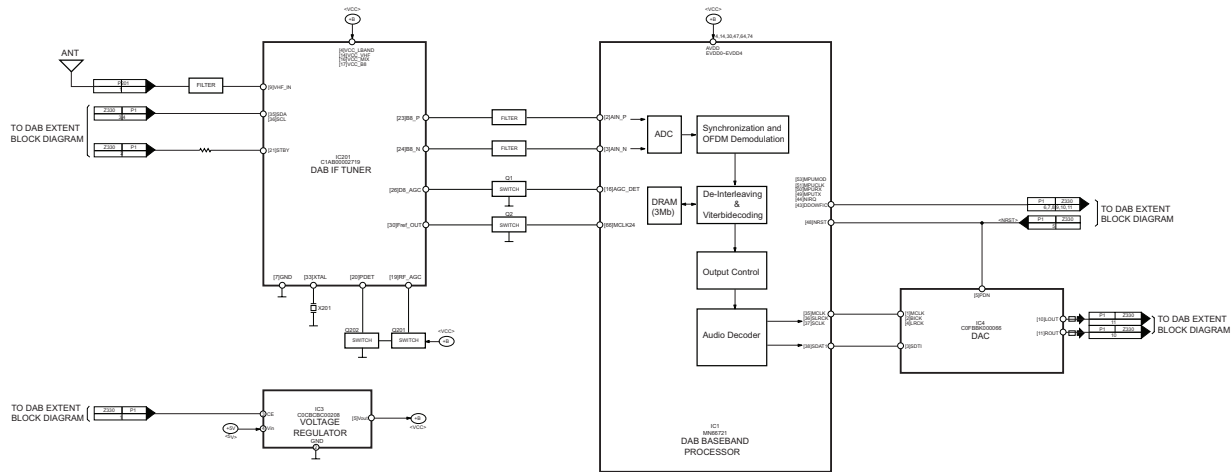
16.3. MAIN(2/2)/ HEADPHONE/ iPod/ USB BLOCK DIAGRAM



SA-PM38DBEB MAIN(2/2)/ HEADPHONE/ iPod/ USB BLOCK DIAGRAM

16.4. DAB MODULE BLOCK DIAGRAM

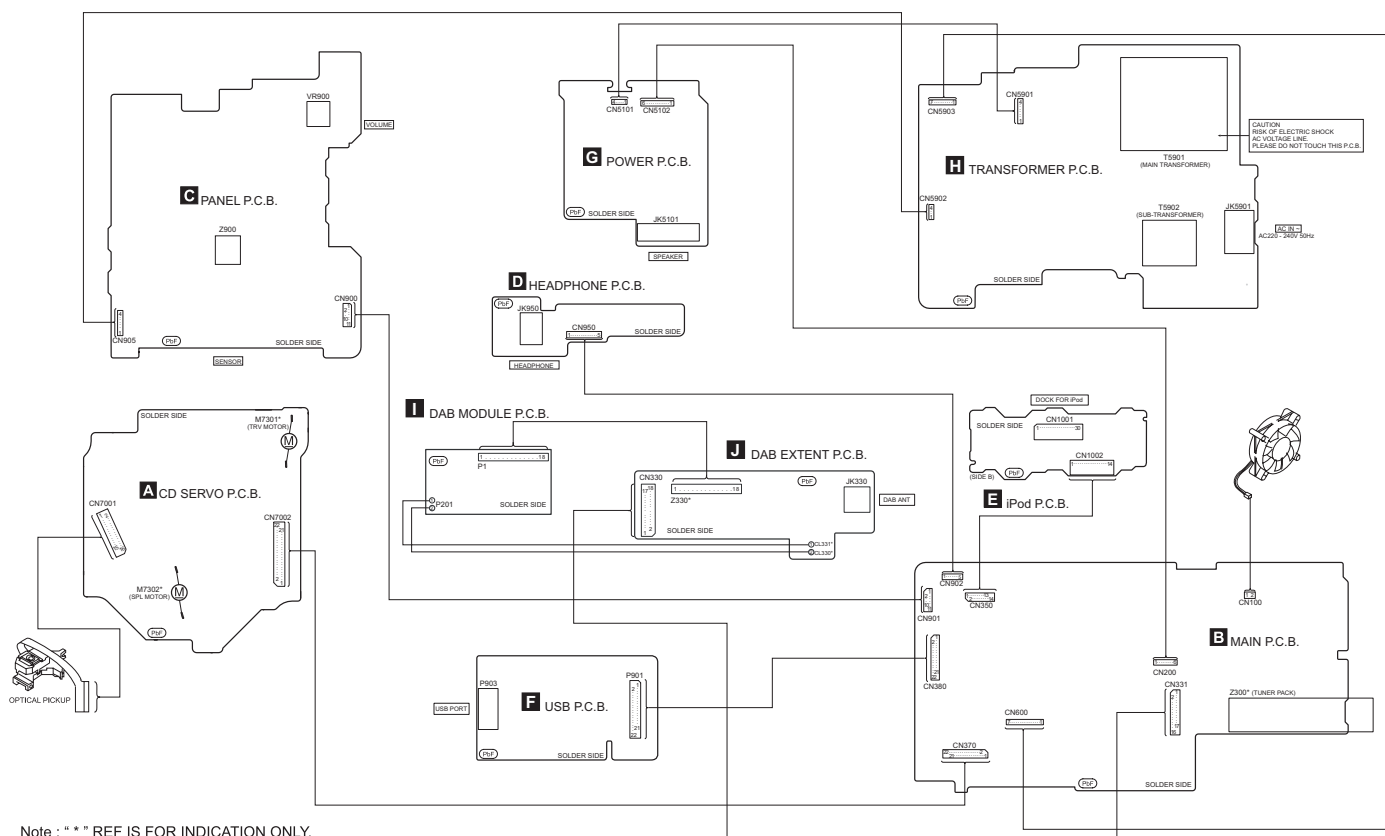
DAB SIGNAL LINE



DAB MODULE P.C.B

SA-PM38DBEB DAB MODULE BLOCK DIAGRAM

17 Wiring Connection Diagram



Note : " " " REF IS FOR INDICATION ONLY.

18 Schematic Diagram Notes

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

Notes:

S900:	-DEMO switch (■ / -DEMO).
S901:	CD PLAY/PAUSE switch (CD ►/).
S902:	USB switch (USB ►/).
S903:	FM/AM switch.
S904:	iPod switch (iPod ►/).
S906:	CD EJECT switch (OPEN/CLOSE ▲).
S907:	POWER switch (⏻/⏻).
S908:	REW switch (◀◀/◀◀).
S909:	FWD switch (▶▶/▶▶).
S910:	BASS/TREBLE switch.
S911:	D.BASS switch.
S7201:	REST switch.
S7202:	CD OPEN switch.
VR900:	Volume jog.

- “*” REF IS FOR INDICATION ONLY.

• Importance safety notice :

Components identified by (Δ) 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.

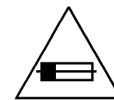
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- Capacitor values are in microfarad(μF) unless specified otherwise, F=Farad, pF=Pico-Farad
Resistance values are in ohm(Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

• Voltage and Signal lines:

	: +B Signal Line
	: -B Signal Line
	: CD Audio Input Signal Line
	: iPod Audio Input Signal Line
	: Audio Output Signal Line
	: DAB/FM Signal Line
	: USB Signal Line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F5901 T1AL, 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

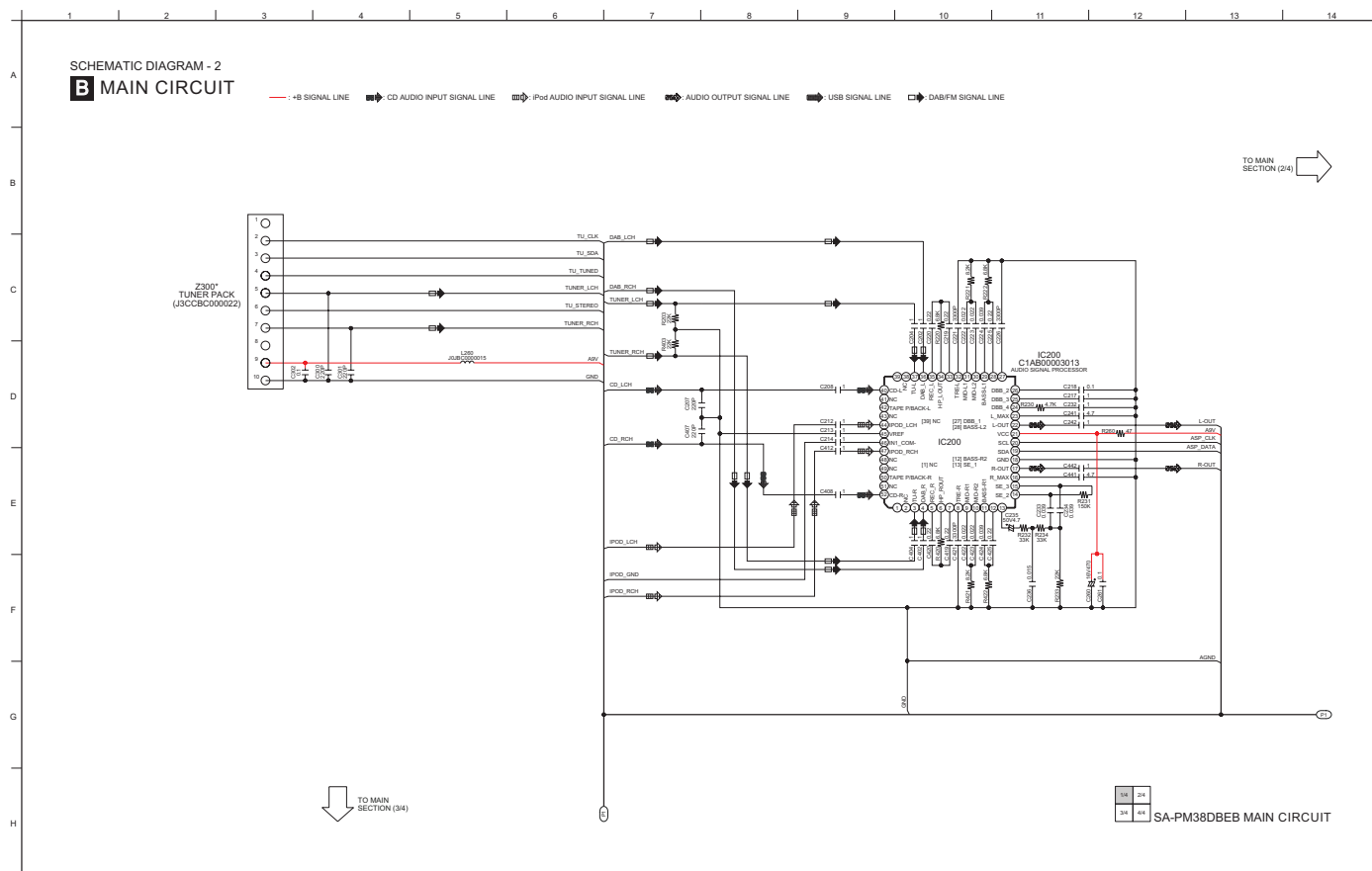


These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

19.1. CD SERVO CIRCUIT



19.2. MAIN CIRCUIT (1/4)



15 16 17 18 19 20 21 22 23 24 25 26 27 28

SCHEMATIC DIAGRAM - 3

B MAIN CIRCUIT

— I-B SIGNAL LINE — CD AUDIO INPUT SIGNAL LINE — iPod AUDIO INPUT SIGNAL LINE — AUDIO OUTPUT SIGNAL LINE — USB SIGNAL LINE — DAB/PM SIGNAL LINE

TO MAIN SECTION (14)

TO iPod CIRCUIT (CN100) IN SCHEMATIC DIAGRAM - 8

TO MAIN SECTION (44)

TO FAN

SA-PM38DBEB MAIN CIRCUIT

SCHEMATIC DIAGRAM - 4

B MAIN CIRCUIT

TO MAIN SECTION (14)

TO MAIN SECTION (44)

TO A CD SERVO CIRCUIT (CN370) IN SCHEMATIC DIAGRAM - 1

TO F USB CIRCUIT (CN380) IN SCHEMATIC DIAGRAM - 7

Legend:

- : +B SIGNAL LINE
- : CD AUDIO INPUT SIGNAL LINE
- : iPod AUDIO INPUT SIGNAL LINE
- : AUDIO OUTPUT SIGNAL LINE
- : USB SIGNAL LINE
- : DAB/FM SIGNAL LINE

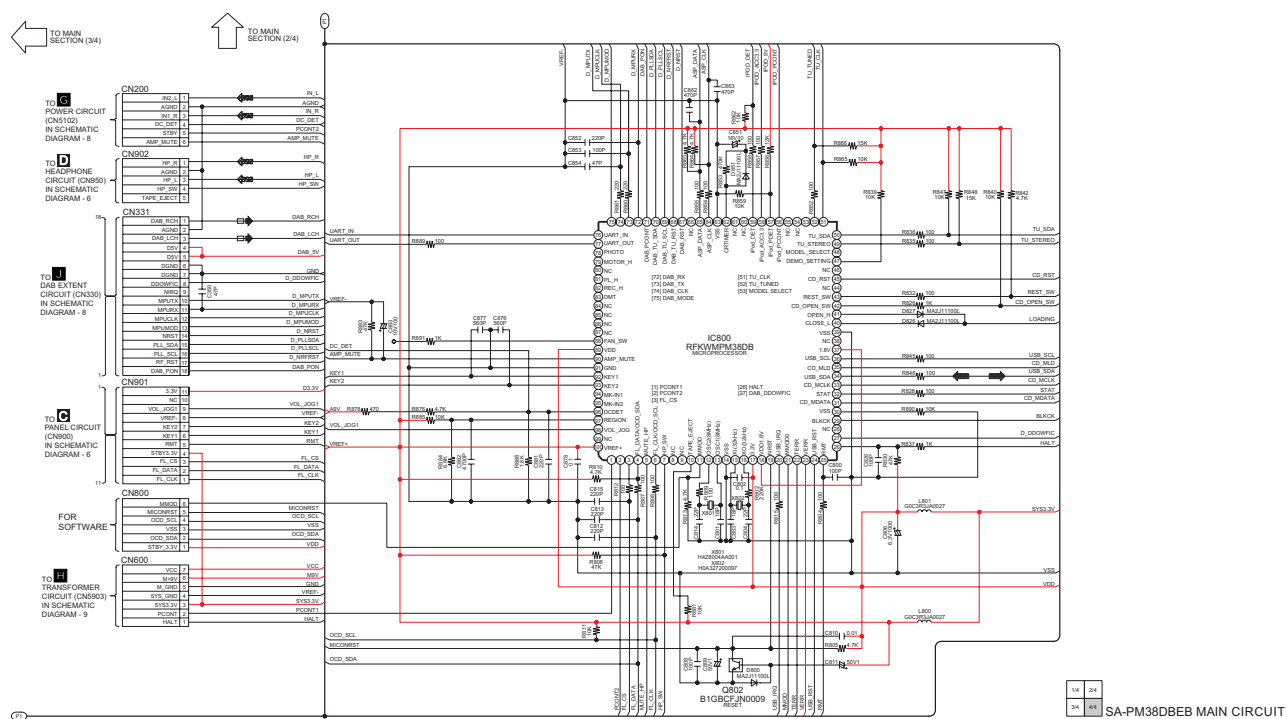
Key components and connections:

- IC700** (CXA4AB000125) - IC (HEADPHONE)
- Q761** (B16FCCA0001) - MOSFET
- Q762** (UNR21100L) - MOSFET
- Q375** (B16CCD000019) - MOSFET
- Q376** (UNR21100L) - MOSFET
- Q377** (UNR21400L) - MOSFET
- Q378** (UNR21100L) - MOSFET
- Q379** (UNR21100L) - MOSFET
- Q380** (UNR21100L) - MOSFET
- Q381** (UNR21100L) - MOSFET
- Q382** (UNR21100L) - MOSFET
- Q383** (UNR21100L) - MOSFET
- Q384** (UNR21100L) - MOSFET
- Q385** (UNR21100L) - MOSFET
- Q386** (UNR21100L) - MOSFET
- Q387** (UNR21100L) - MOSFET
- Q388** (UNR21100L) - MOSFET
- Q389** (UNR21100L) - MOSFET
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- Q399** (UNR21100L) - MOSFET
- Q400** (UNR21100L) - MOSFET
- Q401** (UNR21100L) - MOSFET
- Q402** (UNR21100L) - MOSFET
- Q403** (UNR21100L) - MOSFET
- Q404** (UNR21100L) - MOSFET
- Q405** (UNR21100L) - MOSFET
- Q406** (UNR21100L) - MOSFET
- Q407** (UNR21100L) - MOSFET
- Q408** (UNR21100L) - MOSFET
- Q409** (UNR21100L) - MOSFET
- Q410** (UNR21100L) - MOSFET
- Q411** (UNR21100L) - MOSFET
- Q412** (UNR21100L) - MOSFET
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- Q414** (UNR21100L) - MOSFET
- Q415** (UNR21100L) - MOSFET
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- Q418** (UNR21100L) - MOSFET
- Q419** (UNR21100L) - MOSFET
- Q420** (UNR21100L) - MOSFET
- Q421** (UNR21100L) - MOSFET
- Q422** (UNR21100L) - MOSFET
- Q423** (UNR21100L) - MOSFET
- Q424** (UNR21100L) - MOSFET
- Q425** (UNR21100L) - MOSFET
- Q426** (UNR21100L) - MOSFET
- Q427** (UNR21100L) - MOSFET
- Q428** (UNR21100L) - MOSFET
- Q429** (UNR21100L) - MOSFET
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- Q464** (UNR21100L) - MOSFET
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- Q466** (UNR21100L) - MOSFET
- Q467** (UNR21100L) - MOSFET
- Q468** (UNR21100L) - MOSFET
- Q469** (UNR21100L) - MOSFET
- Q470** (UNR21100L) - MOSFET
- Q471** (UNR21100L) - MOSFET
- Q472** (UNR21100L) - MOSFET
- Q473** (UNR21100L) - MOSFET
- Q474** (UNR21100L) - MOSFET
- Q475** (UNR21100L) - MOSFET
- Q476** (UNR21100L) - MOSFET
- Q477** (UNR21100L) - MOSFET
- Q478** (UNR21100L) - MOSFET
- Q479** (UNR21100L) - MOSFET
- Q480** (UNR21100L) - MOSFET
- Q481** (UNR21100L) - MOSFET
- Q482** (UNR21100L) - MOSFET
- Q483** (UNR21100L) - MOSFET
- Q484** (UNR21100L) - MOSFET
- Q485** (UNR21100L) - MOSFET
- Q486** (UNR21100L) - MOSFET
- Q487** (UNR21100L) - MOSFET
- Q488** (UNR21100L) - MOSFET
- Q489** (UNR21100L) - MOSFET
- Q490** (UNR21100L) - MOSFET
- Q491** (UNR21100L) - MOSFET
- Q492** (UNR21100L) - MOSFET
- Q493** (UNR21100L) - MOSFET
- Q494** (UNR21100L) - MOSFET
- Q495** (UNR21100L) - MOSFET
- Q496** (UNR21100L) - MOSFET
- Q497** (UNR21100L) - MOSFET
- Q498** (UNR21100L) - MOSFET
- Q499** (UNR21100L) - MOSFET
- Q5**

19.5. MAIN CIRCUIT (4/4)

SCHEMATIC DIAGRAM - 5

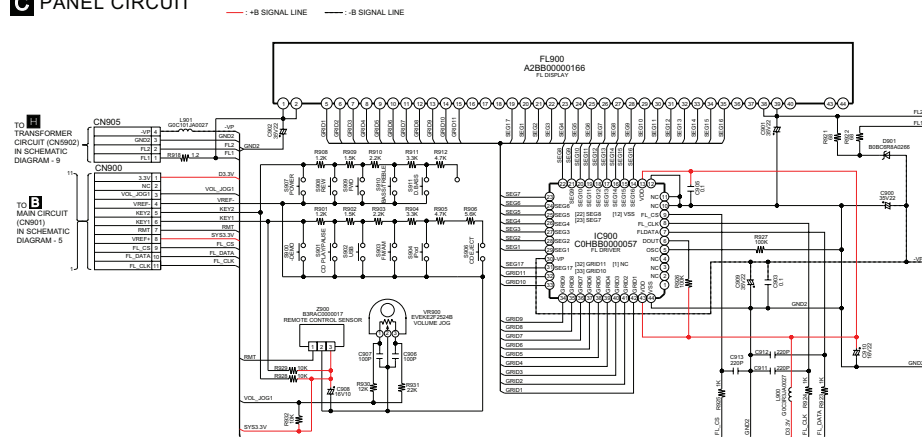
B MAIN CIRCUIT



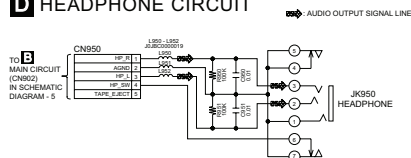
19.6. PANEL CIRCUIT and HEADPHONE CIRCUIT

SCHEMATIC DIAGRAM - 6

C PANEL CIRCUIT

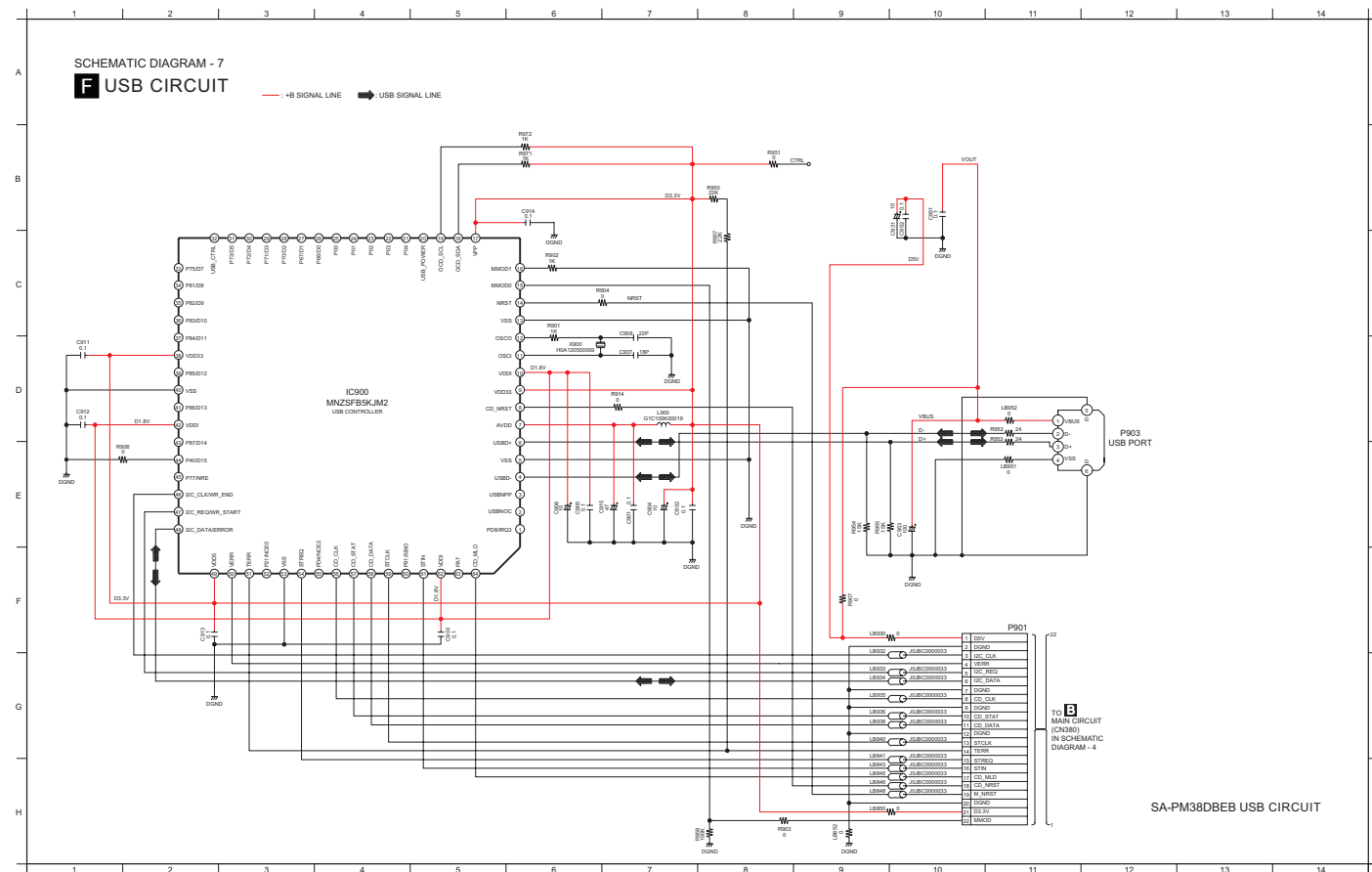


D HEADPHONE CIRCUIT



SA-PM38DBEB PANEL / HEADPHONE CIRCUIT

19.7. USB CIRCUIT



E iPod CIRCUIT

— +B SIGNAL LINE iPod AUDIO INPUT SIGNAL LINE

J DAB EXTENT CIRCUIT

— +B SIGNAL LINE DAB SIGNAL LINE

G POWER CIRCUIT

— +B SIGNAL LINE AUDIO OUTPUT SIGNAL LINE

TO [B] MAIN CIRCUIT (CN300) IN SCHEMATIC DIAGRAM - 3

TO [B] DAB MODULE CIRCUIT (P201) IN SCHEMATIC DIAGRAM - 10

TO [B] DAB MODULE CIRCUIT (P1) IN SCHEMATIC DIAGRAM - 10

TO [B] MAIN CIRCUIT (CN200) IN SCHEMATIC DIAGRAM - 5

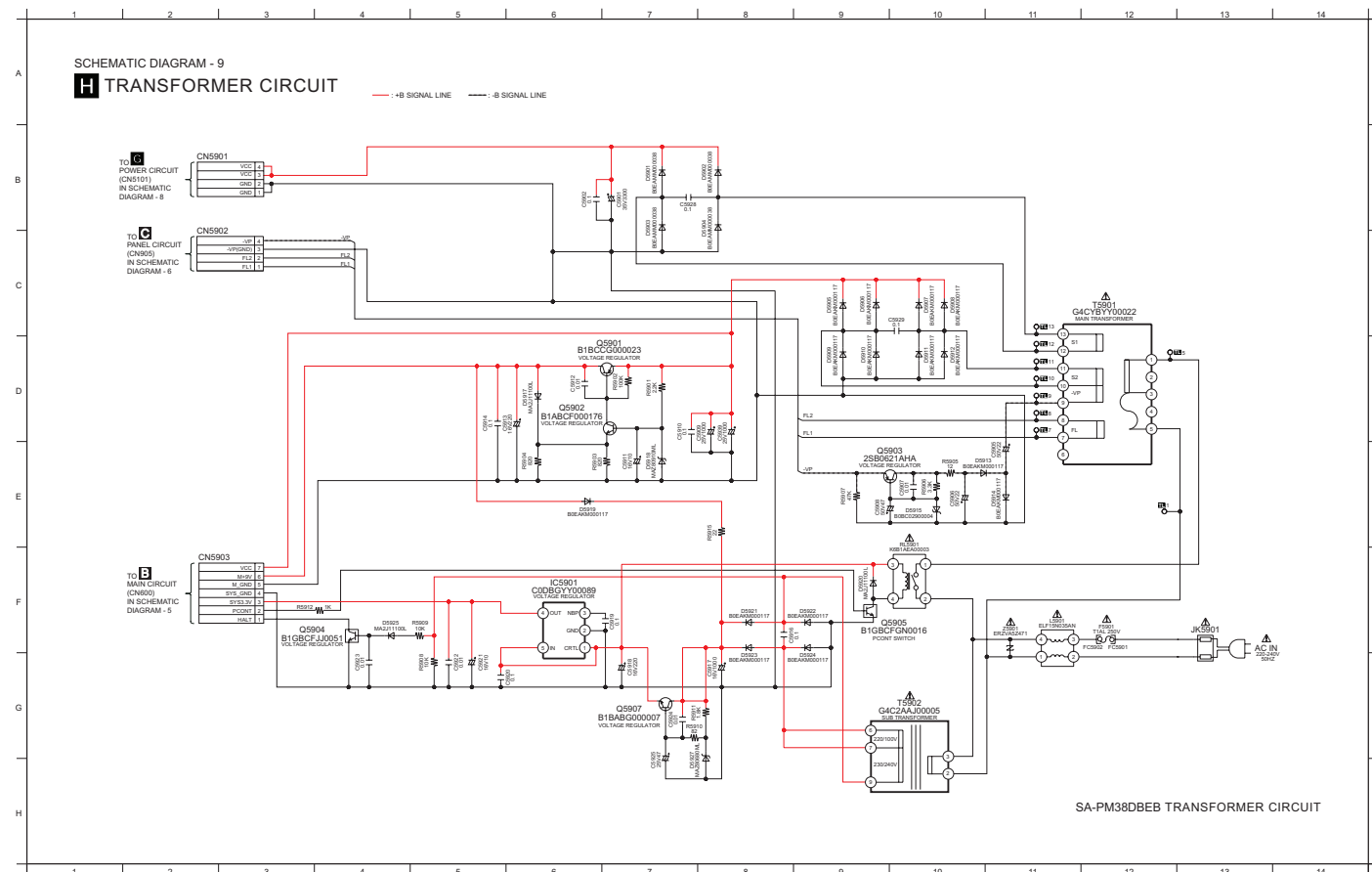
TO [H] TRANSFORMER CIRCUIT (CN500/1) IN SCHEMATIC DIAGRAM - 5

TO [B] MAIN CIRCUIT (CN331) IN SCHEMATIC DIAGRAM - 5

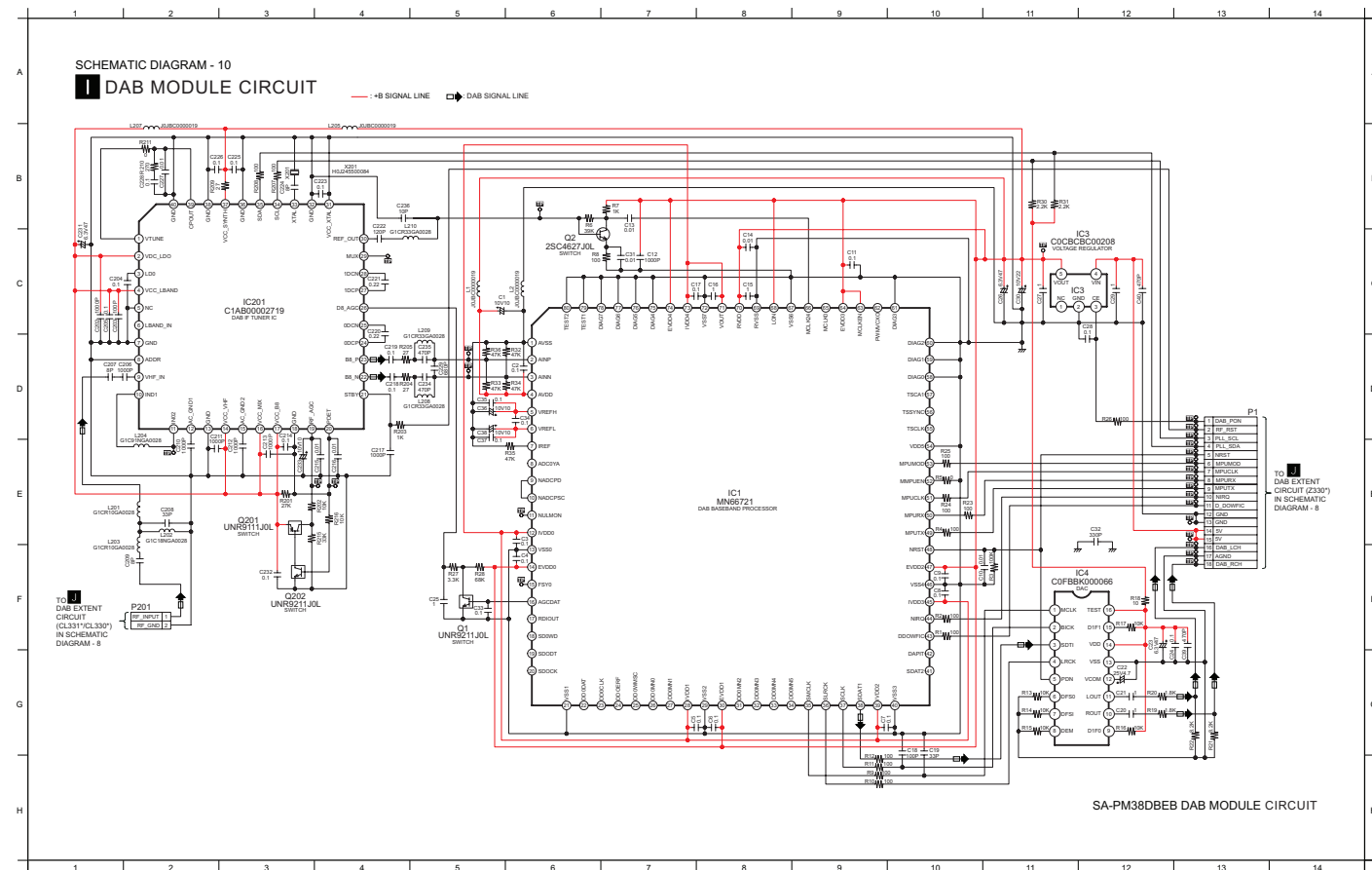
TO SPEAKERS

SA-PM38DBB iPod / POWER / DAB EXTENT CIRCUIT

19.9. TRANSFORMER CIRCUIT

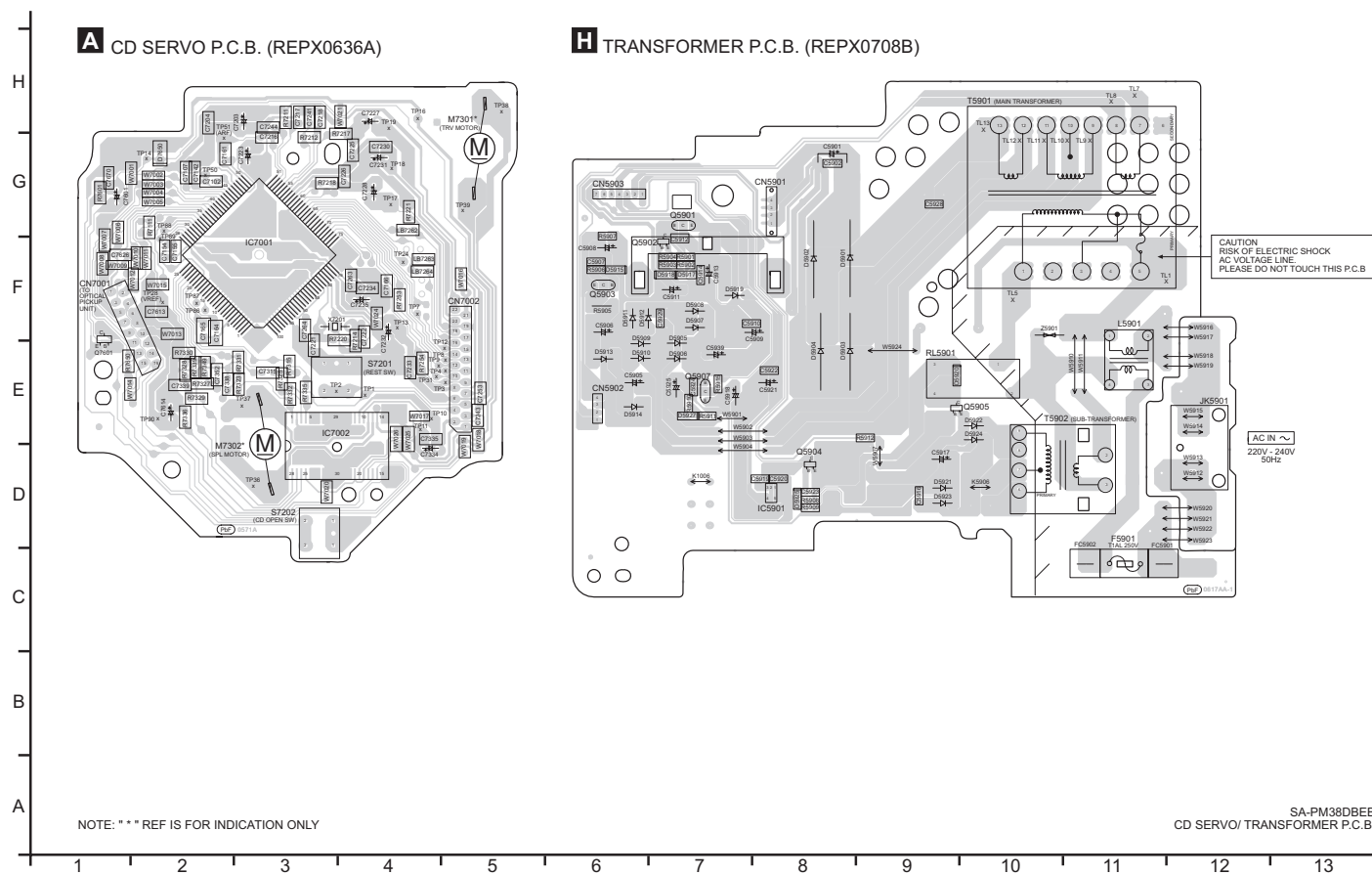


19.10. DAB MODULE CIRCUIT



20 Printed Circuit Board

20.1. CD SERVO P.C.B. and TRANSFORMER P.C.B.



C PANEL P.C.B. (REPX0708B)

E iPod P.C.B. (REPX0631A)

(SIDE A) (SIDE B)

F USB P.C.B. (REPX0720A)

SA-PM38DBEB
IPOD/ USB P.C.B.

21 Terminal Function of IC's

21.1. IC7001 (MN6627954AMA) IC SERVO PROCESSOR

Pin No.	Mark	I/O	Function
1	A9	O	DRAM address signal O/P 9
2	A11	O	DRAM address signal O/P 11
3	A8	O	DRAM address signal O/P 8
4	A7	O	DRAM address signal O/P 7
5	A6	O	DRAM address signal O/P 6
6	A5	O	DRAM address signal O/P 5
7	A4	O	DRAM address signal O/P 4
8	NWE	O	Write Enable Signal (DRAM)
9	NCAS	O	DRAM CAS Control Signal
10	NRAS	O	DRAM ARS Control Signal
11	A3	O	DRAM address Signal O/P 3
12	A2	O	DRAM address Signal O/P 2
13	A1	O	DRAM address Signal O/P 1
14	A0	O	DRAM address Signal O/P 0
15	A10	O	DRAM address Signal O/P 10
16	BA0	-	Motor O/P (0);/Serial I/P
17	BA1	-	Motor O/P (1);/Serial I/P
18	PRAMVSS33	-	GND (DRAM)
19	PRAMVDD33	-	Power Supply Voltage (+1.6V)
20	PRAMVDD15	-	Power Supply Voltage (DRAM)
21	SPOUT	O	Spindle Drive O/P
22	PC	I/O	Spindle motor drive O/P signal serial data/Monitoring I/P
23	TRVP	O	Traverse Drive O/P (+ve)
24	TRP	O	Tracking Drive O/P (+ve)
25	FOP	O	Focusing Drive O/P (+ve)
26	DVSS1	-	GND
27	IODD2	-	Digital Power Supply Voltage 2
28	DVDD1	-	Digital Power Supply Voltage 1 (Built-In)
29	SRVMON0	-	No Connection
30	SRVMON1	-	No Connection
31	AVSS2	-	GND
32	OSCIN	I	Oscillating Input
33	CTRCRS	-	Tracking Cross Comparator
34	VREF	-	+Vref Supply Voltage
35	E	I	Tracking Input Signal 1
36	F	I	Tracking Input Signal 2
37	D	I	Focusing Input Signal 4
38	B	I	Focusing Input Signal 2
39	C	I	Focusing Input Signal 3
40	A	I	Focusing Input Signal 1
41	PD	I	APC Amp I/P
42	LD	O	Laser Drive Current O/P
43	CENV	-	Detection Capacitance Connection terminal
44	RFENV	O	RF Envelope O/P
45	RFOUT	O	RF Summing Amp O/P
46	RFIN	I	SGC I/P
47	AVDD2	-	Analog Power Supply voltage 2 (For DSL/PLL)
48	ARFDC	-	AGC Capacitive Connection Terminal
49	ARFOUT	O	AGC Output
50	ARFFB	I	ARF Feedback Signal I/P
51	ARFIN	I	Audio RF Signal I/P
52	DSLFB	I	Loop Filter Terminal (For DSL)
53	IREF	-	Reference I/P
54	PLLFB	-	PLL Loop Filter Terminal (Phase Compare)
55	PLLFO	-	PLL Loop Filter Terminal (Speed Compare)

Pin No.	Mark	I/O	Function
56	OUTL	O	Audio O/P (LCH)
57	AVSS1	-	GND
58	AVDD1	-	Analog Power Supply Voltage 1
59	OUTR	O	Audio O/P (RCH)
60	DVSS3	-	GND3 (Digital Circuit)
61	NSRVMONON	I	Servo Motor O/P Enabling
62	EXT0 / SRDATA (ST_IN)	-	Expansion O/P Port 0
63	EXT1 / LRCK (ST_REQ)	-	Expansion O/P Port 1
64	EXT2 / BCLK (ST_CLK)	-	Expansion O/P Port 2
65	FLAG	-	Flag Signal O/P
66	TX	-	Digital Audio Interface O/P signal
67	MCLK	I	Micro-Computer Command Clock I/P
68	MDATA	I	Micro-Computer Data I/P
69	MLD	I	Micro-Computer Load I/P
70	STAT	O	Status Signal O/P
71	BLKCK	O	Subcode Blk Clock
72	NRST	O	LSI Reset Signal
73	DQSYTXT	-	Pack Signal O/P for CD-Text data
74	SMCK	-	Micro-Computer Clock O/P
75	PMCK	-	IOCNT Serial data O/P (Synchronous O/P)
76	DVDD2	-	Digital Power Supply Voltage 2 (+1.5V)
77	IODD1	-	Digital Power Supply Voltage 1 (For I/O)
78	DVSS2	-	GND2 (For Digital Circuit)
79	NTEST2	I	Test Mode Setting (ON:H)
80	X2	O	Crystal Oscillating Circuit O/P
81	X1	I	Crystal Oscillating Circuit I/P
82	NTEST	I	Test Mode Setting I/P (ON:H)
83	D2	O	Data Signal O/P 2
84	D1	O	Data Signal O/P 1
85	D0	O	Data Signal O/P 0
86	D3	O	Data Signal O/P 3
87	D4	O	Data Signal O/P 4
88	D5	O	Data Signal O/P 5
89	D6	O	Data Signal O/P 6
90	D7	O	Data Signal O/P 7
91	D15	O	Data Signal O/P 15
92	D14	O	Data Signal O/P 14
93	DRVDD	-	I/O Power Supply Voltage (DRAM)
94	D13	O	Data Signal O/P 13
95	D12	O	Data Signal O/P 12
96	D11	O	Data Signal O/P 11
97	D10	O	Data Signal O/P 10
98	D9	O	Data Signal O/P 9
99	D8	O	Data Signal O/P 8
100	SDRCK	O	Clock Signal O/P

21.2. IC7002 (BA5948FPE2) IC 4CH Drive

Pin No.	Mark	I/O	Function
1	IN2	I	Motor Driver Input
2	PC2	I	Turntable Motor Drive Signal (L:ON)
3	IN1	I	Motor Drive (1) Input
4	PC1	-	Traverse Motor Drive Signal (L): ON)
5-8	N.C.	-	No Connection
9	PGND1	-	Ground Connection (1) for Drive
10	PVCC1	-	Power Supply (1) for Drive
11	D1-	O	Motor Drive (1) reverse - action output
12	D1+	O	Motor Drive (1) forward - action output
13	D2-	O	Motor Drive (2) reverse - action output

Pin No.	Mark	I/O	Function
14	D2+	O	Motor Drive (2) forward - action output
15	D3-	O	Motor Drive (3) reverse - action output
16	D3+	O	Motor Drive (3) forward - action output
17	D4-	O	Motor Drive (4) reverse - action output
18	D4+	O	Motor Drive (4) forward - action output
19	PVCC2	-	Power Supply (2) for Driver
20	PGND2	-	Ground Connection (2) for Driver
21-24	N.C.	-	No Connection
25	VCC	I	Power Supply terminal
26	VREF	I	Reference Voltage Input
27	IN4	I	Motor Driver (4) Input
28	IN3	I	Motor Driver (3) Input

21.3. IC800 (RFKWMPM38DB) IC MICRO-PROCESSOR

Pin No.	Mark	I/O	Function
1	PCONT1	O	"Power Control Output 1(Pwr Sply, Active HIGH)"
2	PCONT2	O	Power Control Output 2
3	FL_CS	O	Chip Select for FL Panel
4	FL_DATA / OCD_SDA	O	FL Data Output / On Chip Debugger Data
5	MUTE_HP	O	Analog MUTE Output (L : MUTE ON)
6	FL_CLK / OCD_SCL	O	FL CLK Output / On Chip Debugger Clock
7	HP_SW	I	Headphone detect switch input
8	N.C.	-	No Connection
9	N.C.	-	No Connection
10	TAPE_EJECT	-	No Connection
11	MMOD	I	Memory mode selection
12	OSC2 (8MHz)	O	Main Oscillator output (8MHz)
13	OSC1 (8MHz)	I	Main Oscillator input (8MHz)
14	VSS	-	GND
15	XI (32kHz)	I	Oscillator input (32KHz)
16	XO (32KHz)	O	Oscillator output (32KHz)
17	3.3V	-	Voltage supply 3.3V
18	VDD1.8	-	Connect to pin 37
19	NRST	I	MICOM RESET PIN (L: reset)
20	USB_IRQ	I	USB Interrupt Request
21	MMOD0	O	Switching Mode
22	TERR	I	Time out error
23	VERR	O	Verify error
24	USB_RST	O	USB Reset Pin
25	RMT	I	Remote Control Input
26	HALT	I	AC Failure Detect Signal
27	DAB_ DDOWFIC	-	DAB LSI 24ms synchronization interrupt
28	N.C.	-	No Connection
29	BLKCK	I	CD Subcode Block Clock Input
30	VSS	-	Micom GND
31	CD_MDATA	O	CD LSI Command Data
32	STAT	I	CD LSI Status Input
33	CD_MCLK	O	CD LSI Command Clock
34	USB_SDA	I/O	USB I2C Data Line
35	CD_MLD	O	CD LSI Command Load
36	USB_SCL	I	USB I2C Clock Line
37	1.8V	-	Power Supply (1.8V)
38	N.C.	-	No Connection

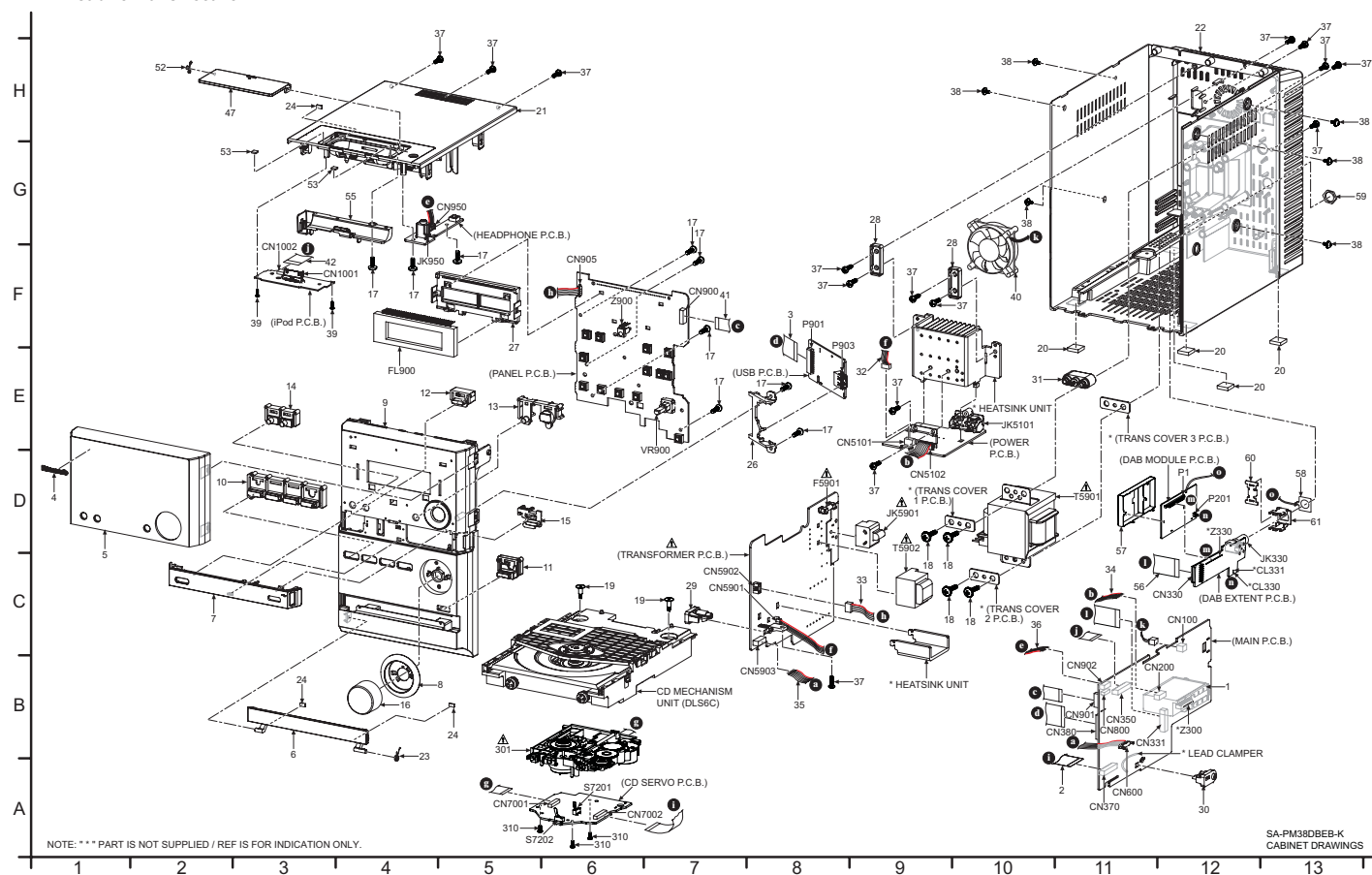
Pin No.	Mark	I/O	Function
39	VSS	-	GND
40	CLOSE_L	O	CD Tray Close Control (Active L)
41	OPEN_H	O	CD Tray Open Control (Active H)
42	CD_OPEN_SW	I	CD Open SW (H : Open; L : Close)
43	REST_SW	I	REST SW (L : Inner)
44	N.C.	-	No Connection
45	CD_RST	O	CD LSI Reset Output (L: reset)
46	N.C.	-	No Connection
47	DEMO_SETTING	I	Demo Mode Setting Input
48	MODEL_SELECT	-	No Connection
49	TU_STEREO	I/O	Tuner Stereo Signal
50	TU_SDA	O	IIC Serial Data for Tuner (PLL Data I/O)
51	TU_CLK	O	IIC Serial Clock for Tuner (PLL Clock Output)
52	TU_TUNED	I/O	Tuner Tuned Signal
53	MODEL_SELECT	-	No Connection
54	N.C.	-	No Connection
55	N.C.	-	No Connection
56	iPod_PCONT	O	iPod regulator control
57	iPod_PDET	I	iPod regulator detection
58	iPod_Acc3.3	I	iPod Signal ready detection
59	iPod_DET	I	iPod detection (Output L if no iPod)
60	N.C.	-	No Connection
61	N.C.	-	No Connection
62	CRTIMER	I/O	CR TIMER
63	VSS	-	GND
64	ASP_CLK	I/O	ASP Sound Processor Serial Clock Output
65	ASP_DATA	I/O	ASP Sound Processor Serial Data Output
66	N.C.	-	No Connection
67	DAB_RST	O	DAB LSI reset
68	DAB_TU_RST	O	DAB Tuner reset
69	DAB_TU_SCL	O	DAB Tuner 12c clock
70	DAB_TU_SDA	O	DAB Tuner 12c data
71	DAB_PCONT	O	DAB Module power central
72	DAB_RX	O	DAB LSI receive data
73	DAB_TX	I	DAB LSI transmit data
74	DAB_CLK	O	DAB LSI clock
75	DAB_MODE	O	DAB LSI communication mode

Pin No.	Mark	I/O	Function
76	UART_IN	O	Serial UART Communication
77	UART_OUT	I	Serial UART Communication
78	PHOTO	-	No Connection
79	MOTOR_H	-	No Connection
80	N.C.	-	No Connection
81	PL_H	-	No Connection
82	REC_H	-	No Connection
83	DMT	-	No Connection
84	N.C.	-	No Connection
85	N.C.	-	No Connection
86	N.C.	-	No Connection
87	N.C.	-	No Connection
88	FAN_SW	-	No Connection
89	VDD	-	VDD +5V
90	AMP_MUTE	-	Amplifier mute output (H : MUTE ON)
91	GND	-	Ground Connection
92	KEY1	I	Key 1 Input
93	KEY2	I	Key 2 Input
94	MK-IN1	-	No Connection
95	MK-IN2	-	No Connection
96	DCDET	I	DC Level Detection Input
97	REGION	I	Region Setting Input
98	VOL_JOG	I	Jog Input
99	N.C.	-	No Connection
100	VREF +	-	A/D Converter reference voltage +3.3V

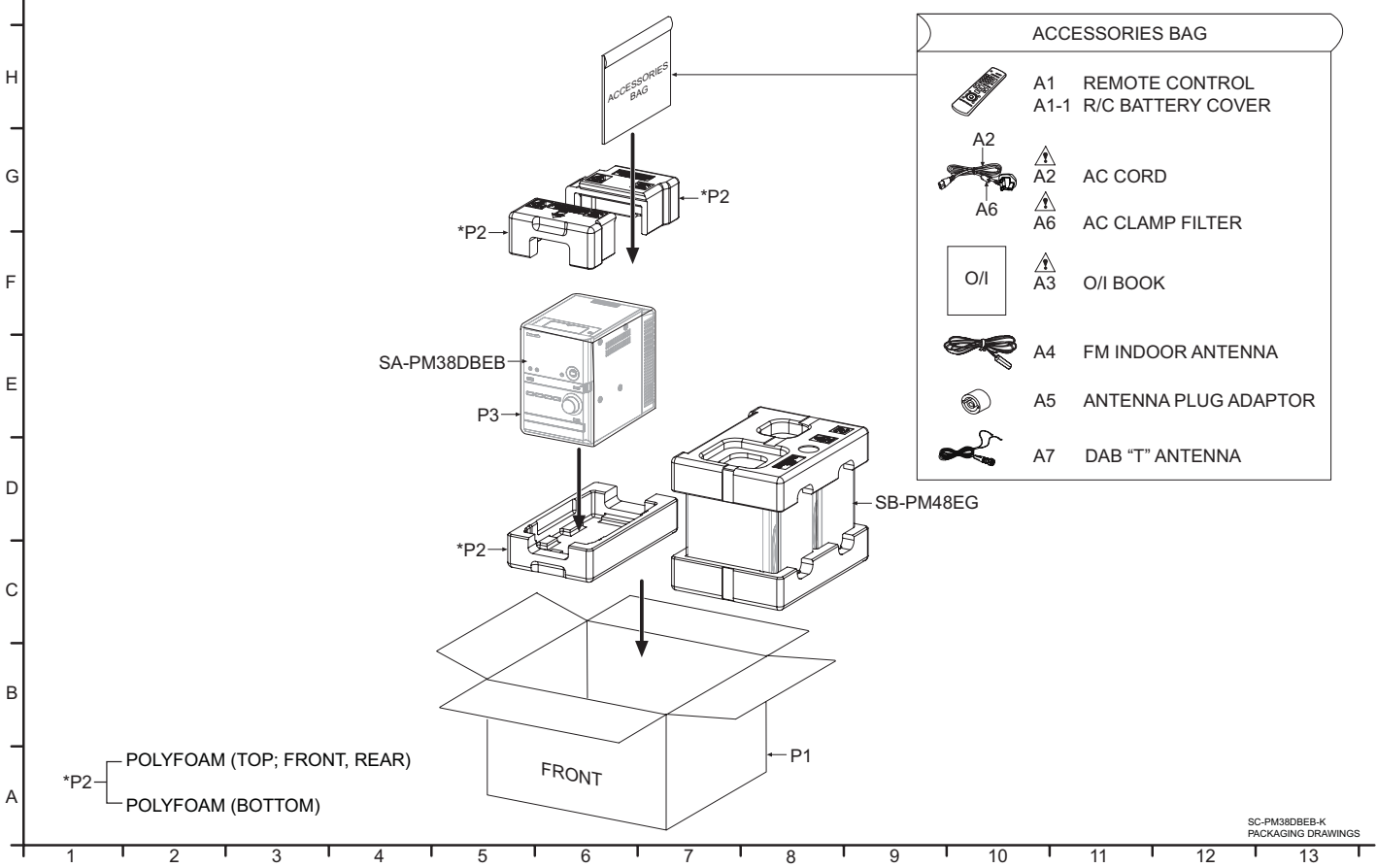
22 Exploded View and Replacement Parts List

22.1. Exploded View and Mechanical replacement Parts List

22.1.1. Cabinet Parts Location



22.1.2. Packaging



SC-PM38DBEB-K
PACKAGING DRAWINGS

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	J3CBBC000002	TUNER PACK	1	
	2	REEX0945	22P FFC (CD-MN)	1	
	3	REEX0947	22P FFC (USB-MN)	1	
	4	RGBV0016-S	PANASONIC BADGE	1	
	5	RGKX0513F-H	FL WINDOW	1	
	6	RGKX0514-K	CD LID	1	
	7	RGKX0515-S	CENTER ORNAMENT	1	
	8	RGKX0523-S	VOLUME RING	1	
	9	RGFX0370M-K	FRONT PANEL	1	
	10	RGUX0800B-K	FUNCTION BUTTON	1	
	11	RGUX0801-K	CD EJECT BUTTON	1	
	12	RGUX0802-S	POWER BUTTON	1	
	13	RGUX0808-K	DBASS/BASS TREBLE BUTTON	1	
	14	RGUX0804-K	FF/REW BUTTON	1	
	15	RGUX0805-S	STOP BUTTON	1	
	16	RGWV0047-1S	VOLUME KNOB	1	
	17	RHD26046-L	SCREW	9	
	18	RHDC0023	SCREW	4	
	19	RHDX03001	SCREW	2	
	20	RKAX0042-K	LEG CUSHION	4	
	21	RKMX0149A-K	TOP CABINET	1	
	22	RFXHAPM38DBE	REAR CABINET ASS'Y	1	
	23	RMBX0088	CD LID SPRING	1	
	24	RMG0547-K	CUSHION	3	
	26	RMNX0304	USB HOLDER	1	
	27	RMNV0062A	FL HOLDER	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	28	RMQX0353	HEATSINK SUPPORT	2	
	29	RMQX0354	TRANS PCB SUP-PORT	1	
	30	RMQX0355	MAIN PCB SUPPORT	1	
	31	RMQX0359	TRANSFORMER SPACER	1	
	32	RWJ0204130XX	4P WIRE (TRANSFORMER-POWER)	1	
	33	RWJ1104135XX	4P WIRE (PANEL-TRANSFORMER)	1	
	34	RWJ1106090XX	6P WIRE (POWER-MAIN)	1	
	35	RWJ1107125XX	7P WIRE (MAIN-TRANSFORMER)	1	
	36	RWJ1105145XX	5P WIRE (HEADPHONE-MAIN)	1	
	37	XTB3+10JFJ	SCREW	15	
	38	XTW3+10SFJK	SCREW	6	
	39	VHD1224-1	SCREW	2	
	40	L6FAYYYH0088	FAN UNIT	1	
	41	REEX0948	11P FFC (PANEL-MAIN)	1	
	42	REEX0963	14P FFC (iPod-MAIN)	1	
	47	RGKX0516-K	iPod LID	1	
	52	RMB0823	SD LID SPRING	1	
	53	RMGX0033	CUSHION RUBBER	2	
	55	RMVX0125	iPod COVER LID	1	
	56	REEX0949	18P FFC WIRE (DAB-MAIN)	1	
	57	RSC0815	DAB SHIELD CASE	1	
	58	RSCV0093	DAB SHIELD PLATE	1	
	59	RHN95002	NUT (DAB)	1	
	60	RMAV0039	SUPPORT A	1	
	61	RMAV0040	SUPPORT B	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			TRAVERSE DECK		
⚠	301	RAEX0190Z-V	TRAVERSE UNIT ASS'Y	1	(RTL)
	310	XTN2+6GFJ	SCREW	3	
			PACKING MATERIALS		
	P1	RPGX2110	PACKING CASE	1	
	P2	RPNX0605	POLYFOAM	1	
	P3	RPHV0001-1	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB000389	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CZ3YY00005	AC CORD	1	
⚠	A3	RQTX0190-B	O/I BOOK (En)	1	
	A4	RSA0007-M	FM INDOOR ANTENNA	1	
	A5	K1YZ02000013	ANTENNA PLUG ADAPTOR	1	
⚠	A6	J0KG00000037	AC CLAMP FILTER	1	
	A7	N1EADY000001	DAB "T" ANTENNA	1	

22.2. Electrical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	REPX0631A	iPod P.C.B.	1	(RTL)
	PCB2	REPX0636A	CD SERVO P.C.B.	1	(RTL)
	PCB3	REPX0708B	MAIN P.C.B.	1	(RTL)
	PCB4	REPX0708B	PANEL P.C.B.	1	(RTL)
	PCB5	REPX0708B	POWER P.C.B.	1	(RTL)
	PCB6	REPX0720A	USB P.C.B.	1	(RTL)
Δ	PCB7	REPX0708B	TRANSFORMER P.C.B.	1	(RTL)
	PCB8	REPX0708B	HEADPHONE P.C.B.	1	(RTL)
	PCB9	RFKB4246A	DAB MODULE P.C.B.	1	(RTL)
	PCB10	REPX0708B	DAB EXTENT P.C.B.	1	(RTL)
			INTEGRATED CIRCUITS		
	IC1	MN66721	IC	1	
	IC3	C0CBCBC00208	IC	1	
	IC4	C0FBBK000066	IC	1	
	IC200	C1AB00003013	IC	1	
	IC201	C1AB00002719	IC	1	
	IC600	C0DAEJG00001	IC	1	
	IC601	C0DBGYY00089	IC	1	
	IC700	C0AABB000125	IC	1	
	IC800	RFKWPMP38DB	IC	1	
	IC900	C0HBB0000057	IC	1	
	IC900	MNZSFB5KJM2	IC	1	
	IC5101	AN17831A	IC	1	
	IC5901	C0DBGYY00089	IC	1	
	IC7001	MN6627954AMA	IC	1	
	IC7002	BA5948FPE2	IC	1	
			TRANSISTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q1	UNR9211J0L	TRANSISTOR	1	
	Q2	2SC4627J0L	TRANSISTOR	1	
	Q100	B1ABCF000176	TRANSISTOR	1	
	Q101	B1ABCF000176	TRANSISTOR	1	
	Q201	UNR9111J0L	TRANSISTOR	1	
	Q202	UNR9211J0L	TRANSISTOR	1	
	Q350	UNR221100L	TRANSISTOR	1	
	Q375	B1BCCD000019	TRANSISTOR	1	
	Q382	B1ADCE000012	TRANSISTOR	1	
	Q600	B1BCCG000023	TRANSISTOR	1	
	Q602	B1BACD000018	TRANSISTOR	1	
	Q603	B1ABDF000026	TRANSISTOR	1	
	Q604	B1BCCD000019	TRANSISTOR	1	
	Q761	B1GFGCAA0001	TRANSISTOR	1	
	Q762	UNR211100L	TRANSISTOR	1	
	Q802	B1GBCFJN0009	TRANSISTOR	1	
	Q5901	B1BCCG000023	TRANSISTOR	1	
	Q5902	B1ABCF000176	TRANSISTOR	1	
	Q5903	2SB0621AHA	TRANSISTOR	1	
	Q5904	B1GBCFJJ0051	TRANSISTOR	1	
	Q5905	B1GBCFGN0016	TRANSISTOR	1	
	Q5907	B1BABG000007	TRANSISTOR	1	
	Q7601	B1ADCF000001	TRANSISTOR	1	
	QR375	UNR521400L	TRANSISTOR	1	
	QR376	UNR211100L	TRANSISTOR	1	
	QR384	UNR221100L	TRANSISTOR	1	
	QR600	UNR521400L	TRANSISTOR	1	
			DIODES		
	D108	B0ADFJ000004	DIODE	1	
	D600	MA2J11100L	DIODE	1	
	D601	MAZ80910ML	DIODE	1	
	D602	MA2J11100L	DIODE	1	
	D603	B0ADFJ000004	DIODE	1	
	D604	B0BC5R6A0266	DIODE	1	
	D605	B0EAKM000117	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D606	B0EAKM000117	DIODE	1	
	D607	B0EAKM000117	DIODE	1	
	D608	B0EAKM000117	DIODE	1	
	D609	B0EAKM000117	DIODE	1	
	D610	B0EAKM000117	DIODE	1	
	D611	B0EAKM000117	DIODE	1	
	D612	B0EAKM000117	DIODE	1	
	D613	B0EAKM000117	DIODE	1	
	D800	MA2J11100L	DIODE	1	
	D826	MA2J11100L	DIODE	1	
	D827	MA2J11100L	DIODE	1	
	D851	MA2J11100L	DIODE	1	
	D901	B0BC6R8A0266	DIODE	1	
	D5102	MA2J11100L	DIODE	1	
	D5103	MA2J11100L	DIODE	1	
	D5111	MA2J11100L	DIODE	1	
	D5901	B0EAMM000038	DIODE	1	
	D5902	B0EAMM000038	DIODE	1	
	D5903	B0EAMM000038	DIODE	1	
	D5904	B0EAMM000038	DIODE	1	
	D5905	B0EAKM000117	DIODE	1	
	D5906	B0EAKM000117	DIODE	1	
	D5907	B0EAKM000117	DIODE	1	
	D5908	B0EAKM000117	DIODE	1	
	D5909	B0EAKM000117	DIODE	1	
	D5910	B0EAKM000117	DIODE	1	
	D5911	B0EAKM000117	DIODE	1	
	D5912	B0EAKM000117	DIODE	1	
	D5913	B0EAKM000117	DIODE	1	
	D5914	B0EAKM000117	DIODE	1	
	D5915	B0BC02900004	DIODE	1	
	D5917	MA2J11100L	DIODE	1	
	D5918	MAZ80910ML	DIODE	1	
	D5919	B0EAKM000117	DIODE	1	
	D5920	MA2J11100L	DIODE	1	
	D5921	B0EAKM000117	DIODE	1	
	D5922	B0EAKM000117	DIODE	1	
	D5923	B0EAKM000117	DIODE	1	
	D5924	B0EAKM000117	DIODE	1	
	D5925	MA2J11100L	DIODE	1	
	D5927	MAZ80680ML	DIODE	1	
	D7650	MAZ80560ML	DIODE	1	
			VARIABLE RESIS- TOR		
	VR900	EVEKE2F2524B	VOLUME JOG	1	
			SWITCHES		
	S900	EVQ21405RJ	SW -DEMO	1	
	S901	EVQ21405RJ	SW CD PLAY/PAUSE	1	
	S902	EVQ21405RJ	SW USB	1	
	S903	EVQ21405RJ	SW FM/AM	1	
	S904	EVQ21405RJ	SW iPod	1	
	S906	EVQ21405RJ	SW CD EJECT	1	
	S907	EVQ21405RJ	SW POWER	1	
	S908	EVQ21405RJ	SW REW	1	
	S909	EVQ21405RJ	SW FWD	1	
	S910	EVQ21405RJ	SW BASS/TREBLE	1	
	S911	EVQ21405RJ	SW D.BASS	1	
	S7201	K0L1BA000133	SW REST	1	
	S7202	K0L1BA000133	SW CD OPEN	1	
	PSW1	D4FB1R100009	SW	1	
			CONNECTORS		
	CN100	K1KA02AA0186	2P CONNECTOR (FAN)	1	
	CN200	K1MP06A00003	6P CONNECTOR	1	
	CN330	K1MY18AA0124	22P CONNECTOR	1	
	CN331	K1MY18AA0124	22P CONNECTOR	1	
	CN350	K1MN14AA0003	14P CONNECTOR	1	
	CN370	K1MN22AA0004	22P CONNECTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	CN380	K1MN22AA0004	22P CONNECTOR	1	
	CN600	K1YZ07000001	7P WIRE HOLDER	1	
	CN800	K1MN06A00013	6P CONNECTOR	1	
	CN900	K1MN11BA0004	11P CONNECTOR	1	
	CN901	K1MN11AA0003	11P CONNECTOR	1	
	CN902	K1MP05A00004	5P CONNECTOR	1	
	CN905	K1YZ04000002	4P WIRE HOLDER	1	
	CN950	K1YZ05000005	5P WIRE HOLDER	1	
	CN1001	MFI514S0117	Ipod CONNECTOR	1	
	CN1002	K1MN14BA0141	14P CONNECTOR	1	
	CN5101	K1MP04A00003	4P CONNECTOR	1	
	CN5102	K1YZ06000002	6P WIRE HOLDER	1	
	CN5901	K1YZ04000002	4P WIRE HOLDER	1	
	CN5902	K1MP04A00003	4P CONNECTOR	1	
	CN5903	K1MP07A00011	7P CONNECTOR	1	
	CN7001	K1MN16B00154	16P CONNECTOR	1	
	CN7002	K1MN22BA0005	22P CONNECTOR	1	
	P901	K1MN22BA0005	22P CONNECTOR	1	
	P903	K1FY104B0011	USB CONNECTOR	1	
			COILS AND INDUC- TORS		
	L1	J0JBC0000019	INDUCTOR	1	
	L2	J0JBC0000019	INDUCTOR	1	
	L201	G1CR10GA0028	INDUCTOR	1	
	L202	G1C18NGA0028	INDUCTOR	1	
	L203	G1CR10GA0028	INDUCTOR	1	
	L204	G1C91NGA0028	INDUCTOR	1	
	L205	J0JBC0000019	INDUCTOR	1	
	L207	J0JBC0000019	INDUCTOR	1	
	L208	G1CR33GA0028	INDUCTOR	1	
	L209	G1CR33GA0028	INDUCTOR	1	
	L210	G1CR33GA0028	INDUCTOR	1	
	L260	J0JHC0000045	INDUCTOR	1	
	L346	G0C2R2JA0027	INDUCTOR	1	
	L347	J0JBC0000015	INDUCTOR	1	
	L350	J0JHC0000034	INDUCTOR	1	
	L371	J0JKB0000020	INDUCTOR	1	
	L470	J0JBC0000019	INDUCTOR	1	
	L800	G0C3R3JA0027	INDUCTOR	1	
	L801	G0C3R3JA0027	INDUCTOR	1	
	L900	G0C3R3JA0027	INDUCTOR	1	
	L900	G1C100K00019	INDUCTOR	1	
	L901	G0C101JA0027	INDUCTOR	1	
	L950	J0JBC0000019	INDUCTOR	1	
	L951	J0JBC0000019	INDUCTOR	1	
	L952	J0JBC0000019	INDUCTOR	1	
	L1001	J0JHC0000107	INDUCTOR	1	
	L1002	J0JHC0000107	INDUCTOR	1	
	L1003	J0JHC0000107	INDUCTOR	1	
	L1004	J0JHC0000107	INDUCTOR	1	
	L1005	J0JHC0000107	INDUCTOR	1	
	L1006	J0JHC0000107	INDUCTOR	1	
	L1007	J0JHC0000107	INDUCTOR	1	
	L1008	J0JHC0000107	INDUCTOR	1	
	L1009	J0JHC0000107	INDUCTOR	1	
	L1010	J0JHC0000107	INDUCTOR	1	
	L1011	J0JHC0000107	INDUCTOR	1	
⚠	L5901	ELF15N035AN	LINE FILTER	1	
	LB840	J0JBC0000033	INDUCTOR	1	
	LB841	J0JBC0000033	INDUCTOR	1	
	LB843	J0JBC0000033	INDUCTOR	1	
	LB845	J0JBC0000033	INDUCTOR	1	
	LB846	J0JBC0000033	INDUCTOR	1	
	LB848	J0JBC0000033	INDUCTOR	1	
	LB932	J0JBC0000033	INDUCTOR	1	
	LB933	J0JBC0000033	INDUCTOR	1	
	LB934	J0JBC0000033	INDUCTOR	1	
	LB935	J0JBC0000033	INDUCTOR	1	
	LB936	J0JBC0000033	INDUCTOR	1	
	LB938	J0JBC0000033	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			TRANSFORMERS		
△	T5901	G4CYBY00022	TRANSFORMER	1	
△	T5902	G4C2AAJ00005	SUB TRANSFORMER	1	
			COMPONENT COMBI-NATION		
	Z900	B3RAC0000017	REMOTE SENSOR	1	
△	Z5901	ERZVA5Z471	ZNR	1	
			OSCILLATORS		
	X201	H0J245500084	CRYSTAL OSCILLA-TOR	1	
	X801	H4Z8004AA001	CRYSTAL OSCILLA-TOR	1	
	X802	H0A327200097	CRYSTAL OSCILLA-TOR	1	
	X900	H0A120500009	CRYSTAL OSCILLA-TOR	1	
	X7201	H0H169500013	CRYSTAL OSCILLA-TOR	1	
			RELAY		
△	RL5901	K6B1AEA00003	RELAY	1	
			FL DISPLAY		
	FL900	A2BB00000166	LCD DISPLAY	1	
			FUSE		
△	F5901	K5D102BLA013	FUSE	1	
			FUSE HOLDERS		
	FC5901	K3GE1ZZ00001	FUSE HOLDER		
	FC5902	K3GE1ZZ00001	FUSE HOLDER		
			FUSE PROTECTOR		
△	FP5901	K5G502AA0002	FUSE PROTECTOR	1	
			JACKS		
	JK330	K1QKB1BB0002	DAB CONNECTOR	1	
	JK950	K2HC103A0031	JK HEADPHONE	1	
	JK5101	K2HA1YYB0021	JK SPEAKER	1	
△	JK5901	K2AA2B000011	AC INLET	1	
	P1	K4AD18A00001	18P CONNECTOR	1	
	P201	K4AD02A00001	2P CONNECTOR	1	
			CHIP JUMPERS		
	LB850	D0GBR00JA008	0 1/16W	1	
	LB852	D0GBR00JA008	0 1/16W	1	
	LB930	D0GBR00JA008	0 1/16W	1	
	LB951	D0GBR00JA008	0 1/16W	1	
	LB952	D0GBR00JA008	0 1/16W	1	
	LB7262	D0GBR00JA008	0 1/16W	1	
	LB7263	D0GBR00JA008	0 1/16W	1	
	LB7264	D0GBR00JA008	0 1/16W	1	
	W15	D0GDR00JA017	0 1/10W	1	
	W17	D0GDR00JA017	0 1/10W	1	
	W18	D0GDR00JA017	0 1/10W	1	
	W19	D0GDR00JA017	0 1/10W	1	
	W21	D0GDR00JA017	0 1/10W	1	
	W22	D0GDR00JA017	0 1/10W	1	
	W23	D0GBR00JA008	0 1/16W	1	
	W6000	D0GBR00JA008	0 1/16W	1	
	W6001	D0GDR00JA017	0 1/10W	1	
	W6002	D0GDR00JA017	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W6003	D0GBR00JA008	0 1/16W	1	
	W6004	D0GBR00JA008	0 1/16W	1	
	W6005	D0GBR00JA008	0 1/16W	1	
	W6006	D0GBR00JA008	0 1/16W	1	
	W6007	D0GDR00JA017	0 1/10W	1	
	W6008	D0GDR00JA017	0 1/10W	1	
	W6010	D0GDR00JA017	0 1/10W	1	
	W6011	D0GBR00JA008	0 1/16W	1	
	W6012	D0GBR00JA008	0 1/16W	1	
	W6013	D0GBR00JA008	0 1/16W	1	
	W6014	D0GDR00JA017	0 1/10W	1	
	W6015	D0GDR00JA017	0 1/10W	1	
	W6018	D0GBR00JA008	0 1/16W	1	
	W6020	D0GBR00JA008	0 1/16W	1	
	W6021	D0GDR00JA017	0 1/10W	1	
	W6022	D0GDR00JA017	0 1/10W	1	
	W6200	D0GDR00JA017	0 1/10W	1	
	W6201	D0GBR00JA008	0 1/16W	1	
	W7001	D0GBR00JA008	0 1/16W	1	
	W7002	D0GBR00JA008	0 1/16W	1	
	W7003	D0GBR00JA008	0 1/16W	1	
	W7004	D0GBR00JA008	0 1/16W	1	
	W7005	D0GBR00JA008	0 1/16W	1	
	W7006	D0GBR00JA008	0 1/16W	1	
	W7007	D0GBR00JA008	0 1/16W	1	
	W7008	D0GBR00JA008	0 1/16W	1	
	W7009	D0GBR00JA008	0 1/16W	1	
	W7010	D0GBR00JA008	0 1/16W	1	
	W7011	D0GBR00JA008	0 1/16W	1	
	W7012	D0GBR00JA008	0 1/16W	1	
	W7013	D0GBR00JA008	0 1/16W	1	
	W7014	D0GBR00JA008	0 1/16W	1	
	W7015	D0GBR00JA008	0 1/16W	1	
	W7016	D0GBR00JA008	0 1/16W	1	
	W7017	D0GBR00JA008	0 1/16W	1	
	W7018	D0GBR00JA008	0 1/16W	1	
	W7019	D0GBR00JA008	0 1/16W	1	
	W7020	D0GBR00JA008	0 1/16W	1	
	W7021	D0GBR00JA008	0 1/16W	1	
	W7024	D0GBR00JA008	0 1/16W	1	
	W7025	D0GDR00JA017	0 1/10W	1	
	W7026	D0GDR00JA017	0 1/10W	1	
			RESISTORS		
	R1	D0GA101JA023	100 1/16W	1	
	R2	D0GA101JA023	100 1/16W	1	
	R3	D0GA104JA023	100K 1/16W	1	
	R4	D0GA101JA023	100 1/16W	1	
	R5	ERJ2GE0R00X	0 1/16W	1	
	R6	D0GA393JA023	39K 1/16W	1	
	R7	D0GA102JA023	1K 1/16W	1	
	R8	D0GA101JA023	100 1/16W	1	
	R9	D0GA101JA023	100 1/16W	1	
	R10	D0GA101JA023	100 1/16W	1	
	R11	D0GA101JA023	100 1/16W	1	
	R12	D0GA101JA023	100 1/16W	1	
	R13	D0GA103JA023	10K 1/16W	1	
	R14	D0GA103JA023	10K 1/16W	1	
	R15	D0GA103JA023	10K 1/16W	1	
	R16	D0GA103JA023	10K 1/16W	1	
	R17	D0GA103JA023	10K 1/16W	1	
	R18	ERJ2GEJ100X	10 1/16W	1	
	R19	ERJ2GEJ182X	1.8K 1/16W	1	
	R20	ERJ2GEJ182X	1.8K 1/16W	1	
	R21	D0GA822JA023	8.2K 1/16W	1	
	R22	D0GA822JA023	8.2K 1/16W	1	
	R23	D0GA101JA023	100 1/16W	1	
	R24	D0GA101JA023	100 1/16W	1	
	R25	D0GA101JA023	100 1/16W	1	
	R26	D0GA101JA023	100 1/16W	1	
	R27	D0GA332JA023	3.3K 1/16W	1	
	R28	ERJ2GEJ683X	68K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R30	D0GA222JA023	2.2K 1/16W	1	
	R31	D0GA222JA023	2.2K 1/16W	1	
	R32	ERJ2RHD473X	47K 1/32W	1	
	R33	ERJ2RHD473X	47K 1/32W	1	
	R34	ERJ2RHD473X	47K 1/32W	1	
	R35	D0GA473JA023	47K 1/16W	1	
	R36	ERJ2RHD473X	47K 1/32W	1	
	R102	D0GB824JA008	820K 1/16W	1	
	R103	D0GB101JA008	100 1/16W	1	
	R104	D0GB563JA008	56K 1/16W	1	
	R105	D0AF270JA039	27 1/2W	1	
	R107	D0GB222JA008	2.2K 1/16W	1	
	R108	D0GB472JA008	4.7K 1/16W	1	
	R201	D0GA273JA023	27K 1/16W	1	
	R202	D0GA103JA023	10K 1/16W	1	
	R203	D0GA102JA023	1K 1/16W	1	
	R203	D0GB223JA008	22K 1/16W	1	
	R204	ERJ2GEJ270X	27 1/16W	1	
	R205	ERJ2GEJ270X	27 1/16W	1	
	R207	D0GA101JA023	100 1/16W	1	
	R208	D0GA101JA023	100 1/16W	1	
	R209	ERJ2GEJ270X	27 1/16W	1	
	R210	ERJ2GEJ271X	270 1/16W	1	
	R211	ERJ2GE0R00X	0 1/16W	1	
	R215	D0GA333JA023	33K 1/16W	1	
	R216	D0GA103JA023	10K 1/16W	1	
	R220	D0GB682JA008	6.8K 1/16W	1	
	R221	D0GB822JA008	8.2K 1/16W	1	
	R222	D0GB682JA008	6.8K 1/16W	1	
	R230	D0GB472JA008	4.7K 1/16W	1	
	R231	D0GB154JA008	150K 1/16W	1	
	R232	D0GB333JA008	33K 1/16W	1	
	R233	D0GB223JA008	22K 1/16W	1	
	R234	D0GB333JA008	33K 1/16W	1	
	R260	ERD2FCVG470T	47 1/4W	1	
	R270	D0GB392JA008	3.9K 1/16W	1	
	R272	D0GBR00JA008	0 1/16W	1	
	R273	D0GB562JA008	5.6K 1/16W	1	
	R350	D0GB104JA008	100K 1/16W	1	
	R351	D0GB473JA008	47K 1/16W	1	
	R352	D0GB334JA008	330K 1/16W	1	
	R353	D0GB224JA008	220K 1/16W	1	
	R370	D0GB471JA008	470 1/16W	1	
	R371	D0GD471JA017	470 1/10W	1	
	R372	D0GB102JA008	1K 1/16W	1	
	R375	D0GB101JA008	100 1/16W	1	
	R376	D0GB332JA008	3.3K 1/16W	1	
	R380	D0GB472JA008	4.7K 1/16W	1	
	R381	D0GB472JA008	4.7K 1/16W	1	
	R382	D0GD472JA017	4.7K 1/10W	1	
	R383	D0GB101JA008	100 1/16W	1	
	R385	D0GB471JA008	470 1/16W	1	
	R386	D0GB471JA008	470 1/16W	1	
	R392	D0GB104JA008	100K 1/16W	1	
	R393	D0GB472JA008	4.7K 1/16W	1	
	R394	D0GB473JA008	47K 1/16W	1	
	R403	D0GB223JA008	22K 1/16W	1	
	R420	D0GB682JA008	6.8K 1/16W	1	
	R421	D0GB822JA008	8.2K 1/16W	1	
	R422	D0GB682JA008	6.8K 1/16W	1	
	R470	D0GB392JA008	3.9K 1/16W	1	
	R472	D0GBR00JA008	0 1/16W	1	
	R473	D0GB562JA008	5.6K 1/16W	1	
	R600	D0GB102JA008	1K 1/16W	1	
	R601	D0GB102JA008	1K 1/16W	1	
	R602	D0GB101JA008	100 1/16W	1	
	R603	D0GB821JA008	820 1/16W	1	
	R604	D0GB821JA008	820 1/16W	1	
	R605	D0GB271JA008	270 1/16W	1	
	R606	D0GB333JA008	33K 1/16W	1	
	R607	D0GB472JA008	4.7K 1/16W	1	
	R608	D0GB123JA008	12K 1/16W	1	
	R609	D0GB561JA008	560 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R720	D0GB153JA008	15K 1/16W	1	
	R721	D0GB103JA008	10K 1/16W	1	
	R722	D0GB683JA008	68K 1/16W	1	
	R723	D0GB180JA008	18 1/16W	1	
	R724	D0GB180JA008	18 1/16W	1	
	R740	D0GB153JA008	15K 1/16W	1	
	R741	D0GB103JA008	10K 1/16W	1	
	R742	D0GB683JA008	68K 1/16W	1	
	R743	D0GB180JA008	18 1/16W	1	
	R744	D0GB180JA008	18 1/16W	1	
	R750	D0GB102JA008	1K 1/16W	1	
	R751	D0GB102JA008	1K 1/16W	1	
	R762	D0GB102JA008	1K 1/16W	1	
	R763	D0GB102JA008	1K 1/16W	1	
	R764	D0GB682JA008	6.8K 1/16W	1	
	R802	D0GB224JA008	220K 1/16W	1	
	R804	D0GB101JA008	100 1/16W	1	
	R805	D0GB472JA008	4.7K 1/16W	1	
	R806	D0GB473JA008	47K 1/16W	1	
	R807	D0GB101JA008	100 1/16W	1	
	R808	D0GB101JA008	100 1/16W	1	
	R809	D0GB101JA008	100 1/16W	1	
	R810	D0GB472JA008	4.7K 1/16W	1	
	R811	D0GB103JA008	10K 1/16W	1	
	R812	D0GB101JA008	100 1/16W	1	
	R813	D0GB472JA008	4.7K 1/16W	1	
	R815	D0GD101JA017	100 1/10W	1	
	R826	D0GD102JA017	1K 1/10W	1	
	R828	D0GB101JA008	100 1/16W	1	
	R830	D0GB473JA008	47K 1/16W	1	
	R832	D0GB101JA008	100 1/16W	1	
	R835	D0GB101JA008	100 1/16W	1	
	R836	D0GB101JA008	100 1/16W	1	
	R837	D0GB102JA008	1K 1/16W	1	
	R839	D0GB103JA008	10K 1/16W	1	
	R840	D0GB103JA008	10K 1/16W	1	
	R842	D0GB472JA008	4.7K 1/16W	1	
	R845	D0GD101JA017	100 1/10W	1	
	R846	D0GD101JA017	100 1/10W	1	
	R847	D0GB103JA008	10K 1/16W	1	
	R848	D0GB153JA008	15K 1/16W	1	
	R852	D0GB101JA008	100 1/16W	1	
	R853	D0GB474JA008	470K 1/16W	1	
	R854	D0GB101JA008	100 1/16W	1	
	R855	D0GB101JA008	100 1/16W	1	
	R856	D0GB123JA008	12K 1/16W	1	
	R857	D0GB101JA008	100 1/16W	1	
	R858	D0GB101JA008	100 1/16W	1	
	R859	D0GB103JA008	10K 1/16W	1	
	R860	D0GB221JA008	220 1/16W	1	
	R861	D0GB221JA008	220 1/16W	1	
	R862	D0GB103JA008	10K 1/16W	1	
	R863	D0GB472JA008	4.7K 1/16W	1	
	R864	D0GB472JA008	4.7K 1/16W	1	
	R865	D0GB103JA008	10K 1/16W	1	
	R866	D0GB153JA008	15K 1/16W	1	
	R876	D0GB472JA008	4.7K 1/16W	1	
	R878	D0GB471JA008	470 1/16W	1	
	R881	D0GB103JA008	10K 1/16W	1	
	R883	D0GB473JA008	47K 1/16W	1	
	R884	D0GB682JA008	6.8K 1/16W	1	
	R885	D0GB103JA008	10K 1/16W	1	
	R888	D0GB182JA008	1.8K 1/16W	1	
	R889	D0GB101JA008	100 1/16W	1	
	R890	D0GB103JA008	10K 1/16W	1	
	R891	D0GB102JA008	1K 1/16W	1	
	R901	D0GB102JA008	1K 1/16W	1	
	R901	D0GB122JA008	1.2K 1/16W	1	
	R902	D0GB102JA008	1K 1/16W	1	
	R902	D0GB152JA008	1.5K 1/16W	1	
	R903	D0GB222JA008	2.2K 1/16W	1	
	R903	D0GBR00JA008	0 1/16W	1	
	R904	D0GB332JA008	3.3K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R904	D0GBR00JA008	0 1/16W	1	
	R905	D0GB472JA008	4.7K 1/16W	1	
	R906	D0GB562JA008	5.6K 1/16W	1	
	R906	D0GBR00JA008	0 1/16W	1	
	R907	D0GDR00JA017	0 1/10W	1	
	R908	D0GB122JA008	1.2K 1/16W	1	
	R909	D0GB152JA008	1.5K 1/16W	1	
	R910	D0GB222JA008	2.2K 1/16W	1	
	R911	D0GB332JA008	3.3K 1/16W	1	
	R912	D0GB472JA008	4.7K 1/16W	1	
	R914	D0GBR00JA008	0 1/16W	1	
	R918	D0GB1R2JA008	1.2 1/16W	1	
	R921	D0GB680JA008	68 1/16W	1	
	R922	D0GB680JA008	68 1/16W	1	
	R923	D0GB102JA008	1K 1/16W	1	
	R924	D0GB102JA008	1K 1/16W	1	
	R925	D0GB102JA008	1K 1/16W	1	
	R926	D0GB104JA008	100K 1/16W	1	
	R927	D0GB104JA008	100K 1/16W	1	
	R928	D0GB103JA008	10K 1/16W	1	
	R929	D0GB103JA008	10K 1/16W	1	
	R930	D0GB123JA008	12K 1/16W	1	
	R931	D0GB223JA008	22K 1/16W	1	
	R932	D0GB103JA008	10K 1/16W	1	
	R950	D0GB104JA008	100K 1/16W	1	
	R950	D0GB223JA008	22K 1/16W	1	
	R951	D0GB104JA008	100K 1/16W	1	
	R951	D0GBR00JA008	0 1/16W	1	
	R952	D0GB240JA008	24 1/16W	1	
	R953	D0GB240JA008	24 1/16W	1	
	R954	D0GB153JA008	15K 1/16W	1	
	R955	D0GB153JA008	15K 1/16W	1	
	R957	D0GB222JA008	2.2K 1/16W	1	
	R958	D0GB104JA008	100K 1/16W	1	
	R971	D0GB102JA008	1K 1/16W	1	
	R972	D0GB102JA008	1K 1/16W	1	
	R1001	D0GB101JA008	100 1/16W	1	
	R1002	D0GB101JA008	100 1/16W	1	
	R1003	D0GB104JA008	100K 1/16W	1	
	R1004	D0GB104JA008	100K 1/16W	1	
	R1005	ERJ3GEYF753V	75K 1/10W	1	
	R1006	ERJ3GEYF753V	75K 1/10W	1	
	R1007	ERJ3GEYF513V	51K 1/10W	1	
	R1008	ERJ3GEYF513V	51K 1/10W	1	
	R1009	D0GB151JA008	150 1/16W	1	
	R1010	D0GB151JA008	150 1/16W	1	
	R1011	D0GBR00JA008	0 1/16W	1	
	R1012	D0GBR00JA008	0 1/16W	1	
	R1013	D0GB102JA008	1K 1/16W	1	
	R5101	D0GB101JA008	100 1/16W	1	
	R5102	D0GB223JA008	22K 1/16W	1	
	R5103	D0GB2R2JA008	2.2 1/16W	1	
	R5104	D0GB2R2JA008	2.2 1/16W	1	
	R5105	D0GB101JA008	100 1/16W	1	
	R5106	D0GB223JA008	22K 1/16W	1	
	R5107	D0GB2R2JA008	2.2 1/16W	1	
	R5108	D0GB2R2JA008	2.2 1/16W	1	
	R5111	D0GB153JA008	15K 1/16W	1	
	R5112	D0GB102JA008	1K 1/16W	1	
	R5113	D0GB473JA008	47K 1/16W	1	
	R5128	D0GB103JA008	10K 1/16W	1	
	R5129	D0GB103JA008	10K 1/16W	1	
	R5901	D0GB222JA008	2.2K 1/16W	1	
	R5902	D0GB104JA008	100K 1/16W	1	
	R5903	D0GB821JA008	820 1/16W	1	
	R5904	D0GB821JA008	820 1/16W	1	
	R5905	ERD2FCVG120T	12 1/4W	1	
	R5906	D0GB332JA008	3.3K 1/16W	1	
	R5907	D0GB473JA008	47K 1/16W	1	
	R5908	D0GB103JA008	10K 1/16W	1	
	R5909	D0GB103JA008	10K 1/16W	1	
	R5910	D0GB820JA008	82 1/16W	1	
	R5911	D0GB182JA008	1.8K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5912	D0GB102JA008	1K 1/16W	1	
	R5915	D0GB220JA008	22 1/16W	1	
	R7111	D0GB103JA008	10K 1/16W	1	
	R7211	D0GB823JA008	82K 1/16W	1	
	R7212	D0GB821JA008	820 1/16W	1	
	R7214	D0GB471JA008	470 1/16W	1	
	R7217	D0GB102JA008	1K 1/16W	1	
	R7218	D0GB102JA008	1K 1/16W	1	
	R7220	D0GB105JA008	1M 1/16W	1	
	R7221	D0GB101JA008	100 1/16W	1	
	R7253	D0GB100JA008	10 1/16W	1	
	R7254	D0GB102JA008	1K 1/16W	1	
	R7315	D0GB332JA008	3.3K 1/16W	1	
	R7323	D0GB682JA008	6.8K 1/16W	1	
	R7325	D0GB331JA008	330 1/16W	1	
	R7327	D0GB102JA008	1K 1/16W	1	
	R7328	D0GB103JA008	10K 1/16W	1	
	R7329	D0GB102JA008	1K 1/16W	1	
	R7330	D0GB562JA008	5.6K 1/16W	1	
	R7331	D0GB273JA008	27K 1/16W	1	
	R7332	D0GB102JA008	1K 1/16W	1	
	R7335	D0GB101JA008	100 1/16W	1	
	R7336	D0GB100JA008	10 1/16W	1	
	R7339	D0GB102JA008	1K 1/16W	1	
	R7349	D0GB183JA008	18K 1/16W	1	
	R7601	D0GB4R7JA008	4.7 1/16W	1	
	R7650	D0GB5R6JA008	5.6 1/16W	1	
	K103	D0GBR00JA008	0 1/16W	1	
	K470	D0GDR00JA017	0 1/10W	1	
			CAPACITORS		
	C1	F3F1A106A026	10uF 10V	1	
	C2	F1G1A1040006	0.1uF 10V	1	
	C3	F1G1A1040006	0.1uF 10V	1	
	C4	F1G1A1040006	0.1uF 10V	1	
	C5	F1G1A1040006	0.1uF 10V	1	
	C6	F1G1A1040006	0.1uF 10V	1	
	C7	F1G1A1040006	0.1uF 10V	1	
	C8	F1G1A1040006	0.1uF 10V	1	
	C9	F1G1A1040006	0.1uF 10V	1	
	C10	F1G1C1030007	0.01uF 16V	1	
	C11	F1G1A1040006	0.1uF 10V	1	
	C12	F1G1E1020001	1000pF 25V	1	
	C13	F1G1C1030007	0.01uF 16V	1	
	C14	F1G1C1030007	0.01uF 16V	1	
	C15	F1H0J1050013	1uF 6.3V	1	
	C16	F1H0J1050013	1uF 6.3V	1	
	C17	F1G1A1040006	0.1uF 10V	1	
	C18	F1G1H101A566	100pF 50V	1	
	C19	F1G1H330A444	33pF 50V	1	
	C20	F1H0J1050013	1uF 6.3V	1	
	C21	F1H0J1050013	1uF 6.3V	1	
	C22	EEE1EA4R7SR	4.7uF 25V	1	
	C23	EEE0JA470WR	47uF 6.3V	1	
	C24	F1G1A1040006	0.1uF 10V	1	
	C25	F1H0J1050013	1uF 6.3V	1	
	C26	EEE0JA470WR	47uF 6.3V	1	
	C27	F1H0J1050013	1uF 6.3V	1	
	C28	F1G1A1040006	0.1uF 10V	1	
	C29	F1H0J1050013	1uF 6.3V	1	
	C30	EEE1AA220WR	22uF 10V	1	
	C31	F1G1C1030007	0.01uF 16V	1	
	C32	F1G1E3310001	330pF 25V	1	
	C33	F1G1A1040006	0.1uF 10V	1	
	C34	F1G1A1040006	0.1uF 10V	1	
	C35	F1G1A1040006	0.1uF 10V	1	
	C36	F3F1A106A026	10uF 10V	1	
	C37	F1G1A1040006	0.1uF 10V	1	
	C38	F3F1A106A026	10uF 10V	1	
	C39	F1G1E4710001	470pF 25V	1	
	C40	F1G1E4710001	470pF 25V	1	
	C100	F2A0J102A016	1000uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C102	F2A1A101A159	100uF 10V	1	
	C105	F2A1C221A019	220uF 16V	1	
	C106	F1K1C106A062	10uF 16V	1	
	C110	F2A1C100A147	10uF 16V	1	
	C202	F1G1E1020001	1000pF 25V	1	
	C202	F1H1C105A097	1uF 16V	1	
	C203	F1G1H101A566	100pF 50V	1	
	C204	F1G1A1040006	0.1uF 10V	1	
	C204	F1H1C105A097	1uF 16V	1	
	C205	F1G1A1040006	0.1uF 10V	1	
	C206	F1G1E1020001	1000pF 25V	1	
	C207	F1G1H8R0A456	8.0pF 50V	1	
	C207	F1H1H221A219	220pF 50V	1	
	C208	F1G1H330A444	33pF 50V	1	
	C208	F1H1C105A097	1uF 16V	1	
	C209	F1G1H8R0A456	8.0pF 50V	1	
	C210	F1G1E1020001	1000pF 25V	1	
	C211	F1G1E1020001	1000pF 25V	1	
	C212	F1G1E1020001	1000pF 25V	1	
	C212	F1H1C105A097	1uF 16V	1	
	C213	F1G1E1020001	1000pF 25V	1	
	C213	F1H1A105A025	1uF 10V	1	
	C214	F1G1A1040006	0.1uF 10V	1	
	C214	F1H1A105A025	1uF 10V	1	
	C215	F1G1C1030007	0.01uF 16V	1	
	C216	F1G1C1030007	0.01uF 16V	1	
	C217	F1G1E1020001	1000pF 25V	1	
	C217	F1H1A105A025	1uF 10V	1	
	C218	F1G1A1040006	0.1uF 10V	1	
	C218	F1H1C104A041	0.1uF 16V	1	
	C219	F1G1A1040006	0.1uF 10V	1	
	C219	F1H1C224A068	0.22uF 16V	1	
	C220	F1G0J224A001	0.22uF 6.3V	1	
	C220	F1H1C224A068	0.22uF 16V	1	
	C221	F1G0J224A001	0.22uF 6.3V	1	
	C221	F1H1H332A013	330pF 50V	1	
	C222	ECJ0EC1H121J	120pF 50V	1	
	C222	F1H1E223A002	0.022uF 25V	1	
	C223	F1G1A1040006	0.1uF 10V	1	
	C223	F1H1E223A002	0.022uF 25V	1	
	C224	F1G1H8R0A456	8.0pF 50V	1	
	C224	F1H1C393A001	0.039uF 16V	1	
	C225	F1G1A1040006	0.1uF 10V	1	
	C225	F1H1C224A068	0.22uF 16V	1	
	C226	F1G1A1040006	0.1uF 10V	1	
	C226	F1H1H332A013	3300pF 50V	1	
	C227	F1G1C1030007	0.01uF 16V	1	
	C228	F1G1A1040006	0.1uF 10V	1	
	C229	F1G1E6810001	680pF 25V	1	
	C231	EEE0JA470WR	47uF 6.3V	1	
	C232	F1G1A1040006	0.1uF 10V	1	
	C232	F1H1A105A025	1uF 10V	1	
	C233	F1H1C393A001	0.039uF 16V	1	
	C233	F3F1A106A026	10uF 10V	1	
	C234	F1G1E4710001	470pF 25V	1	
	C234	F1H1C393A001	0.039uF 16V	1	
	C235	F1G1E4710001	470pF 25V	1	
	C235	F2A1H4R7A234	4.7uF 50V	1	
	C236	F1G1H100A565	10pF 50V	1	
	C236	F1H1E1530002	0.015uF 25V	1	
	C241	F1J0J475A008	4.7uF 6.3V	1	
	C242	F1H1A105A025	1uF 10V	1	
	C260	F2A1C4710045	470uF 16V	1	
	C261	F1H1C104A041	0.1uF 16V	1	
	C271	F1H1H682A219	6800pF 50V	1	
	C300	F1H1H221A219	220pF 50V	1	
	C301	F1H1H221A219	220pF 50V	1	
	C302	F1H1C104A041	0.1uF 16V	1	
	C331	F1H1H102A219	1000pF 50V	1	
	C332	F1H1H102A219	1000pF 50V	1	
	C333	F1H1H331A013	330pF 50V	1	
	C334	F1H1H560A230	56pF 50V	1	
	C335	F1H1H331A013	330pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C337	F1H1H331A013	330pF 50V	1	
	C339	F1H1H560A230	56pF 50V	1	
	C340	F1H1H101A230	100pF 50V	1	
	C343	F1H1H101A230	100pF 50V	1	
	C345	ECJ1VC1H030C	3pF 50V	1	
	C347	F1H1H103A219	0.01uF 50V	1	
	C350	F1H1H470A004	47pF 50V	1	
	C370	F1H1H102A219	1000pF 50V	1	
	C371	F1H1H102A219	1000pF 50V	1	
	C372	F1H1H102A219	1000pF 50V	1	
	C385	F2A1C100A147	10uF 16V	1	
	C402	F1H1C105A097	1uF 16V	1	
	C404	F1H1C105A097	1uF 16V	1	
	C407	F1H1H221A219	220pF 50V	1	
	C408	F1H1C105A097	1uF 16V	1	
	C412	F1H1C105A097	1uF 16V	1	
	C419	F1H1C224A068	0.22uF 16V	1	
	C420	F1H1C224A068	0.22uF 16V	1	
	C421	F1H1H332A013	3300pF 50V	1	
	C422	F1H1E223A002	0.022uF 25V	1	
	C423	F1H1E223A002	0.022uF 25V	1	
	C424	F1H1C393A001	0.039uF 16V	1	
	C425	F1H1C224A068	0.22uF 16V	1	
	C441	F1J0J475A008	4.7uF 6.3V	1	
	C442	F1H1A105A025	1uF 10V	1	
	C471	F1H1H682A219	6800pF 50V	1	
	C600	F2A1C100A147	10uF 16V	1	
	C601	F2A1C100A147	10uF 16V	1	
	C602	F2A1C220A234	22uF 16V	1	
	C603	F2A1C220A234	22uF 16V	1	
	C604	F2A1A101A159	100uF 10V	1	
	C605	F2A1C100A147	10uF 16V	1	
	C606	F1H1C104A041	0.1uF 16V	1	
	C607	F1H1C104A041	0.1uF 16V	1	
	C608	F2A1C221A019	220uF 16V	1	
	C720	F1H1C105A097	1uF 16V	1	
	C722	F1H1H101A230	100pF 50V	1	
	C723	F1K1C106A062	10uF 16V	1	
	C724	ECJ1VB1H271K	270pF 50V	1	
	C725	F1H1H103A219	0.01uF 50V	1	
	C740	F1H1C105A097	1uF 16V	1	
	C742	F1H1H101A230	100pF 50V	1	
	C743	F1K1C106A062	10uF 16V	1	
	C744	ECJ1VB1H271K	270pF 50V	1	
	C745	F1H1H103A219	0.01uF 50V	1	
	C750	F1H1H103A219	0.01uF 50V	1	
	C752	F2A1A101A159	100uF 10V	1	
	C800	F1H1H101A230	100pF 50V	1	
	C801	F1H1H180A230	18pF 50V	1	
	C802	F1H1C104A041	0.1uF 16V	1	
	C803	F1H1H180A230	18pF 50V	1	
	C804	F1H1H220A004	22pF 50V	1	
	C806	F2A0J102A016	1000uF 6.3V	1	
	C808	F1H1H101A230	100pF 50V	1	
	C809	F2A1H1R0A145	1.0uF 50V	1	
	C810	F1H1H103A219	0.01uF 50V	1	
	C811	F2A1H1R0A145	1.0uF 50V	1	
	C812	F1H1H221A219	220pF 50V	1	
	C813	F1H1H221A219	220pF 50V	1	
	C814	F1H1H220A004	22pF 50V	1	
	C815	F1H1H221A219	220pF 50V	1	
	C826	F1H1H101A230	100pF 50V	1	
	C851	F2A1C100A147	10uF 16V	1	
	C852	F1H1H221A219	220pF 50V	1	
	C853	F1H1H101A230	100pF 50V	1	
	C854	F1H1H470A004	47pF 50V	1	
	C862	F1H1H471A219	470pF 50V	1	
	C863	F1H1H471A219	470pF 50V	1	
	C876	F1H1H561A013	560pF 50V	1	
	C877	F1H1H561A013	560pF 50V	1	
	C878	F1H1C104A041	0.1uF 16V	1	
	C881	F1H1H221A219	220pF 50V	1	
	C882	F1H1H472A970	4700pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C883	F2A1A101A159	100uF 10V	1	
	C900	F2A1V220A184	22uF 35V	1	
	C901	F1H1C104A042	0.1uF 16V	1	
	C901	F2A1V220A184	22uF 35V	1	
	C902	F1H1C104A042	0.1uF 16V	1	
	C902	F2A1V220A184	22uF 35V	1	
	C903	F1H1C104A042	0.1uF 16V	1	
	C903	F1H1H104A013	0.1uF 50V	1	
	C904	F2A1C100A234	10uF 16V	1	
	C905	F1H1C104A041	0.1uF 16V	1	
	C905	F1H1C104A042	0.1uF 16V	1	
	C906	F1H1H101A230	100pF 50V	1	
	C906	F2A1C100A234	10uF 16V	1	
	C907	ECJ1VC1H180J	18pF 50V	1	
	C907	F1H1H101A230	100pF 50V	1	
	C908	F1H1H220A004	22pF 50V	1	
	C908	F2A1C100A147	10uF 16V	1	
	C909	F2A1V220A184	22uF 35V	1	
	C910	F2A1C220A234	22uF 16V	1	
	C911	F1H1C104A042	0.1uF 16V	1	
	C911	F1H1H221A219	220pF 50V	1	
	C912	F1H1C104A042	0.1uF 16V	1	
	C912	F1H1H221A219	220pF 50V	1	
	C913	F1H1C104A042	0.1uF 16V	1	
	C913	F1H1H221A219	220pF 50V	1	
	C914	F1H1C104A042	0.1uF 16V	1	
	C915	F2A1C470A234	47uF 16V	1	
	C931	F2A1C100A234	10uF 16V	1	
	C950	F1H1H103A219	0.01uF 50V	1	
	C951	F1H1C104A042	0.1uF 16V	1	
	C951	F1H1H103A219	0.01uF 50V	1	
	C952	F1H1C104A042	0.1uF 16V	1	
	C953	F2A0J101A245	100uF 6.3V	1	
	C1001	F1H1H104A013	0.1uF 50V	1	
	C1002	F1H1H104A013	0.1uF 50V	1	
	C1003	F1H1H104A013	0.1uF 50V	1	
	C1004	F1H1H104A013	0.1uF 50V	1	
	C5102	F1K1H105A138	1uF 50V	1	
	C5103	F1H1H471A219	470pF 50V	1	
	C5104	F1H1C224A068	0.22uF 16V	1	
	C5105	F1H1C224A068	0.22uF 16V	1	
	C5106	F1K1H105A138	1uF 50V	1	
	C5107	F1H1C224A068	0.22uF 16V	1	
	C5108	F1H1C224A068	0.22uF 16V	1	
	C5109	F1H1H471A219	470pF 50V	1	
	C5111	F2A1H3R3A213	3.3uF 50V	1	
	C5113	F1H1H471A219	470pF 50V	1	
	C5114	F1H1H471A219	470pF 50V	1	
	C5120	F1H1H102A219	1000pF 50V	1	
	C5124	F2A1C100A147	10uF 16V	1	
	C5901	F2A1V3320020	3300uF 35V	1	
	C5902	F1H1H104A013	0.1uF 50V	1	
	C5905	F2A1H220A182	22uF 50V	1	
	C5906	F2A1H220A182	22uF 50V	1	
	C5907	F1H1H103A219	0.01uF 50V	1	
	C5908	F2A1H470A147	47uF 50V	1	
	C5909	F2A1E102A151	1000uF 25V	1	
	C5910	F1H1H104A013	0.1uF 50V	1	
	C5911	F2A1C100A147	10uF 16V	1	
	C5912	F1H1H103A219	0.01uF 50V	1	
	C5913	F2A1C221A019	220uF 16V	1	
	C5914	F1H1H104A013	0.1uF 50V	1	
	C5916	F1H1E104A029	0.1uF 25V	1	
	C5917	F2A1C102A236	1000uF 16V	1	
	C5918	F2A1C221A019	220uF 16V	1	
	C5919	F1H1C104A041	0.1uF 16V	1	
	C5920	F1H1C104A041	0.1uF 16V	1	
	C5921	F2A1C100A147	10uF 16V	1	
	C5922	F1H1H103A219	0.01uF 50V	1	
	C5923	F1H1H103A219	0.01uF 50V	1	
	C5924	F1H1H103A219	0.01uF 50V	1	
	C5925	F2A1C100A147	10uF 16V	1	
	C5928	F1H1H104A013	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5929	F1H1H104A013	0.1uF 50V	1	
	C5939	F2A1E102A151	1000uF 25V	1	
	C7102	F1H1A474A025	0.47uF 10V	1	
	C7107	F1H1H223A219	0.022uF 50V	1	
	C7142	F1H1H332A013	3300pF 50V	1	
	C7154	F1H1C104A042	0.1uF 16V	1	
	C7155	F1H1C104A042	0.1uF 16V	1	
	C7161	F1H1C104A042	0.1uF 16V	1	
	C7164	ECJ2FF1A106Z	10uF 10V	1	
	C7165	ECJ2FF1A106Z	10uF 10V	1	
	C7166	F1H1H103A219	0.01uF 50V	1	
	C7203	F2A0J221A200	220uF 6.3V	1	
	C7204	F1H1C104A042	0.1uF 16V	1	
	C7216	ECJ1VB1H681K	680pF 50V	1	
	C7217	F1H1C104A042	0.1uF 16V	1	
	C7218	ECJ1VB1C823K	0.082uF 16V	1	
	C7221	ECJ1VC1H150J	15pF 50V	1	
	C7222	ECJ1VC1H150J	15pF 50V	1	
	C7223	F2A1H4R70037	4.7uF 50V	1	
	C7225	F1H1H102A219	1000pF 50V	1	
	C7226	F1H1H102A219	1000pF 50V	1	
	C7227	ECA1HAK010XI	1uF 50V	1	
	C7228	ECA1HAK010XI	1uF 50V	1	
	C7230	F1H1C104A042	0.1uF 16V	1	
	C7231	F2A0J221A200	220uF 6.3V	1	
	C7232	F2A0J221A200	220uF 6.3V	1	
	C7233	F1H1C104A008	0.1uF 16V	1	
	C7234	F1H1C104A042	0.1uF 16V	1	
	C7235	F2A1C100A133	10uF 16V	1	
	C7241	F1H1H102A219	1000pF 50V	1	
	C7243	F1H1C104A008	0.1uF 16V	1	
	C7244	F1H1C153A001	0.015uF 16V	1	
	C7253	F1H1H471A219	470pF 50V	1	
	C7263	F1H1C104A042	0.1uF 16V	1	
	C7264	F1H1C104A042	0.1uF 16V	1	
	C7315	F1H1A474A025	0.47uF 10V	1	
	C7334	ECEA1AKA221I	220uF 10V	1	
	C7335	F1H1C104A008	0.1uF 16V	1	
	C7338	F1H1E2730002	0.027uF 25V	1	
	C7339	F1H1C183A001	0.018uF 16V	1	
	C7352	F1H1C183A001	0.018uF 16V	1	
	C7601	ECEA0JKA330I	33uF 6.3V	1	
	C7613	F1H1C104A042	0.1uF 16V	1	
	C7614	F2A0J101A198	100uF 6.3V	1	
	C7626	F1H1C104A042	0.1uF 16V	1	
	C7670	F1H1C104A042	0.1uF 16V	1	