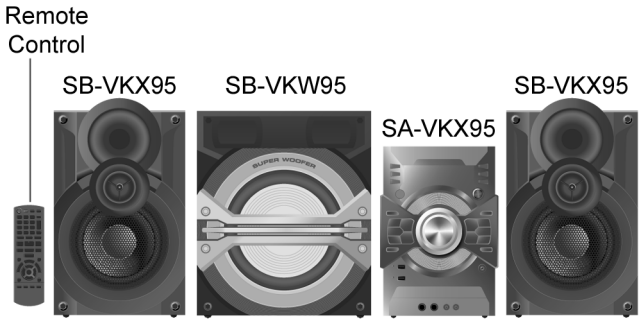
PSG1408003CE

Service Manual

DVD Stereo System

Model No. SA-VKX95EE
SA-VKX95GA
SA-VKX95GS



Product Color: (K)...Black Type

Please refer to the original service manual for:
- **DVD Mechanism Unit (BRS12D), Order No. PSG1408009AE**
- **Speaker system SB-VKX95GA-K, SB-VKW95GA-K, Order No. PSG1408002CE**

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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Panasonic®

1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

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

1.1.2. Leakage Current Hot Check

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

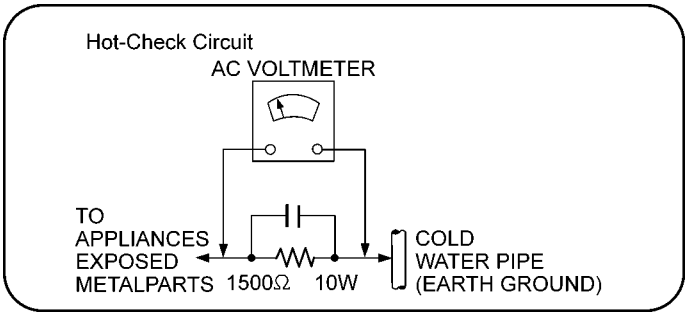


Figure 1-1

1.2. Before Repair and Adjustment

Disconnect Power Supply AC to discharge AC capacitor as indicate below diagram (in SMPS Module) through a 10 Ω, 10 W resistor to ground.

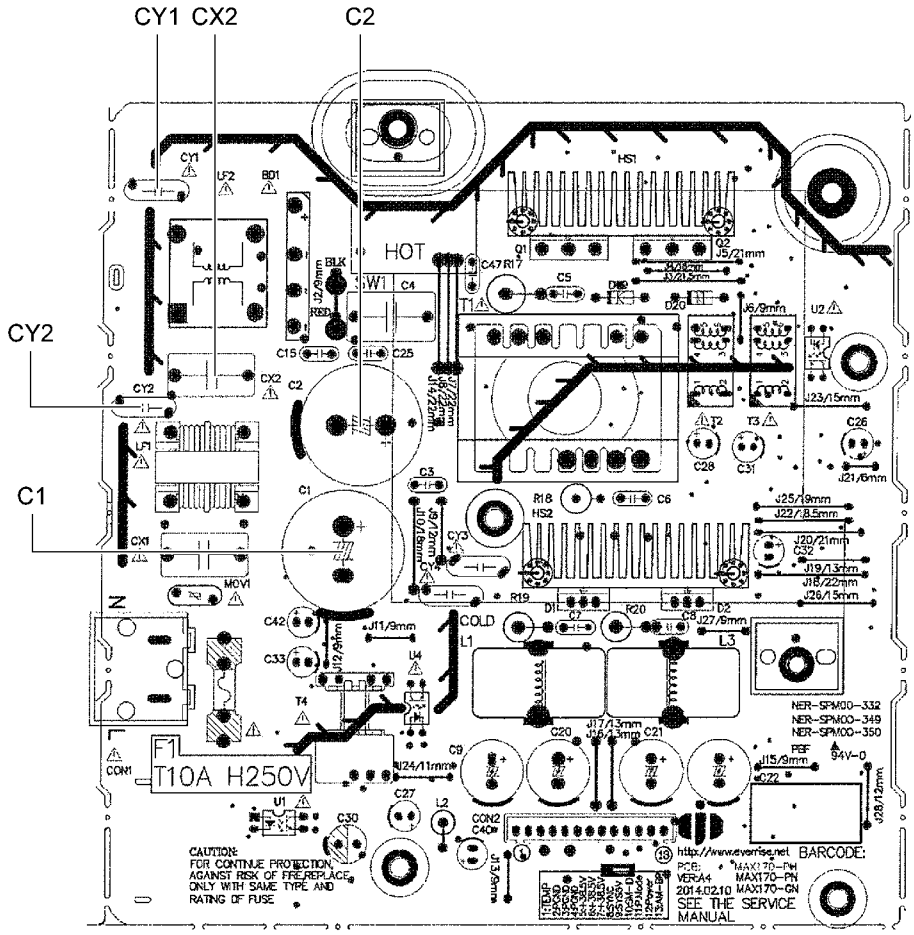


Figure 1-2

Caution:

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac to avoid overcurrent.

Current consumption at AC 220~240 V, 50/60 Hz during Power ON, in FM mode at volume minimal should be ~ 850 mA.

1.3. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

1.4. Caution For AC Cord (For GS 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 Ψ 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 OF 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 stated below.
If in any doubt please consult a qualified electrician.

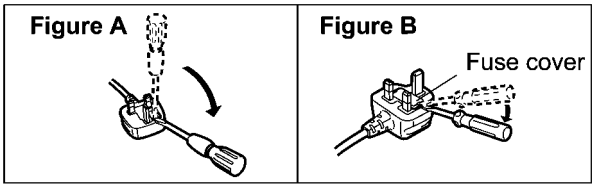
IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal 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.



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

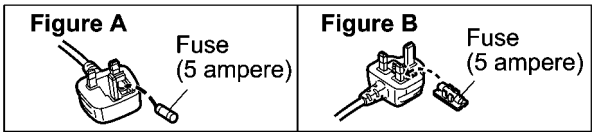


Figure 1-3

1.5. Power Supply using SMPS

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

1) N0AC2GP00002

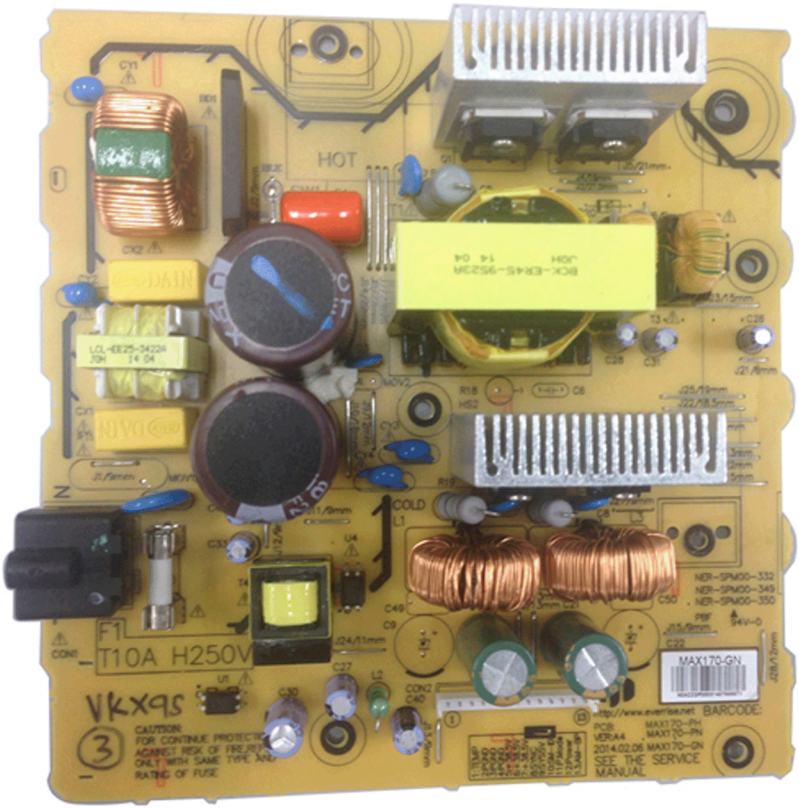


Figure 1-4

1.6. Safety Parts Information

Safety Parts List:

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

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

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	13	RGR0443X-A1A	REAR PANEL	GA
⚠	13	RGR0443X-B1A	REAR PANEL	GS
⚠	13	RGR0443X-C1A	REAR PANEL	EE
⚠	25	RKM0713-K1	TOP CABINET	
⚠	301	RAE2405Z-V	TRAVERSE UNIT	
⚠	A2	K2CP2YY00061	AC CORD	GA
⚠	A2	K2CQ2YY00119	AC CORD	
⚠	A2	K2CT2YY00097	AC CORD	GS
⚠	A3	RQT9950-1B	O/I BOOK (En)	GA/GS
⚠	A3	RQT9953-1R	O/I BOOK (Ru,Ur)	EE
⚠	A3	RQT9956-1G	O/I BOOK (Pe,Ar)	GS
⚠	PCB8	N0AC2GP00002	SMPS MODULE	

2 Warning

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

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

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION:
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

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2.2. Precaution of Laser Diode

CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wavelength: 790 nm (CD)/655 nm (DVD)
Maximum output radiation power from pickup: 100 μW/VDE
Laser radiation from the pickup unit is safety level, but be sure the followings:

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

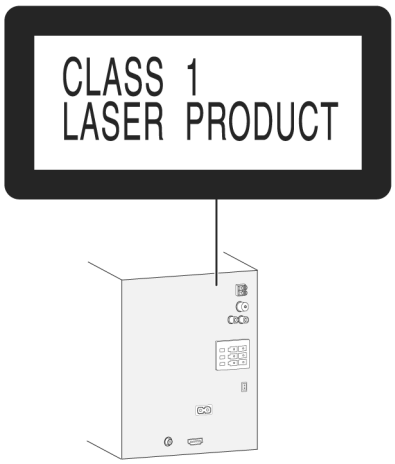


Figure 2-1

2.3. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

The letter of “PbF” is printed either foil side or components side on the PCB using the lead free solder. (See right figure)	PbF

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

2.4. Handling Precautions for Traverse Unit

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

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

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

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

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

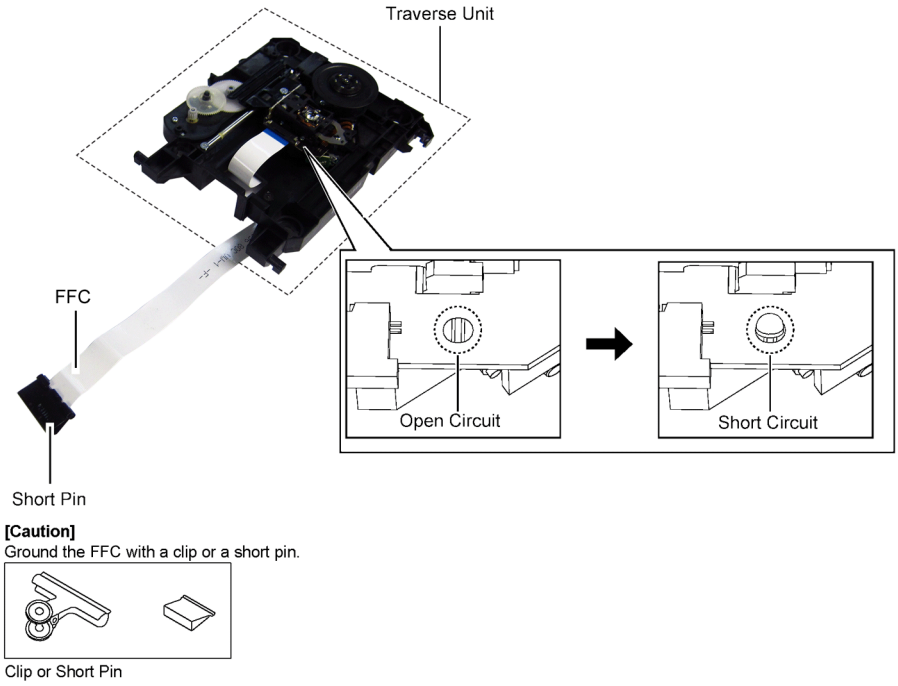


Figure 2-2

2.5. Grounding for electrostatic breakdown prevention

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

2.5.1. Worktable grounding

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

2.5.2. Human body grounding

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

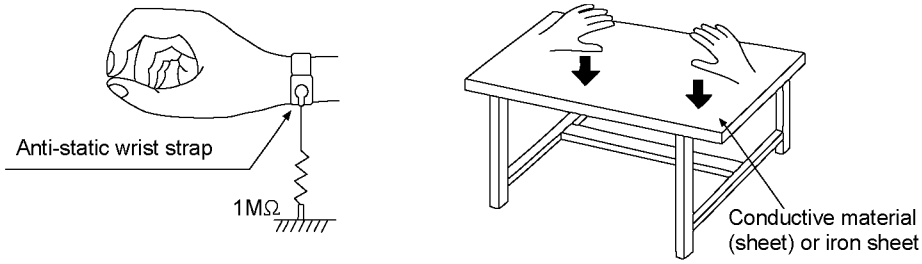


Figure 2-3

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

4 Specifications

■ Amplifier section

RMS output power stereo mode

Front Ch	450 W per channel (2 Ω), 1 kHz
Subwoofer Ch	450 W per channel (2 Ω), 100 Hz
Total RMS stereo mode power	1350 W (30% THD)

PMPO output power 14850 W

■ Tuner, terminals section

Preset memory FM 30 stations
AM 15 stations

Frequency modulation (FM)

Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

Amplitude modulation (AM)

Frequency range	522 kHz to 1629 kHz (9 kHz step) 520 kHz to 1630 kHz (10 kHz step)

Mic jack

Terminal	Mono, 6.3 mm jack (2 system)
Sensitivity	0.7 mV, 1.2 kΩ

AUX 1

Audio input	Pin jack (1 system)

AUX 2

Sensitivity	100 mV, 4.7 kΩ

■ USB section

USB Port

USB standard	USB 2.0 full speed
Media file format support	
USB AUDIO	MP3 (*.mp3)
USB VIDEO	JPEG (*.jpg, *.jpeg), Xvid (*.xvid, *.avi)
USB device file system	FAT12, FAT16, FAT32
USB port power	500 mA (max)
Bit rate	Up to 4 Mbps (Xvid)

USB Recording

Bit rate	128 kbps
USB recording speed	1x
Recording file format	MP3 (*.mp3)

■ Bluetooth® section

Version Bluetooth® Ver.2.1 + EDR
Class Class 2
Supported profiles A2DP, AVRCP, SPP
Operating frequency 2.4 GHz band, FH-SS
Operating distance 10 m line of sight

■ Video section

Video system PAL, NTSC

Composite video output

Output level	1 Vp-p (75 Ω)
Terminal	Pin jack (1 system)

HDMI AV output

Terminal	19-pin type A connector

■ Disc section

Discs played (8 cm or 12 cm)

(1) DVD (DVD-Video, Xvid[*4, 5])
(2) DVD-R (DVD-Video, DVD-VR, JPEG[*3, 5], MP3[*2, 5], Xvid[*4, 5])
(3) DVD-R DL (DVD-Video, DVD-VR, Xvid[*4, 5])
(4) DVD-RW (DVD-Video, DVD-VR, JPEG[*3, 5], MP3[*2, 5], Xvid[*4, 5])
(5) +R/+RW (Video)
(6) +R DL (Video)
(7) CD, CD-R/RW (CD-DA, Video CD, SVCD[*1], MP3[*2, 5], JPEG[*3, 5], Xvid[*4, 5])

[*1] Conforming to IEC62107

[*2] MPEG-1 Layer 3, MPEG-2 Layer 3

[*3] Exif Ver 2.1 JPEG Baseline files
Picture resolution: between 160 x 120 and 6144 x 4096 pixels
(Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4).
Extremely long and narrow pictures may not be displayed.

[*4] Plays Xvid video.

[*5] The total combined maximum number of recognisable audio, picture and video contents and groups: 4000 audio, picture and video contents and 255 groups (Excluding Root folder).

Pick up

Wavelength	
CD	790 nm
DVD	655 nm

■ General

Power supply	AC 220 V to 240 V, 50/60 Hz
Power consumption	136 W
Dimensions (W x H x D)	230 mm x 335 mm x 252 mm
Mass	3.7 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35% to 80% RH (no condensation)
Power Consumption in standby mode	0.4 W (approximate)
Power Consumption in standby mode (With BLUETOOTH® "STANDBY MODE" set to "ON STANDBY MODE")	0.6 W (approximate)

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

■ System: SC-VKX95EE-K

Main Unit: SA-VKX95EE-K
Front Speakers: SB-VKX95GA-K
Subwoofer: SB-VKW95GA-K

■ System: SC-VKX95GA-K

Main Unit: SA-VKX95GA-K
Front Speakers: SB-VKX95GA-K
Subwoofer: SB-VKW95GA-K

■ System: SC-VKX95GS-K

Main Unit: SA-VKX95GS-K
Front Speakers: SB-VKX95GA-K
Subwoofer: SB-VKW95GA-K

5 Location of Controls and Components

5.1. Remote Control Key Button Operation

① **Standby/on switch [⏻], [⏻/I]**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Numeric buttons**
To set a 2-digit number
Example: 16: [≧10] → [1] → [6]

③ Cancel an item
Delete the programmed tracks

④ **Select the source**
On the main unit:
To start Bluetooth® pairing, press and hold [/USB, –PAIRING] when you are in Bluetooth® source.

⑤ Basic playback control

⑥ Select the sound effects
Select the super woofer effect
On the main unit:
Press and hold [–SUPER WOOFER].
Press [I◄◄/◄◄] or [►►/►►I] to select the setting.

⑦ Repeat playback

⑧ Show the disc top menu
Show the program list

⑨ View the information shown on the display panel
Decrease the brightness of the display panel
Press and hold the button to use this function.
To cancel, press and hold the button again.
On the main unit:
Press [DIMMER] to use this function.

⑩ Record content to a USB device

⑪ Set the sleep timer
Automatically switch off the system
The auto off function switches off the system if you do not use the system for approximately 20 minutes (except when you are in radio source or when a Bluetooth® device is connected).
Press and hold the button to use this function.
To cancel, press and hold the button again.

⑫ **Operate a Panasonic TV** (compatible models only)
Point the remote control to a Panasonic TV:
[⏻]: Switch on or switch off the TV
[AV]: Change the video input mode of the TV
[+/ –, VOL]: Adjust the volume of the TV

⑬ Adjust the volume level of the system

⑭ **Mute the sound**
To cancel, press the button again.
"MUTE" is also cancelled when you adjust the volume or when you switch off the system.

⑮ Set the play mode item

⑯ Show the on-screen menu

⑰ Show the disc menu or playlist

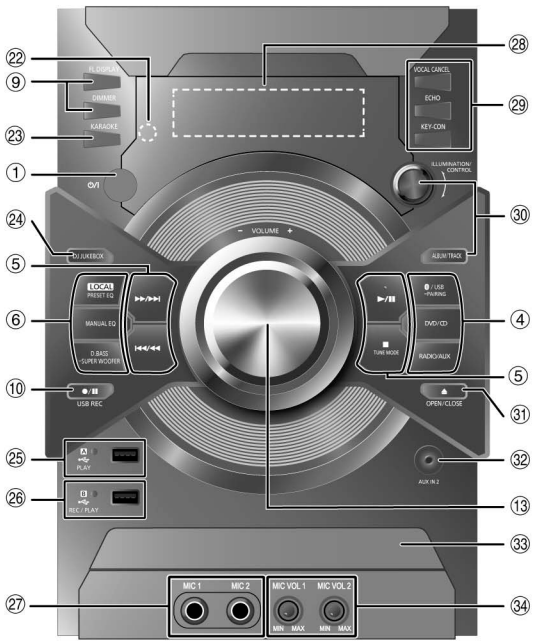
⑱ Select or confirm menu items
View frame-by-frame
Browse albums on USB A-AUDIO and USB B-AUDIO source
Press [▲, ▼] to browse.

⑲ Go back to the previous screen

⑳ Change the system settings
Set the edit mode for USB B

㉑ Set the clock and timer

5.2. Main Unit Key Button Operation



① **Standby/on switch [⏻], [⏻/I]**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

④ **Select the source**
On the main unit:
To start Bluetooth® pairing, press and hold [/USB, –PAIRING] when you are in Bluetooth® source.

⑤ Basic playback control

⑥ Select the sound effects
Select the super woofer effect
On the main unit:
Press and hold [–SUPER WOOFER].
Press [I◄◄/◄◄] or [►►/►►I] to select the setting.

⑨ View the information shown on the display panel
Decrease the brightness of the display panel
Press and hold the button to use this function.
To cancel, press and hold the button again.
On the main unit:
Press [DIMMER] to use this function.

⑩ Record content to a USB device

⑬ Adjust the volume level of the system

㉒ **Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

㉓ Select the Karaoke mode

㉔ Select the DJ Jukebox

㉕ USB A
USB port (•⇜)
USB status indicator
Play MP3 tracks, Xvid and JPEG.
Record MP3 tracks to USB B.

㉖ USB B
USB port (•⇜)
USB status indicator
Record sound or music tracks.
Play MP3 tracks, Xvid and JPEG.

㉗ Microphone jacks

㉘ Display panel

㉙ Select the Karaoke sound effect

㉚ **Select MP3 album or track**
Press [ALBUM/TRACK] to select album or track.
Browse tracks or albums
Turn [CONTROL] to browse.
To start playback from the selection, press [►/❚❚].
Illumination
Turn [ILLUMINATION] to select the setting.

㉛ Open or close the disc tray

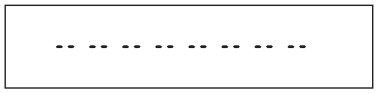
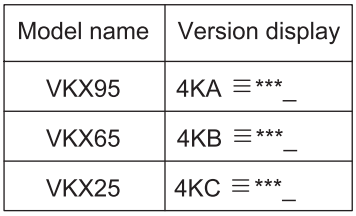
㉜ AUX IN 2 jack

㉝ Disc tray

㉞ Adjust the volume of the microphone

6 Service Mode

6.1. Service Mode Table

Item		FL display	Key operation
Mode name	**Description**		
Service Mode	To enter into Service Mode checking.		Step 1 : Select CD mode (Ensure no disc is inserted). Step 2 : Press and hold [■] 2 seconds follow by [▶▶/▶▶|] on main unit for 2 seconds.
Error code information	System will perform a check on any unusual/error code from the memory.	Example: 	Step 1 : In service mode, Press [■] on main unit. To exit, press [⏻/I] on main unit or remote control.
Delete Error code	To clear the stored in memory (EEPROM IC).		Step 1 : In service mode, Press [OK] on remote control more than 5 seconds. To exit, press [⏻/I] on main unit or remote control.
Cold Start	To activate cold start upon next power up. (Backup date are initialized)		Step 1 : In service mode, Press [3] on the remote control. To exit, press [⏻/I] on main unit or remote control.
Opecon Version	Opecon version display	Opecon Version: 	Step 1 : Enter Service Mode, Press [FL Display] on remote control. To exit, press [⏻/I] on main unit or remote control.

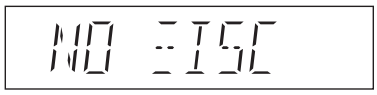
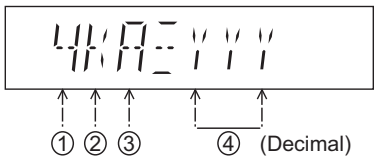
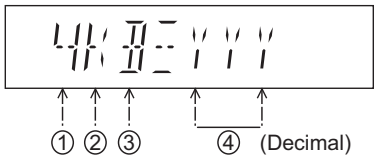
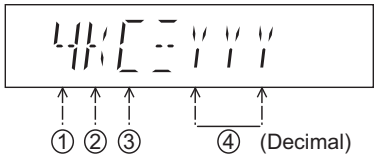
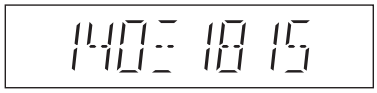
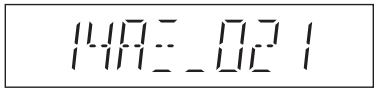
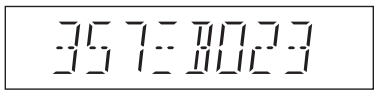
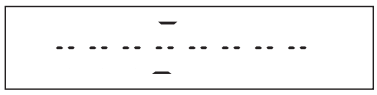
Model name	Version display
VKX95	4KA ☰***_
VKX65	4KB ☰***_
VKX25	4KC ☰***_

6.2. Sales Demonstration Lock Function

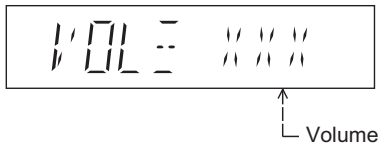
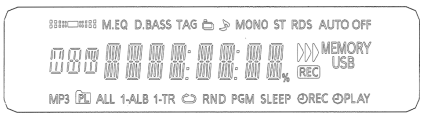
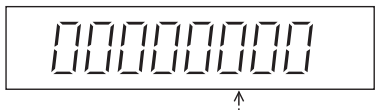
Item		FL display	Key operation
Mode name	**Description**		
Entering into Sales demonstration lock mode	To enter into Sales demonstration lock mode.		Step 1 : Turn on the unit. Step 2 : Select to any mode function. Step 3 : Press and hold [■] and [DVD/CD] keys for 5 sec. The display will show upon entering into this mode for 2 sec.
Cancellation of Sales demonstration lock mode	To cancel Sales demonstration lock mode.		Step 1 : Turn on the unit. Step 2 : Select to any mode function. Step 3 : Set volume to Vol 19. Step 4 : Press and hold [■] and [DVD/CD] keys for 5 sec. The display will show upon entering into this mode for 2 sec.

6.3. Doctor Mode Table

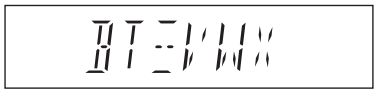
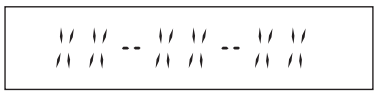
6.3.1. Doctor Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode		In CD Mode: 1. Press [■] button on main unit follow by [4] and [7] on remote control. 2. To exit, press [CANCEL/DEL] button on remote control or, press [POWER, ⏻/I] button on Main Unit
Firmware Version	Displaying of 1. Year Develop. 2. Model Type. 3. ROM Type. 4. Firmware Version.	(Display 1) (For VKX95)  ① ② ③ ④ (Decimal) (Display 1) (For VKX65)  ① ② ③ ④ (Decimal) (Display 1) (For VKX25)  ① ② ③ ④ (Decimal) Version No. (001 ~ 999) → specific for each firmware (Display 2)  (Display 3)  (Display 4)  Note: Display 2~4 is for illustration use only. Refer display on actual unit.	In CD mode: 1. Enter into Doctor Mode
Cold Start	To active cold start upon next AC power up when reset start is execute the next time.		In Doctor Mode: 1. Press [4] button on the remote control.

6.3.2. Doctor Mode Table 2

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

6.3.3. Doctor Mode Table 3

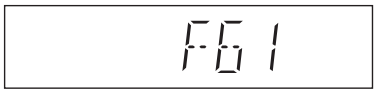
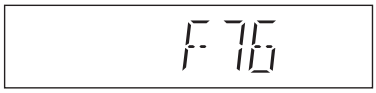
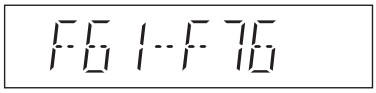
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Bluetooth Version Check	Bluetooth module will need some time to power up and read the version display. Meanwhile [_BT_ll----_] will show before the ver. numbers appear. 2s display count should start after flash version number appear.	 (2 sec) ↓  (2 sec) v = flash version (0~7), w = flash sub version (0~F), x = control version (0~F), yyy = EEPROM version (0~255), zz = EEPROM sub version (0~99),	1. Go to Bluetooth selector and then enter Doctor Mode. 2. Press [10] →[2] →[4] and display will show.
Bluetooth Devices Address Confirmation	Bluetooth Address Check	 XX is a 6 byte BD address. If there is any error, it will show ERROR on Left side FL display.	In Doctor Mode: 1. Press [10] →[2] →[8] and display will show.
Region Check	Checking for model no and Region	 AD value of region pin is check and display will show [REG□YYY] based on region table. YYY = 001 ~ 010 based on region table as below.	In Doctor Mode: 1. Press [10] →[1] →[6] button on the remote control.

Region	Model	Series
1	VKX95	GA
2	VKX95	GS
3	VKX95	EE
6	VKX25	GA
7	VKX25	GS
8	VKX25	EE
11	VKX65	GA
12	VKX65	GS
13	VKX65	EE

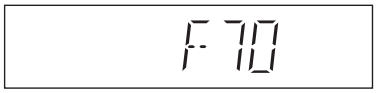
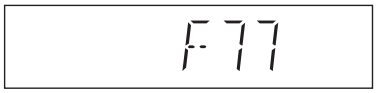
6.4. Error Code Table

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

6.4.1. Power Supply Error Code Table

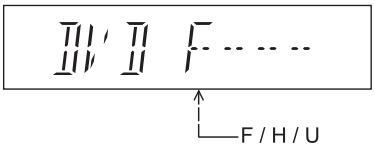
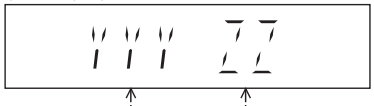
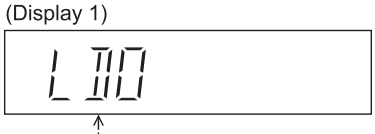
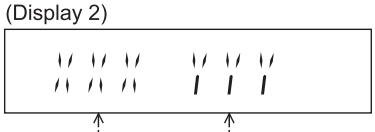
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Error Code F61	Diagnosis Contents: Power Amp IC output abnormal. Upon power on, PCONT=HIGH, DC_DET_AMP after checking LSI.		Press [■] on main unit for next error.
Error Code F76	Diagnosis Contents: Power Amp IC output abnormal. DC_DET_PWR.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

6.4.2. Bluetooth Error Code Table

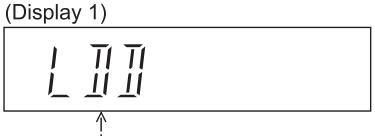
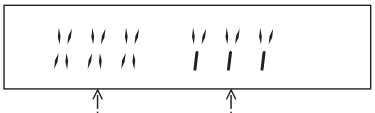
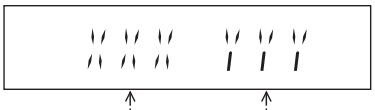
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Error Code F70	Diagnosis Contents: Bluetooth Communication. Communication between Bluetooth module and micro-p abnormal.		Press [■] on main unit for next error.
Error Code F77	Diagnosis Contents: Bluetooth Address Error If there is no valid Bluetooth address stored in the EEPROM IC.		Press [■] on main unit for next error.

6.5. Self-Diagnostic Mode

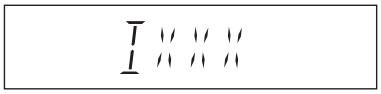
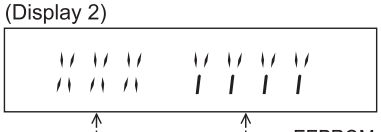
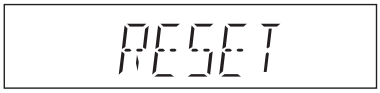
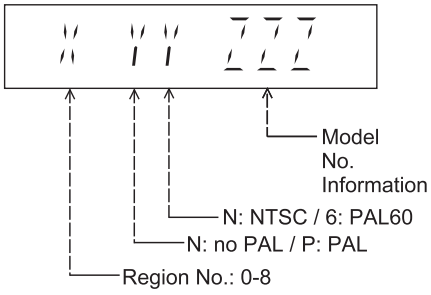
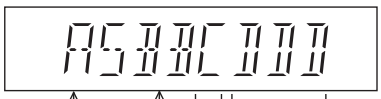
6.5.1. Self-Diagnostic Mode Table 1 (For DVD Module)

Item		FL Display	Key Operation
Mode Name	Description		
Error code check	Error code check The latest error code stored in the EEPROM IC is displayed. Note: Refer to "[Section 6.6] DVD Self Diagnostic Function-Error Code" for more detailed information on the error codes.	 F / H / U Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: → DVDnn U12 Error code = 0 x DBXX is expressed: → DVDnn H12 Error code = 0 x DXXX is expressed: → DVDnn F123 Error code = 0 x 0000 is expressed: → DVDnn F--- * "xx" denotes the error code	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [0] button on the remote control unit. To exit, press [POWER] button on main unit or remote control.
Jitter check	Jitter check. Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retried to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more. FL Display sequence: Display 1➞2.	(Display 1)  Jitter Check Mode Jitter Rate Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation. (Display 2)  Lead Error Counter Focus Drive Value	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [5] button on the remote control unit. Press [FL Display] on remote control unit for next page (FL Display).
Initial setting of laser drive current	Initial setting of laser drive current. Initial current value for the DVD laser and CD laser is separately saved in the EEPROM IC. FL Display sequence: Display 1➞2.	(Display 1)  Laser Current Measurement Mode The value denotes the current in decimal notation. (Display 2)  CD Laser DVD Laser The above example shows the initial current is XXXmA and YYYmA for CD laser and DVD laser respectively when the laser is switched on.	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [PLAY/PAUSE] button on the remote control unit. Cancelled automatically 5 seconds later. Press [FL Display] on remote control unit for next page (FL Display) on values of laser drive current.

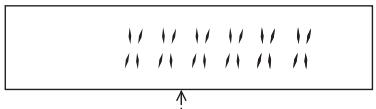
6.5.2. Self-Diagnostic Mode Table 2 (For DVD Module)

Item		FL Display	Key Operation
Mode Name	Description		
DVD laser drive current measurement	DVD laser drive current measurement. DVD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. FL Display sequence: Display 1→2.	(Display 1)  DVD laser current measurement mode The value denotes the current in decimal notation. (Display 2)  DVD Laser Initial Value DVD Laser Value The above example shows the initial current is XXXmA and the measured value is YYYmA.	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [FUNCTIONS] button on the remote control unit. Cancelled automatically 5 seconds later. Press [FL Display] on remote control unit for next page (FL Display) on values of dvd drive current.
CD laser drive current measurement	CD laser drive current measurement. CD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. FL Display sequence: Display 1→2.	(Display 1)  CD Laser Current Measurement Mode The value denotes the current in decimal notation. (Display 2)  CD Laser Initial Value CD Laser Current Value The above example shows the initial current is XXXmA and the measured value is YYYmA.	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [3] button on the remote control unit. Cancelled automatically 5 seconds later. Press [FL Display] on remote control unit for next page. (FL Display)

6.5.3. Self-Diagnostic Mode Table 3 (For DVD Module)

Item		FL Display	Key Operation
Mode Name	Description		
Micro-processor firmware version display & EEPROM checksum display.	Micro-processor firmware version display & EEPROM checksum display. EEPROM checksum is only available due to existence of EEPROM IC. Note: Condition 1/2/3 shows the state of EEPROM IC. It is indicated in Display 2. FL Display sequence: Display 1→2→3.	(Display 1)  (Display 2)  	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [7] button on the remote control unit. Cancelled automatically 5 seconds later. Press [FL Display] button on remote control unit for next page. (FL Display)
Initialization mode	Initialization. User settings are cancelled and player is initialized to factory setting. It is necessary when after replacement of Micro-processor (DV5 LSI) IC, FLASH ROM IC (IC8651), EEPROM IC (IC8611) & DVD Module P.C.B.	 Full Initialization 	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [≧10] button on the remote control unit. Cancelled automatically 5 seconds later. In DVD/CD (no disc) Mode: Press [OK] button on the and [≧10] button on the remote control unit. Cancelled automatically 5 seconds later.
Region display	Region code display, TV broadcasting system & the model no. information. Note: Refer to Fig. 6.5.5 for "Video Design Information".	 	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [6] button on the remote control unit. Cancelled automatically 5 seconds later.
Region & Version Display	Region & System Controller version is displayed on the FL Display. The firmware version can be updated using recovery disc. Note: It is necessary to check for firmware version before carrying out the version up using the disc.	 	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [8] button on the remote control unit. Cancelled automatically 5 seconds later.

6.5.4. Self-Diagnostic Mode Table 4 (For DVD Module)

Mode Name	Item Description	FL Display	Key Operation
Timer 1 check	Timer 1 check Laser operation timer is measured separately for DVD laser and CD laser. FL Display sequence: Display 1→2.	(Display 1)  DVD laser usage time Shown to the above is DVD laser usage time, and to the below is CD laser usage time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999". (DVD laser) (Display 2)  CD laser usage time Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999". (CD laser)	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [▲] button on the remote control unit. Cancelled automatically 5 seconds later. Press [FL Display] button for next page of FL Display.
Timer 1 reset	Timer 1 reset Laser operation timer of both DVD laser and CD laser is reset all at once.	 Time is shown in 4 digits of decimal notation in a unit of 10 hours. It will clear to "0000" upon reset.	While displaying Timer 1 data, press [STOP] button on the main unit, and [▼] button on the remote control unit. Cancelled automatically 5 seconds later
Timer 2 check	Timer 2 check Spindle motor operation timer	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. "00000" will follow "99999".	In DVD/CD (no disc) Mode: Press [STOP] button on the main unit, and [▶] button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 reset	Timer 2 reset Spindle motor operation timer	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. It will be cleared to "00000" upon activating this.	While displaying Timer 2 data, press [STOP] button on the main unit, and [◀] button on the remote control unit. Cancelled automatically 5 seconds later.

6.5.5. Video Design Information

Model Series	Country Region	Region Code	TV Broadcasting System	Product			
				Signal System (Default)	Region Display (Default)	OSD Default	OSD Menu Language
P, PC, PX	USA, Canada, US Militry	1	NTSC	NTSC (*A)	1PN	English	English (NA), Spanish (NA), Canadian French
(S)	Japan	2	NTSC	NTSC (*A)	2PN	Japanese	Japanese, English
EP	Poland, E.Europe	2	PAL	PAL (*C)	2P6	English	English (EU), French, German, Spanish (EU), Polish, Russian, Czech, Hungarian
EB, EG	UK, Germany, W.Europe	2	PAL	PAL (*C)	2P6	English	English (EU), French, German, Italian, Spanish (EU), Polish, Swedish, Dutch
GC, GS	Middle East, Africa, S.E.A	2	PAL	PAL (*C)	2P6	English	English (EU), French (EU), Spanish (EU), Russian
GA, GD, GT, GJ	South East Asia, Korea, Taiwan	3	PAL NTSC	NTSC (*B)	3PN	English	English (EU), French (EU), Spanish (EU), Russian
GN	New Zealand, Australia	4	PAL	PAL (*C)	4P6	English	English (EU), French, German, Italian, Spanish (EU), Polish, Swedish, Dutch
PN	Central & S.America, Brazil	4	NTSC	NTSC (*D)	4PN	Spanish	English (NA), Spanish (Panama), French, Brazilian Portuguese
PB	Central & S.America, Brazil	4	NTSC	NTSC (*D)	4PN	Portuguese	English (NA), Spanish (Panama), French, Brazilian Portuguese
PU, PH, PR	South/Centrial America, Argentina	4	NTSC	NTSC (*D)	4PN	English	English (NA), Spanish (Panama), French, Brazilian Portuguese
EE	CIS	5	SECAM	PAL (*C)	5P6	English	English (EU), French (EU), Spanish (EU), Russian
GW	India	5	PAL	PAL (*C)	5P6	English	English (NA), Traditional Chinese
GK	China	6	NTSC	NTSC (*B)	6PN	Simplified Chinese	English (NA), Simplified Chinese

NTSC (*A)

Source	Output
Screen Saver	NTSC
NTSC disc	NTSC
PAL disc	PAL (DVD-V)
	NTSC (DVD-A/VCD)

NTSC (*B)

Source	Output
Screen Saver	NTSC
NTSC disc	NTSC (default)
	PAL60
PAL disc	PAL

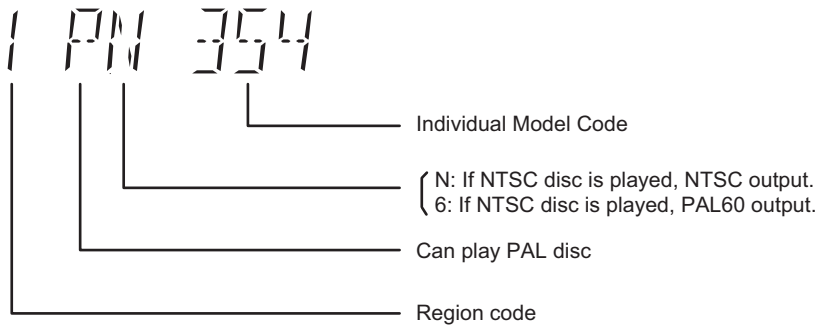
PAL (*C)

Source	Output
Screen Saver	PAL
NTSC disc	PAL60 (default)
	NTSC
PAL disc	PAL

NTSC (*D)

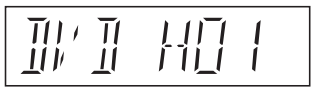
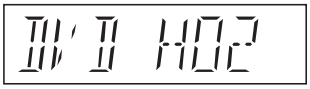
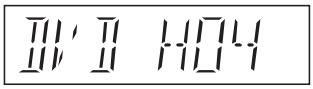
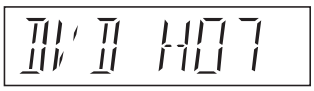
Source	Output
Screen Saver	NTSC
NTSC disc	NTSC
PAL disc	NTSC

Explanation of Display

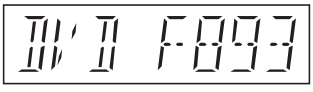
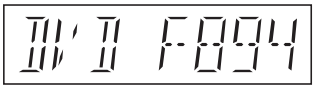
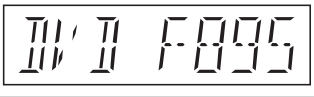
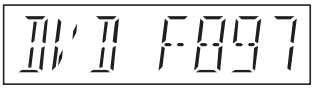


6.6. Self Diagnostic Function-Error Code

6.6.1. Mechanism Error Code Table

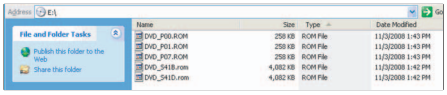
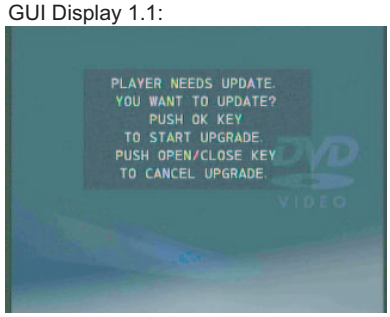
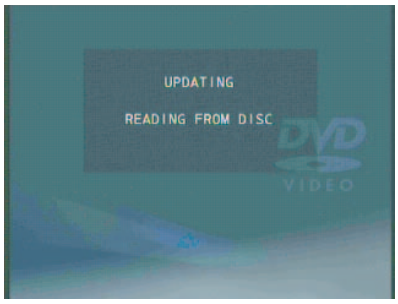
Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
H01	Tray loading error	The tray opening and closing is abnormal. CLOSE and OPEN of the tray cannot be carried out properly. Loading motor error, DV5 LSI IC (IC8001) error.		Press [■STOP] on main unit for next error. (OPEN time: OPEN → CLOSE → OPEN → H01 at CLOSE: CLOSE → OPEN → CLOSE H01)
H02	Spindle servo error	The spindle motor cannot start. Spindle servo error, DSC Disk motor error, CLVS failure.		Press [■STOP] on main unit for next error.
H03	Traverse motor error	The traverse is abnormal. TRV motor error.		Press [■STOP] on main unit for next error.
H04	Tracking servo error	Tracking coil NG (OPU unit abnormal).		Press [■STOP] on main unit for next error.
H05	Seek time out error	It is not possible to access the disc. TOC cannot read. Abnormal disc etc. Pickup abnormal or disk is dirty.		Press [■STOP] on main unit for next error.
H07	Spindle motor drive error	The spindle motor drive voltage is abnormally low.		Press [■STOP] on main unit for next error.
U11	Focus servo error	Focus coil, FE signal error. Disc may be dirty.		Press [■STOP] on main unit for next error. (Unfinalized DVD-R is likely to become U11.)

6.6.2. DVD Module Error Code Table

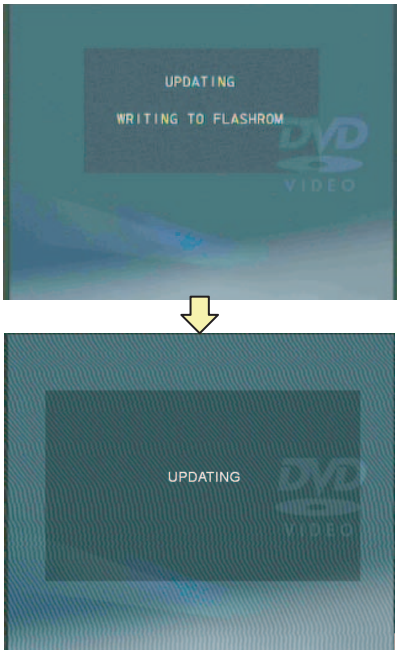
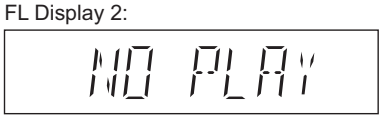
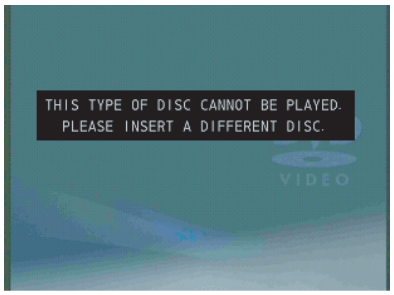
Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
U702	HDMI/DVI I2C communication error	The communication error of I2C when connecting it with HDMI/DVI. For instance, when EDID information to which information on the TV set side has been described cannot be read, it is generated.		Press [■STOP] on main unit for next error.
U703	HDMI/DVI attestation error	When attestation (HDCP) with the TV side fails when connecting it with HDMI/DVI, it is generated.		Press [■STOP] on main unit for next error.
F893	FLASH ROM IC data falsification error	Firmware error, DV5.0 LSI IC (IC8651) error.		Press [■STOP] on main unit for next error.
F894	EEPROM IC abnormality error	When failing in the access to EEPROM IC located in the Main P.C.B. (IC8611).		Press [■STOP] on main unit for next error.
F895	Language area abnormal	Firmware version agreement check for factory preset setting failure prevention.		Press [■STOP] on main unit for next error.
F897	Initialization error	Incomplete initialization after writing of new firmware (Factory preset setting failure prevention)		Press [■STOP] on main unit for next error.

6.7. Firmware Version-Up Information

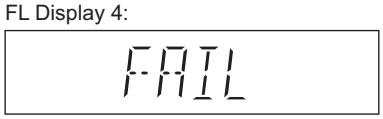
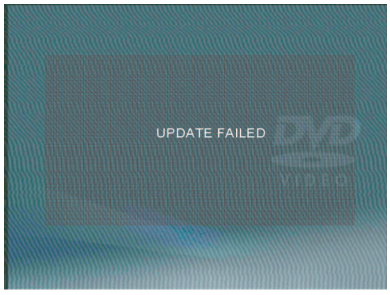
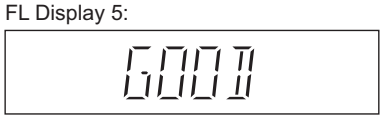
6.7.1. Process Flow (1/3)

Item			FL/ GUI Display	Remarks
Process		Description		
1	Collect ROM Files (Copy files into CD-R/RW)	There are 2 files: ***A) Syscon ROM file type:*** • DVD_S70B.ROM (support English and non-Chinese) • DVD_S70C.ROM (support English and Simplified Chinese) • DVD_S70D.ROM (support English and Traditional Chinese) ***B) Opecon ROM file type:*** • DVD_P09.ROM	Display 1: 	User can put both files into the same root directory. DVD MODEL will choose the right ROM files to update its firmware.
2	Load disc into unit (To update rate)	**Load the disc into the set (To be updated).** • Press [OK] in remote controller to start updating proccess after the following signal appear: ➡ *FL Display 1.1:* "PLAY" . ➡ *GUI Display 1.1:* PLAYER NEED UPDATE. YOU WANT TO UPDATE? PUSH OK KEY TO STAY UPGRADE. PUSH OPEN/CLOSE KEY TO CANCEL UPGRADE. **(For Syscon):** ➡ *GUI Display 1.3.1:* UPDATING READING FROM DISC	FL Display 1.1:  GUI Display 1.1:  GUI Display 1.3.1:  	All panel keys and remote controller keys, including [POWER] key, are invalid during CD Update. **Caution:** Make sure the powersupply during CD update. If the power supply cable is unplugged during update stage, CD update will fail. The DVD model can't work, and can't be recovered by CD update again.

6.7.2. Process Flow (2/3)

Item			FL/ GUI Display	Remarks
Process		Description		
		➡ *GUI Display 1.3.2:* UPDATING WRITING TO FLASHROM	GUI Display 1.3.2:  	
2-1	Check Correct ROM file type	**ROM files doesn't fit to the product type.** • If the ROM files doesn't fit for the product type, then CD update "STOP" and display as below: ➡ *FL Display 2:* "NO PLAY" . ➡ *GUI Display 2 :* THIS TYPE OF DISC CANNOT BE PLAYER. PLEASE INSERT A DIFFERENT DISC.	FL Display 2:  GUI Display 2:  	Update stop (Wrong ROM Type)
2-2	Check ROM version type	**Update not Necessary** • If the ROM files has the same (latest) version or an older version than the product: ➡ *FL Display 3:* "NO NEED" . ➡ *GUI Display 3:* THIS PLAYER DOES NOT REQUIRE THE UPDATE	FL Display 3:  GUI Display 3:  	Update stop (product has the latest firmware)

6.7.3. Process Flow (3/3)

Item			FL/ GUI Display	Remarks
Process		Description		
3	Update software (Opecon)	**1. Update Failed** • If Opecon software update fail: ➡ *FL Display 3:* "FAIL" . ➡ *GUI Display 3:*"UPDATE FAIL"	FL Display 4:  GUI Display 4: 	Update stop. The theater set can't work, and can't be recovered by CD update again.
		2. Update Completed • If Opecon software update completes successfully: ➡ *FL Display 3:* "GOOD" . ➡ *GUI Display 3:* COMPLETED PLEASE EJECT THE DISC ➡ Open the tray and take out the CD, the update procedure has been finished successfully. ➡ Power off, then remove AC Cord.	FL Display 5:  GUI Display 5: 	The theater set wll reboot automatically.

7 Troubleshooting Guide

“Contents for this section is not available at time of issue”

8 Disassembly and Assembly Instructions

- **This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of "Main components and P.C.B Locations" as described in this service manual)**
- **Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.**
- **During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.**
- **Avoid touching heatsinks due to its high temperature after prolong use.**
- **Be sure to use proper service tools, equipments or jigs during repair.**
- **Select items from the following indexes when disassembly or replacement are required.**
- Disassembly of Top Cabinet
- Disassembly of Front Panel Unit
- Disassembly of Panel P.C.B. and Music Port P.C.B.
- Disassembly of Bluetooth P.C.B. Ass'y
- Disassembly of USB P.C.B.
- Disassembly of Mic P.C.B.
- Disassembly of Rear Panel
- Disassembly of Main P.C.B. Ass'y
- Disassembly of SMPS Module
- Disassembly of DVD Mechanism Unit
- Disassembly of Backend P.C.B. Ass'y

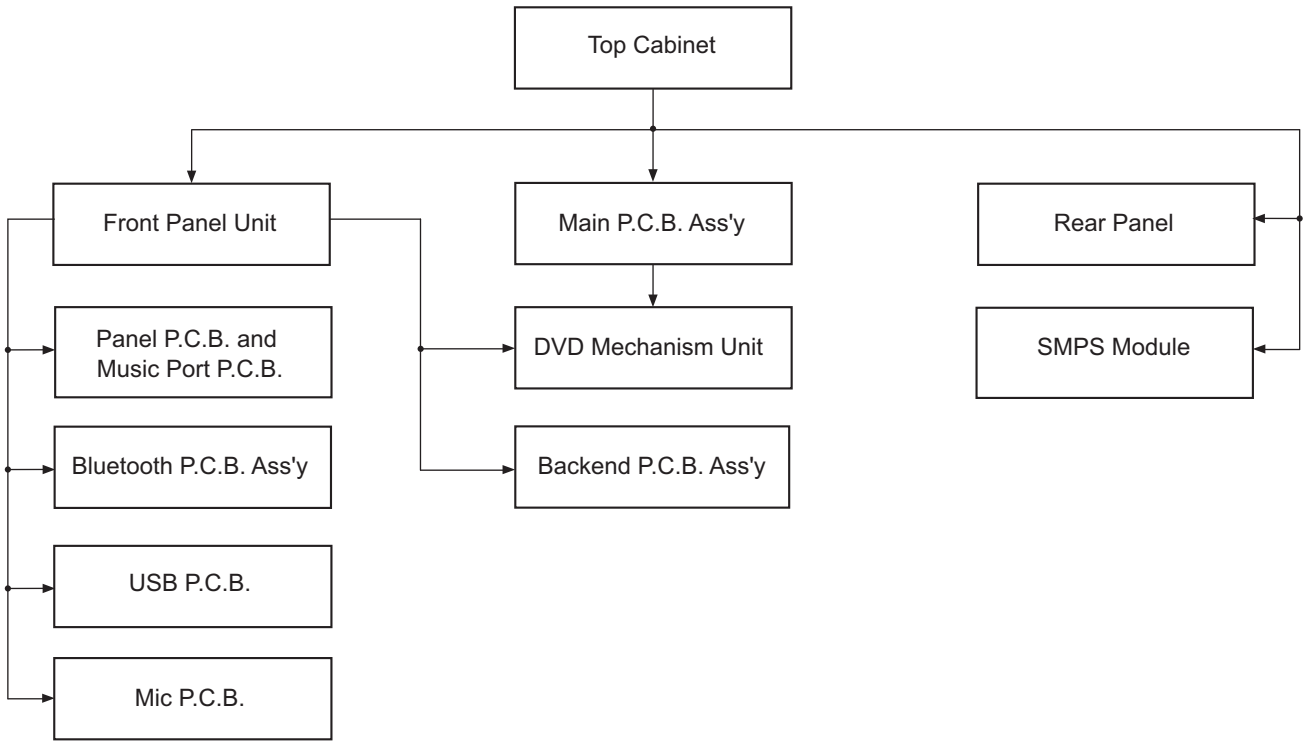
8.1. Type of Screws

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

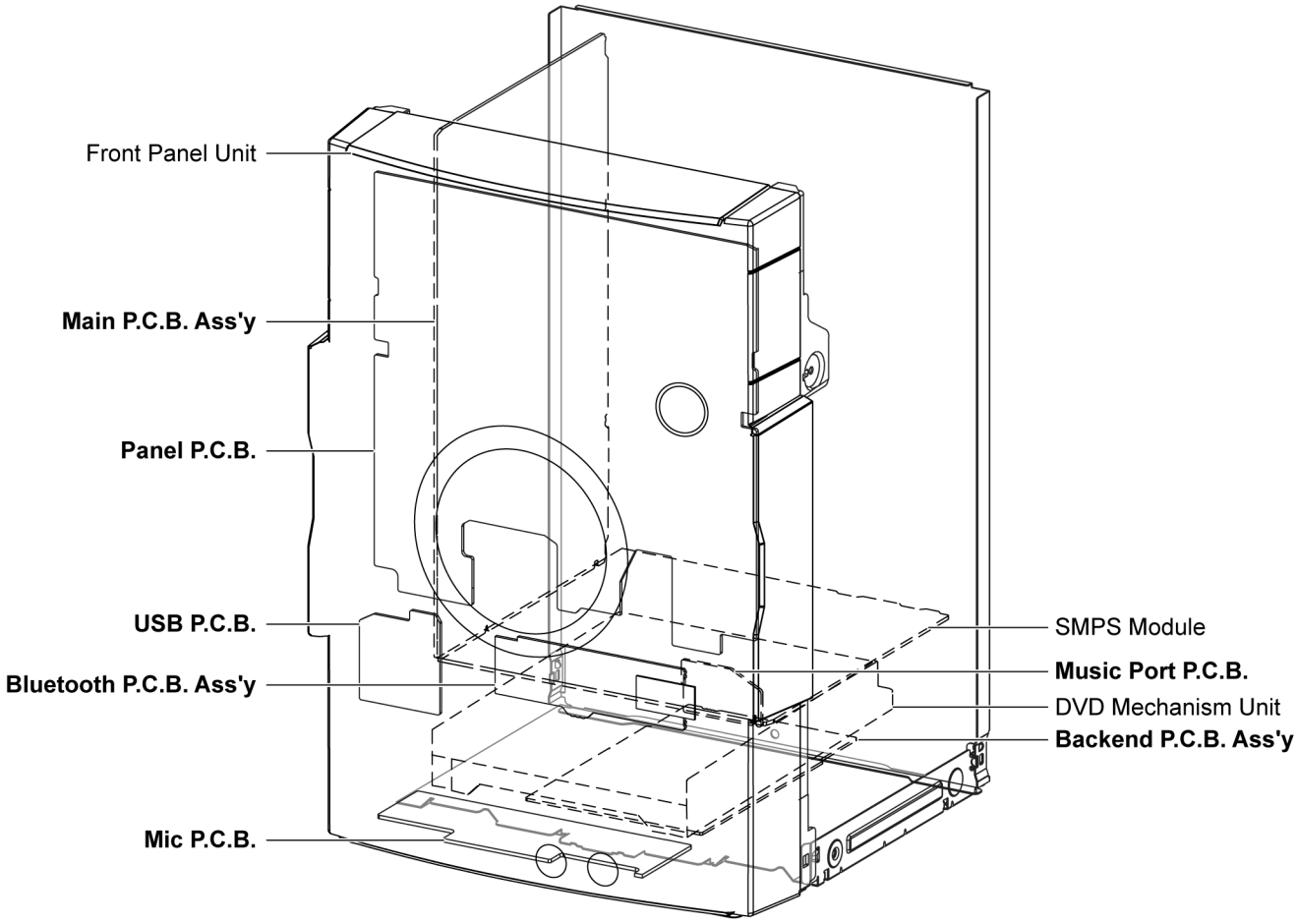
Below shown is part no. of different screw types used:

- (a) :RHD30007-K2J
- (b) :RHD30119-S
- (c) :RHD26046-L
- (d) :RHD26016-1L
- (e) :RHD30111-31
- (f) :RHDX30005-J
- (g) :RHDX031008

8.2. Disassembly Flow Chart

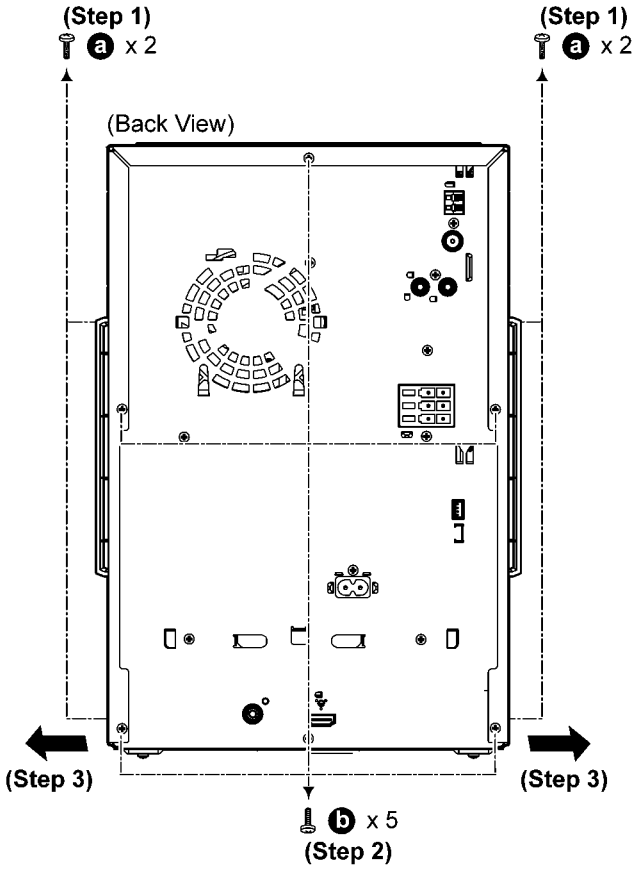


8.3. Main Components and P.C.B. Locations

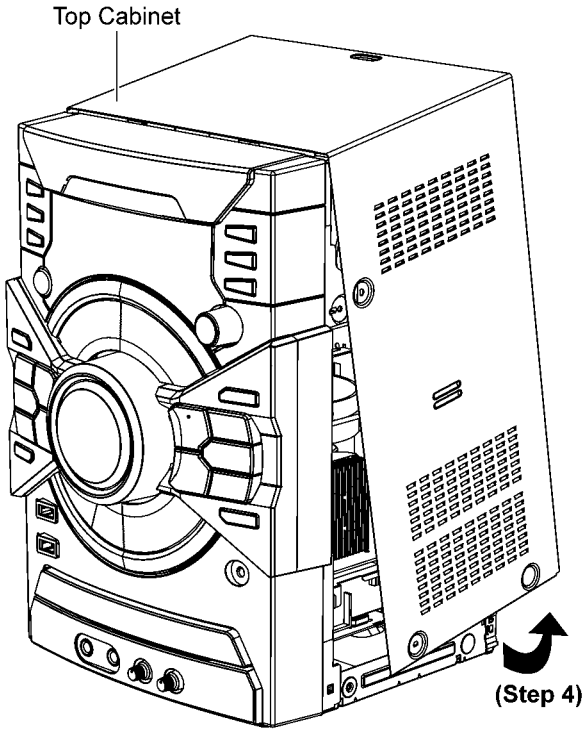


8.4. Disassembly of Top Cabinet

Step 1 Remove 4 screws.
Step 2 Remove 5 screws.
Step 3 Release both sides of Top Cabinet outwards as arrow shown.



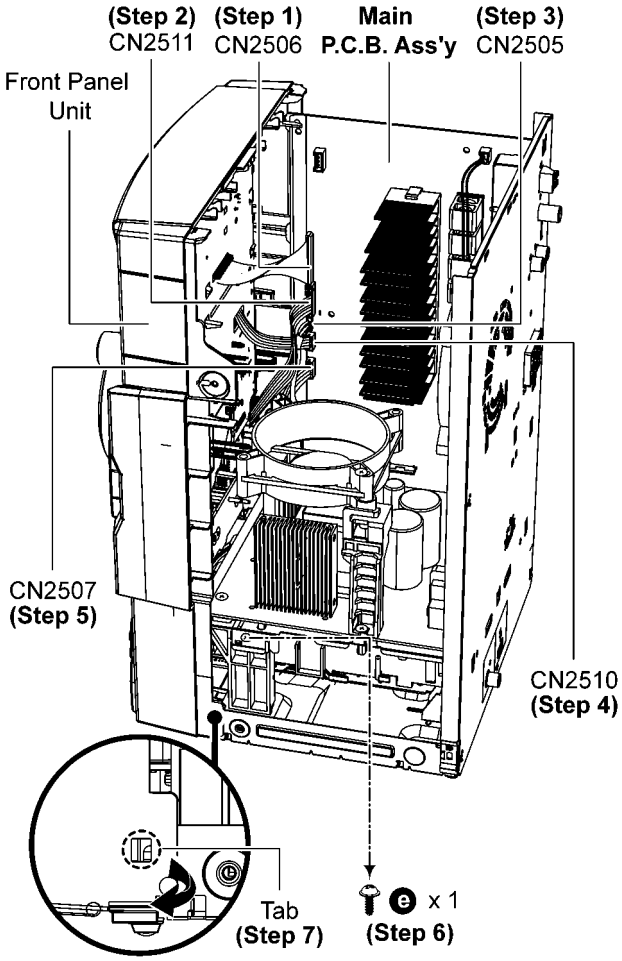
Step 4 Slightly lift up to remove Top Cabinet.



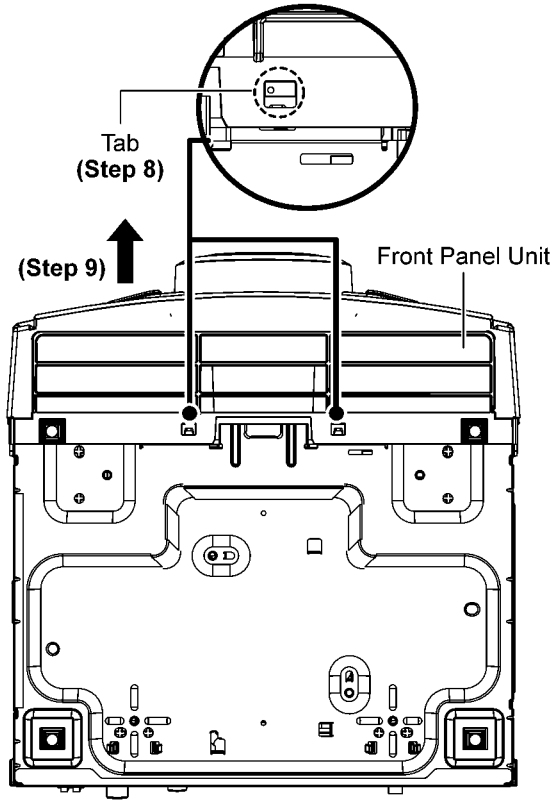
8.5. Disassembly of Front Panel Unit

- **Refer to "Disassembly of Top Cabinet".**

Step 1 Detach 30P FFC at the connector (CN2506) on Main P.C.B. Ass'y.
Step 2 Detach 8P Cable at the connector (CN2511) on Main P.C.B. Ass'y.
Step 3 Detach 5P Cable at the connector (CN2505) on Main P.C.B. Ass'y.
Step 4 Detach 4P Cable at the connector (CN2510) on Main P.C.B. Ass'y.
Step 5 Detach 5P Cable at the connector (CN2507) on Main P.C.B. Ass'y.
Step 6 Remove 1 screw.
Step 7 Release tabs on both sides of Front Panel Unit.



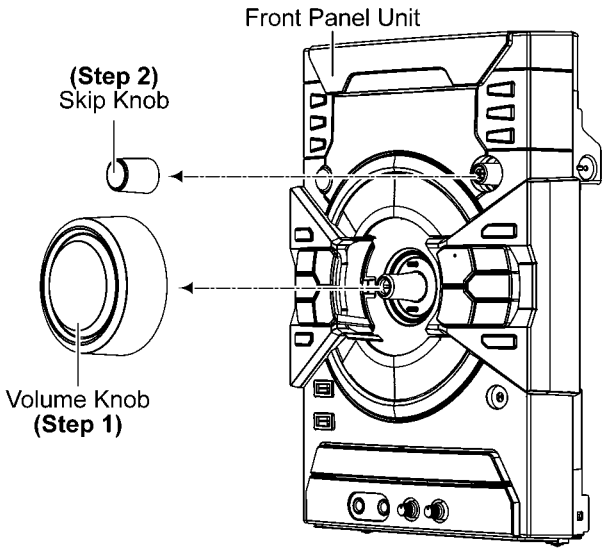
Step 8 Release tabs at bottom of unit.
Step 9 Detach to remove Front Panel Unit



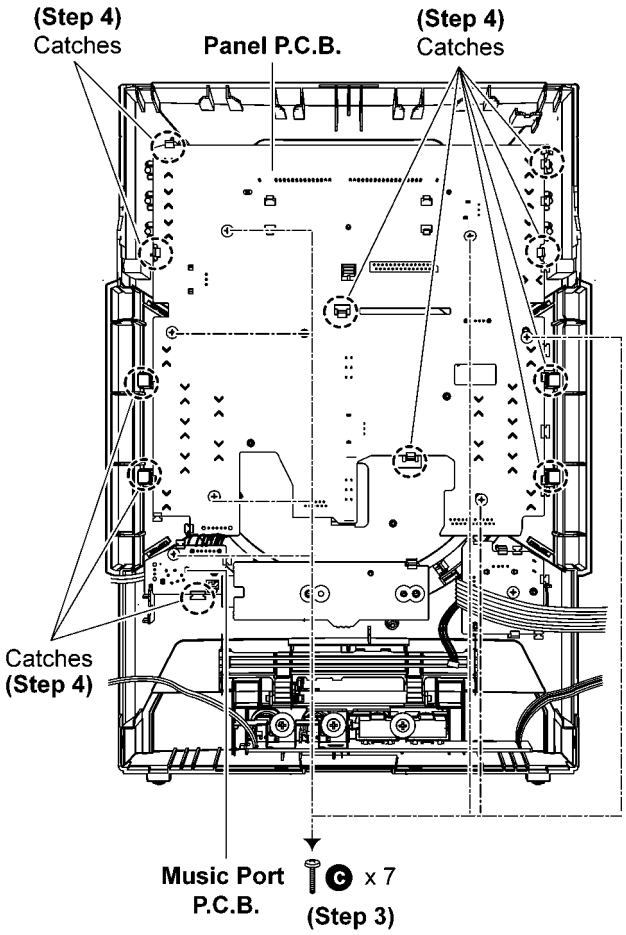
8.6. Disassembly of Panel P.C.B. and Music Port P.C.B.

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

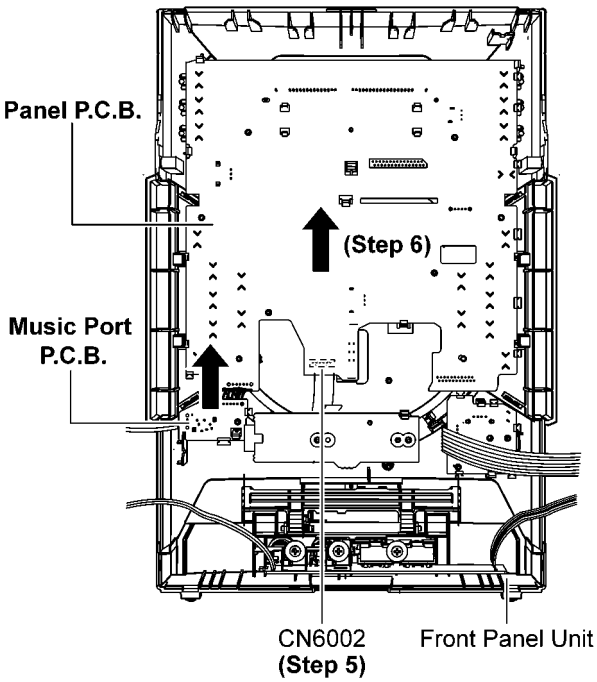
Step 1 Remove Volume Knob.
Step 2 Remove Skip Knob.



Step 3 Remove 7 screws.
Step 4 Release catches.



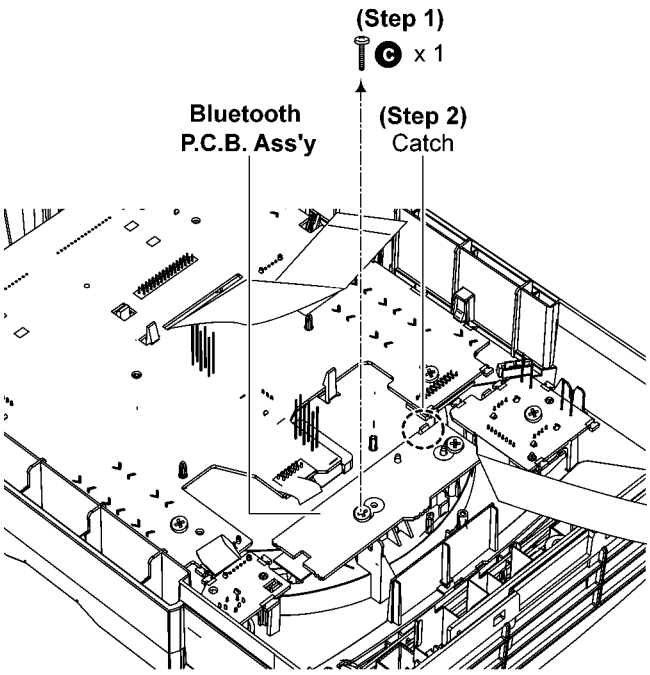
Step 5 Detach 12P FFC at the connector (CN6002) on Panel P.C.B..
Step 6 Remove Panel P.C.B. and Music Port P.C.B..



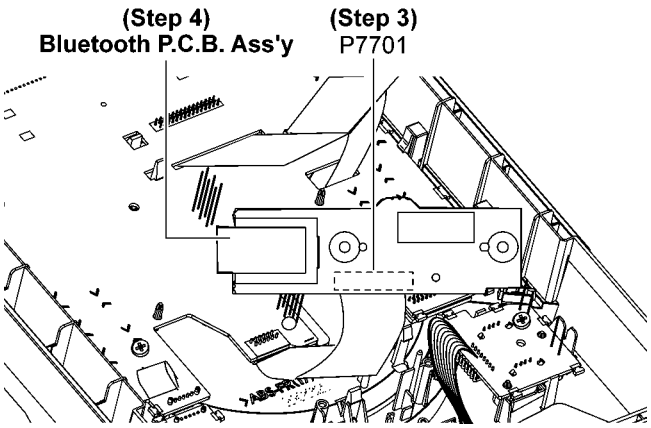
8.7. Disassembly of Bluetooth P.C.B. Ass'y

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

Step 1 Remove 1 screw.
Step 2 Release catch.



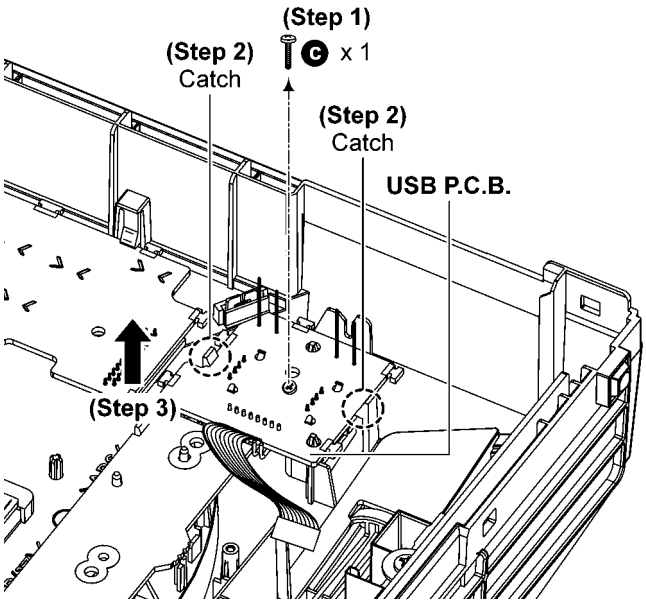
Step 3 Detach 12P FFC at the connector (P7701) on Bluetooth P.C.B. Ass'y.
Step 4 Remove Bluetooth P.C.B. Ass'y.



8.8. Disassembly of USB P.C.B.

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

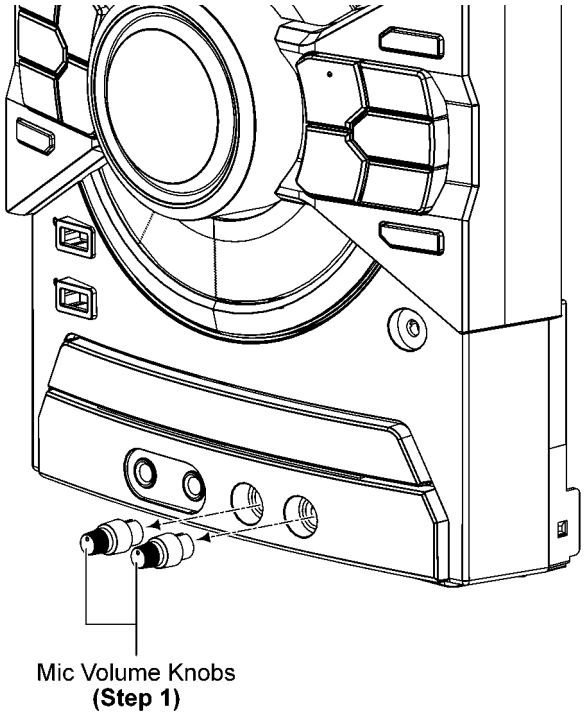
Step 1 Remove 1 screw.
Step 2 Release catches.
Step 3 Remove USB P.C.B..



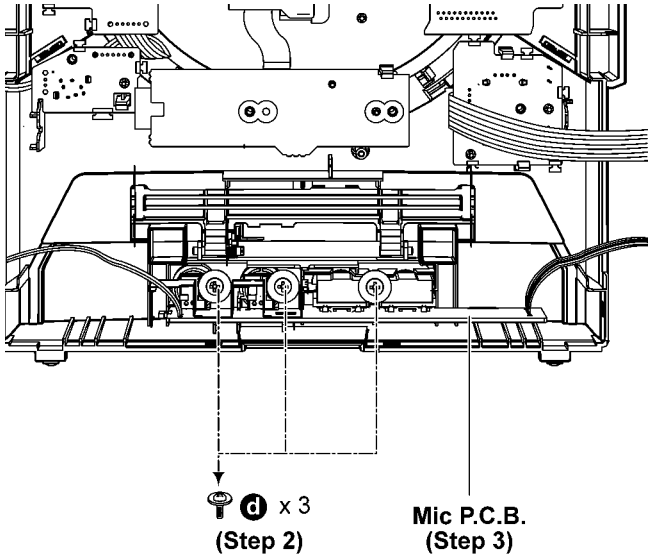
8.9. Disassembly of Mic P.C.B.

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

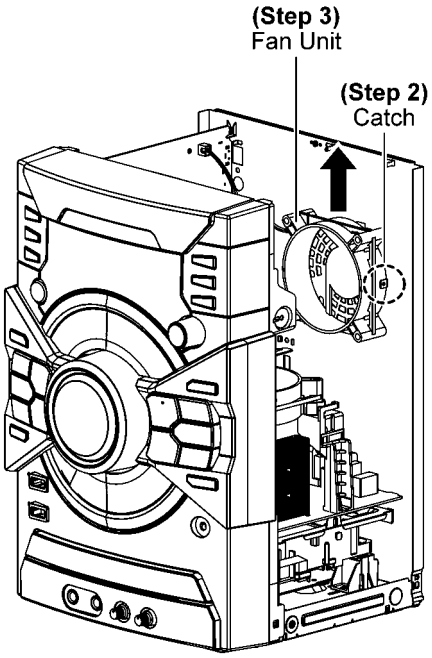
Step 1 Remove Mic Volume Knobs.



Step 2 Remove 3 screws.
Step 3 Remove Mic P.C.B..



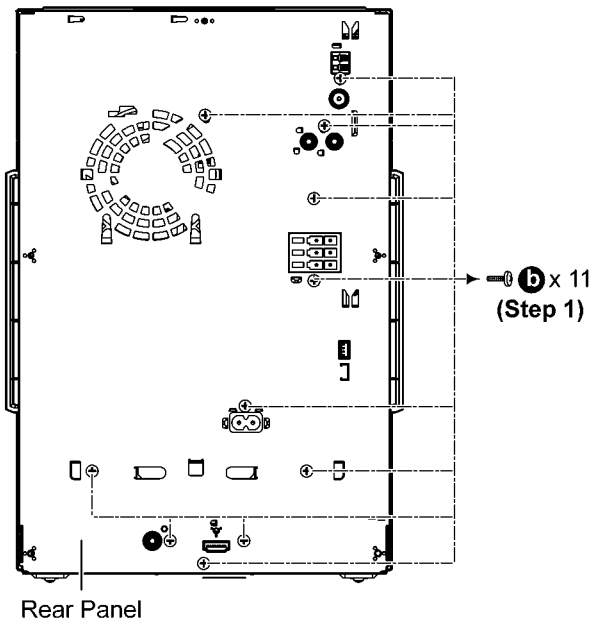
Step 2 Release catch.
Step 3 Remove fan unit.



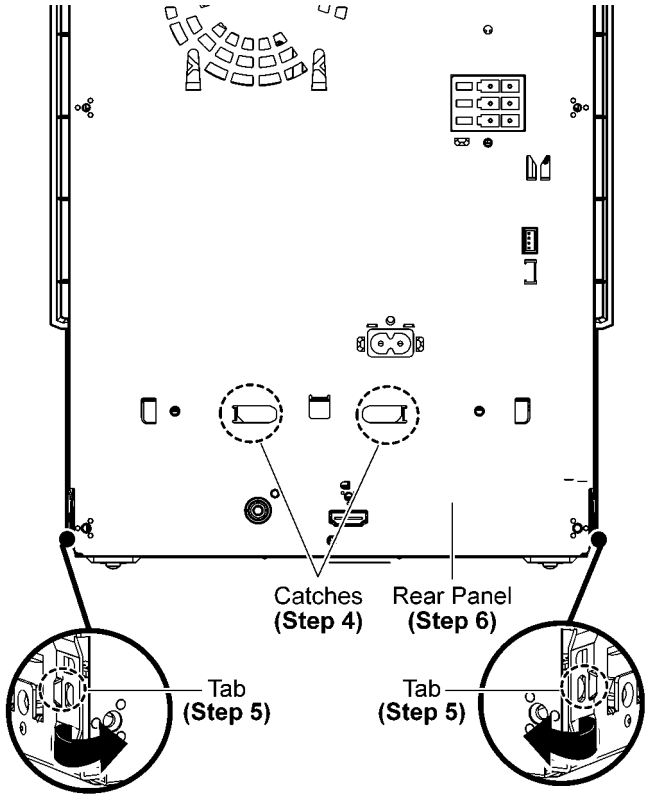
8.10. Disassembly of Rear Panel.

- **Refer to "Disassembly of Top Cabinet".**

Step 1 Remove 11 screws.



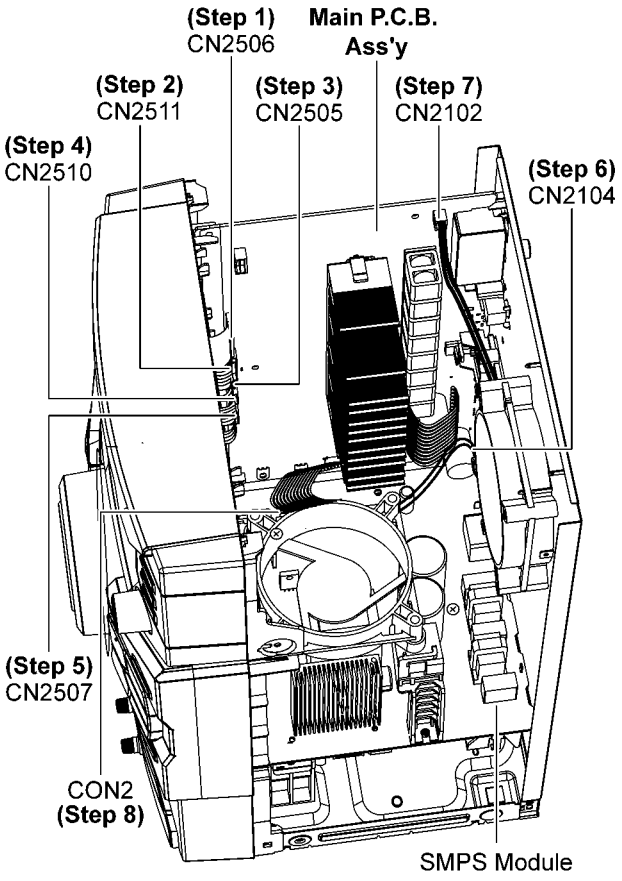
Step 4 Lift up to remove Inner Chassis Unit.
Step 5 Release tabs.
Step 6 Release to remove Rear Panel.



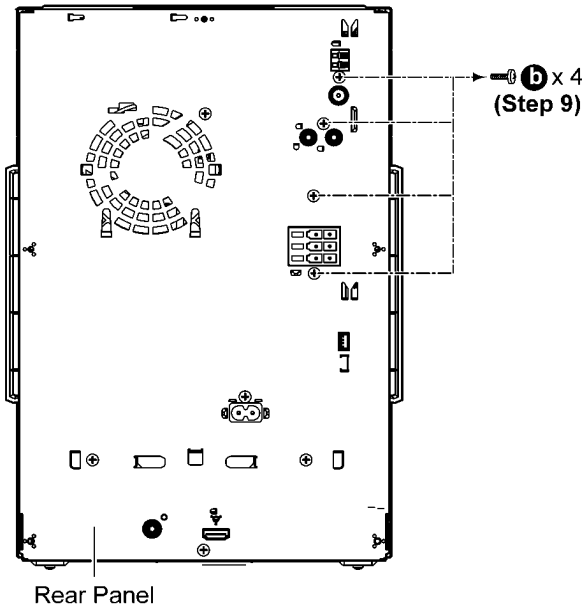
8.11. Disassembly of Main P.C.B. Ass'y

- **Refer to "Disassembly of Top Cabinet".**

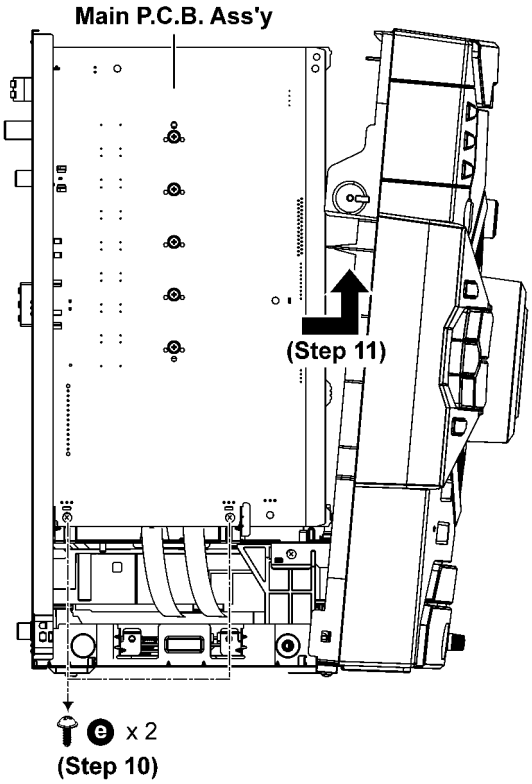
Step 1 Detach 30P FFC at the connector (CN2506) on Main P.C.B. Ass'y.
Step 2 Detach 8P Cable at the connector (CN2511) on Main P.C.B. Ass'y.
Step 3 Detach 5P Cable at the connector (CN2505) on Main P.C.B. Ass'y.
Step 4 Detach 4P Cable at the connector (CN2510) on Main P.C.B. Ass'y.
Step 5 Detach 5P FFC at the connector (CN2507) on Main P.C.B. Ass'y.
Step 6 Detach 2P Wire at the connector (CN2104) on Main P.C.B. Ass'y.
Step 7 Detach 2P Wire at the connector (CN2102) on Main P.C.B. Ass'y.
Step 8 Detach 13P Cable at the connector (CON2) on SMPS Module.



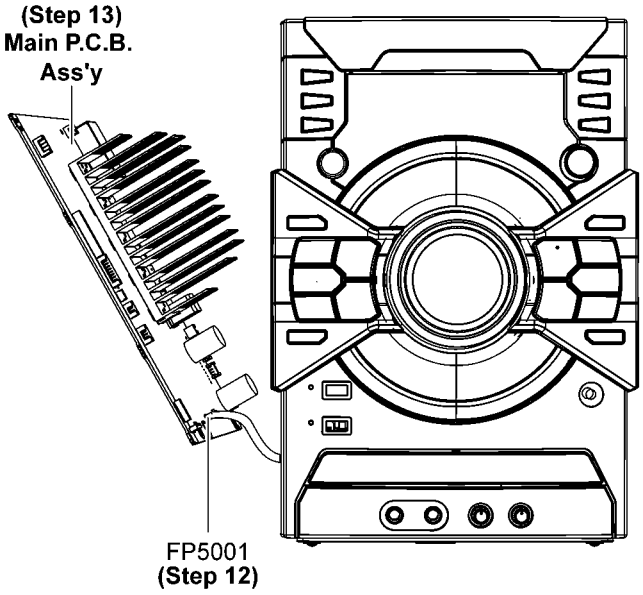
Step 9 Remove 4 screws.



Step 10 Remove 2 screws.
Step 11 Detach Main P.C.B. Ass'y.



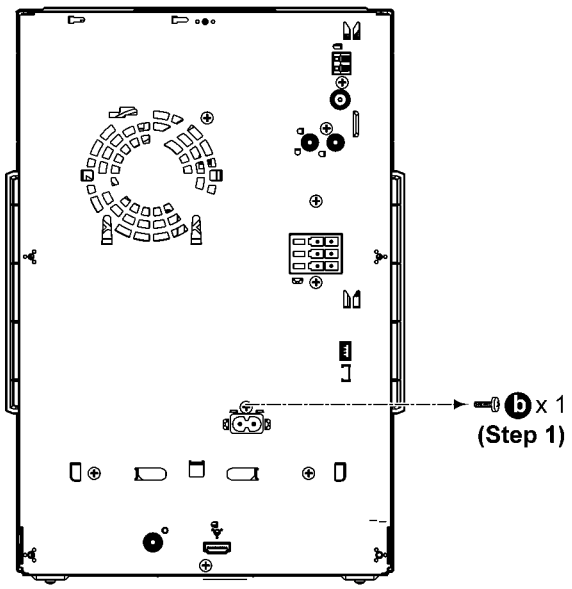
Step 12 Detach 30P FFC at the connector (FP5001) on Main P.C.B. Ass'y.
Step 13 Remove Main P.C.B. Ass'y.



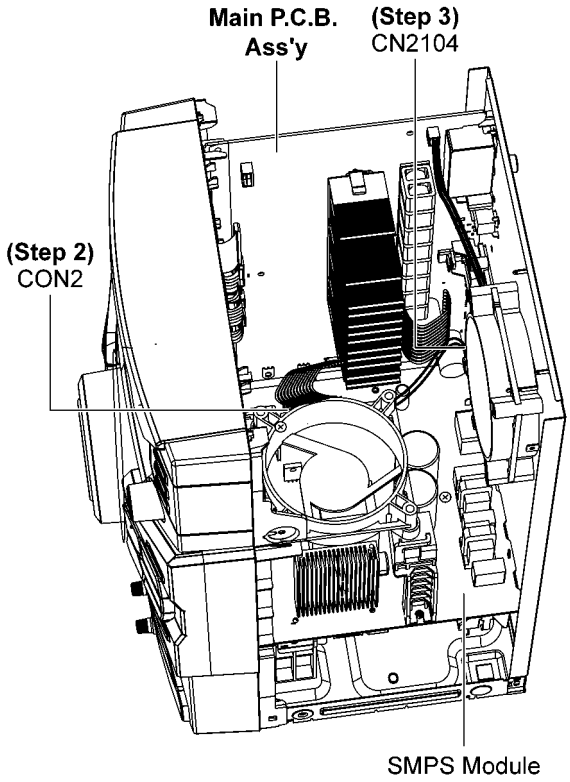
8.12. Disassembly of SMPS Module

- **Refer to "Disassembly of Top Cabinet".**

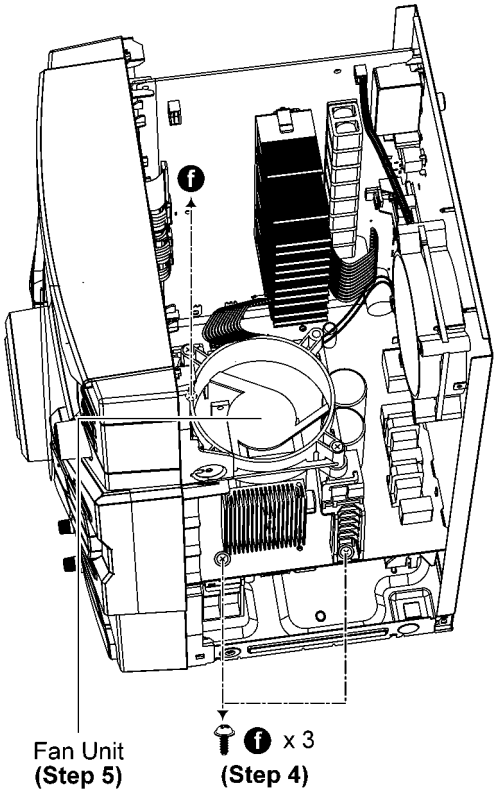
Step 1 Remove 1 screw.



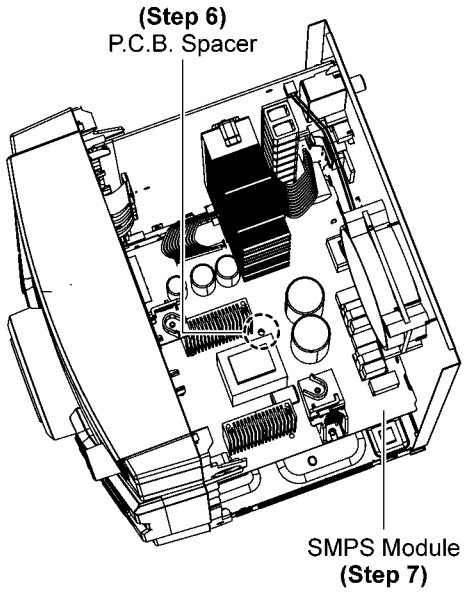
Step 2 Detach 13P Cable at the connector (CON2) on SMPS Module.
Step 3 Detach 2P Wire at the connector (CN2104) on Main P.C.B. Ass'y.



Step 4 Remove 3 screws.
Step 5 Remove fan unit.



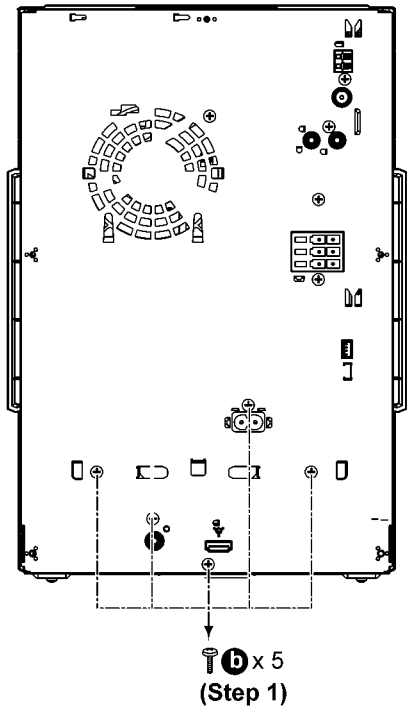
Step 6 Release P.C.B. Spacer.
Step 7 Remove SMPS Module.



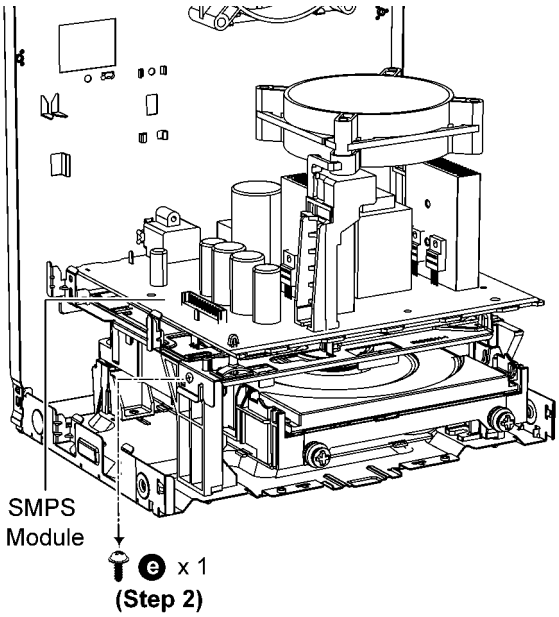
8.13. Disassembly of DVD Mechanism Unit

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Main P.C.B. Ass'y".**

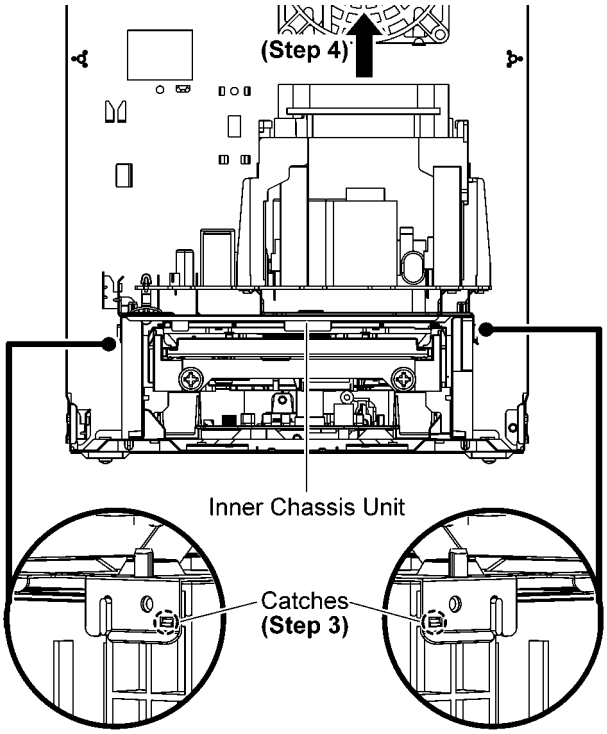
Step 1 Remove 5 screws.



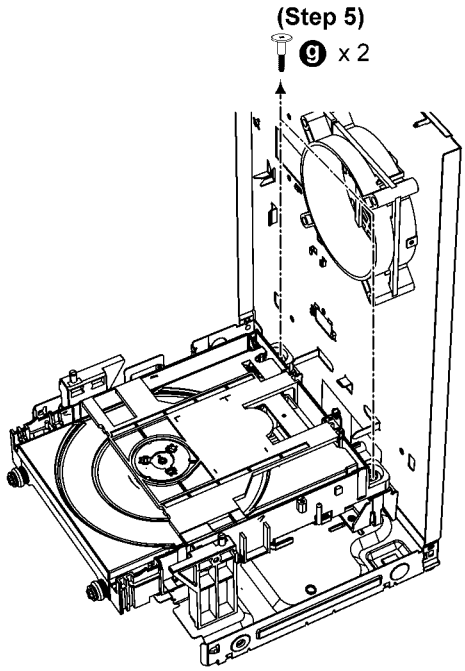
Step 2 Remove 1 screw.



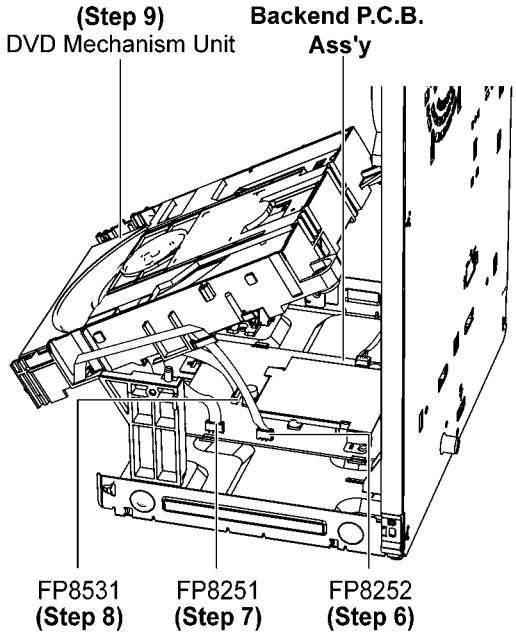
Step 3 Release catches.
Step 4 Lift up to remove Inner Chassis Unit.



Step 5 Remove 2 screws.



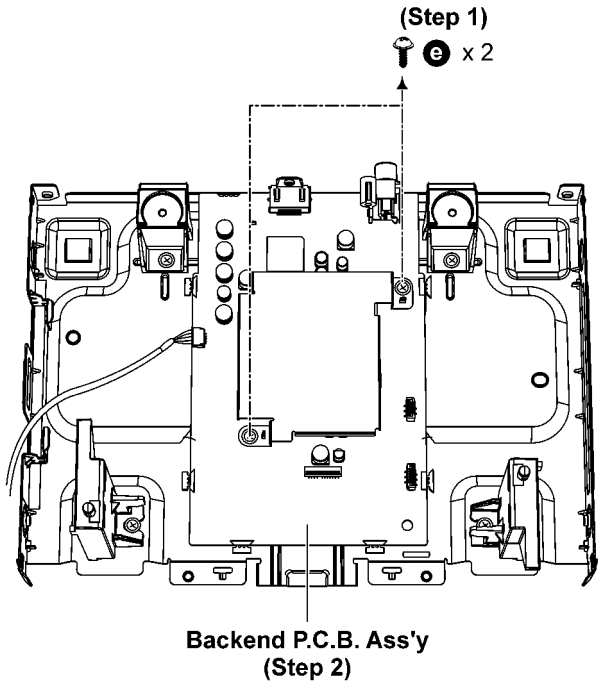
Step 6 Detach 5P FFC at the connector (FP8252) on Backend P.C.B. Ass'y.
Step 7 Detach 6P FFC at the connector (FP8251) on Backend P.C.B. Ass'y.
Step 8 Detach 24P FFC at the connector (FP8531) on Backend P.C.B. Ass'y.
Step 9 Remove DVD Mechanism Unit.



8.14. Disassembly of Backend P.C.B. Ass'y

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Main P.C.B. Ass'y".**
- **Refer to "Disassembly of DVD Mechanism Unit".**

Step 1 Remove 2 screws.
Step 2 Remove Backend P.C.B. Ass'y.

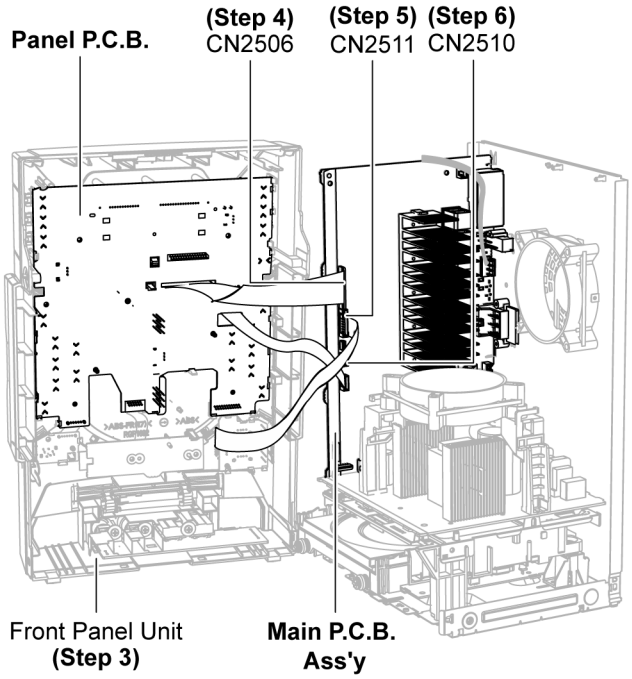


9 Service Position

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

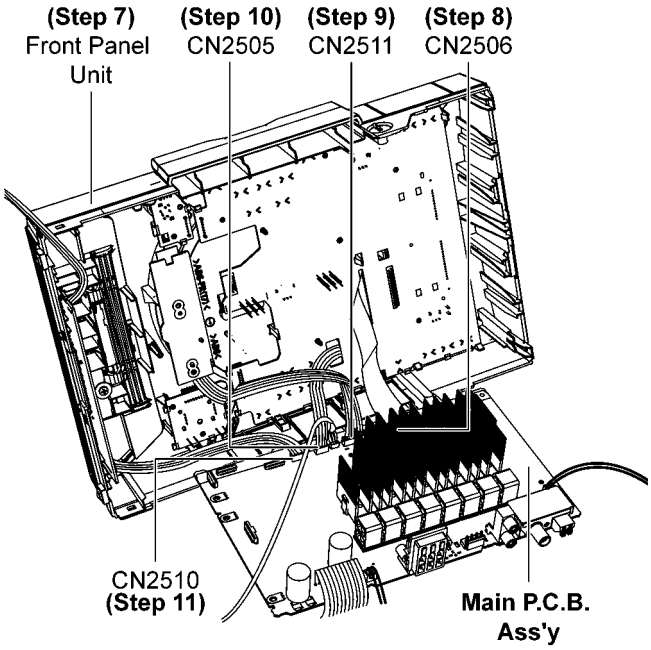
9.1. Checking of Panel P.C.B. and Main P.C.B. Ass'y

Step 1 Remove Top Cabinet.
Step 2 Detach Front Panel Unit.
Step 3 Positioned the Front Panel Unit as shown.
Step 4 Attach 30P FFC at the connector (CN2506) on Main P.C.B. Ass'y.
Step 5 Attach 8P Cable at the connector (CN2511) on Main P.C.B. Ass'y.
Step 6 Attach 4P Cable at the connector (CN2510) on Main P.C.B. Ass'y.
Step 7 Check Panel P.C.B. and Main P.C.B. Ass'y as diagram shown.

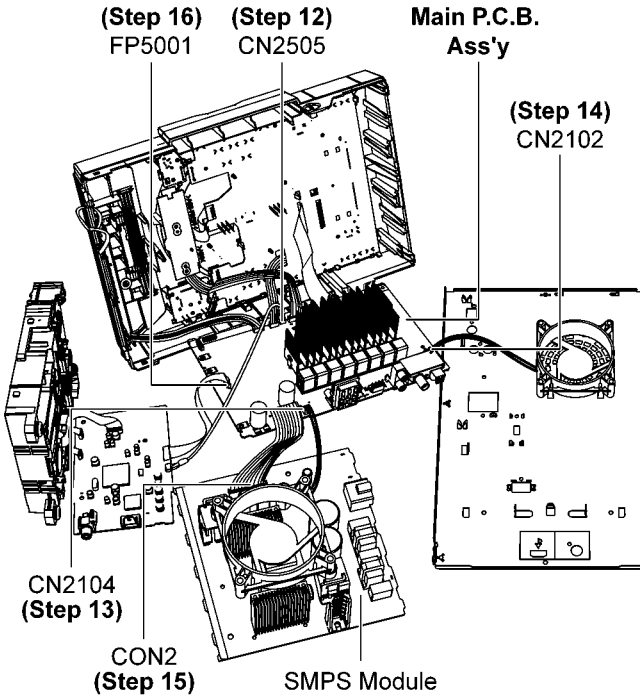


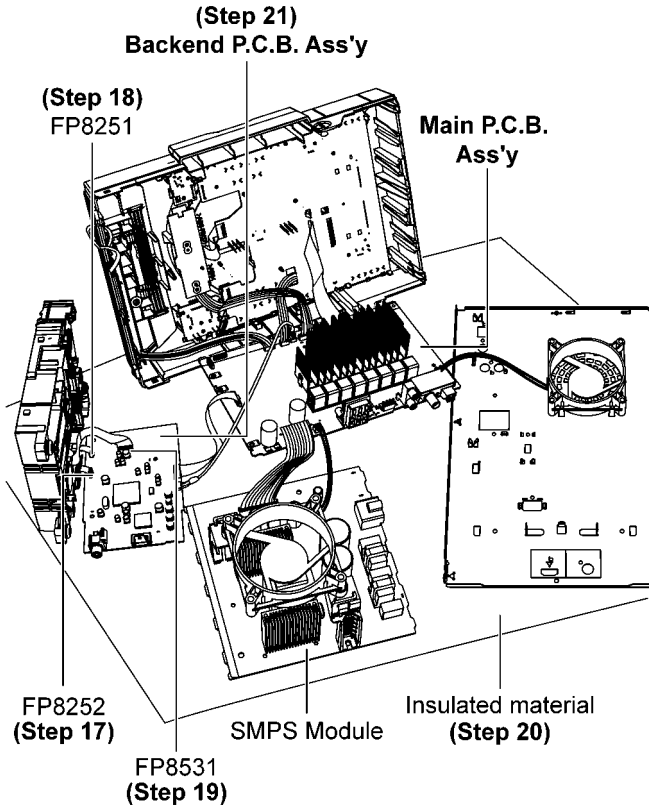
9.2. Checking of Backend P.C.B. Ass'y

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Remove Main P.C.B. Ass'y.
Step 4 Remove SMPS Module.
Step 5 Remove DVD Mechanism Unit.
Step 6 Remove Backend P.C.B. Ass'y.
Step 7 Positioned the Front Panel Unit as shown.
Step 8 Attach 30P FFC at the connector (CN2506) on Main P.C.B. Ass'y.
Step 9 Attach 8P Cable at the connector (CN2511) on Main P.C.B. Ass'y.
Step 10 Attach 5P Cable at the connector (CN2505) on Main P.C.B. Ass'y.
Step 11 Attach 4P Cable at the connector (CN2510) on Main P.C.B. Ass'y.



Step 12 Attach 5P Cable at the connector (CN2505) on Main P.C.B. Ass'y.
Step 13 Attach 2P Wire at the connector (CN2104) on Main P.C.B. Ass'y.
Step 14 Attach 2P Wire at the connector (CN2102) on Main P.C.B. Ass'y.
Step 15 Attach 13P Cable at the connector (CON2) on SMPS Module.
Step 16 Attach 30P FFC at the connector (FP5001) on Main P.C.B. Ass'y.
Step 17 Attach 5P FFC at the connector (FP8252) on Backend P.C.B. Ass'y.
Step 18 Attach 6P FFC at the connector (FP8251) on Backend P.C.B. Ass'y.
Step 19 Attach 24P FFC at the connector (FP8531) on Backend P.C.B. Ass'y.
Step 20 Place the Main P.C.B. Ass'y, SMPS Module and Backend P.C.B. Ass'y on the insulated material.
Step 21 Check Backend P.C.B. Ass'y as diagram shown.

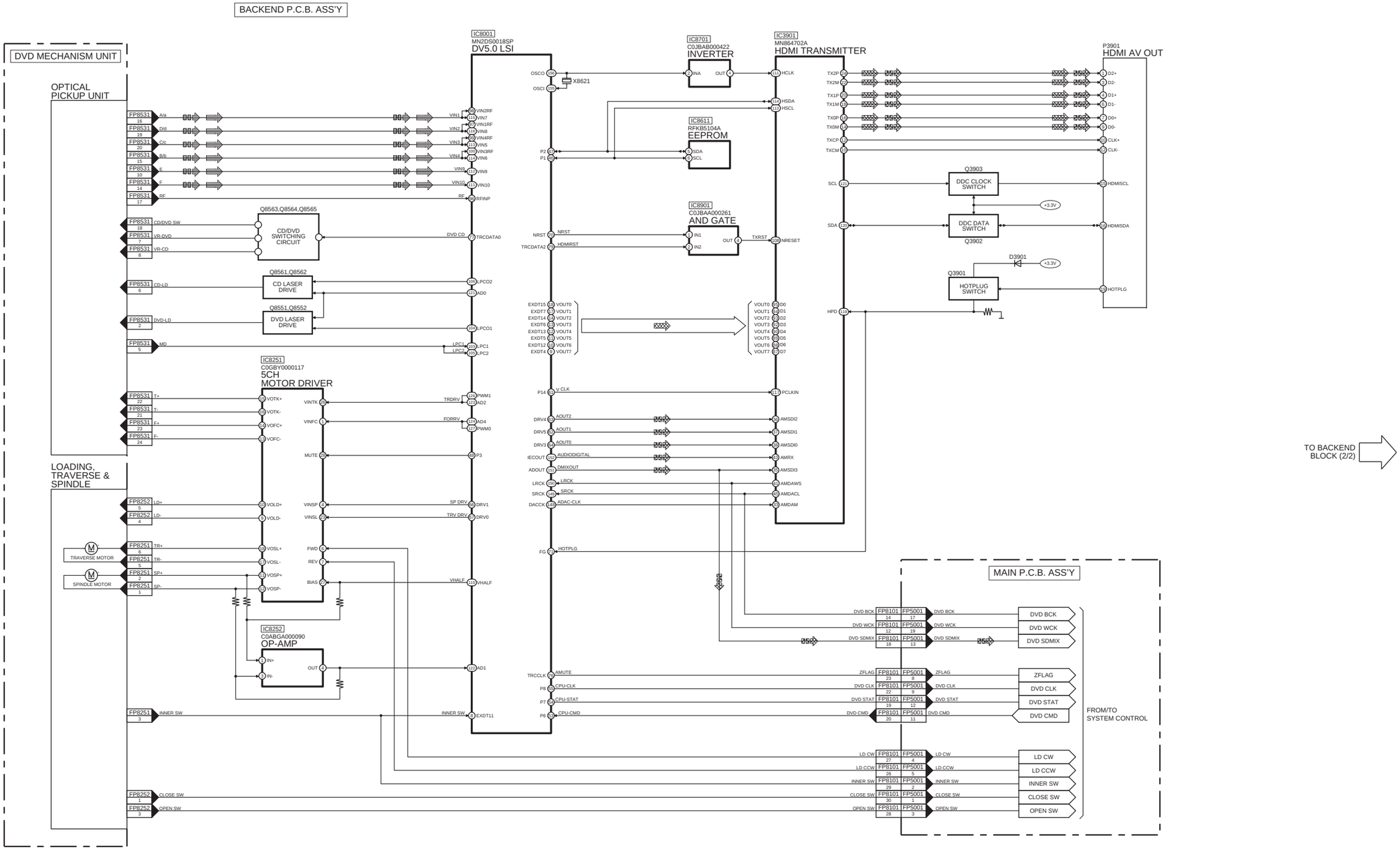




10 Block Diagram

10.1. Backend

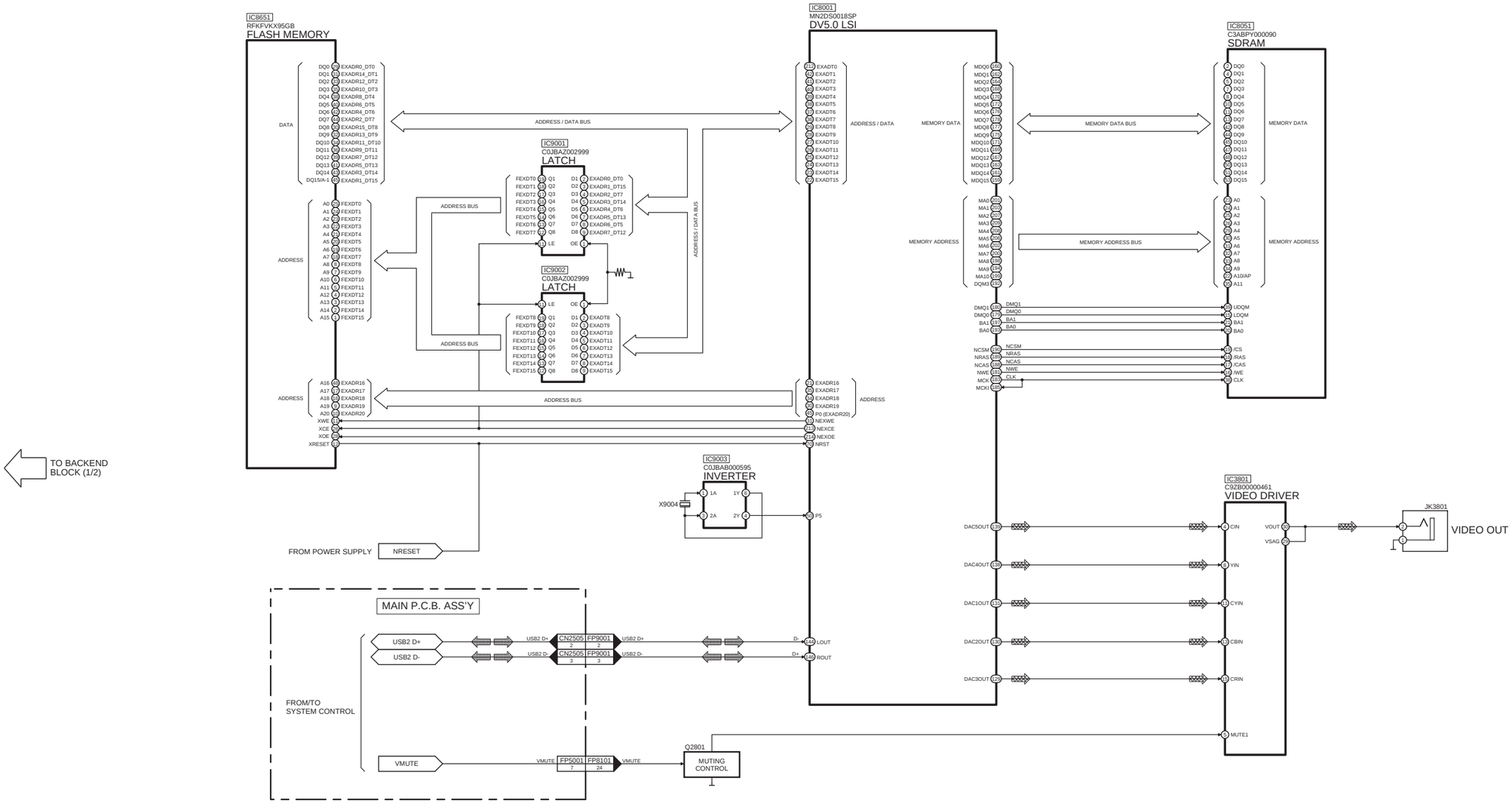
: CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE



SA-VKX95EE/GA/GS BACKEND (1/2) BLOCK DIAGRAM

: CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE

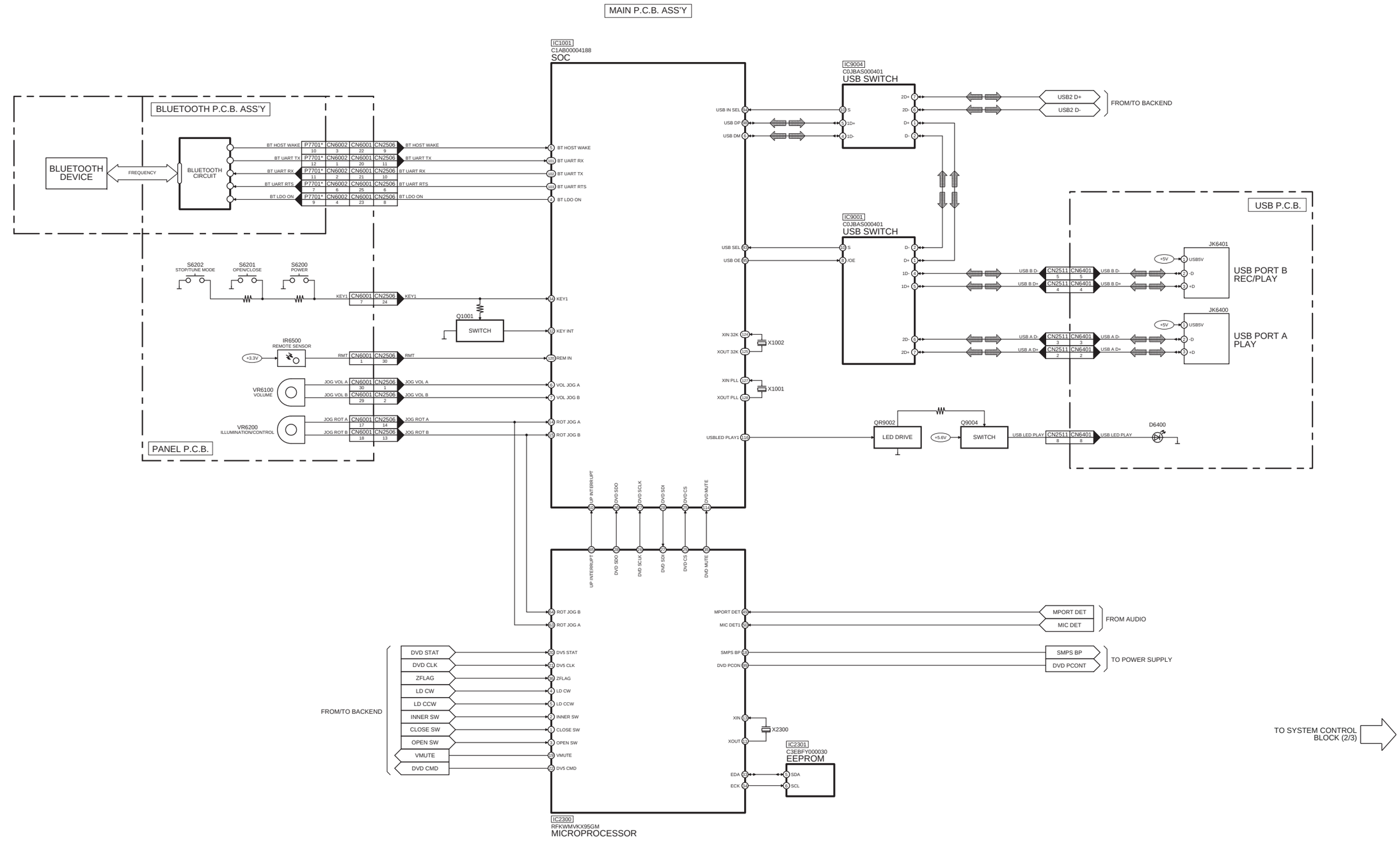
BACKEND P.C.B. ASS'Y



SA-VKX95EE/GA/GS BACKEND (2/2) BLOCK DIAGRAM

10.2. System Control

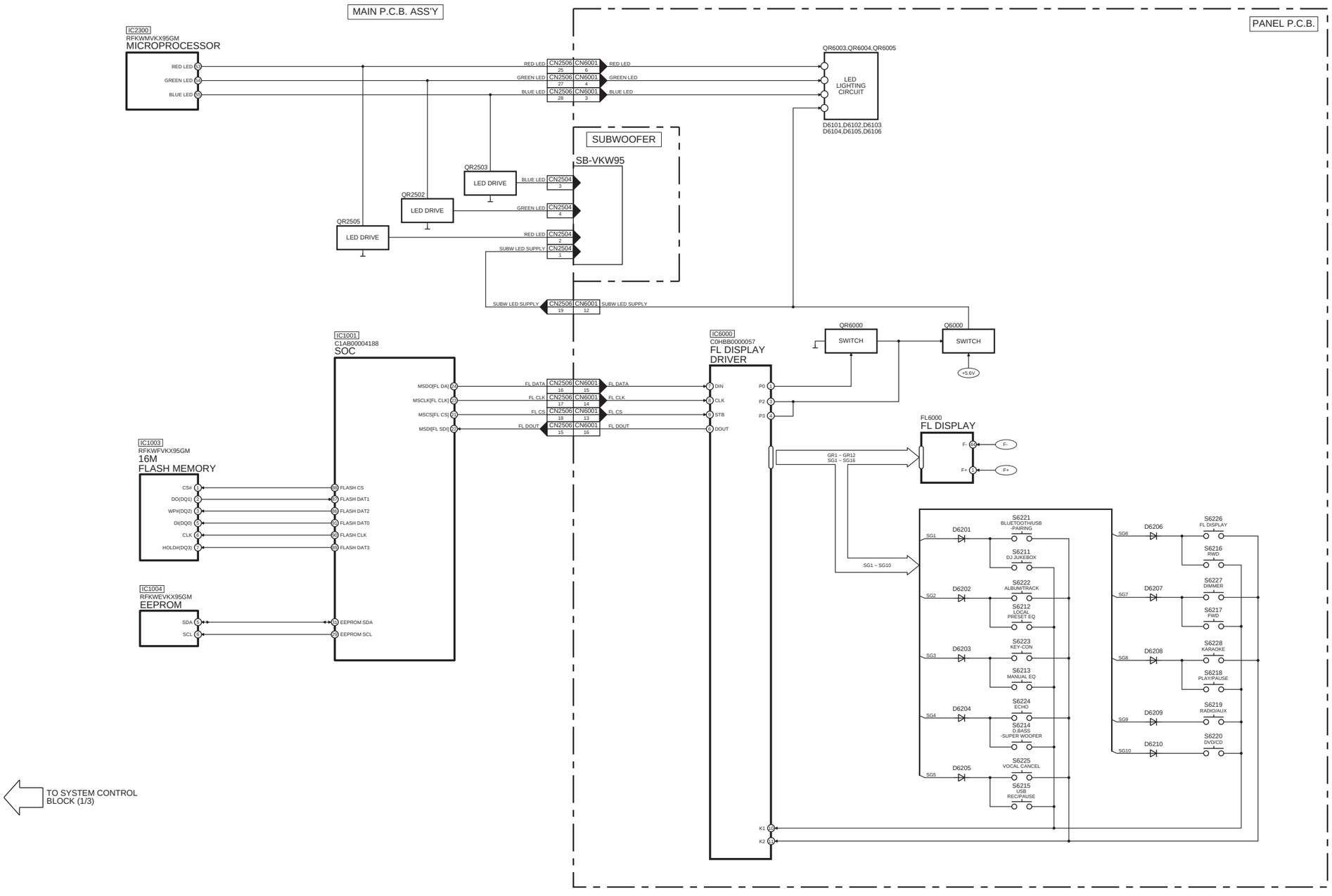
: AUX/MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

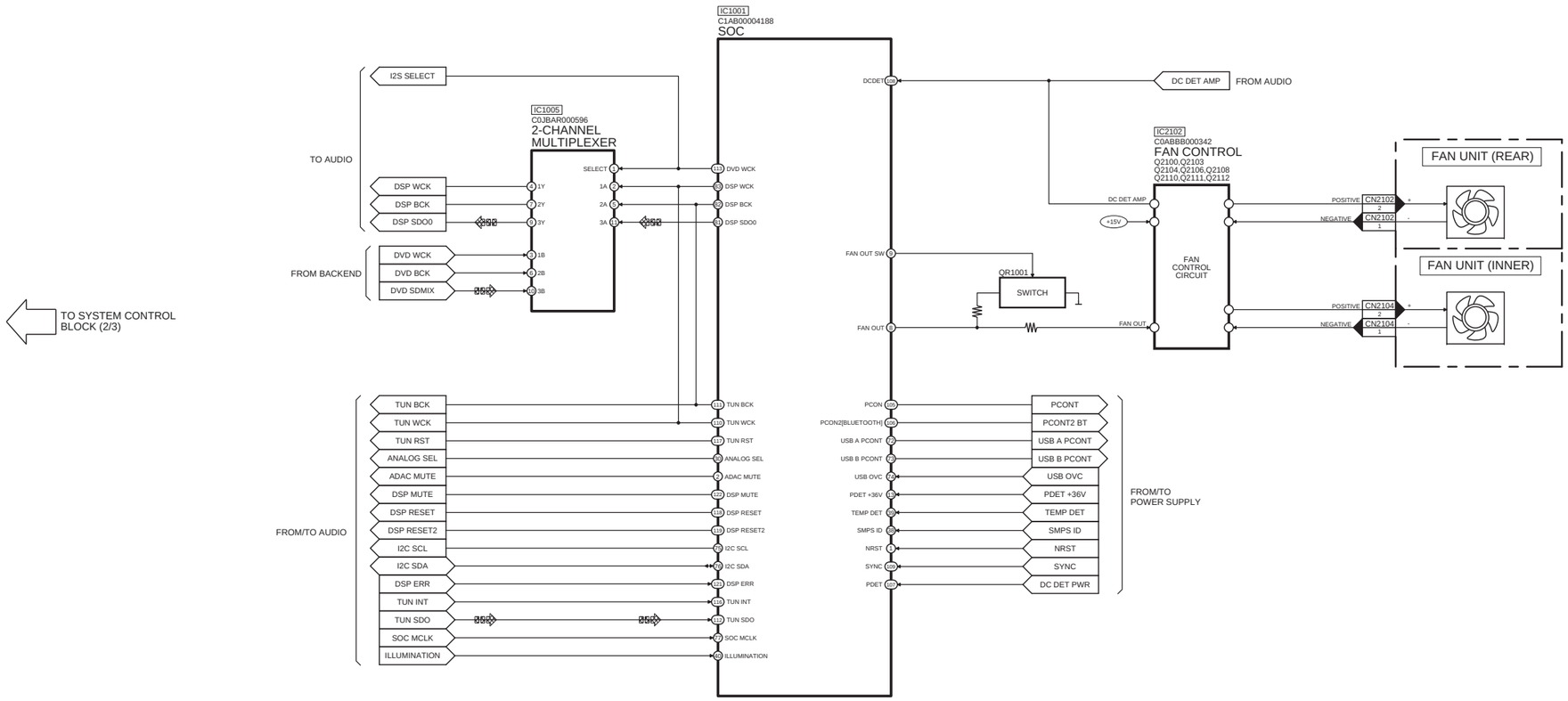
SA-VKX95EE/GA/GS SYSTEM CONTROL (1/3) BLOCK DIAGRAM

: AUX/MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



SA-VKX95EE/GA/GS SYSTEM CONTROL (2/3) BLOCK DIAGRAM

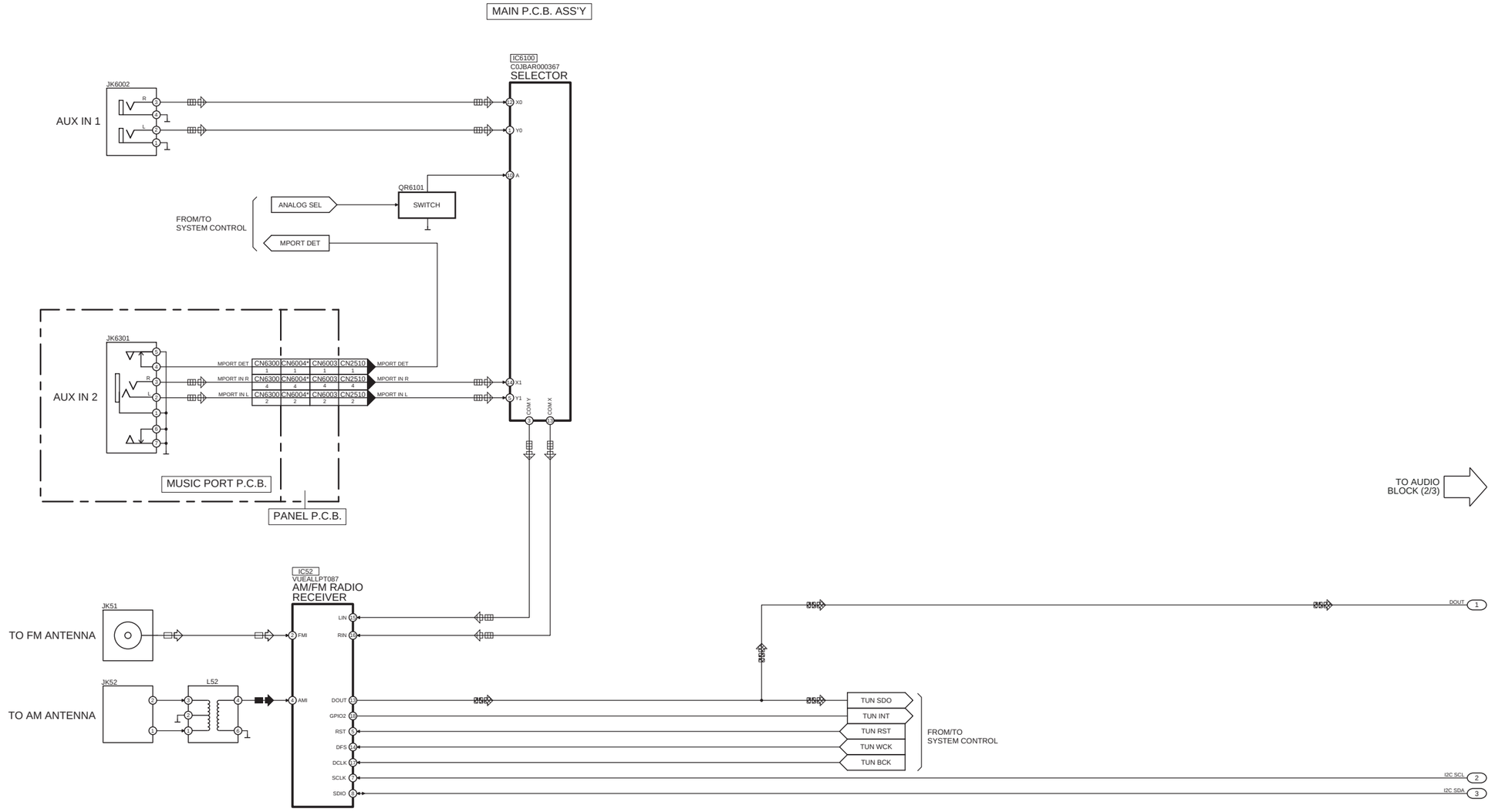
: AUX/MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



SA-VKX95EE/GA/GS SYSTEM CONTROL (3/3) BLOCK DIAGRAM

10.3. Audio

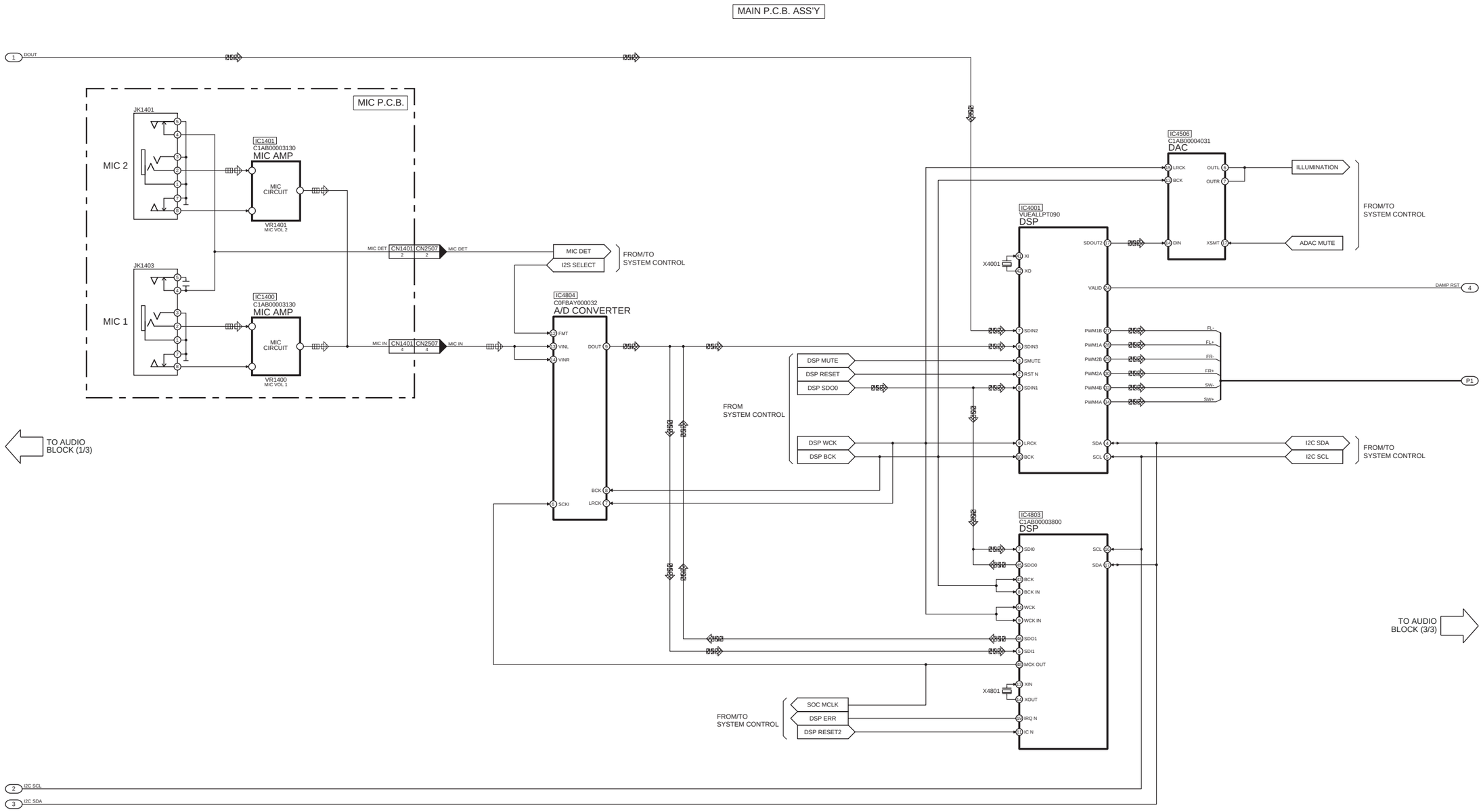
: AUX/MUSIC PORT/MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

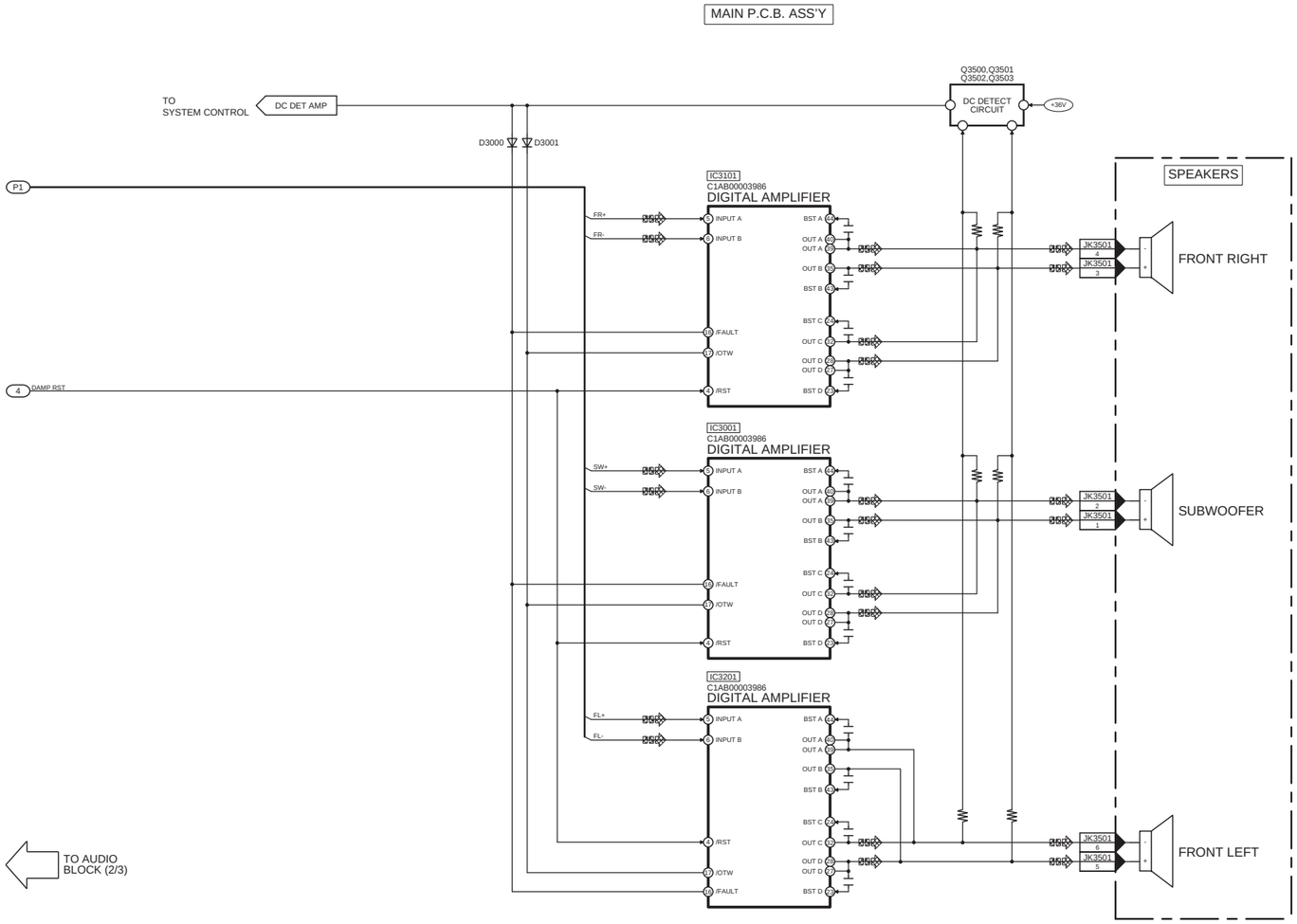
SA-VKX95EE/GA/GS AUDIO (1/3) BLOCK DIAGRAM

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



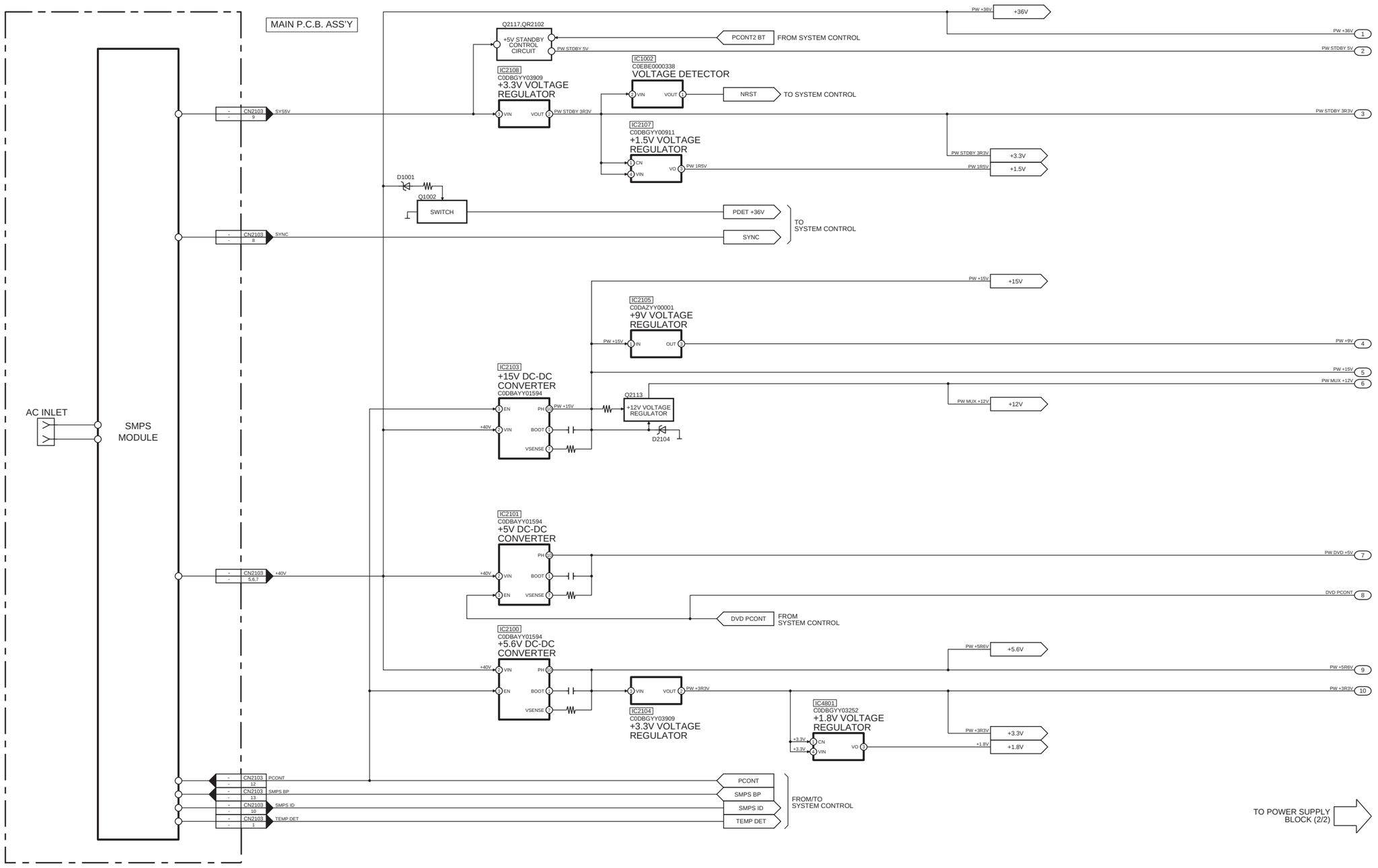
SA-VKX95EE/GA/GS AUDIO (2/3) BLOCK DIAGRAM

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

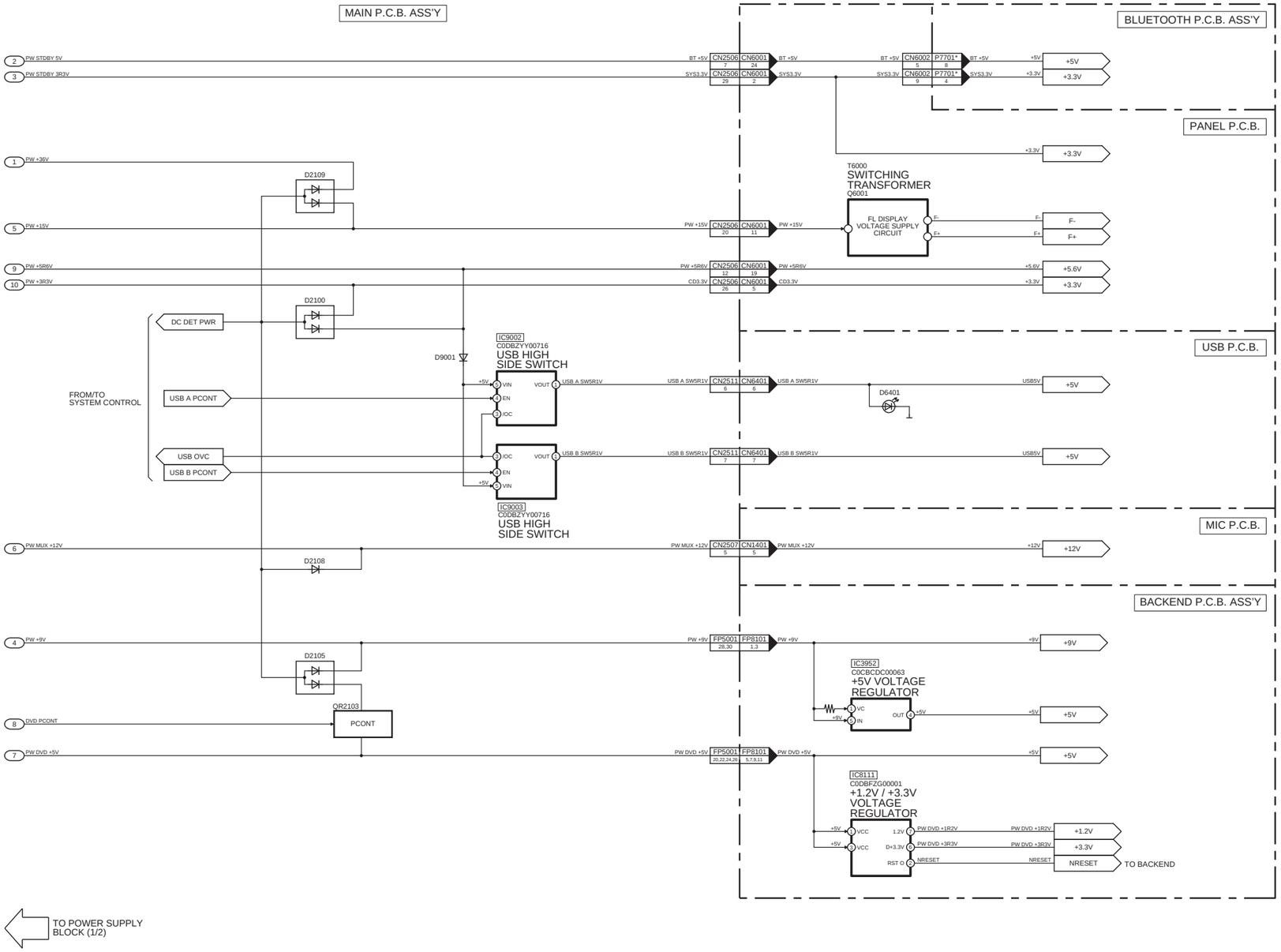


SA-VKX95EE/GA/GS AUDIO (3/3) BLOCK DIAGRAM

10.4. Power Supply



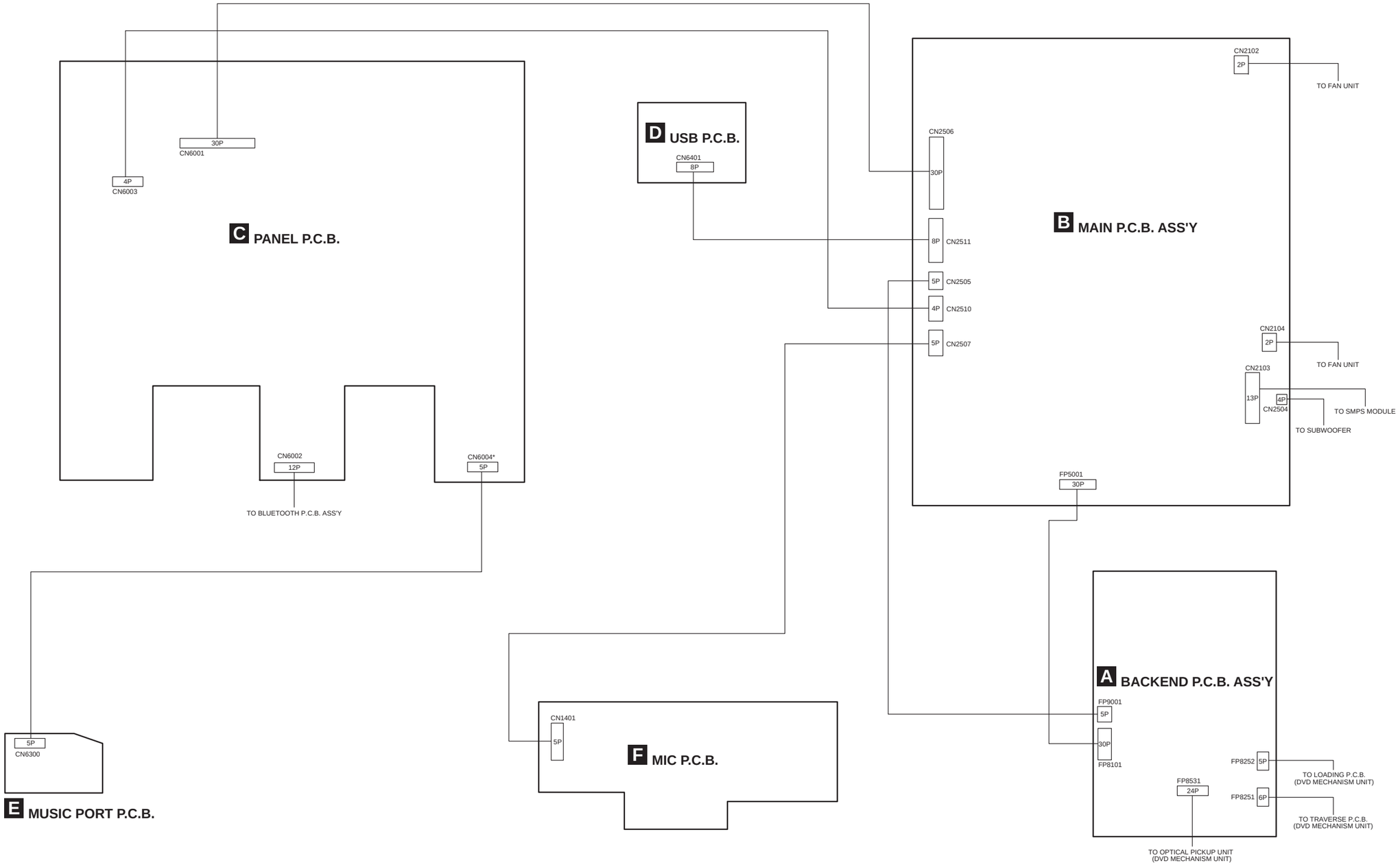
SA-VKX95EE/GA/GS POWER SUPPLY (1/2) BLOCK DIAGRAM



NOTE: " * " REF IS FOR INDICATION ONLY

SA-VKX95EE/GA/GS POWER SUPPLY (2/2) BLOCK DIAGRAM

11 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-VKX95EE/GA/GS WIRING CONNECTION DIAGRAM

12 Schematic Diagram

12.1. Schematic Diagram Notes

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

Notes:

S6200:	Power (⏻/I) switch.
S6201:	Open/Close (⏏) switch.
S6202:	Stop (■)/Tune Mode switch.
S6211:	DJ Jukebox switch.
S6212:	Local/Preset EQ switch.
S6213:	Manual EQ switch.
S6214:	D Bass/Super Woofer switch.
S6215:	USB REC/Pause switch.
S6216:	Rewind (I◀◀/◀◀) switch.
S6217:	Forward (▶▶/▶▶I) switch.
S6218:	Play/Pause (▶/II) switch.
S6219:	Radio/AUX switch.
S6220:	DVD/CD switch.
S6221:	Bluetooth/USB/Pairing switch.
S6222:	Album/Track switch.
S6223:	Key-Con switch.
S6224:	Echo switch.
S6225:	Vocal Cancel switch.
S6226:	FL Display switch.
S6227:	Dimmer switch.
S6228:	Karaoke switch.
VR1400:	Mic Volume 1 Jog.
VR1401:	Mic Volume 2 Jog.
VR6100:	Volume Jog.
VR6200:	Illumination/Control Jog.

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high quality sound (capacitors), low-noise (resistors), etc are used.
  When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

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

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

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

- *****
  REF IS FOR INDICATION ONLY.

- Voltage and signal line

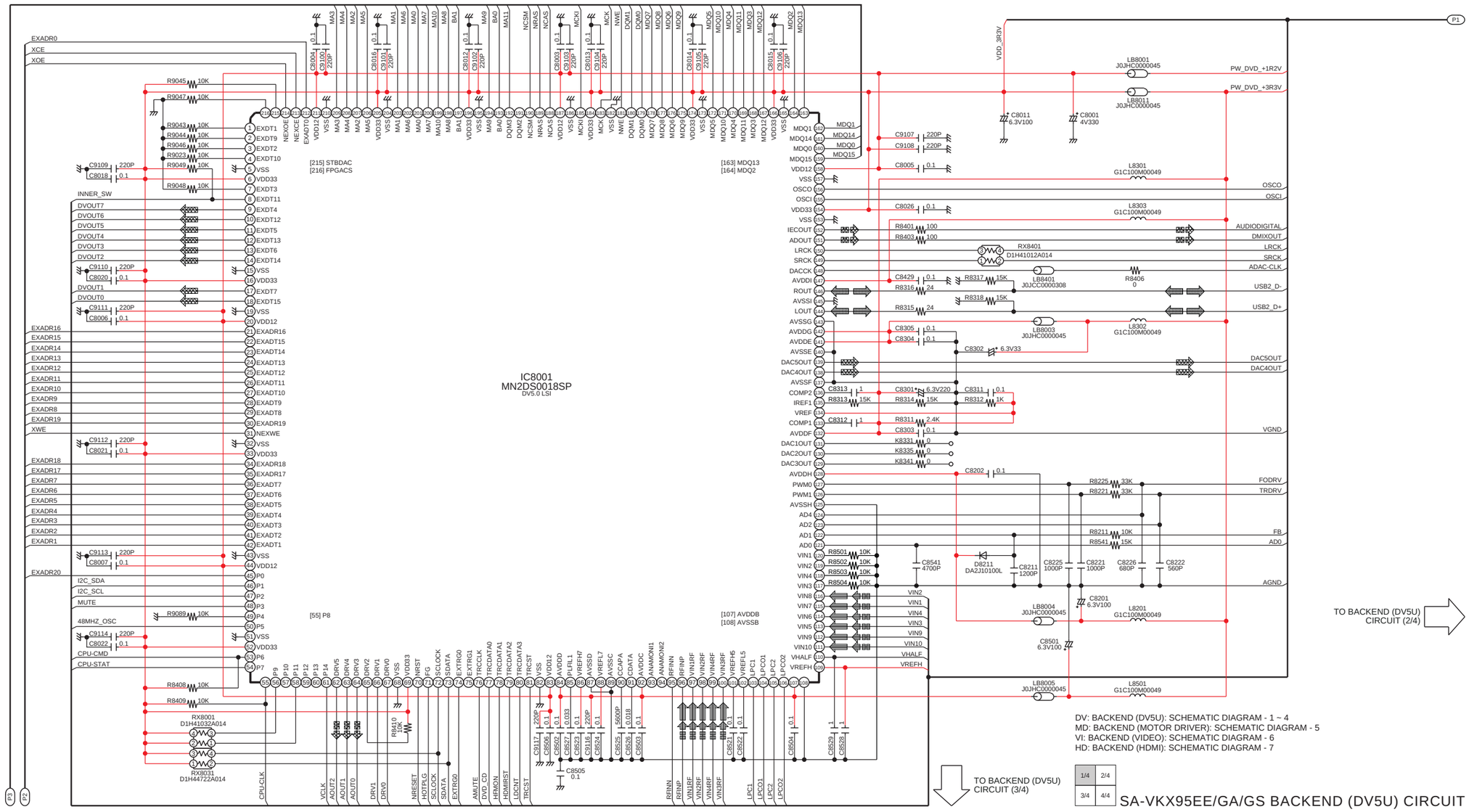
  : +B signal line
  : -B signal line
  : CD/DVD Audio input signal line
  : CD/DVD Video input signal line
  : Audio output signal line
  : Video output signal line
  : USB signal line
  : AUX/Music Port/Mic Audio input signal line
  : AM signal line
  : FM signal line

12.2. Backend (DV5U) Circuit (1/4)

SCHEMATIC DIAGRAM - 1

A BACKEND (DV5U) CIRCUIT

—— : +B SIGNAL LINE : CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

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

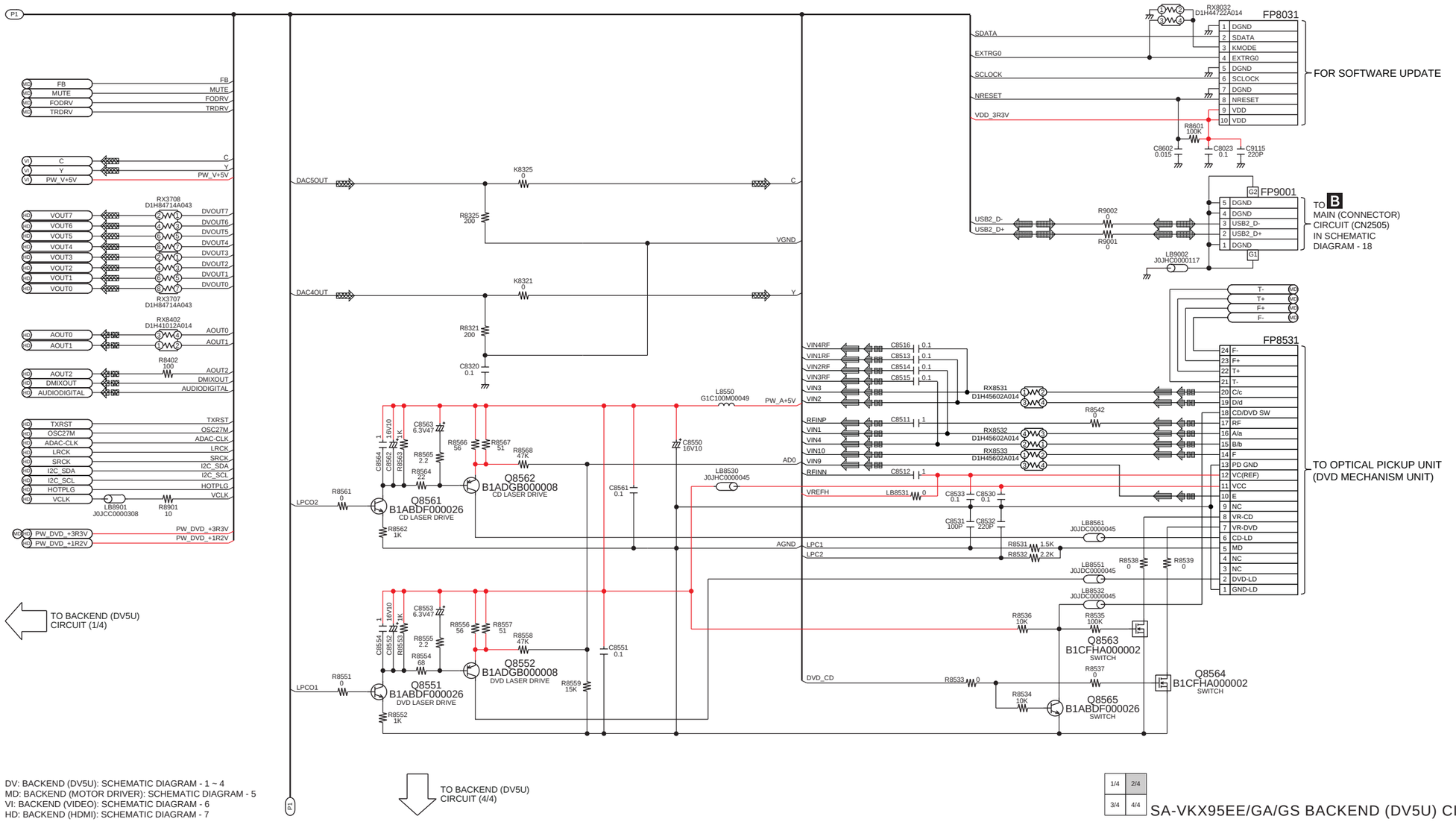
SA-VKX95EE/GA/GS BACKEND (DV5U) CIRCUIT

12.3. Backend (DV5U) Circuit (2/4)

SCHEMATIC DIAGRAM - 2

A BACKEND (DV5U) CIRCUIT

: +B SIGNAL LINE : CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

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

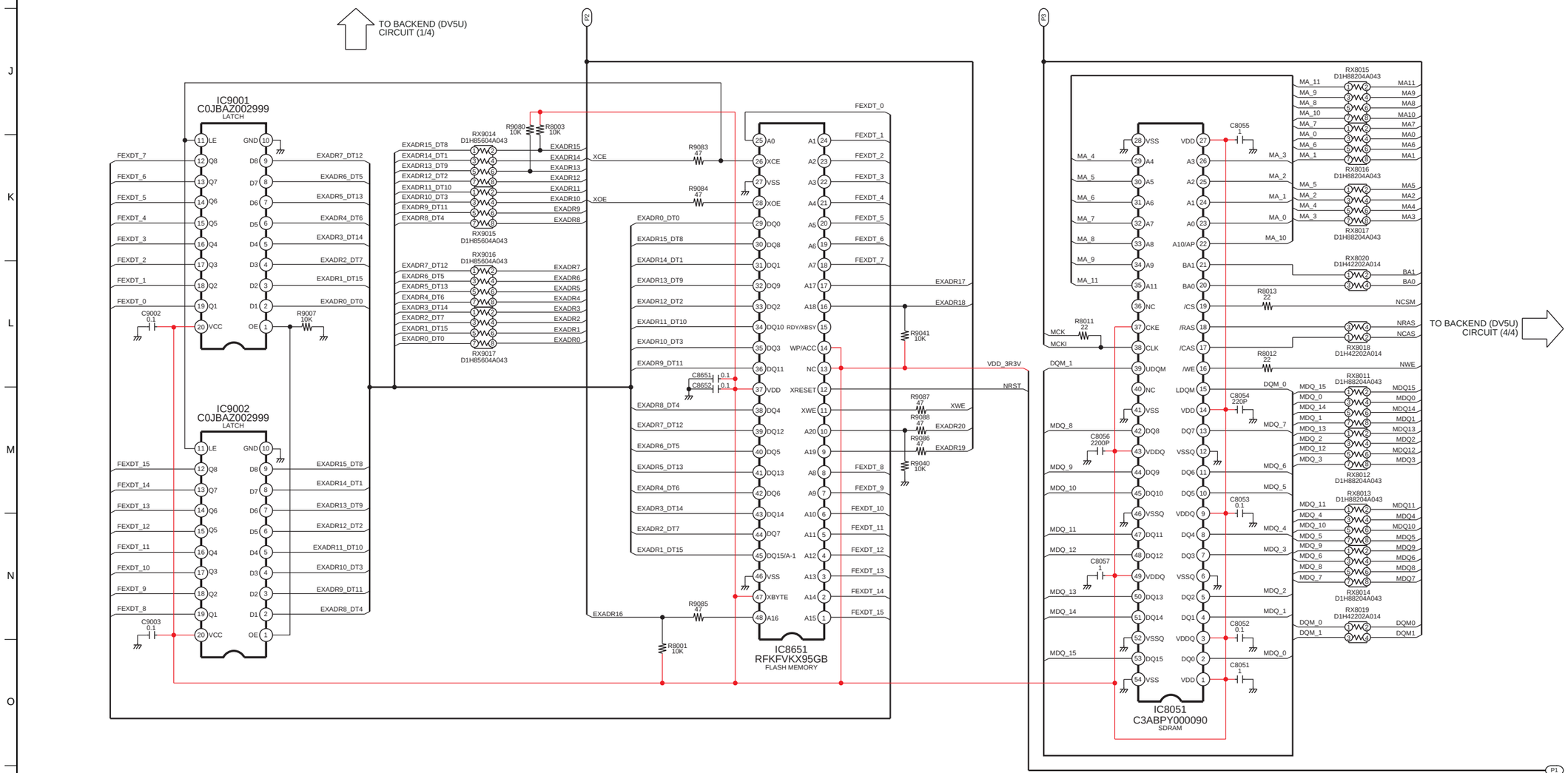
SA-VKX95EE/GA/GS BACKEND (DV5U) CIRCUIT

12.4. Backend (DV5U) Circuit (3/4)

SCHEMATIC DIAGRAM - 3

A BACKEND (DV5U) CIRCUIT

: +B SIGNAL LINE : CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

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

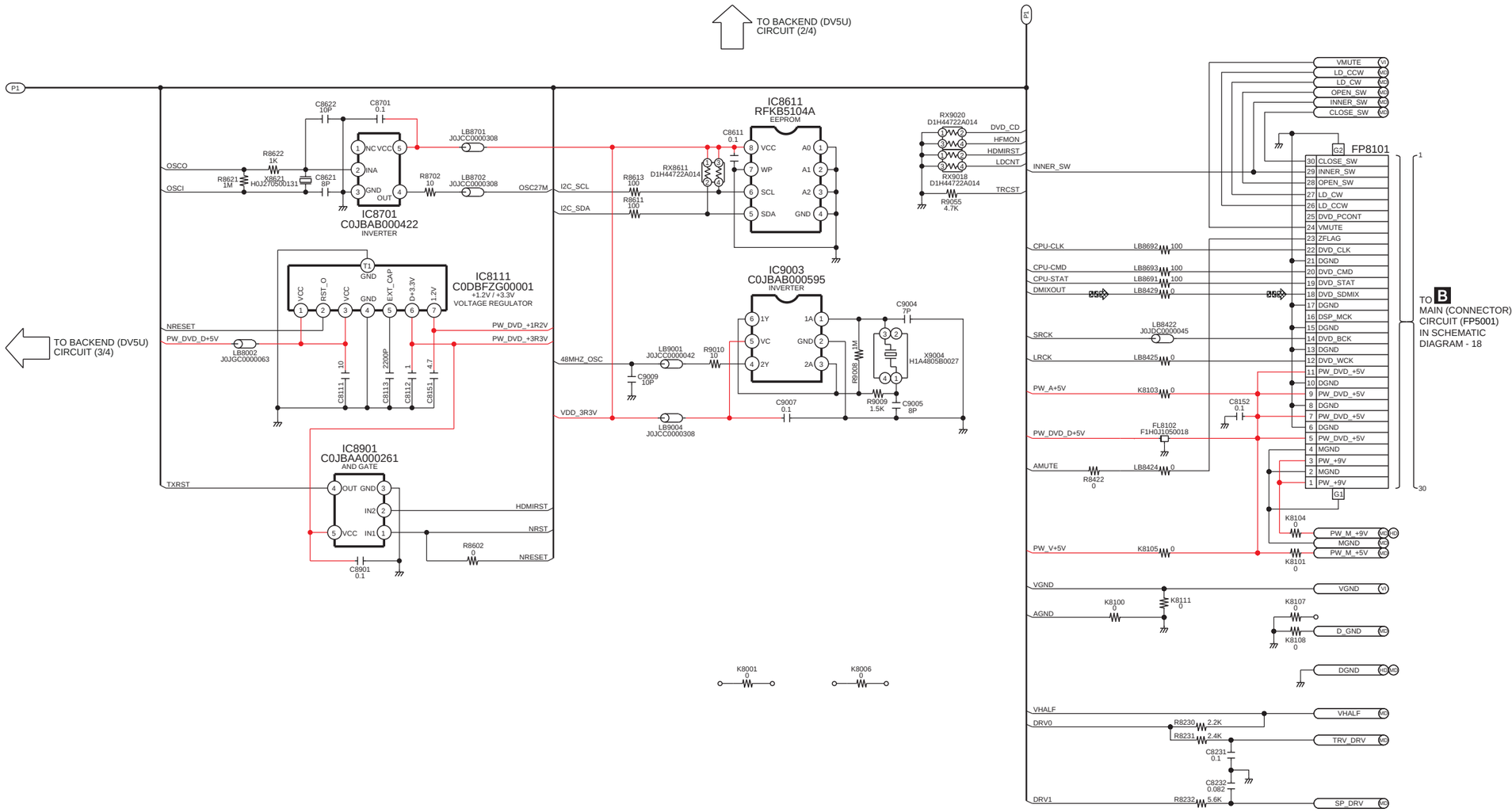
SA-VKX95EE/GA/GS BACKEND (DV5U) CIRCUIT

12.5. Backend (DV5U) Circuit (4/4)

SCHEMATIC DIAGRAM - 4

A BACKEND (DV5U) CIRCUIT

—— : +B SIGNAL LINE : CD/DVD AUDIO INPUT SIGNAL LINE : CD/DVD VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE : USB SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

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

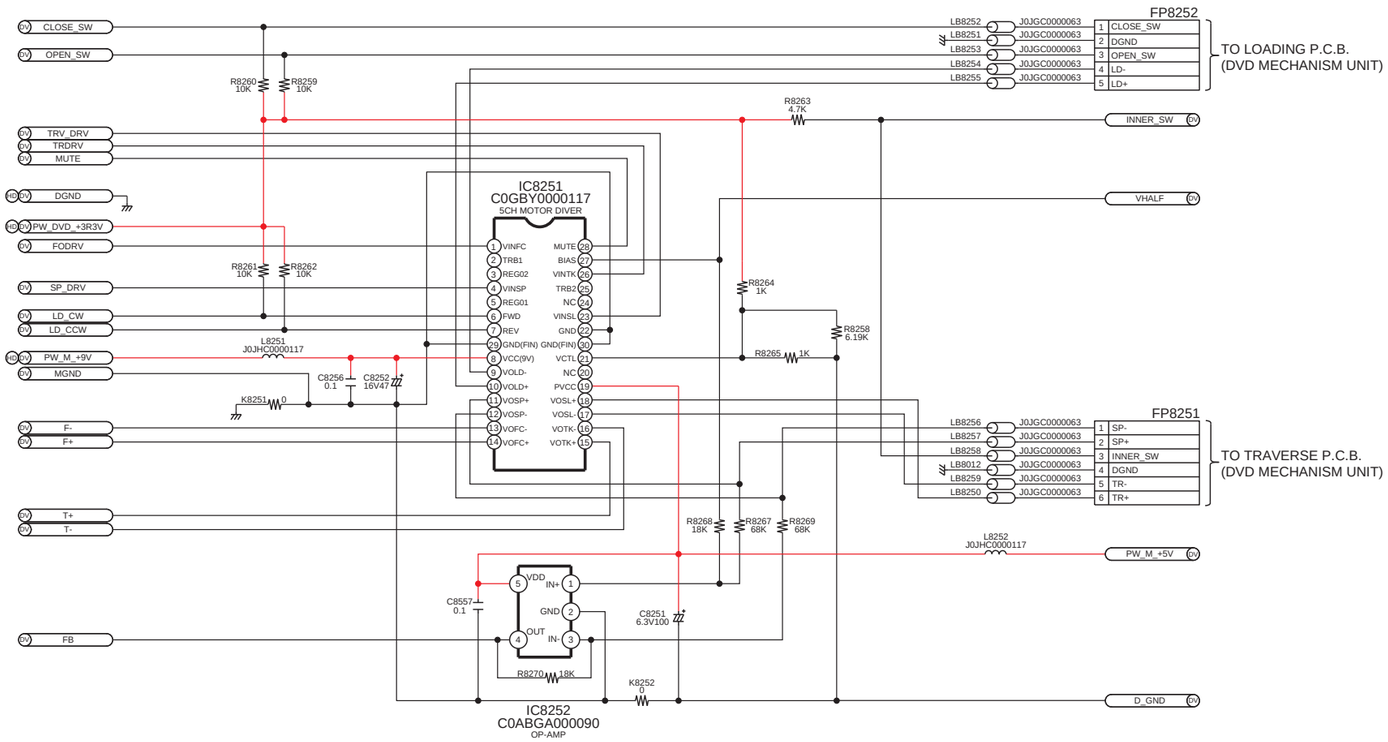
SA-VKX95EE/GA/GS BACKEND (DV5U) CIRCUIT

12.6. Backend (Motor Driver) Circuit

SCHEMATIC DIAGRAM - 5

A BACKEND (MOTOR DRIVER) CIRCUIT

—— : +B SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

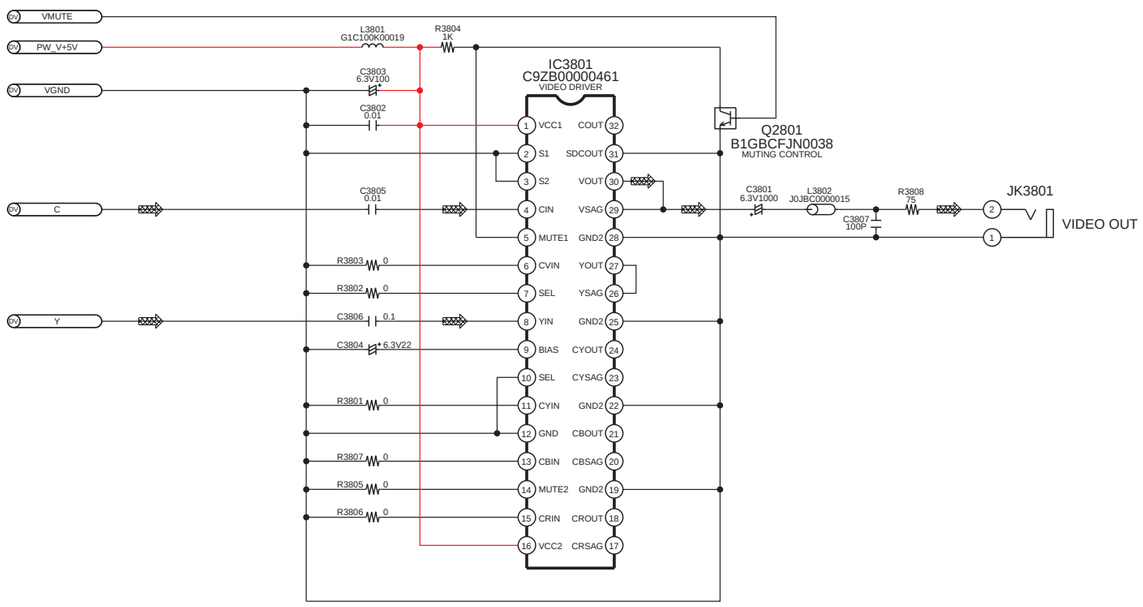
SA-VKX95EE/GA/GS BACKEND (MOTOR DRIVER) CIRCUIT

12.7. Backend (Video) Circuit

SCHEMATIC DIAGRAM - 6

A BACKEND (VIDEO) CIRCUIT

—— : +B SIGNAL LINE ▨ : VIDEO OUTPUT SIGNAL LINE



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

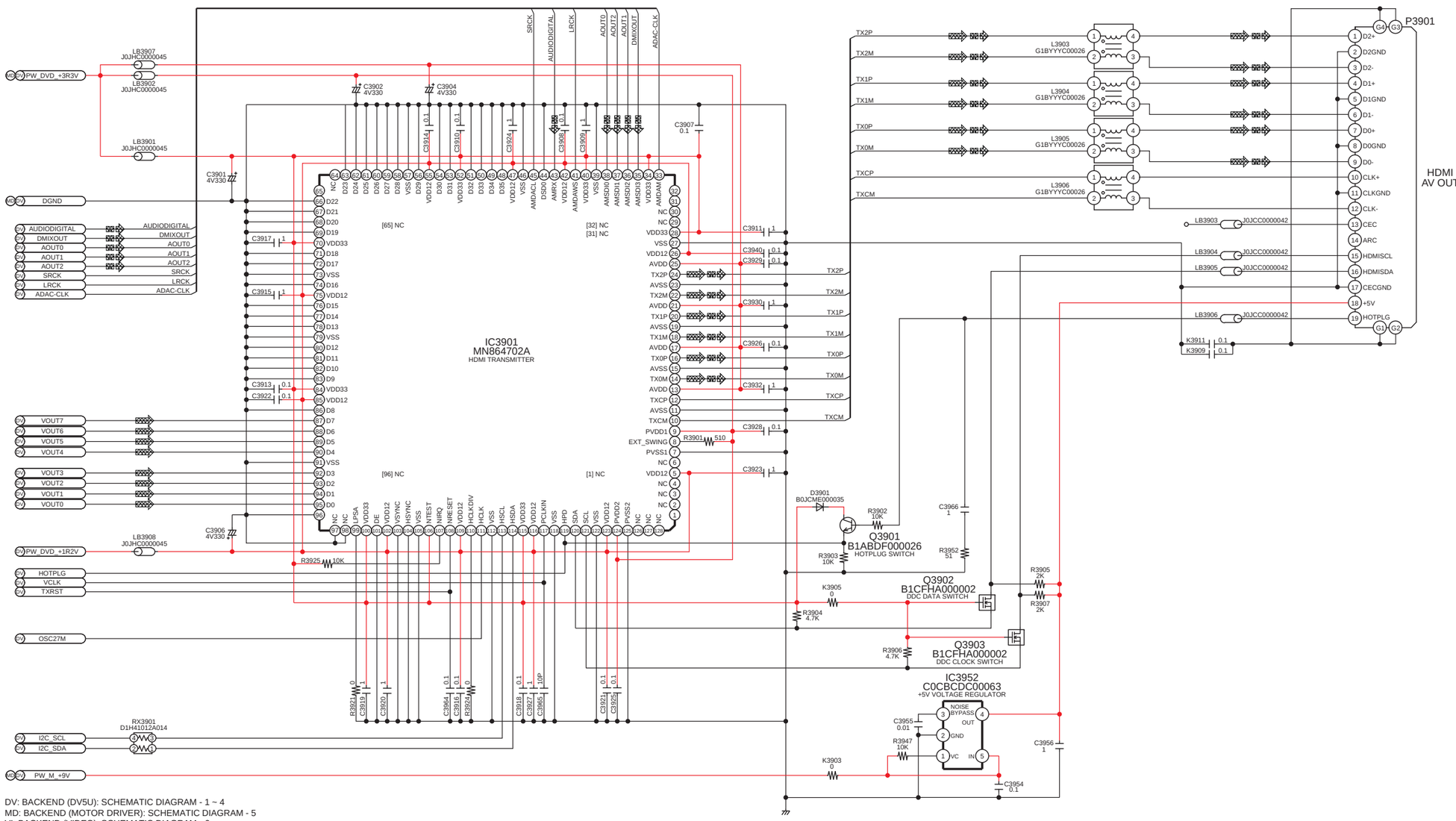
SA-VKX95EE/GA/GS BACKEND (VIDEO) CIRCUIT

12.8. Backend (HDMI) Circuit

SCHEMATIC DIAGRAM - 7

A BACKEND (HDMI) CIRCUIT

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



DV: BACKEND (DV5U): SCHEMATIC DIAGRAM - 1 ~ 4
MD: BACKEND (MOTOR DRIVER): SCHEMATIC DIAGRAM - 5
VI: BACKEND (VIDEO): SCHEMATIC DIAGRAM - 6
HD: BACKEND (HDMI): SCHEMATIC DIAGRAM - 7

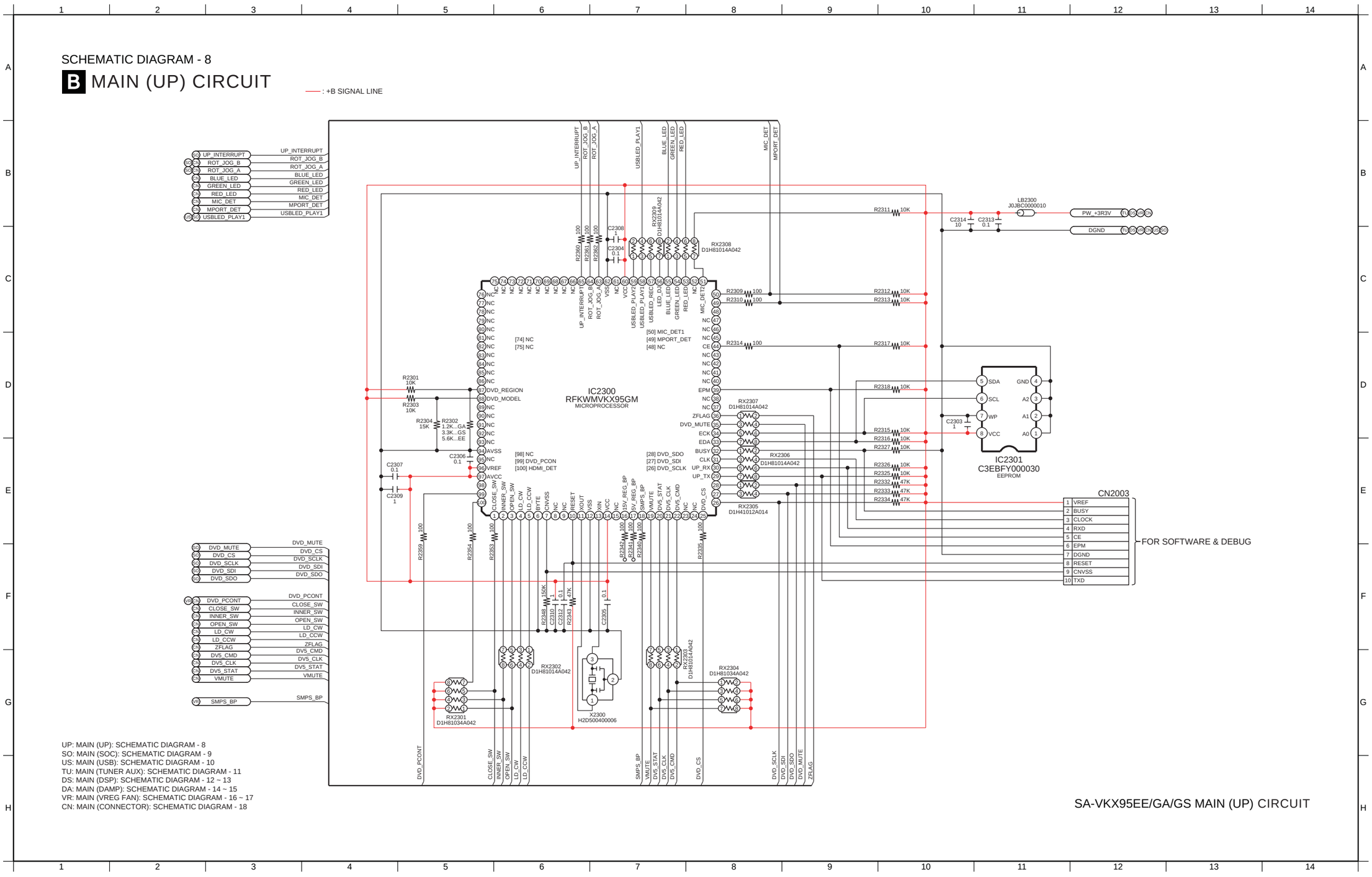
SA-VKX95EE/GA/GS BACKEND (HDMI) CIRCUIT

12.9. Main (UP) Circuit

SCHEMATIC DIAGRAM - 8

B MAIN (UP) CIRCUIT

—— : +B SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

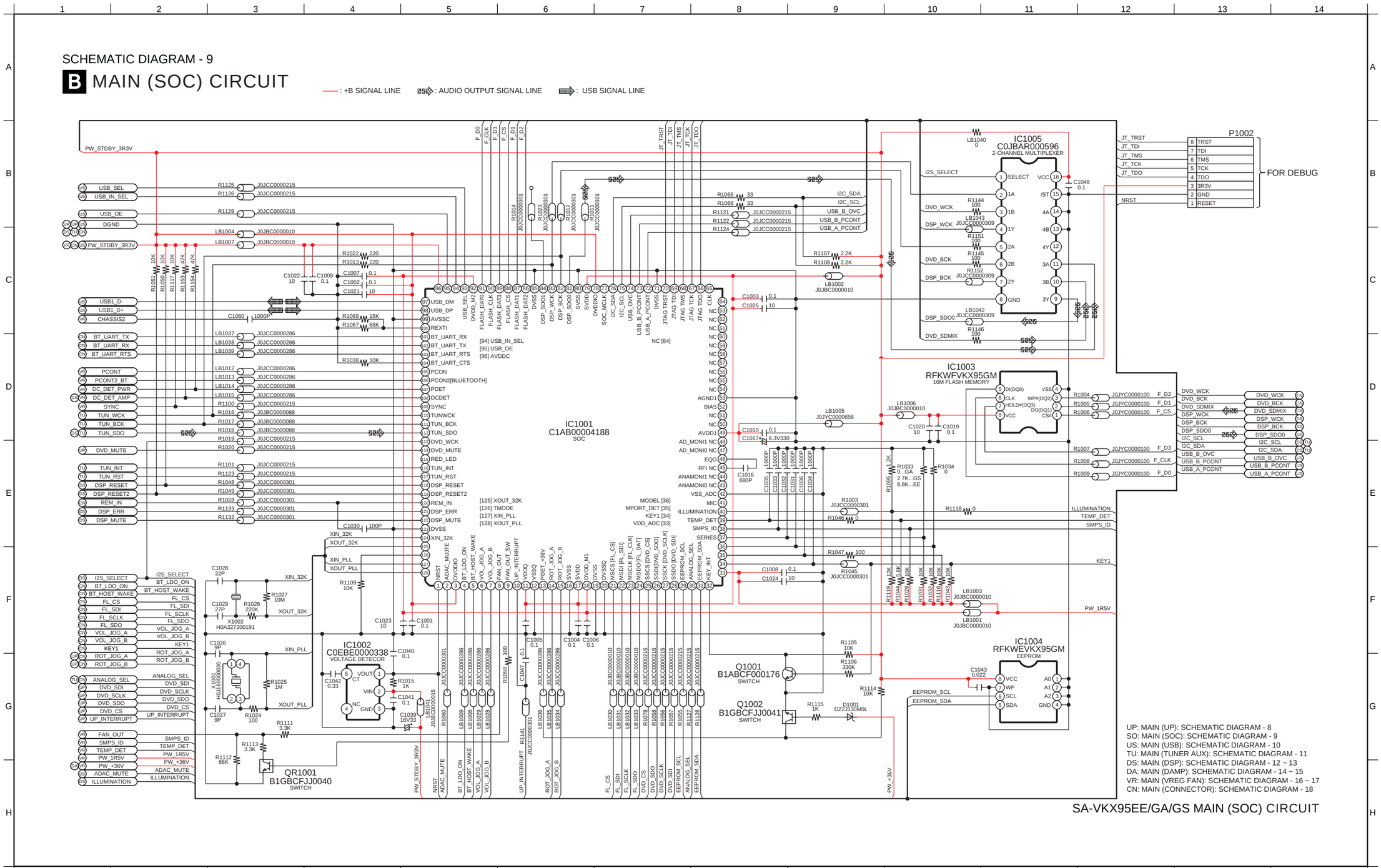
SA-VKX95EE/GA/GS MAIN (UP) CIRCUIT

12.10. Main (SOC) Circuit

SCHEMATIC DIAGRAM - 9

B MAIN (SOC) CIRCUIT

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



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

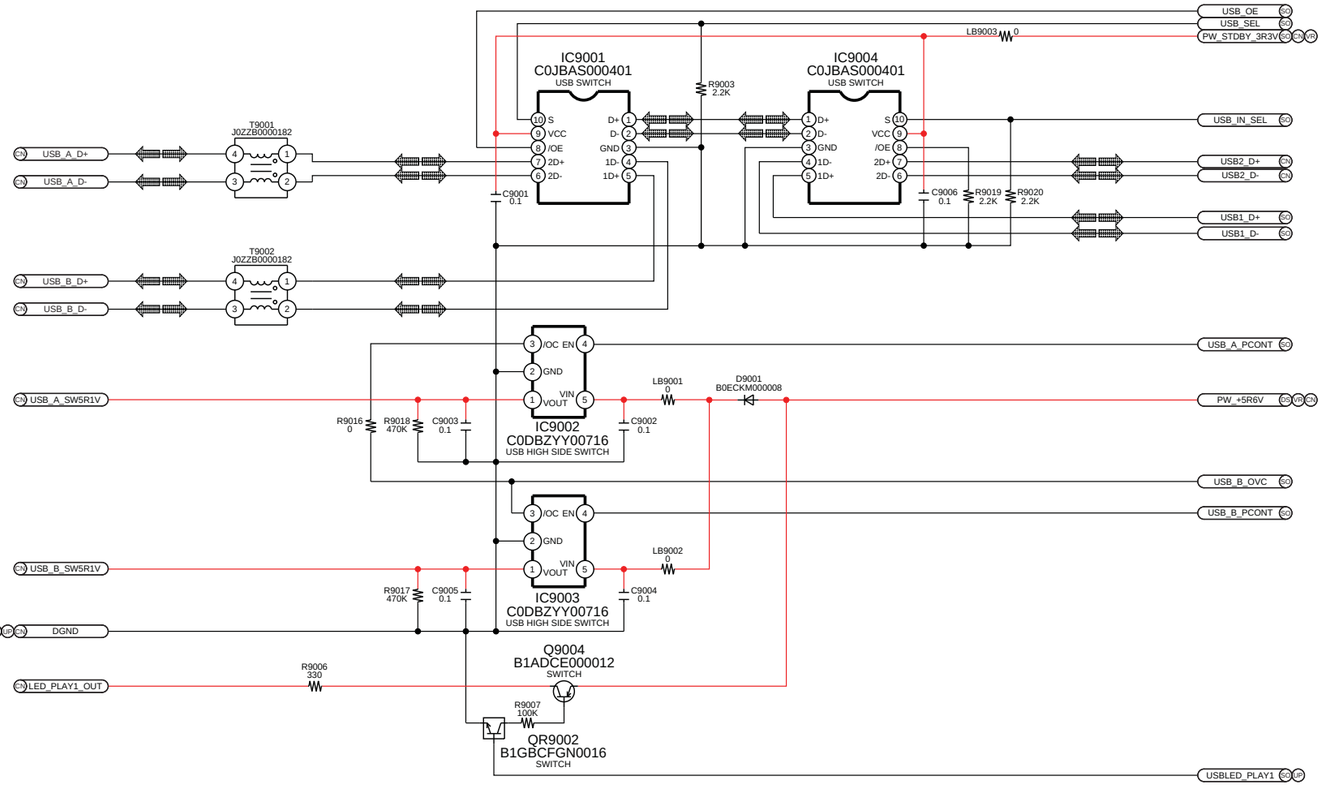
SA-VKX95EE/GA/GS MAIN (SOC) CIRCUIT

12.11. Main (USB) Circuit

SCHEMATIC DIAGRAM - 10

B MAIN (USB) CIRCUIT

—— : +B SIGNAL LINE : USB SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

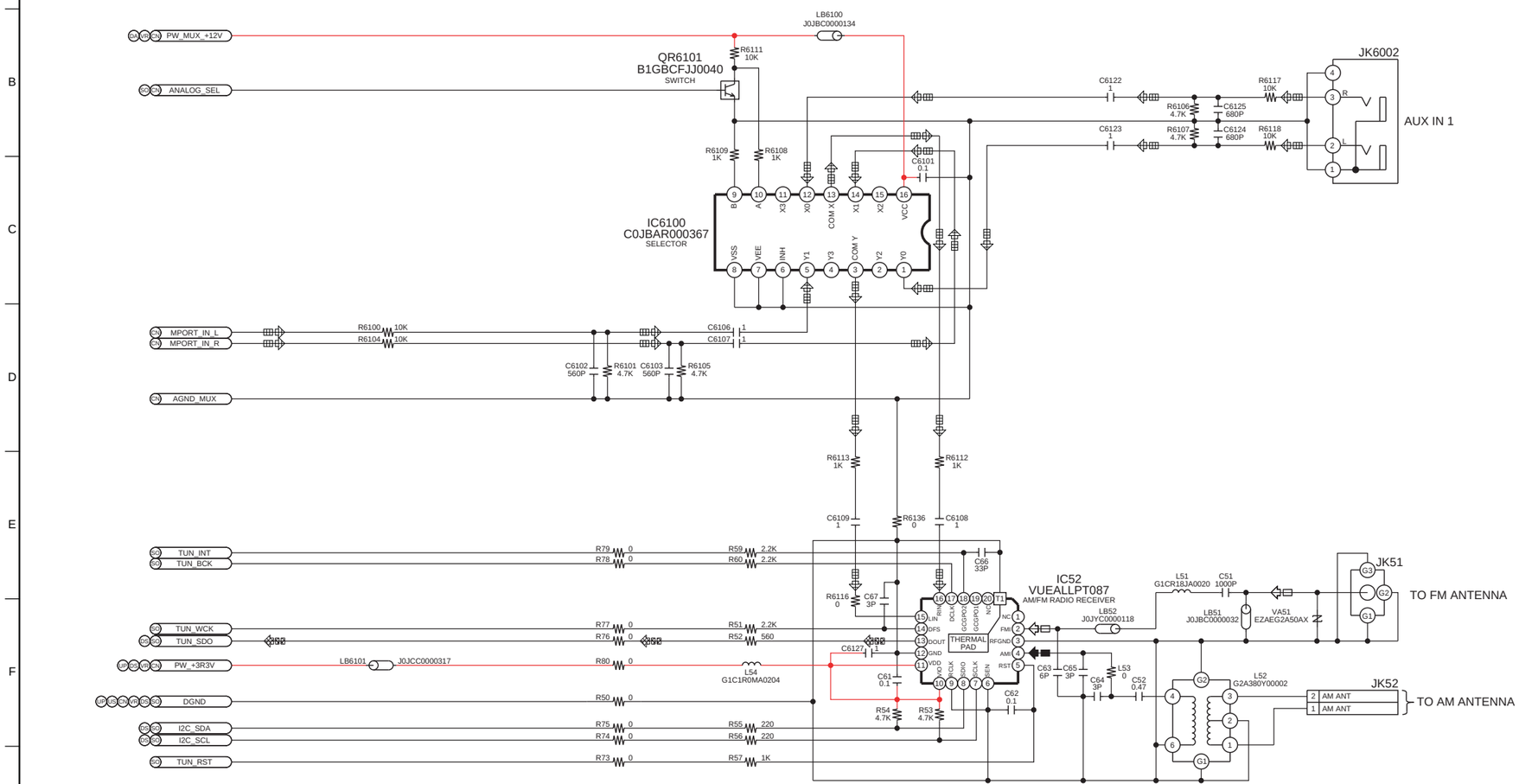
SA-VKX95EE/GA/GS MAIN (USB) CIRCUIT

12.12. Main (Tuner AUX) Circuit

SCHEMATIC DIAGRAM - 11

B MAIN (TUNER AUX) CIRCUIT

: +B SIGNAL LINE : AUX/MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

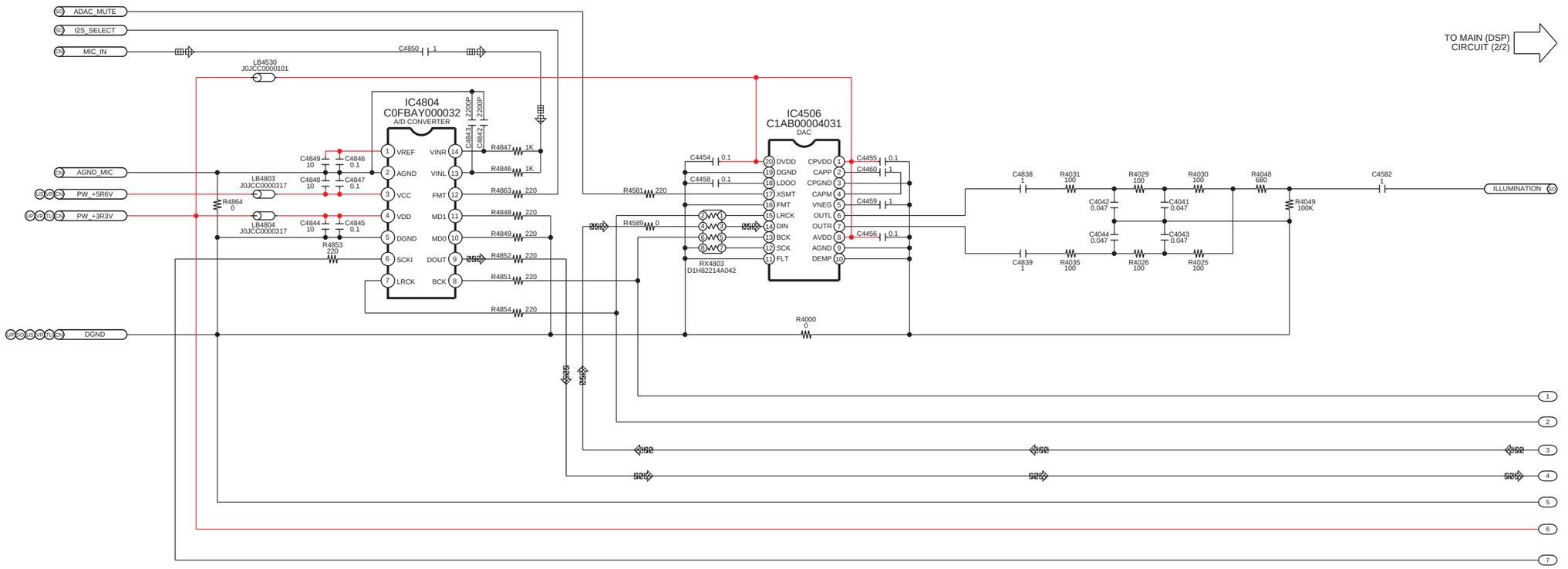
SA-VKX95EE/GA/GS MAIN (TUNER AUX) CIRCUIT

12.13. Main (DSP) Circuit (1/2)

SCHEMATIC DIAGRAM - 12

B MAIN (DSP) CIRCUIT

—— : +B SIGNAL LINE : MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

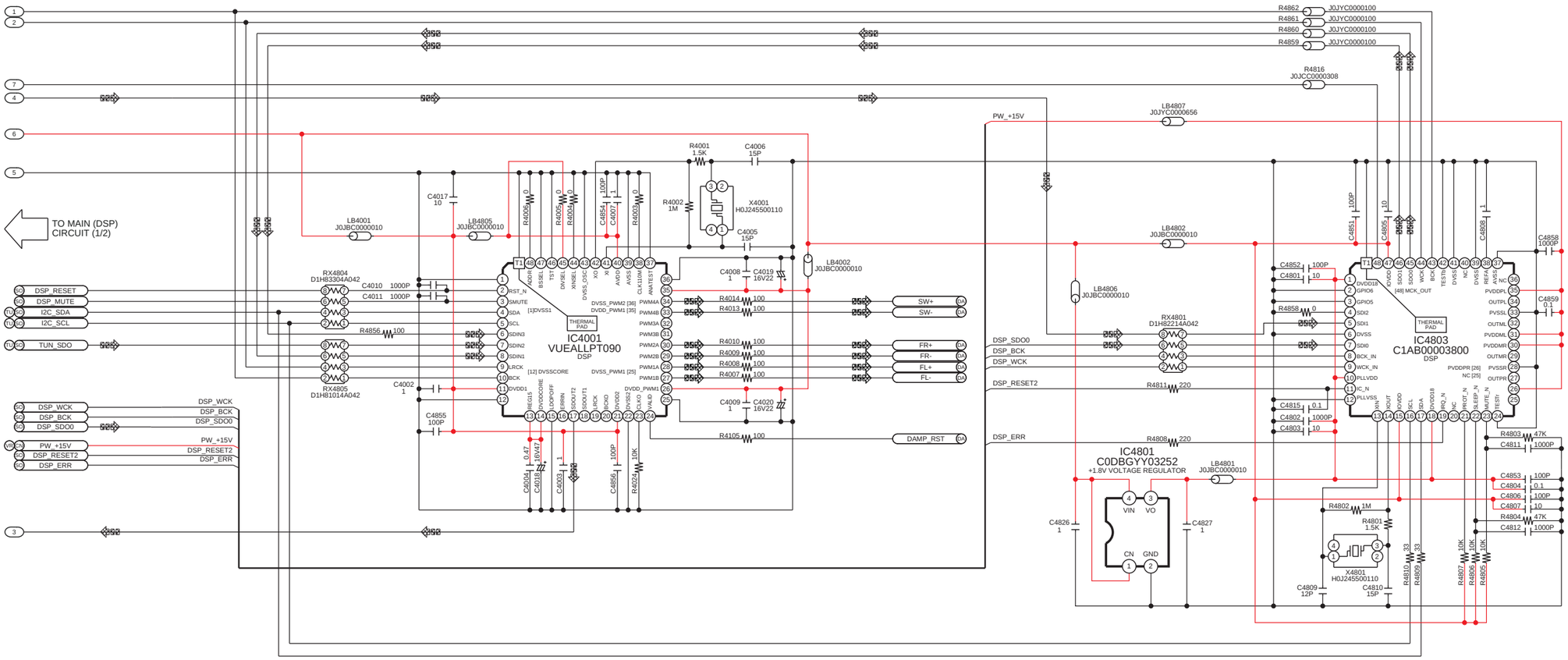
1/2 2/2 SA-VKX95EE/GA/GS MAIN (DSP) CIRCUIT

12.14. Main (DSP) Circuit (2/2)

SCHEMATIC DIAGRAM - 13

B MAIN (DSP) CIRCUIT

—— : +B SIGNAL LINE : MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

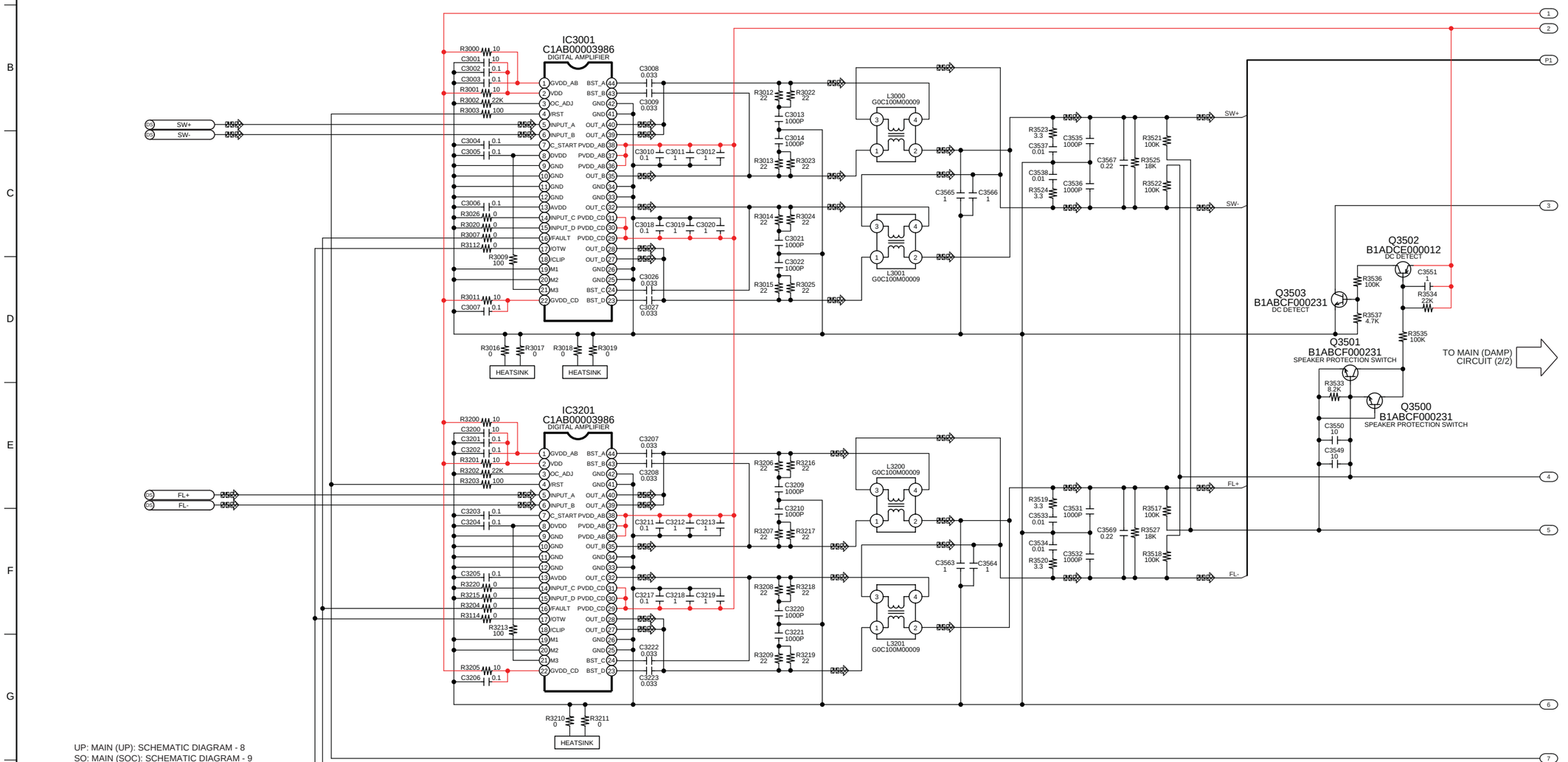
1/2 2/2 SA-VKX95EE/GA/GS MAIN (DSP) CIRCUIT

12.15. Main (DAMP) Circuit (1/2)

SCHEMATIC DIAGRAM - 14

B MAIN (DAMP) CIRCUIT

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



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

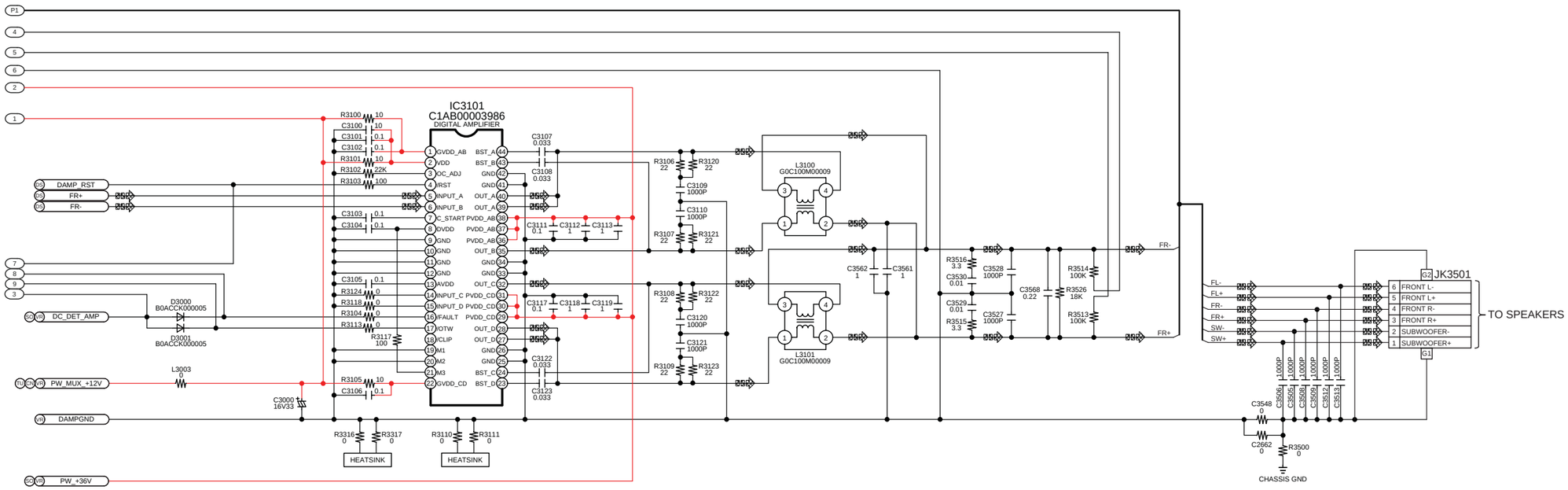
1/2 2/2 SA-VKX95EE/GA/GS MAIN (DAMP) CIRCUIT

12.16. Main (DAMP) Circuit (2/2)

SCHEMATIC DIAGRAM - 15

B MAIN (DAMP) CIRCUIT

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



TO MAIN (DAMP)
CIRCUIT (1/2)

R3307 0

UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

1/2 2/2 SA-VKX95EE/GA/GS MAIN (DAMP) CIRCUIT

12.17. Main (VREG Fan) Circuit (1/2)

SCHEMATIC DIAGRAM - 16

B MAIN (VREG FAN) CIRCUIT

: +B SIGNAL LINE

PW_+15V
DC_DET_PWR
PW_+5R6V
PW_+3R3V
PW_+9V
PW_DVD_+5V
PW_MUX_+12V
DVD_PCONT

D2109 B0ADDJ000032
D2100 B0ADDJ000032
D2108 DA2J10100L
D2105 B0ADDJ000032

IC2104 C0DBGYY03909 +3.3V VOLTAGE REGULATOR
IC2105 C0DAZYY00001 +9V VOLTAGE REGULATOR
IC2103 C0DBAYY01594 +15V DC-DC CONVERTER
IC2100 C0DBAYY01594 +5.6V DC-DC CONVERTER
IC2101 C0DBAYY01594 +5V DC-DC CONVERTER

Q2113 B1BACG000023 +12V VOLTAGE REGULATOR
Q2114 B1GBCFJJ0041 SWITCH
Q2115 B1GBCFJJ0041 SWITCH
Q2116 B1GBCFJJ0041 SWITCH
QR2103 B1GBCFLL0037 PCONT

TO MAIN (VREG FAN) CIRCUIT (2/2)

UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

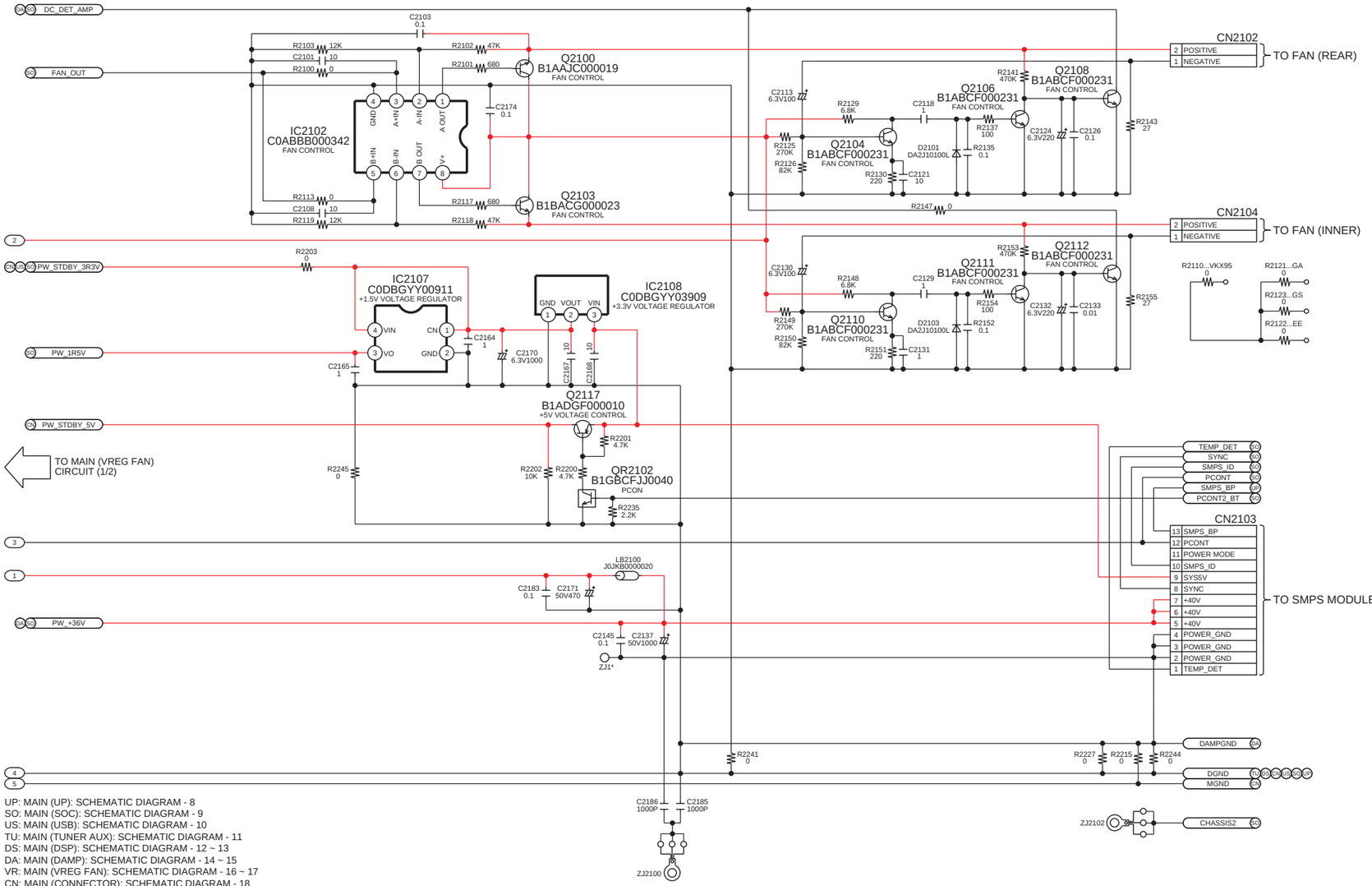
1/2 2/2 SA-VKX95EE/GA/GS MAIN (VREG FAN) CIRCUIT

12.18. Main (VREG Fan) Circuit (2/2)

SCHEMATIC DIAGRAM - 17

B MAIN (VREG FAN) CIRCUIT

—— : +B SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

NOTE: " * " REF IS FOR INDICATION ONLY

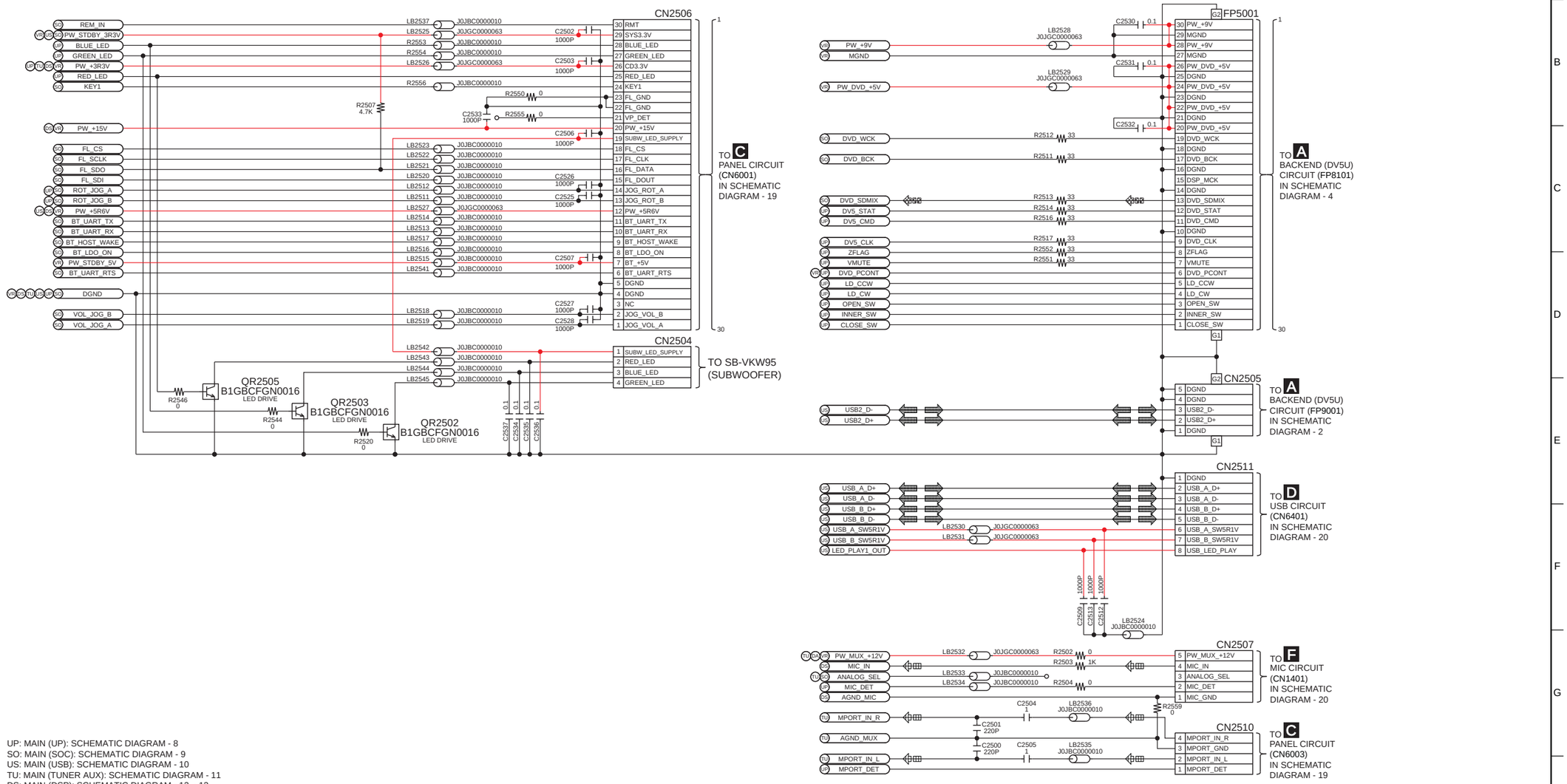
1/2 2/2 SA-VKX95EE/GA/GS MAIN (VREG FAN) CIRCUIT

12.19. Main (Connector) Circuit

SCHEMATIC DIAGRAM - 18

B MAIN (CONNECTOR) CIRCUIT

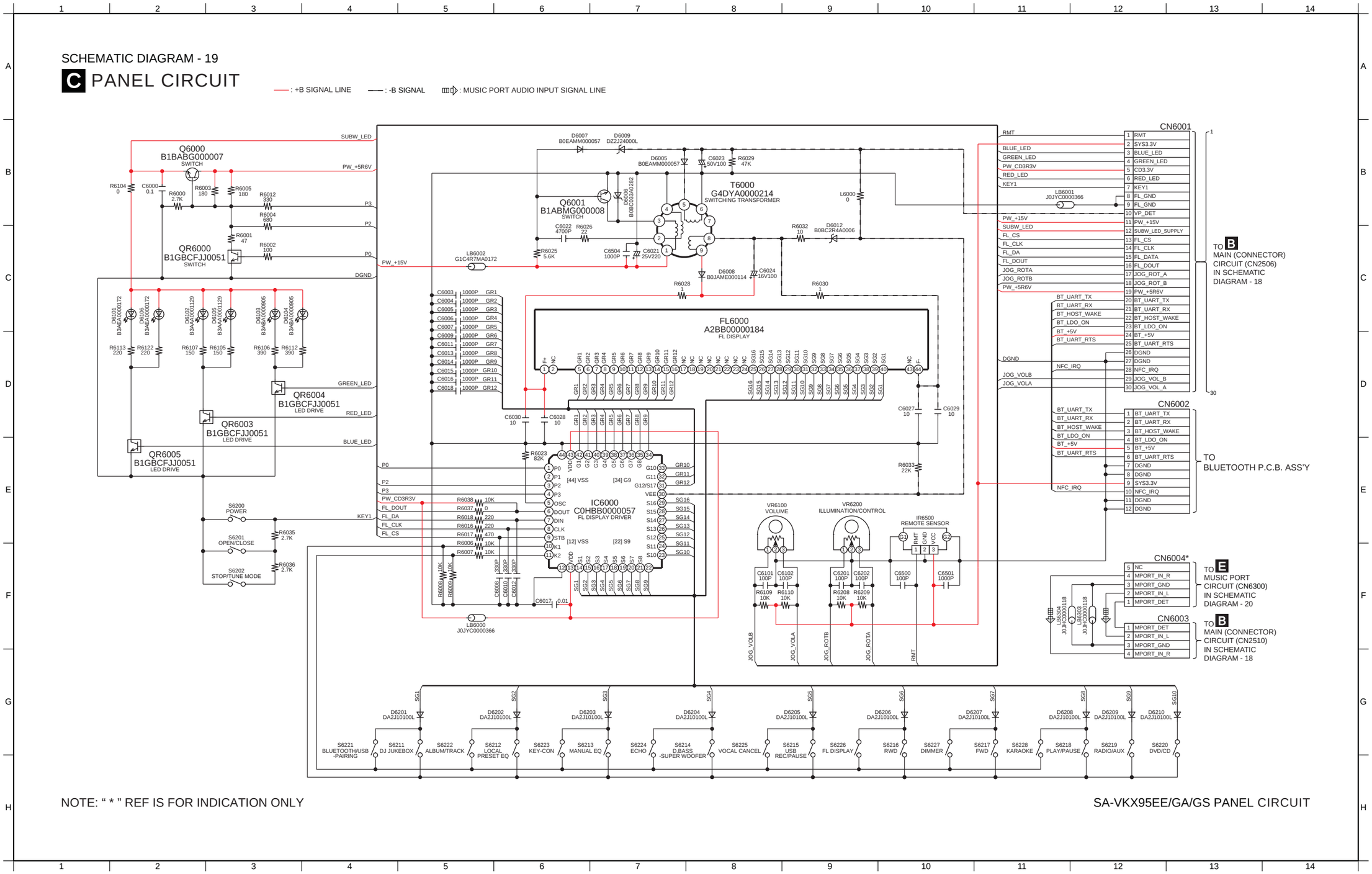
—— : +B SIGNAL LINE : MIC/MUSIC PORT AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



UP: MAIN (UP): SCHEMATIC DIAGRAM - 8
SO: MAIN (SOC): SCHEMATIC DIAGRAM - 9
US: MAIN (USB): SCHEMATIC DIAGRAM - 10
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 11
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 12 ~ 13
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 14 ~ 15
VR: MAIN (VREG FAN): SCHEMATIC DIAGRAM - 16 ~ 17
CN: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 18

SA-VKX95EE/GA/GS MAIN (CONNECTOR) CIRCUIT

12.20. Panel Circuit



NOTE: " * " REF IS FOR INDICATION ONLY

SA-VKX95EE/GA/GS PANEL CIRCUIT

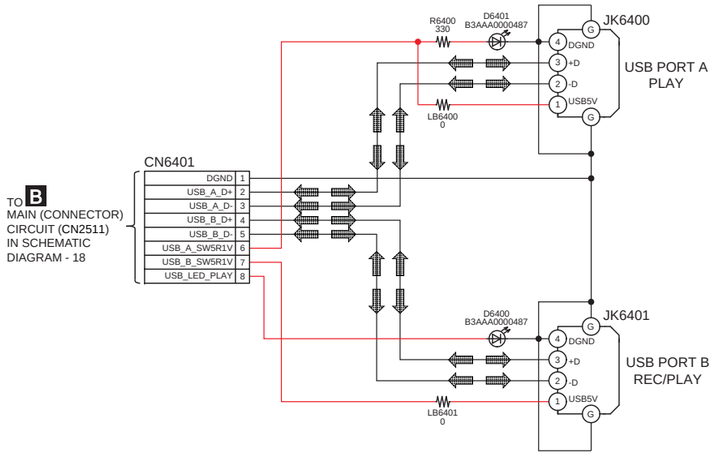
12.21. USB, Music Port & Mic Circuit

SCHEMATIC DIAGRAM - 20

D USB CIRCUIT

—— : +B SIGNAL LINE

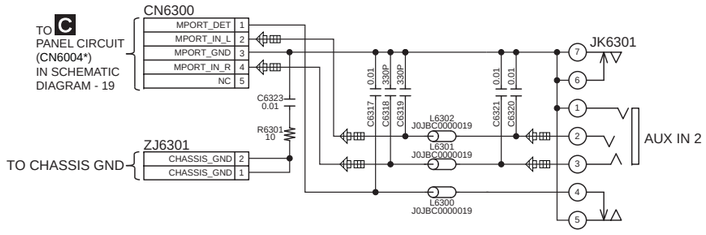
⇨ : USB SIGNAL LINE



E MUSIC PORT CIRCUIT

—— : +B SIGNAL LINE

⇨ : MUSIC PORT AUDIO INPUT SIGNAL LINE

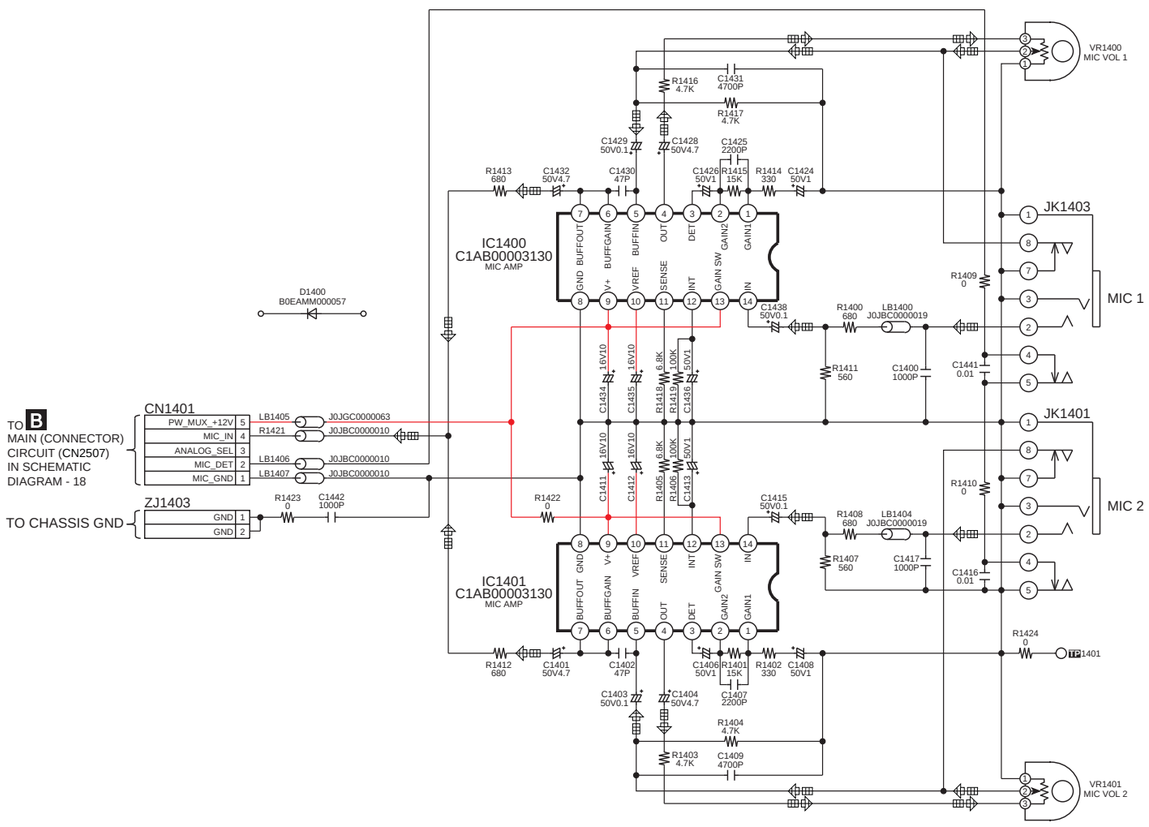


NOTE: “ * ” REF IS FOR INDICATION ONLY

F MIC CIRCUIT

—— : +B SIGNAL LINE

⇨ : MIC AUDIO INPUT SIGNAL LINE

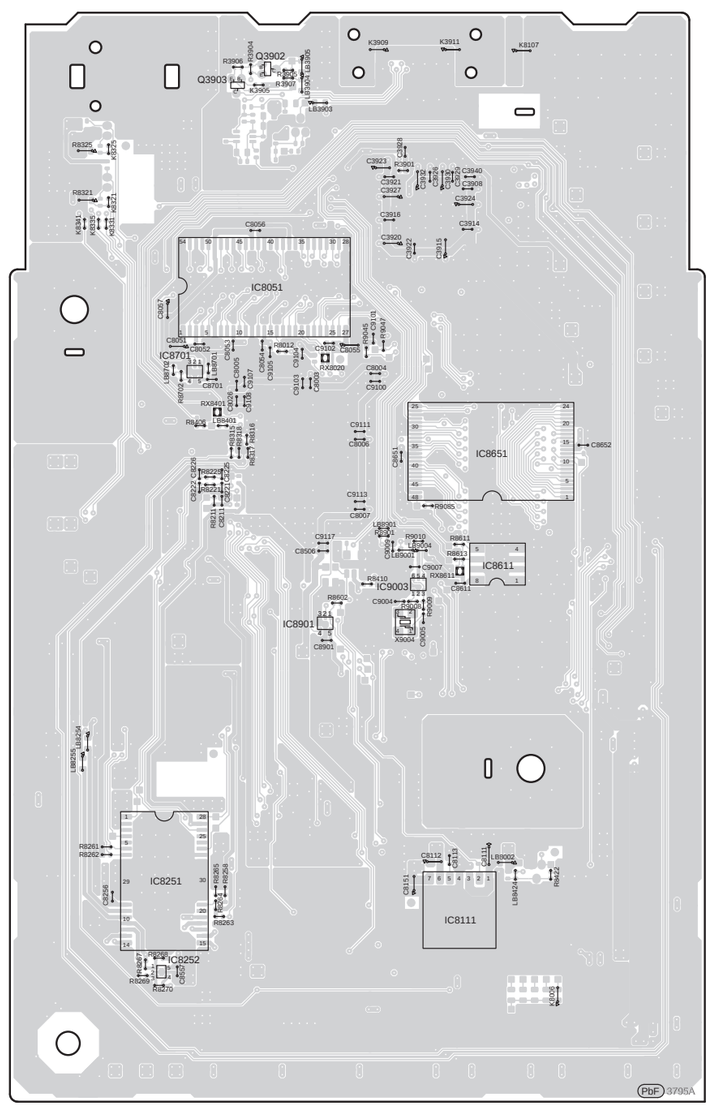


SA-VKX95EE/GA/GS USB / MUSIC PORT / MIC CIRCUIT

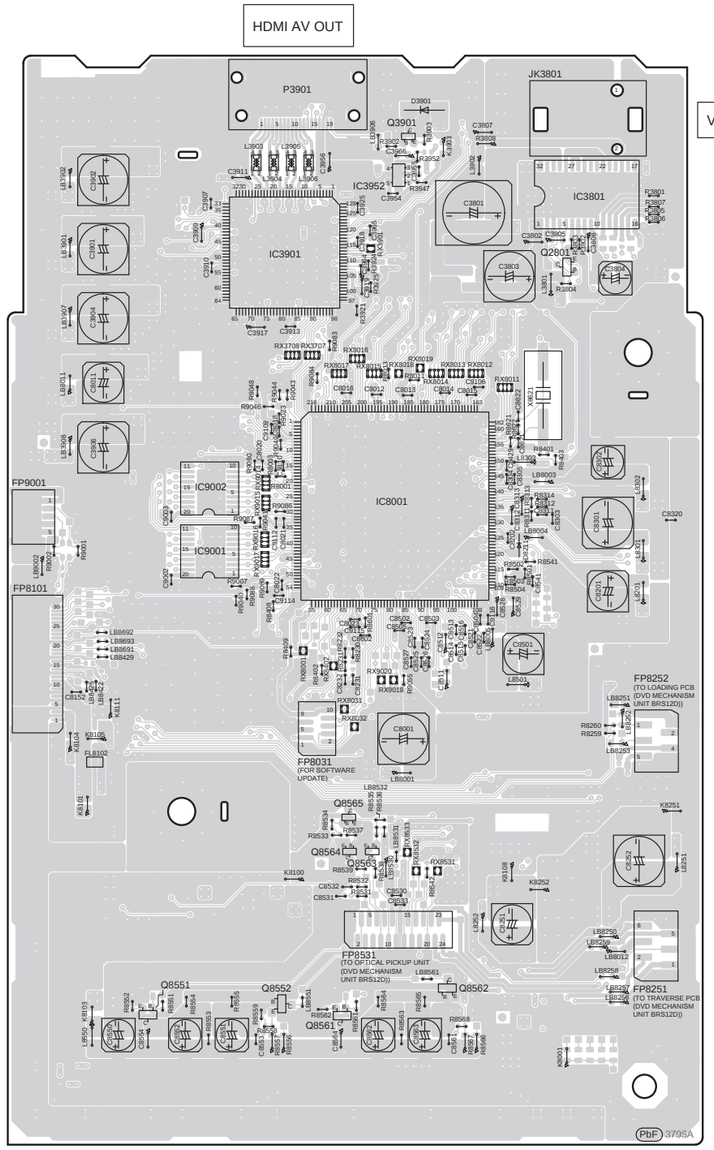
13 Printed Circuit Board

13.1. Backend P.C.B. Ass'y

A BACKEND P.C.B. ASS'Y (RFKB5104A)



(SIDE A)

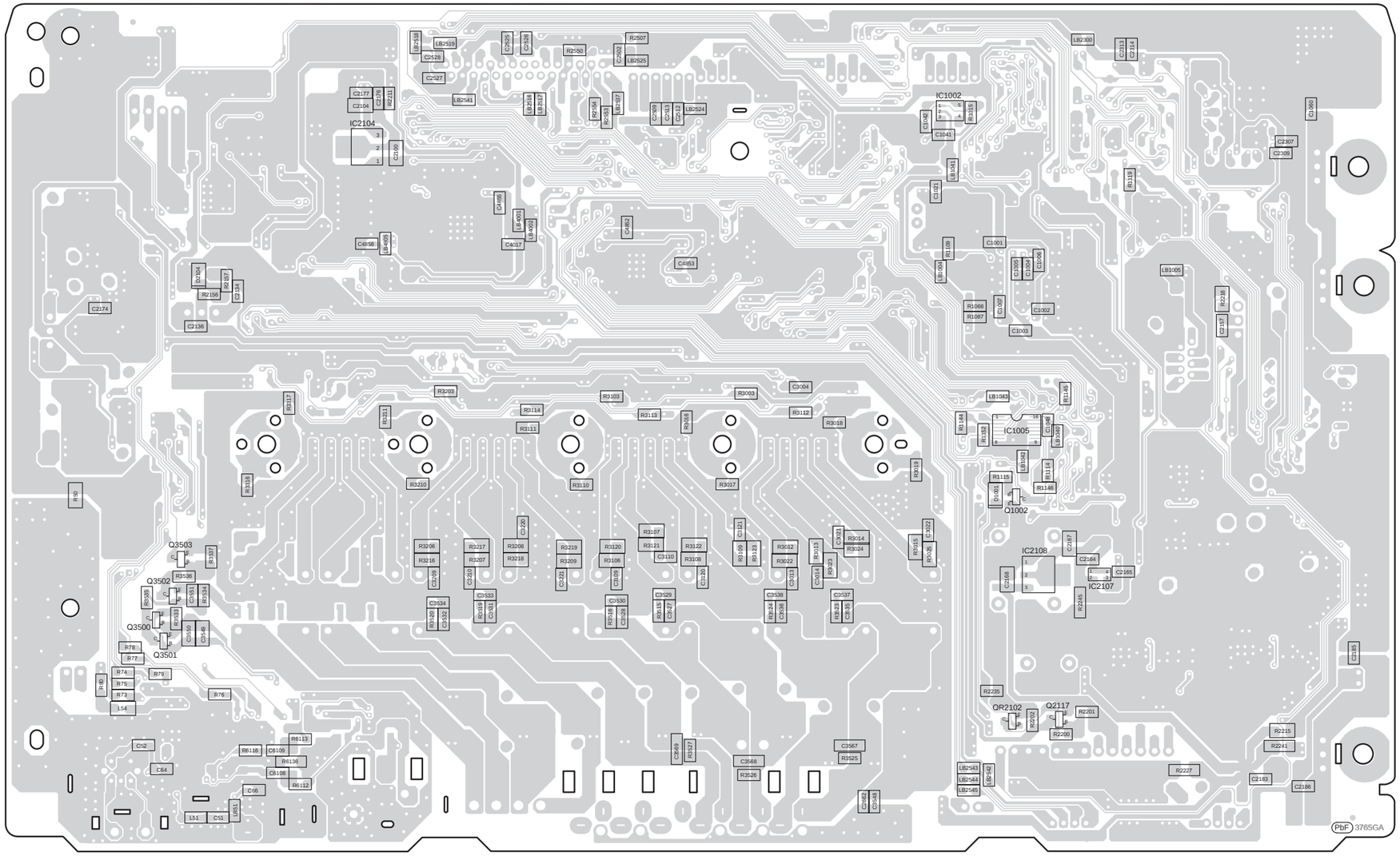


(SIDE B)

SA-VKX95EE/GA/GS
BACKEND P.C.B. ASS'Y

13.2. Main P.C.B. Ass'y (Side A)

B MAIN P.C.B. ASS'Y (RFKB5103FA...EE)
(RFKB5103DA...GA)
(RFKB5103EA...GS)

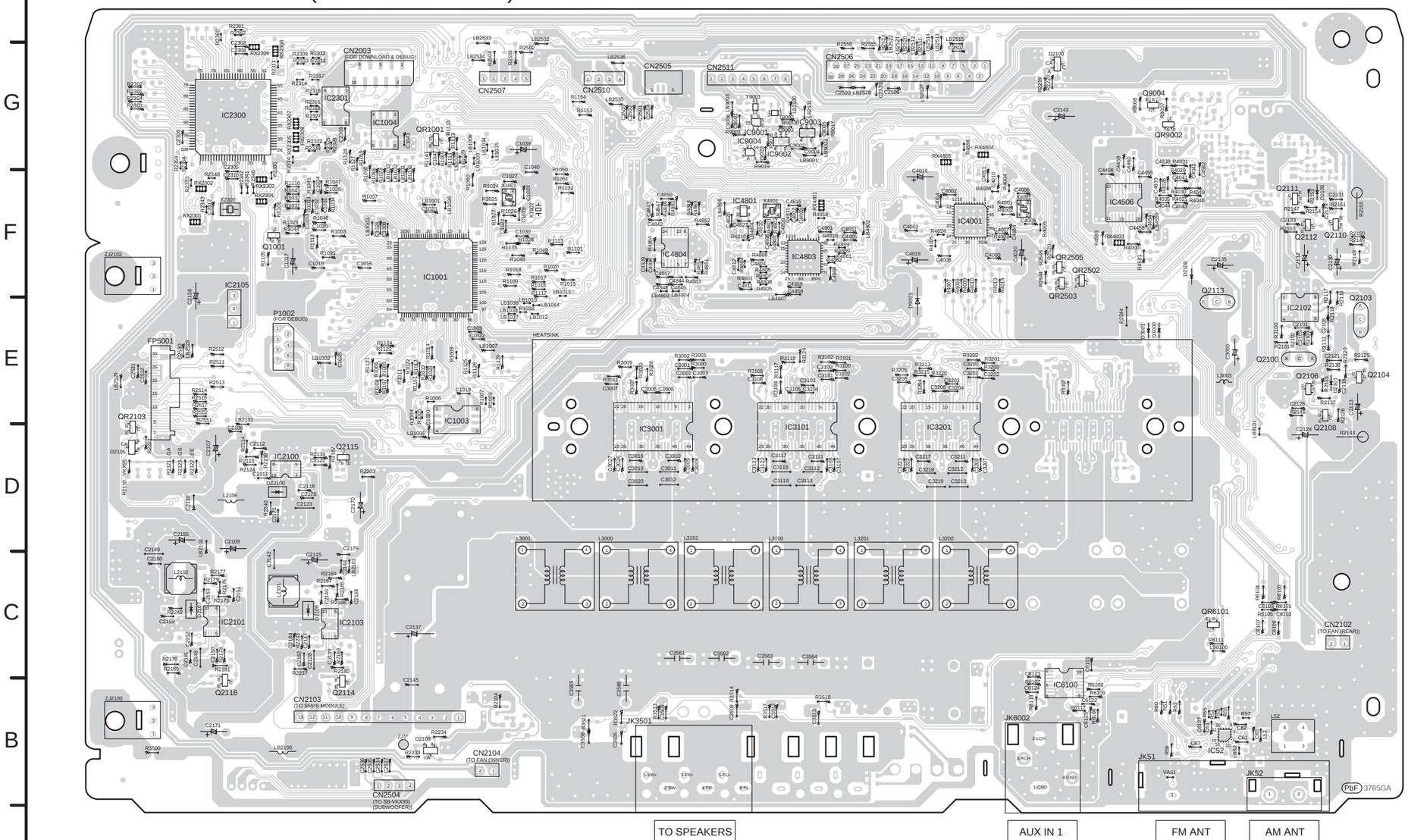


(SIDE A)

SA-VKX95EE/GA/GS
MAIN P.C.B. ASS'Y

13.3. Main P.C.B. Ass'y (Side B)

B MAIN P.C.B. ASS'Y (RFKB5103FA...EE)
(RFKB5103DA...GA)
(RFKB5103EA...GS)



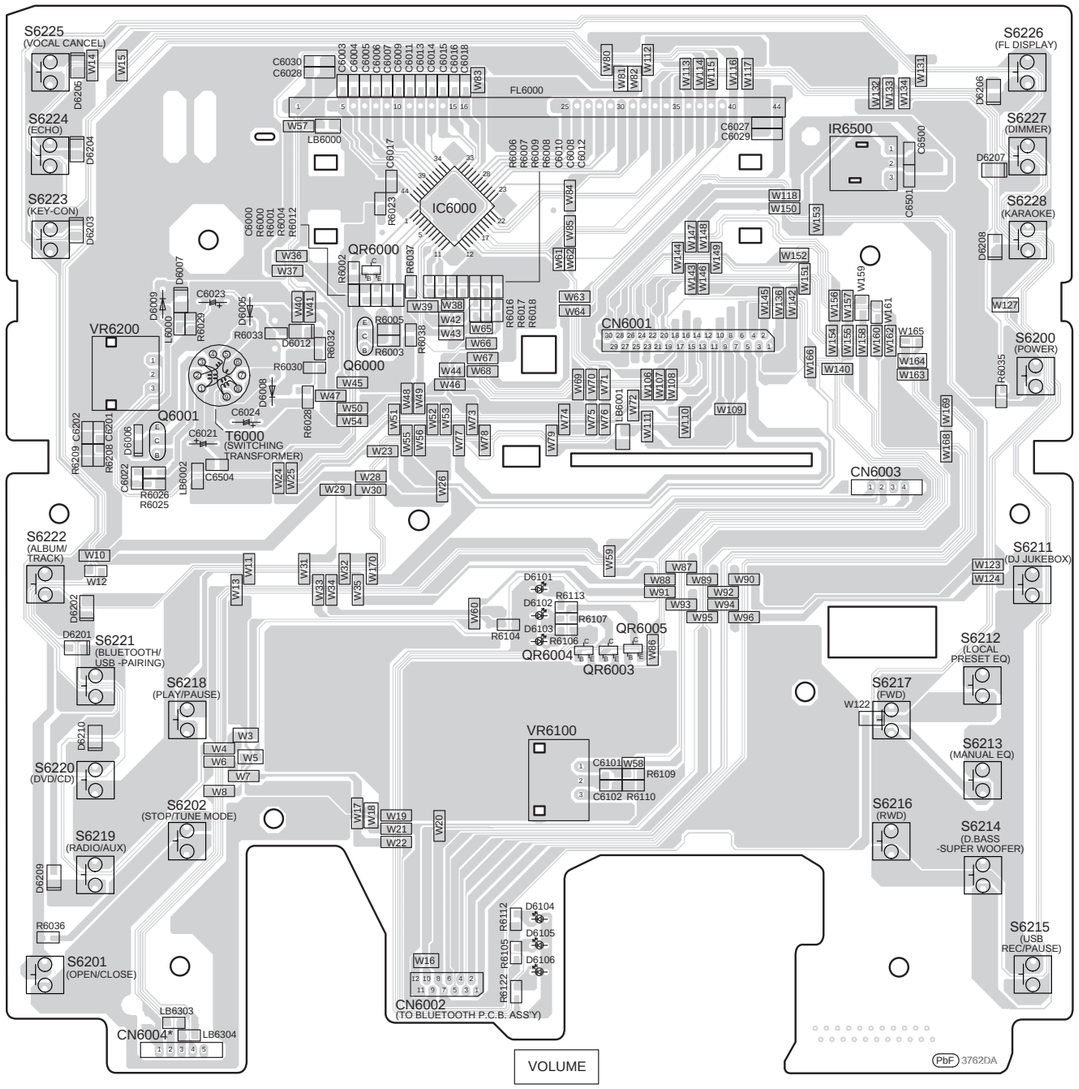
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY

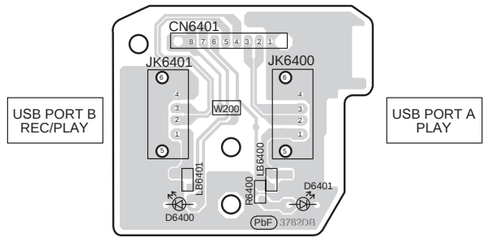
SA-VKX95EE/GA/GS
MAIN P.C.B. ASS'Y

13.4. Panel, USB & Music Port P.C.B.

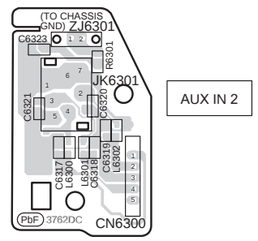
C PANEL P.C.B. (REP5139AA)



D USB P.C.B. (REP5139AB)



E MUSIC PORT P.C.B. (REP5139AA)

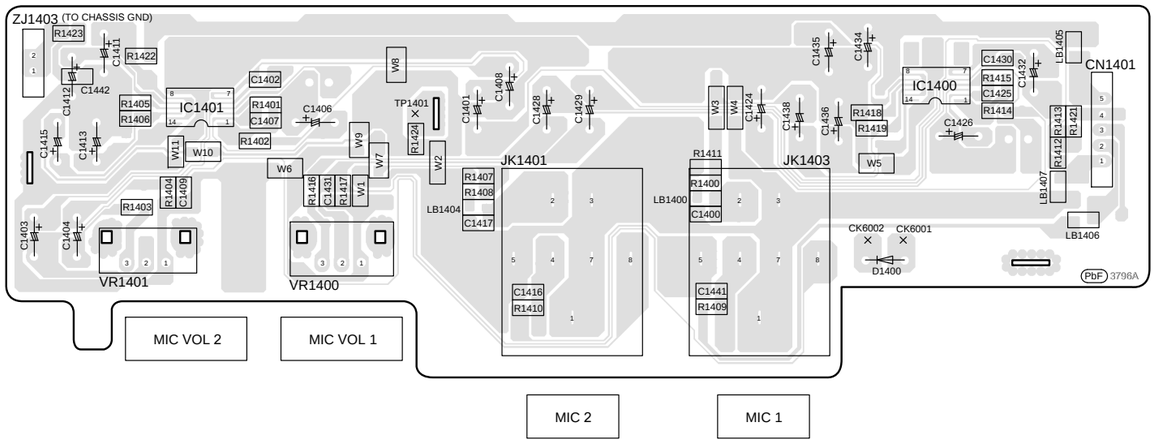


NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX95EE/GA/GS
PANEL / USB / MUSIC PORT P.C.B.

13.5. Mic P.C.B.

F MIC P.C.B. (REP5110A)



SA-AKX95EE/GA/GS
MIC P.C.B.

14 Voltage and Waveform Measurement

14.1. Voltage Measurement

Note:

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

14.1.1. Backend P.C.B. Ass'y (1/4)

REF NO.	IC3801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	5	0	0	2.2	4.9	0	0	1.6	2.2	0	0	0	0	0	0	5	2.9	2.9	0	2.9
STANDBY	5	0	0	2.2	4.9	0	0	1.6	2.2	0	0	0	0	0	0	5	2.9	2.9	0	2.9

REF NO.	IC3801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
PLAY	2.9	0	1.7	1.7	0	1.3	1.3	0	1.4	1.4	0	2.3								
STANDBY	2.9	0	1.7	1.7	0	1.3	1.3	0	1.4	1.4	0	2.3								

REF NO.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	0	0	1.2	1.4	0.1	2.8	3.3	0.1	0.1	0.1	3.3	0.1	0.1	0.1	3.4	0.1	0.1	0.1
STANDBY	0	0	0	0	1.2	1.4	0.1	2.8	3.3	0.1	0.1	0.1	3.3	0.1	0.1	0.1	3.4	0.1	0.1	0.1

REF NO.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.4	0	0	0	3.4	1.3	0	3.4	0	0	0	0	1.7	3.4	0.9	0	0	0.9	0	3.4
STANDBY	3.4	0	0	0	3.4	1.3	0	3.4	0	0	0	0	1.7	3.4	0.9	0	0	0.9	0	3.4

REF NO.	IC3901																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	1.7	1.3	1.7	0	1.7	0	1.3	0.1	0.1	0.1	0.1	3.3	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1
STANDBY	1.7	1.3	1.7	0	1.7	0	1.3	0.1	0.1	0.1	0.1	3.3	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1

REF NO.	IC3901																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	0	0	0	0	0	0	0	0	0	3.4	0.1	0	0	0	1.3	0.1	0.1	0.1	0	0.1
STANDBY	0	0	0	0	0	0	0	0	0	3.4	0.1	0	0	0	1.3	0.1	0.1	0.1	0	0.1

REF NO.	IC3901																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	0	0	3.4	1.3	0	1.7	0	0.2	0.7	0	0.7	0.6	0.3	0.8	0	0	0	0	3.4
STANDBY	0	0	0	3.4	1.3	0	1.7	0	0.2	0.7	0	0.7	0.6	0.3	0.8	0	0	0	0	3.4

REF NO.	IC3901																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	0	1.3	0	0	0	3.4	3.4	3.4	1.3	0	1.8	0	3.3	3.3	3.3	1.3	1.7	0	0	3.4
STANDBY	0	1.3	0	0	0	3.4	3.4	3.4	1.3	0	1.8	0	3.3	3.3	3.3	1.3	1.7	0	0	3.4

REF NO.	IC3901																			
MODE	121	122	123	124	125	126	127	128												
PLAY	3.4	0	1.3	3.4	0	0	0	0												
STANDBY	3.4	0	1.3	3.4	0	0	0	0												

REF NO.	IC3952																			
MODE	1	2	3	4	5															
PLAY	8.5	0	1.3	4.9	8.8															
STANDBY	8.5	0	1.3	4.9	8.8															

SA-VKX95GA/GS/EE BACKEND P.C.B. ASS'Y

14.1.2. Backend P.C.B. Ass'y (2/4)

REF NO.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	0	3.3	0	3.3	0	3.3	1.5	0.1	0.5	1.3	0.5	0.6	0	3.3	0.5	0.9	0	1.2
STANDBY	0	0	0	3.3	0	3.3	0	3.3	1.5	0.1	0.5	1.3	0.5	0.6	0	3.3	0.5	0.9	0	1.2

REF NO.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.6	0.7	1.8	1	1.4	1	2.1	2.2	0.8	1	3.3	0	3.3	1.2	1.8	1	1.4	1.4	1.8	2.1
STANDBY	1.6	0.7	1.8	1	1.4	1	2.1	2.2	0.8	1	3.3	0	3.3	1.2	1.8	1	1.4	1.4	1.8	2.1

REF NO.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	3.3	1.5	0	1.2	0.6	3.2	3.2	3.3	3.3	1.7	0	3.3	1.7	2.8	3	3.3	3.3	3.3	0	3.3
STANDBY	3.3	1.5	0	1.2	0.6	3.2	3.2	3.3	3.3	1.7	0	3.3	1.7	2.8	3	3.3	3.3	3.3	0	3.3

REF NO.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	1.6	0	0	1.2	3.3	1.9	1.6	0	3.3	3.3	3.2	3.3	3.3	0	1.4	0	3.3	3.3	3.3	3.3
STANDBY	1.6	0	0	1.2	3.3	1.9	1.6	0	3.3	3.3	3.2	3.3	3.3	0	1.4	0	3.3	3.3	3.3	3.3

REF NO.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	0	1.2	3.3	0.8	2.3	0	1.8	0	0.4	1.8	3.3	1.5	1.5	1.8	1.8	1.6	1.6	1.6	1.6
STANDBY	0	0	1.2	3.3	0.8	2.3	0	1.8	0	0.4	1.8	3.3	1.5	1.5	1.8	1.8	1.6	1.6	1.6	1.6

REF NO.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	0	0	0.2	2.3	0.2	0	3.3	0	2.2	1.6	2.3	2.3	2.4	2.5	2.4	2.4	0	0	0	0
STANDBY	0	0	0.2	2.3	0.2	0	3.3	0	2.2	1.6	2.3	2.3	2.4	2.5	2.4	2.4	0	0	0	0

REF NO.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
PLAY	1.7	2.1	1.6	1.6	0	1.7	1.6	3.3	3.3	3.3	3.3	3.3	2.4	1	1	2.4	0	0.4	0.9	0
STANDBY	1.7	2.1	1.6	1.6	0	1.7	1.6	3.3	3.3	3.3	3.3	3.3	2.4	1	1	2.4	0	0.4	0.9	0

REF NO.	IC8001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
PLAY	3.3	3.3	0	0	0	0	3.3	1.5	1.6	1.7	1.2	1.6	0	3.3	1.5	1.5	0	1.2	3	3
STANDBY	3.3	3.3	0	0	0	0	3.3	1.5	1.6	1.7	1.2	1.6	0	3.3	1.5	1.5	0	1.2	3	3

REF NO.	IC8001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
PLAY	2.9	3	2.9	3	0	3.3	3.1	3	3	3.1	3	3	0	3.3	3	2.9	3	3	2.9	2.9
STANDBY	2.9	3	2.9	3	0	3.3	3.1	3	3	3.1	3	3	0	3.3	3	2.9	3	3	2.9	2.9

REF NO.	IC8001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
PLAY	3.3	0	1.5	3.3	1.5	0	1.2	3.2	3.2	3	1.4	0	1.7	0	0	3.3	1.7	0	0	1.6
STANDBY	3.3	0	1.5	3.3	1.5	0	1.2	3.2	3.2	3	1.4	0	1.7	0	0	3.3	1.7	0	0	1.6

REF NO.	IC8001																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
PLAY	0.1	1.7	0.4	0	3.3	2	0.3	1.2	1.2	0	1.2	1.9	2.6	2.5	3.3	0				
STANDBY	0.1	1.7	0.4	0	3.3	2	0.3	1.2	1.2	0	1.2	1.9	2.6	2.5	3.3	0				

REF NO.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.4	3.2	3.4	3.2	3.2	3.2	3.1	3.4	3.2	3.2	0.1	3.2	0.1	3.0	3.4	3.3	3.3	3.3	3.3	1.9
STANDBY	3.4	3.2	3.4	3.2	3.2	3.2	3.1	3.4	3.2	3.2	0.1	3.2	0.1	3.0	3.4	3.3	3.3	3.3	3.3	1.9

SA-VKX95GA/GS/EE BACKEND P.C.B. ASS'Y

14.1.3. Backend P.C.B. Ass'y (3/4)

REF NO.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.6	0.1	0.2	0.5	0.6	1.5	3.4	0.1	0	1.9	1.7	1.6	0.1	0.1	0.1	0.1	3.4	1.6	2.9	0
STANDBY	1.6	0.1	0.2	0.5	0.6	1.5	3.4	0.1	0	1.9	1.7	1.6	0.1	0.1	0.1	0.1	3.4	1.6	2.9	0

REF NO.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
PLAY	0.1	3.2	3.4	3.2	3.2	0.1	3.2	3.2	3.4	3.2	3.1	0.1	3.1	0.1						
STANDBY	0.1	3.2	3.4	3.2	3.2	0.1	3.2	3.2	3.4	3.2	3.1	0.1	3.1	0.1						

REF NO.	IC8111																			
MODE	1	2	3	4	5	6	7													
PLAY	5.2	0	5.2	0	0.9	3.4	1.2													
STANDBY	4.9	0	5.2	0	0.9	3.4	1.2													

REF NO.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.6	5.9	2.6	1.6	2.6	0	0	5.9	0	0	3.1	2.9	2.9	3.1	3	3.1	3.6	2.5	5.9	2.4
STANDBY	1.6	5.9	2.6	1.6	2.6	0	0	5.9	0	0	3	3	3	3	3	3	3	3	5.9	2.4

REF NO.	IC8251																			
MODE	21	22	23	24	25	26	27	28	29	30										
PLAY	1.5	0	1.8	5.9	5.9	1.6	1.6	3.3	0	0										
STANDBY	1.5	0	1.6	5.9	5.9	1.6	1.6	3.3	0	0										

REF NO.	IC8252																			
MODE	1	2	3	4	5															
PLAY	2.5	0	2.5	2.1	5															
STANDBY	2.5	0	2.5	2.1	5															

REF NO.	IC8701																			
MODE	1	2	3	4	5															
PLAY	0	0	0	1.7	3.4															
STANDBY	0	0	0	1.7	3.4															

REF NO.	IC8901																			
MODE	1	2	3	4	5															
PLAY	3.3	3.3	0	3.4	3.4															
STANDBY	3.3	3.3	0	3.4	3.4															

REF NO.	IC9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	1.2	2.5	1.4	1.1	2.1	1.2	2.1	2.1	0	2.5	2.1	2.1	1.2	2.2	1.1	1.3	2.5	1.3	3.4
STANDBY	0	0.9	2.7	0.9	0.7	2.6	0.7	0	2.6	0	2.9	2.6	2.5	0.7	2.6	0.7	0.8	2.7	0.9	3.4

REF NO.	IC9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	3.2	0	0	0	0	3.2	3.2	0	0	0	0	3.4	3.2	0	0	0	0	3.3	3.3
STANDBY	0	3.2	0	0	0	0	3.2	3.2	0	0	0	0	3.4	3.2	0	0	0	0	3.3	3.3

REF NO.	IC9003																			
MODE	1	2	3	4	5	6														
PLAY	1.5	0	1.6	1.7	3.3	1.6														
STANDBY	1.5	0	1.6	1.7	3.3	1.6														

REF NO.	Q3901				Q3902				Q3903				Q8551				Q8552			
MODE	E	C	B		S	D	G		S	D	G		E	C	B		E	C	B	
PLAY	0	4.2	0.1		3.2	4.8	3.3		3.2	4.8	3.2		0	5.1	0		5.0	0	5.0	
STANDBY	0	4.3	0.1		3.2	4.8	3.2		3.2	4.8	3.2		0	5.1	0		5.1	0	5.1	

SA-VKX95GA/GS/EE BACKEND P.C.B. ASS'Y

14.1.4. Backend P.C.B. Ass'y (4/4)

REF NO.	Q8561				Q8562				Q8563				Q8564				Q8565			
MODE	E	C	B		E	C	B		S	D	G		S	D	G		E	C	B	
PLAY	1.9	3.3	2.5		4.0	1.8	3.4		0	0	5.0		0	0	5.0		0	4.4	0	
STANDBY	0	5.1	0		5.2	0	5.2		0	0	5.0		0	0	5.0		0	4.4	0	

SA-VKX95GA/GS/EE BACKEND P.C.B. ASS'Y

14.1.5. Main P.C.B. Ass'y (1/5)

REF NO.	IC1001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	3.3	3.3	3.3	1.4	3.3	0	3.3	3.3	0	3.3	0	0	3.3	0	0	3.3	1.6	0	0
STANDBY	3.3	3.3	3.3	3.3	1.4	3.3	0	3.3	3.3	0	3.3	0	0	3.3	0	0	3.3	1.6	0	0

REF NO.	IC1001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3	3.3	0.1	3	0	0.6	3.2	2.2	3.3	0	3.3	0.1	1.6	1.6	0.9	0	0	1.3	1.3	0.2
STANDBY	3	3.3	0.1	3	0	0.6	3.2	2.2	3.3	0	3.3	0.1	1.6	1.6	0.9	0	0	1.3	1.3	0.2

REF NO.	IC1001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0.7	0	3.3	3.3	1.1	1.1	3.3	3.3	3.3	1.7	1.7	1.7	0	1.6	1.6	1.4	1.4	0.1	0.5	1.6
STANDBY	0.7	0	3.3	3.3	1.1	1.1	3.3	3.3	3.3	1.7	1.7	1.7	0	1.6	1.6	1.4	1.4	0.1	0.5	1.6

REF NO.	IC1001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	1.7	1.7	1.7	1.7	1.7	0	1.5	1.5	1.5	1.5	0	0	3.3	3.3	3.3	3.3	1.7	3.3	3.3	0
STANDBY	1.7	1.7	1.7	1.7	1.7	0	1.5	1.5	1.5	1.5	0	0	3.3	3.3	3.3	3.3	1.7	3.3	3.3	0

REF NO.	IC1001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	1.7	1.7	0.9	0	3.3	1.4	3.3	3.3	0	0	1.6	0	3.2	0	3.3	0	0	0	0
STANDBY	0	1.7	1.7	0.9	0	3.3	1.4	3.3	3.3	0	0	1.6	0	3.2	0	3.3	0	0	0	0

REF NO.	IC1001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	1.6	3.3	3.3	0	3.1	3.1	3.3	3.3	2	1.7	1.7	1.5	3.3	0	0	3.3	3.3	3.3	3.3	3.3
STANDBY	1.6	3.3	3.3	0	3.1	3.1	3.3	3.3	2	1.7	1.7	1.5	3.3	0	0	3.3	3.3	3.3	3.3	3.3

REF NO.	IC1001																			
MODE	121	122	123	124	125	126	127	128												
PLAY	3.3	3.3	0	1.5	1.6	0	1.4	1.5												
STANDBY	3.3	3.3	0	1.5	1.6	0	1.4	1.5												

REF NO.	IC1002																			
MODE	1	2	3	4	5															
PLAY	3.3	3.3	0	0	1.9															
STANDBY	3.3	3.3	0	0	1.9															

REF NO.	IC1005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	0	1.2	0.8	1.2	1.6	1.6	1.6	0	1.6	1.7	1.6	0	0	0	0	3.3				
STANDBY	0	1.2	0.8	1.2	1.6	1.6	1.6	0	1.6	1.7	1.6	0	0	0	0	3.3				

REF NO.	IC2100																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	4.7										
STANDBY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	4.7										

REF NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	4.7										
STANDBY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	4.7										

REF NO.	IC2102																			
MODE	1	2	3	4	5	6	7	8												
PLAY	8.6	1.6	1.6	0	1.6	1.6	8.6	15.3												
STANDBY	8.6	1.6	1.6	0	1.6	1.6	8.6	15.3												

SA-VKX95GA/GS/EE MAIN P.C.B. ASS'Y

14.1.6. Main P.C.B. Ass'y (2/5)

REF NO.	IC2103																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	21.3	39.5	3.1	2.1	0.5	0	0.8	0.7	0	15.2										
STANDBY	21.3	39.5	3.1	2.1	0.5	0	0.8	0.7	0	15.2										

REF NO.	IC2104																			
MODE	1	2	3																	
PLAY	0	3.3	5.5																	
STANDBY	0	3.3	5.5																	

REF NO.	IC2105																			
MODE	1	2	3																	
PLAY	15.4	0	9.2																	
STANDBY	15.4	0	9.2																	

REF NO.	IC2107																			
MODE	1	2	3	4																
PLAY	3.3	0	1.6	3.3																
STANDBY	3.3	0	1.6	3.3																

REF NO.	IC2108																			
MODE	1	2	3																	
PLAY	0	3.3	5																	
STANDBY	0	3.3	5																	

REF NO.	IC2300																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	3.3	3.3	3.3	3.3	0	0	-	1	3.3	1.7	0	1.4	3.3	1.7	0	0	0	0	2.8
STANDBY	0	3.3	3.3	3.3	3.3	0	0	-	1	3.3	1.7	0	1.4	3.3	1.7	0	0	0	0	2.8

REF NO.	IC2300																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3	1.6	0	0	0	3.2	2.2	0.6	0	3.3	0	0	3.3	3.3	0	0	0	0	0	0
STANDBY	3	1.6	0	0	0	3.2	2.2	0.6	0	3.3	0	0	3.3	3.3	0	0	0	0	0	0

REF NO.	IC2300																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	0	0	3.3	0	0	0	0	0	3.3	3.3	0	0	0	3.3	0	0	0	0	3.3
STANDBY	0	0	0	3.3	0	0	0	0	0	3.3	3.3	0	0	0	3.3	0	0	0	0	3.3

REF NO.	IC2300																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC2300																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	0	0	0	0	0	0.4	2	1.5	1.5	0	1.5	1.5	0	1.5	3.3	3.3	0	3.2	3.3
STANDBY	0	0	0	0	0	0	0.4	2	1.5	1.5	0	1.5	1.5	0	1.5	3.3	3.3	0	3.2	3.3

REF NO.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0

REF NO.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19

SA-VKX95GA/GS/EE MAIN P.C.B. ASS'Y

14.1.7. Main P.C.B. Ass'y (3/5)

REF NO.	IC3001																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																

REF NO.	IC3101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0

REF NO.	IC3101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19

REF NO.	IC3101																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																

REF NO.	IC3201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0

REF NO.	IC3201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19

REF NO.	IC3201																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																

REF NO.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	3.3	3.3	3.3	3.3	0	1.4	1.3	1.7	1.6	3.3	3.3	1.5	1.5	0	1.4	0	0	1.7	1.6
STANDBY	0	3.3	3.3	3.3	3.3	0	1.4	1.3	1.7	1.6	3.3	3.3	1.5	1.5	0	1.4	0	0	1.7	1.6

REF NO.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	0	1.5	3.3	0	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	0	0	0	0	3.3
STANDBY	3.3	0	1.5	3.3	0	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	0	0	0	0	3.3

REF NO.	IC4001																			
MODE	41	42	43	44	45	46	47	48												
PLAY	1.5	1.5	0	0	3.3	0	0	0												
STANDBY	1.5	1.5	0	0	3.3	0	0	0												

REF NO.	IC4506																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	1.7	0	-1.6	-3.2	0	0	3.3	0	0	0	0	1.6	1.3	1.7	0	3.3	1.9	0	3.3
STANDBY	3.3	1.7	0	-1.6	-3.2	0	0	3.3	0	0	0	0	1.6	1.3	1.7	0	3.3	1.9	0	3.3

REF NO.	IC4801																			
MODE	1	2	3	4																
PLAY	3.3	0	1.8	3.3																
STANDBY	3.3	0	1.8	3.3																

SA-VKX95GA/GS/EE MAIN P.C.B. ASS'Y

14.1.8. Main P.C.B. Ass'y (4/5)

REF NO.	IC4803																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.8	0	3	1.7	1.8	0	0.8	1.2	1.2	1.8	3.3	0	1.3	1.6	3.3	3.3	3.3	1.8	3.3	0
STANDBY	1.8	0	3	1.7	1.8	0	0.8	1.2	1.2	1.8	3.3	0	1.3	1.6	3.3	3.3	3.3	1.8	3.3	0

REF NO.	IC4803																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	3.3	3.3	0	0	16.8	0	0	3	16.8	16.8	0.6	0	3	16.8	0	0	0.3	0	0
STANDBY	3.3	3.3	3.3	0	0	16.8	0	0	3	16.8	16.8	0.6	0	3	16.8	0	0	0.3	0	0

REF NO.	IC4803																			
MODE	41	42	43	44	45	46	47	48												
PLAY	0	0	0	0	0	1.5	3.3	1.6												
STANDBY	0	0	0	0	0	1.5	3.3	1.6												

REF NO.	IC4804																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	2.8	0	5.5	3.3	0	1.7	1.6	1.6	1.3	0	0	0	2.8	2.8						
STANDBY	2.8	0	5.5	3.3	0	1.7	1.6	1.6	1.3	0	0	0	2.8	2.8						

REF NO.	IC6100																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	0	0	0	0	0	0	0	0	12.5	12.5	0	0	0	0	0	12.5				
STANDBY	0	0	0	0	0	0	0	0	12.5	12.5	0	0	0	0	0	12.5				

REF NO.	IC9001																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	0	0	0	0	0	1	1.4	0	3.3	0										
STANDBY	0	0	0	0	0	1	1.4	0	3.3	0										

REF NO.	IC9002																			
MODE	1	2	3	4	5															
PLAY	0	0	3.3	0	5.1															
STANDBY	0	0	3.3	0	5.1															

REF NO.	IC9003																			
MODE	1	2	3	4	5															
PLAY	5.1	0	3.3	3.3	5.1															
STANDBY	5.1	0	3.3	3.3	5.1															

REF NO.	IC9004																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	0	0	0	0	0	1	1.4	0	3.3	0										
STANDBY	0	0	0	0	0	1	1.4	0	3.3	0										

REF NO.	Q1001				Q1002				Q2100				Q2103				Q2104			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	0	0.6		0	0	23.9		7.9	15.3	8.5		7.8	15.3	8.4		0.2	11.1	0.2	
STANDBY	0	0	0.6		0	0	23.9		7.9	15.3	8.5		7.8	15.3	8.4		0.2	11.1	0.2	

REF NO.	Q2106				Q2108				Q2110				Q2111				Q2112			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	0	0.7		0	3.2	0		0.4	5.1	1		0	0	0.3		0	3.2	0	
STANDBY	0	0	0.7		0	3.2	0		0.4	5.1	1		0	0	0.3		0	3.2	0	

REF NO.	Q2113				Q2117				Q3500				Q3501				Q3502			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	12.5	15.3	13.1		5	4.9	4.3		19.7	39	19.7		19.7	39	19.7		39.5	0	39.4	
STANDBY	12.5	15.3	13.1		5	4.9	4.3		19.7	39	19.7		19.7	39	19.7		39.5	0	39.4	

SA-VKX95GA/GS/EE MAIN P.C.B. ASS'Y

14.1.9. Main P.C.B. Ass'y (5/5) , Mic & Panel P.C.B.

REF NO.	Q3503				Q9004				QR2102				QR2502				QR2503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	3.2	0		5.5	0	5.1		0	0	3.1		0	0	0		0	0	3.2	
STANDBY	0	3.2	0		5.5	0	5.1		0	0	3.1		0	0	0		0	0	3.2	

REF NO.	QR2505				QR6101				QR9002											
MODE	E	C	B		E	C	B		E	C	B									
PLAY	0	0	0		0	12.2	0		0	6.2	0									
STANDBY	0	0	0		0	12.2	0		0	6.2	0									

SA-VKX95GA/GS/EE MAIN P.C.B. ASS'Y

REF NO.	IC1400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6.2	6.2	6.2	6.2	6.2	6.3	6.3	0	12.3	6.1	0.2	0	12.3	6.2						
STANDBY	6.2	6.2	6.2	6.2	6.2	6.3	6.3	0	12.3	6.1	0.2	0	12.3	6.2						

REF NO.	IC1401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6.2	6.2	6.1	6.1	6.1	6.2	6.2	0	12.3	6.1	0.2	0	12.3	6.1						
STANDBY	6.2	6.2	6.1	6.1	6.1	6.2	6.2	0	12.3	6.1	0.2	0	12.3	6.1						

SA-VKX95GA/GS/EE MIC P.C.B.

REF NO.	IC6000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	0	0	1.9	3.3	1.3	0	2.9	0	0	0	3.3	-15.9	-15.9	-19.6	-23.3	-21.4	-23.3	-21.4
STANDBY	0	0	0	0	1.9	3.3	1.3	0	2.9	0	0	0	3.3	-15.9	-15.9	-19.6	-23.3	-21.4	-23.3	-21.4

REF NO.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	-23.3	-23.3	-21.4	-23.3	-15.9	-19.6	-15.9	-21.4	-23.3	-23.7	-22	-21.6	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4
STANDBY	-23.3	-23.3	-21.4	-23.3	-15.9	-19.6	-15.9	-21.4	-23.3	-23.7	-22	-21.6	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4	-21.4

REF NO.	IC6000																			
MODE	41	42	43	44																
PLAY	-21.5	-21.8	3.3	0																
STANDBY	-21.5	-21.8	3.3	0																

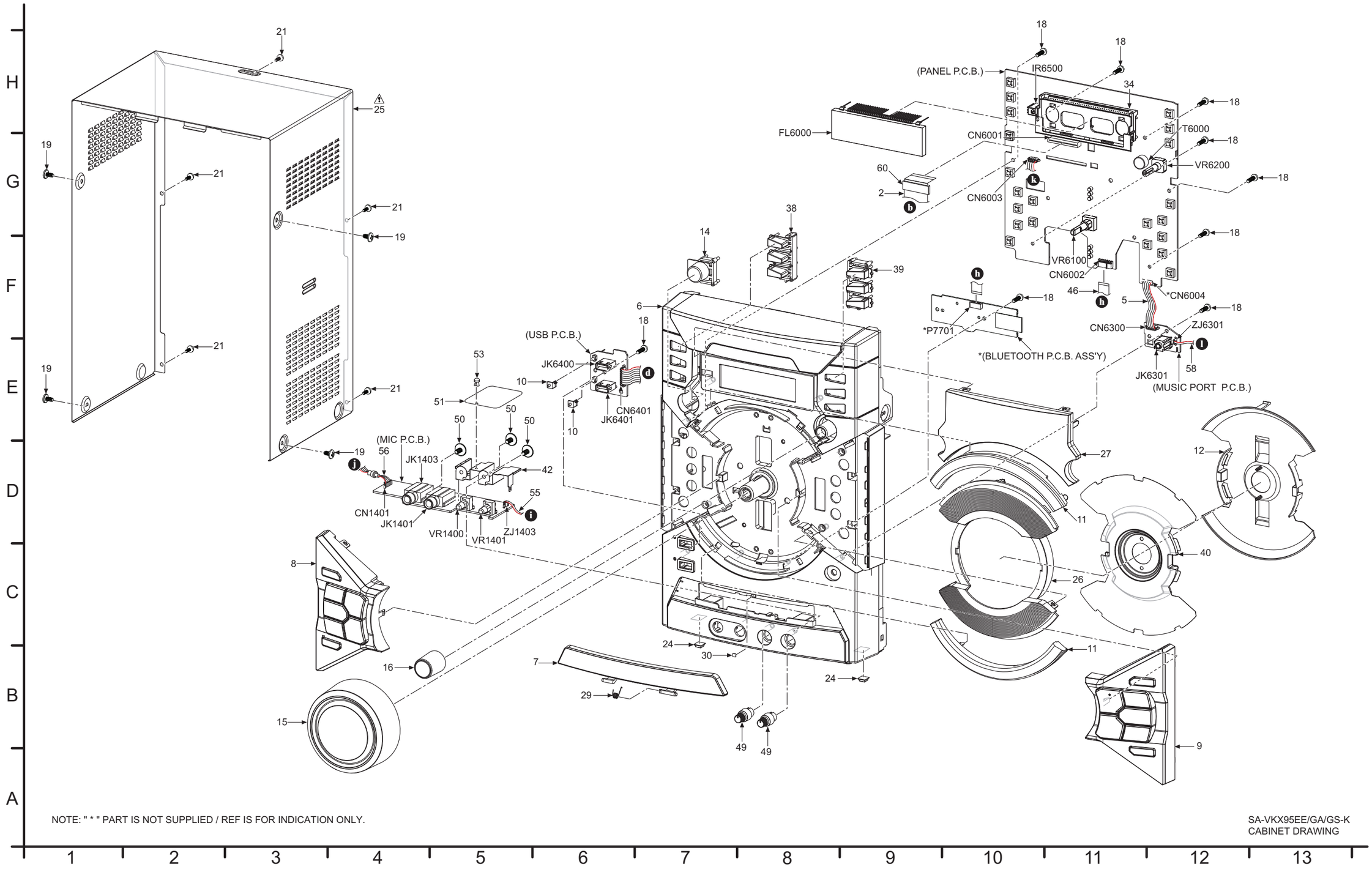
REF NO.	Q6000				Q6001				QR6000				QR6003				QR6004			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	1.7	4.8	2.1		0	15.5	-0.2		0	4	0		0	3.8	0		0	3	0	
STANDBY	1.7	4.8	2.1		0	15.5	-0.2		0	4	0		0	3.8	0		0	3	0	

REF NO.	QR6005																			
MODE	E	C	B																	
PLAY	0	0	3.2																	
STANDBY	0	0	3.2																	

SA-VKX95GA/GS/EE PANEL P.C.B.

15 Exploded View and Replacement Parts List

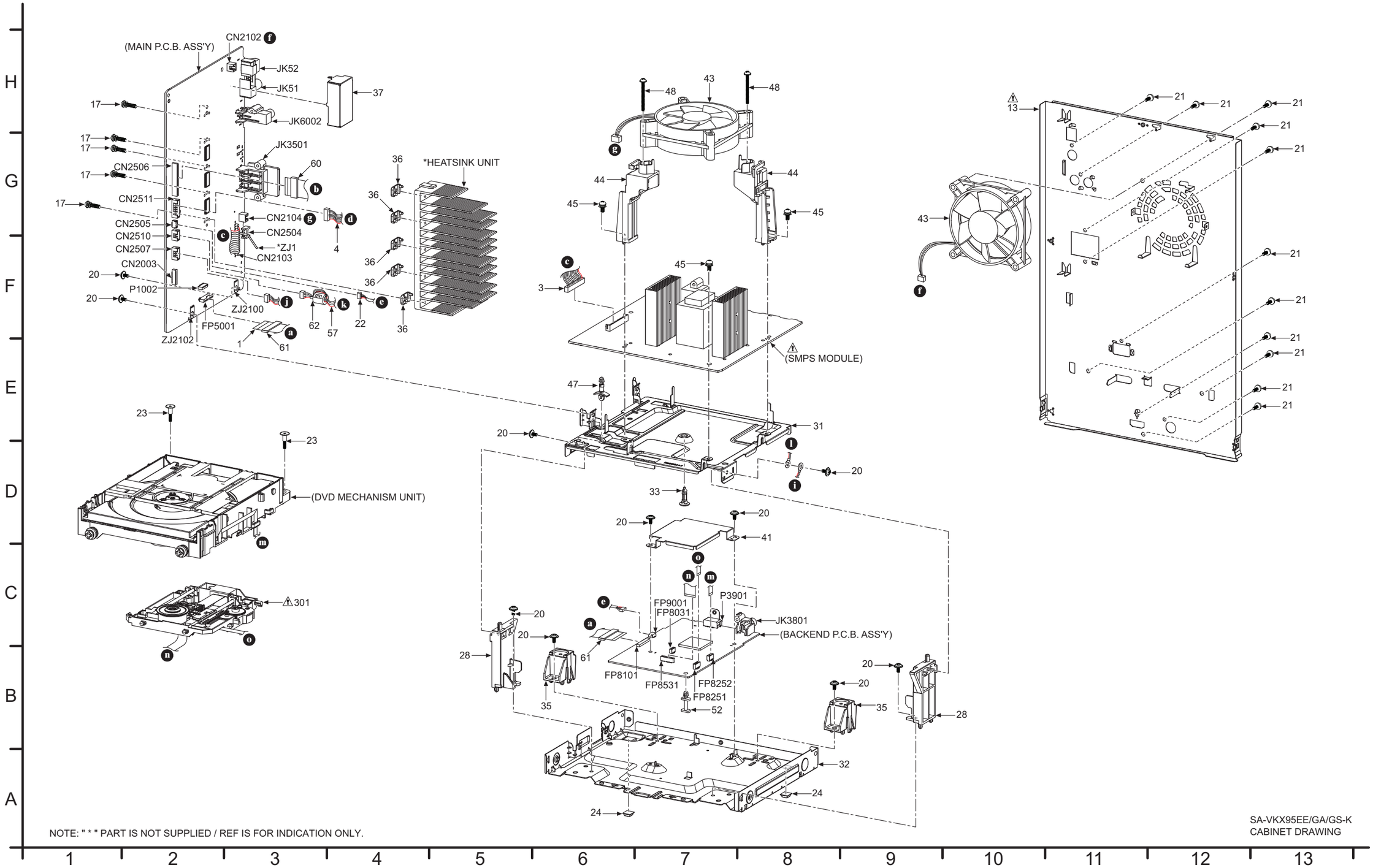
15.1. Cabinet Parts Location 1



NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SA-VKX95EE/GA/GS-K
CABINET DRAWING

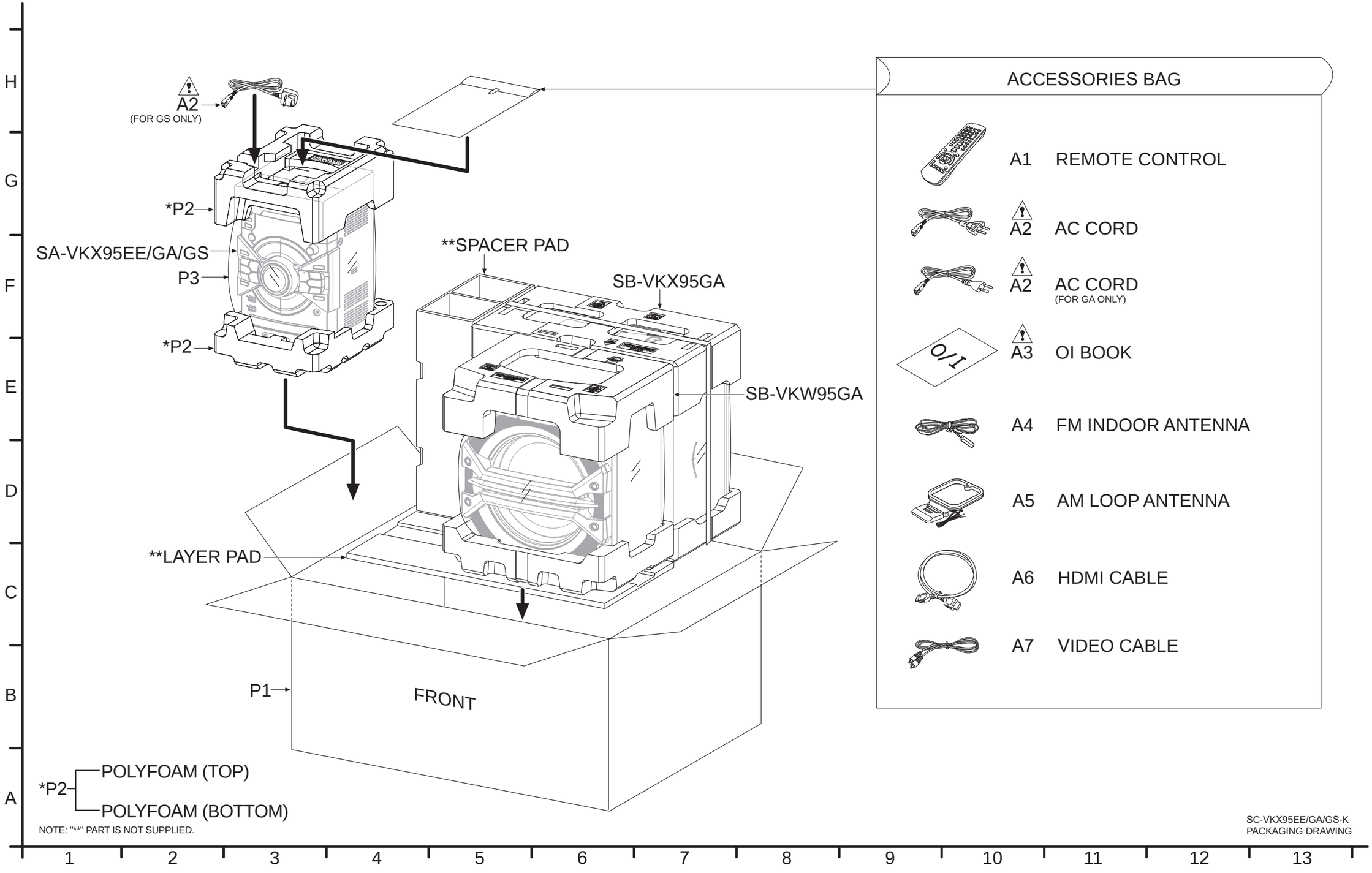
15.2. Cabinet Parts Location 2



NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SA-VKX95EE/GA/GS-K
CABINET DRAWING

15.3. Packaging



15.4. Mechanical Replacement Part List

Important Safety Notice

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

RTL (Retention Time Limited)

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

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE1999	30P FFC (MAIN-BACKEND)	1	
	2	REE1942	30P FFC (MAIN-PANEL)	1	
	3	REX1687	13P WIRE (SMPS-MAIN)	1	
	4	REX1698	8P WIRE (USB-MAIN)	1	
	5	REX1734	5P WIRE (MUSIC PORT-PANEL)	1	
	6	RGP1692E-K	FRONT PANEL	1	
	7	RGK2544-K	CD LID	1	
	8	RFKNVKX95GAL	LEFT BUTTON ORNAMENT ASS'Y	1	
	9	RFKNVKX95GAR	RIGHT BUTTON ORNAMENT ASS'Y	1	
	10	RGL0800-Q	USB REC LIGHT PIECE	2	
	11	RGK2449-K	RING ORNAMENT (TOP/BOTTOM)	2	
	12	RGC0050-W1	VOLUME LIGHT REFLECTOR	1	
⚠	13	RGR0443X-A1A	REAR PANEL	1	GA
⚠	13	RGR0443X-B1A	REAR PANEL	1	GS
⚠	13	RGR0443X-C1A	REAR PANEL	1	EE
	14	RGU2948-K	POWER BUTTON	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	15	RGW0446-1S	VOLUME KNOB	1	
	16	RGW0435-K	SKIP KNOB	1	
	17	RHD26043-1	SCREW	5	
	18	RHD26046-L	SCREW	9	
	19	RHD30007-K2J	SCREW	4	
	20	RHD30111-31	SCREW	10	
	21	RHD30119-S	SCREW	16	
	22	REX1745	5P WIRE (MAIN-BACKEND)	1	
	23	RHDX031008	SCREW	2	
	24	RKAX0042-K	LEG CUSHION	4	
⚠	25	RKM0713-K1	TOP CABINET	1	
	26	RKW1027-Q	CENTER ORNAMENT	1	
	27	RKW1063B-Q	FL WINDOW	1	
	28	RMA2442-1	CHASSIS SUPPORT	2	
	29	RMB0930	CD LID SPRING	1	
	30	RMGX0033A-K	CD LID CUSHION	1	
	31	RMK0841-1	INNER CHASSIS	1	
	32	RMKX1031A-1	BOTTOM CHASSIS	1	
	33	RMNX0298	PCB SPACER	1	
	34	RMNV0079-1	FL HOLDER	1	
	35	RMQ2134	MECHA SUPPORT	2	
	36	RMZX1022-1	PCB SPACER	5	
	37	RSC1230	TUNER SHIELD	1	
	38	RGU2949-K	LEFT PLAYLIST BUTTON	1	
	39	RGU2950-K	RIGHT PLAYLIST BUTTON	1	
	40	RFKNAKX38PHK	VOLUME LIGHT DIFFUSER ASS'Y	1	
	41	RSC1295	BACKEND PCB SHIELD	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	42	RSC1296	MIC PCB SHIELD	1	
	43	L6FALEFH0030	FAN UNIT	2	
	44	RMKX1016-4	FAN FIXTURE	2	
	45	RHDX30005-J	SCREW	3	
	46	REE1743	12P FFC (PANEL-BLUETOOTH)	1	
	47	RMX0510	SMPS PCB SPACER	1	
	48	XTW3+30TFJ	SCREW	2	
	49	RGW0450-K	MIC VOLUME KNOB	2	
	50	RHD26016-1L	SCREW	3	
	51	RMA2526	SHIELD PLATE	1	
	52	RMX0524	PCB SPACER	1	
	53	RMX0532	RIVET SPACER	1	
	55	REX1766	2P GROUND WIRE (MIC-INNER CHASSIS)	1	
	56	REX1759-1	5P WIRE (MIC-MAIN)	1	
	57	REX1804	4P WIRE (PANEL-MAIN)	1	
	58	REX1766	P GROUND WIRE (MUSIC PORT-INNER CHASSIS)	1	
	60	J0KD00000015	FERRITE CORE	2	
	61	J0KD00000147	FERRITE CORE	2	
	62	J0KG00000011	FERRITE CORE	1	
			TRAVERSE DECK		
⚠	301	RAE2405Z-V	TRAVERSE UNIT	1	
			PACKING MATERIALS		
	P1	RPG0N30-2	PACKING CASE	1	GA
	P1	RPG0N31-2	PACKING CASE	1	GS
	P1	RPG0N32-2	PACKING CASE	1	EE
	P2	RPN2658	POLYFOAM	1	
	P3	RPFX0198-1	MIRAMAT	1	
			ACCESSORIES		
	A1	N2QAYB000998	REMOTE CONTROL	1	
⚠	A2	K2CP2YY00061	AC CORD	1	GA
⚠	A2	K2CQ2YY00119	AC CORD	1	
⚠	A2	K2CT2YY00097	AC CORD	1	GS
⚠	A3	RQT9950-1B	O/I BOOK (En)	1	GA/GS
⚠	A3	RQT9953-1R	O/I BOOK (Ru,Ur)	1	EE
⚠	A3	RQT9956-1G	O/I BOOK (Pe,Ar)	1	GS
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	N1DYYYY00011	AM LOOP ANTENNA	1	
	A6	K1HA19CY0001	HDMI CABLE	1	
	A7	K2KA2BA00001	VIDEO CABLE	1	

15.5. Electrical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	RFKB5103EA	MAIN P.C.B ASS'Y	1	(E.S.D) GS, JIGS&ADJ (RTL)
	PCB1	RFKB5103FA	MAIN P.C.B ASS'Y	1	(E.S.D) EE, JIGS&ADJ (RTL)
	PCB1	RFKB5103DA	MAIN P.C.B ASS'Y	1	(E.S.D) GA, JIGS&ADJ (RTL)
	PCB2	RFKV5103EB	BLUETOOTH P.C.B ASS'Y	1	(E.S.D) GS
	PCB2	RFKV5103FB	BLUETOOTH P.C.B ASS'Y	1	(E.S.D) EE
	PCB2	RFKV5103DB	BLUETOOTH P.C.B ASS'Y	1	(E.S.D) GA
	PCB3	REP5110A	MIC P.C.B	1	(RTL)
	PCB4	RFKB5104A	BACKEND P.C.B ASS'Y	1	JIGS & ADJ
	PCB5	REP5139AA	PANEL P.C.B	1	(RTL)
	PCB6	REP5139AB	USB P.C.B	1	(RTL)
	PCB7	REP5139AA	MUSIC PORT P.C.B	1	(RTL)
⚠	PCB8	N0AC2GP00002	SMPS MODULE	1	
			INTEGRATED CIRCUITS		
	IC52	VUEALLPT087	IC	1	(E.S.D)
	IC1001	C1AB00004188	IC	1	(E.S.D)
	IC1002	C0EBE0000338	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC1003	RFKWFVKX95GM	IC	1	(E.S.D) JIGS & ADJ
	IC1004	RFKWEVKX95GM	IC	1	(E.S.D) JIGS & ADJ
	IC1005	C0JBAR000596	IC	1	(E.S.D)
	IC1400	C1AB00003130	IC	1	(E.S.D)
	IC1401	C1AB00003130	IC	1	(E.S.D)
	IC2100	C0DBAYY01594	IC	1	(E.S.D)
	IC2101	C0DBAYY01594	IC	1	(E.S.D)
	IC2102	C0ABBB000342	IC	1	(E.S.D)
	IC2103	C0DBAYY01594	IC	1	(E.S.D)
	IC2104	C0DBGYY03909	IC	1	(E.S.D)
	IC2105	C0DAZYY00001	IC	1	(E.S.D)
	IC2107	C0DBGYY00911	IC	1	(E.S.D)
	IC2108	C0DBGYY03909	IC	1	(E.S.D)
	IC2300	RFKWMVKX95GM	IC	1	(E.S.D) JIGS & ADJ
	IC2301	C3EBFY000030	IC	1	(E.S.D)
	IC3001	C1AB00003986	IC	1	(E.S.D)
	IC3101	C1AB00003986	IC	1	(E.S.D)
	IC3201	C1AB00003986	IC	1	(E.S.D)
	IC3801	C9ZB00000461	IC	1	(E.S.D)
	IC3901	MN864702A	IC	1	(E.S.D)
	IC3952	C0CBCDC00063	IC	1	(E.S.D)
	IC4001	VUEALLPT090	IC	1	(E.S.D)
	IC4506	C1AB00004031	IC	1	(E.S.D)
	IC4801	C0DBGYY03252	IC	1	(E.S.D)
	IC4803	C1AB00003800	IC	1	(E.S.D)
	IC4804	C0FBAY000032	IC	1	(E.S.D)
	IC6000	C0HBB0000057	IC	1	(E.S.D)
	IC6100	C0JBAR000367	IC	1	(E.S.D)
	IC8001	MN2DS0018SP	IC	1	(E.S.D)
	IC8051	C3ABPY000090	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC8111	C0DBFZG00001	IC	1	(E.S.D)
	IC8251	C0GBY0000117	IC	1	(E.S.D)
	IC8252	C0ABGA000090	IC	1	(E.S.D)
	IC8611	RFKB5104A	IC	1	(E.S.D) JIGS & ADJ
	IC8651	RFKFVKX95GB	IC	1	(E.S.D) JIGS & ADJ
	IC8701	C0JBAB000422	IC	1	(E.S.D)
	IC8901	C0JBAA000261	IC	1	(E.S.D)
	IC9001	C0JBAS000401	IC	1	(E.S.D)
	IC9001	C0JBAZ002999	IC	1	(E.S.D)
	IC9002	C0DBZYY00716	IC	1	(E.S.D)
	IC9002	C0JBAZ002999	IC	1	(E.S.D)
	IC9003	C0DBZYY00716	IC	1	(E.S.D)
	IC9003	C0JBAB000595	IC	1	(E.S.D)
	IC9004	C0JBAS000401	IC	1	(E.S.D)
			TRANSISTORS		
	Q1001	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q1002	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2100	B1AAJC000019	TRANSISTOR	1	(E.S.D)
	Q2103	B1BACG000023	TRANSISTOR	1	(E.S.D)
	Q2104	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2106	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2108	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2110	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2111	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2112	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2113	B1BACG000023	TRANSISTOR	1	(E.S.D)
	Q2114	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2115	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2116	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2117	B1ADGF000010	TRANSISTOR	1	(E.S.D)
	Q2801	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)
	Q3500	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q3501	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q3502	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q3503	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q3901	B1ABDF000026	TRANSISTOR	1	(E.S.D)
	Q3902	B1CFHA000002	TRANSISTOR	1	(E.S.D)
	Q3903	B1CFHA000002	TRANSISTOR	1	(E.S.D)
	Q6000	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q6001	B1ABMG000008	TRANSISTOR	1	(E.S.D)
	Q8551	B1ABDF000026	TRANSISTOR	1	(E.S.D)
	Q8552	B1ADGB000008	TRANSISTOR	1	(E.S.D)
	Q8561	B1ABDF000026	TRANSISTOR	1	(E.S.D)
	Q8562	B1ADGB000008	TRANSISTOR	1	(E.S.D)
	Q8563	B1CFHA000002	TRANSISTOR	1	(E.S.D)
	Q8564	B1CFHA000002	TRANSISTOR	1	(E.S.D)
	Q8565	B1ABDF000026	TRANSISTOR	1	(E.S.D)
	Q9004	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	QR1001	B1GBCFJJ0040	TRANSISTOR	1	(E.S.D)
	QR2102	B1GBCFJJ0040	TRANSISTOR	1	(E.S.D)
	QR2103	B1GBCFLL0037	TRANSISTOR	1	(E.S.D)
	QR2502	B1GBCFGN0016	TRANSISTOR	1	(E.S.D)
	QR2503	B1GBCFGN0016	TRANSISTOR	1	(E.S.D)
	QR2505	B1GBCFGN0016	TRANSISTOR	1	(E.S.D)
	QR6000	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6003	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6004	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6005	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6101	B1GBCFJJ0040	TRANSISTOR	1	(E.S.D)
	QR9002	B1GBCFGN0016	TRANSISTOR	1	(E.S.D)
			DIODES		
	D1001	DZ2J130M0L	DIODE	1	(E.S.D)
	D1400	B0EAMM000057	DIODE	1	(E.S.D)
	D2100	B0ADDJ000032	DIODE	1	(E.S.D)
	D2101	DA2J10100L	DIODE	1	(E.S.D)
	D2103	DA2J10100L	DIODE	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D2104	DZ2J130M0L	DIODE	1	(E.S.D)
	D2105	B0ADDJ000032	DIODE	1	(E.S.D)
	D2106	B0JCPG000032	DIODE	1	(E.S.D)
	D2107	B0JCPG000032	DIODE	1	(E.S.D)
	D2108	DA2J10100L	DIODE	1	(E.S.D)
	D2109	B0ADDJ000032	DIODE	1	(E.S.D)
	D3000	B0ACCK000005	DIODE	1	(E.S.D)
	D3001	B0ACCK000005	DIODE	1	(E.S.D)
	D3901	B0JCME000035	DIODE	1	(E.S.D)
	D6005	B0EAMM000057	DIODE	1	(E.S.D)
	D6006	B0BC033A0282	DIODE	1	(E.S.D)
	D6007	B0EAMM000057	DIODE	1	(E.S.D)
	D6008	B0JAME000114	DIODE	1	(E.S.D)
	D6009	DZ2J24000L	DIODE	1	(E.S.D)
	D6012	B0BC2R4A0006	DIODE	1	(E.S.D)
	D6101	B3AEA0000172	DIODE	1	(E.S.D)
	D6102	B3AAA0001129	DIODE	1	(E.S.D)
	D6103	B3ABA0000905	DIODE	1	(E.S.D)
	D6104	B3ABA0000905	DIODE	1	(E.S.D)
	D6105	B3AAA0001129	DIODE	1	(E.S.D)
	D6106	B3AEA0000172	DIODE	1	(E.S.D)
	D6201	DA2J10100L	DIODE	1	(E.S.D)
	D6202	DA2J10100L	DIODE	1	(E.S.D)
	D6203	DA2J10100L	DIODE	1	(E.S.D)
	D6204	DA2J10100L	DIODE	1	(E.S.D)
	D6205	DA2J10100L	DIODE	1	(E.S.D)
	D6206	DA2J10100L	DIODE	1	(E.S.D)
	D6207	DA2J10100L	DIODE	1	(E.S.D)
	D6208	DA2J10100L	DIODE	1	(E.S.D)
	D6209	DA2J10100L	DIODE	1	(E.S.D)
	D6210	DA2J10100L	DIODE	1	(E.S.D)
	D6400	B3AAA0000487	DIODE	1	(E.S.D)
	D6401	B3AAA0000487	DIODE	1	(E.S.D)
	D8211	DA2J10100L	DIODE	1	(E.S.D)
	D9001	B0ECKM000008	DIODE	1	(E.S.D)
	DZ2100	B0JCPG000032	DIODE	1	(E.S.D)
			VARIABLE RESISTORS		
	VR1400	D2AAB53Y0001	MIC VOL1 JOG	1	
	VR1401	D2AAB53Y0001	MIC VOL2 JOG	1	
	VR6100	EVEKE2F3524B	VOLUME JOG	1	
	VR6200	K9AA012Y0012	ILLUMINATION/ CONTROL JOG	1	
			VARISTOR		
	VA51	EZAEG2A50AX	ESD SUPRESSOR	1	
			SWITCHES		
	S6200	EVQ21405RJ	SW POWER	1	
	S6201	EVQ21405RJ	SW OPEN/CLOSE	1	
	S6202	EVQ21405RJ	SW STOP/TUNE MODE	1	
	S6211	EVQ21405RJ	SW DJ JUKEBOX	1	
	S6212	EVQ21405RJ	SW LOCAL/PRESET EQ	1	
	S6213	EVQ21405RJ	SW MANUAL EQ	1	
	S6214	EVQ21405RJ	SW D BASS/-SUPER WOOFER	1	
	S6215	EVQ21405RJ	SW USB REC/PAUSE	1	
	S6216	EVQ21405RJ	SW RWD	1	
	S6217	EVQ21405RJ	SW FWD	1	
	S6218	EVQ21405RJ	SW PLAY/PAUSE	1	
	S6219	EVQ21405RJ	SW RADIO/AUX	1	
	S6220	EVQ21405RJ	SW DVD/CD	1	
	S6221	EVQ21405RJ	SW BLUETOOTH/ USB/-PAIRING	1	
	S6222	EVQ21405RJ	SW ALBUM/TRACK	1	
	S6223	EVQ21405RJ	SW KEY-CON	1	
	S6224	EVQ21405RJ	SW ECHO	1	
	S6225	EVQ21405RJ	SW VOCAL CANCEL	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	S6226	EVQ21405RJ	SW FL DISPLAY	1	
	S6227	EVQ21405RJ	SW DIMMER	1	
	S6228	EVQ21405RJ	SW KARAOKE	1	
			CONNECTORS		
	CN1401	K1YF05000001	5P CONNECTOR	1	
	CN2003	K1MN10AA0076	10P CONNECTOR	1	
	CN2102	K1KA02AA0186	2P CONNECTOR	1	
	CN2103	K1YZ13000002	13P CONNECTOR	1	
	CN2104	K1KA02AA0186	2P CONNECTOR	1	
	CN2504	K1KA04BA0061	4P CONNECTOR	1	
	CN2505	K1KA05AA0051	5P CONNECTOR	1	
	CN2506	K1MN30A00019	30P CONNECTOR	1	
	CN2507	K1KA05AA0193	5P CONNECTOR	1	
	CN2510	K1KA04AA0193	4P CONNECTOR	1	
	CN2511	K1KA08AA0193	8P CONNECTOR	1	
	CN6001	K1MN30A00019	30P CONNECTOR	1	
	CN6002	K1MN12B00014	12P CONNECTOR	1	
	CN6003	K1ZZ00000832	4P CONNECTOR	1	
	CN6300	K1YF05000001	5P CONNECTOR	1	
	CN6401	K1YF08000002	8P CONNECTOR	1	
	FP5001	K1MN30AA0082	30P CONNECTOR	1	
	FP8031	K1MY10AA0021	10P CONNECTOR	1	
	FP8101	K1MN30BA0173	30P CONNECTOR	1	
	FP8251	K1MN06AA0046	6P CONNECTOR	1	
	FP8252	K1MN05AA0046	5P CONNECTOR	1	
	FP8531	K1MN24A00062	24P CONNECTOR	1	
	FP9001	K1KA05BA0014	5P CONNECTOR	1	
	P1002	K1MN08A00048	8P CONNECTOR	1	
			COILS AND INDUCTORS		
	L51	G1CR18JA0020	INDUCTOR	1	
	L52	G2A380Y00002	COIL	1	
	L54	G1C1R0MA0204	INDUCTOR	1	
	L2101	G1C470MA0291	INDUCTOR	1	
	L2102	G1C470MA0291	INDUCTOR	1	
	L2106	G0A100H00018	CHOKE COIL	1	
	L3000	G0C100M00009	INDUCTOR	1	
	L3001	G0C100M00009	INDUCTOR	1	
	L3003	D0GDR00JA017	INDUCTOR	1	
	L3100	G0C100M00009	INDUCTOR	1	
	L3101	G0C100M00009	INDUCTOR	1	
	L3200	G0C100M00009	INDUCTOR	1	
	L3201	G0C100M00009	INDUCTOR	1	
	L3801	G1C100K00019	INDUCTOR	1	
	L3802	J0JBC0000015	INDUCTOR	1	
	L3903	G1BYYYC00026	COMMON MODE EMI FILTER	1	
	L3904	G1BYYYC00026	COMMON MODE EMI FILTER	1	
	L3905	G1BYYYC00026	COMMON MODE EMI FILTER	1	
	L3906	G1BYYYC00026	COMMON MODE EMI FILTER	1	
	L6300	J0JBC0000019	INDUCTOR	1	
	L6301	J0JBC0000019	INDUCTOR	1	
	L6302	J0JBC0000019	INDUCTOR	1	
	L8201	G1C100M00049	INDUCTOR	1	
	L8251	J0JHC0000117	INDUCTOR	1	
	L8252	J0JHC0000117	INDUCTOR	1	
	L8301	G1C100M00049	INDUCTOR	1	
	L8302	G1C100M00049	INDUCTOR	1	
	L8303	G1C100M00049	INDUCTOR	1	
	L8501	G1C100M00049	INDUCTOR	1	
	L8550	G1C100M00049	INDUCTOR	1	
	LB51	J0JBC0000032	INDUCTOR	1	
	LB52	J0JYC0000118	INDUCTOR	1	
	LB1001	J0JBC0000010	INDUCTOR	1	
	LB1002	J0JBC0000010	INDUCTOR	1	
	LB1003	J0JBC0000010	INDUCTOR	1	
	LB1004	J0JBC0000010	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB1005	J0JYC0000656	INDUCTOR	1	
	LB1006	J0JBC0000010	INDUCTOR	1	
	LB1007	J0JBC0000010	INDUCTOR	1	
	LB1008	J0JCC0000286	INDUCTOR	1	
	LB1009	J0JCC0000286	INDUCTOR	1	
	LB1012	J0JCC0000286	INDUCTOR	1	
	LB1013	J0JCC0000286	INDUCTOR	1	
	LB1014	J0JCC0000286	INDUCTOR	1	
	LB1015	J0JCC0000286	INDUCTOR	1	
	LB1028	J0JCC0000286	INDUCTOR	1	
	LB1029	J0JCC0000286	INDUCTOR	1	
	LB1030	J0JBC0000010	INDUCTOR	1	
	LB1031	J0JBC0000010	INDUCTOR	1	
	LB1032	J0JBC0000010	INDUCTOR	1	
	LB1033	J0JBC0000010	INDUCTOR	1	
	LB1034	J0JCC0000286	INDUCTOR	1	
	LB1035	J0JCC0000286	INDUCTOR	1	
	LB1036	J0JCC0000286	INDUCTOR	1	
	LB1037	J0JCC0000286	INDUCTOR	1	
	LB1038	J0JCC0000286	INDUCTOR	1	
	LB1039	J0JCC0000286	INDUCTOR	1	
	LB1041	J0JBC0000015	INDUCTOR	1	
	LB1042	J0JCC0000309	INDUCTOR	1	
	LB1043	J0JCC0000309	INDUCTOR	1	
	LB1400	J0JBC0000019	INDUCTOR	1	
	LB1404	J0JBC0000019	INDUCTOR	1	
	LB1405	J0JGC0000063	INDUCTOR	1	
	LB1406	J0JBC0000010	INDUCTOR	1	
	LB1407	J0JBC0000010	INDUCTOR	1	
	LB2100	J0JKB0000020	INDUCTOR	1	
	LB2101	J0JHC0000046	INDUCTOR	1	
	LB2102	J0JHC0000046	INDUCTOR	1	
	LB2103	J0JHC0000046	INDUCTOR	1	
	LB2300	J0JBC0000010	INDUCTOR	1	
	LB2511	J0JBC0000010	INDUCTOR	1	
	LB2512	J0JBC0000010	INDUCTOR	1	
	LB2513	J0JBC0000010	INDUCTOR	1	
	LB2514	J0JBC0000010	INDUCTOR	1	
	LB2515	J0JBC0000010	INDUCTOR	1	
	LB2516	J0JBC0000010	INDUCTOR	1	
	LB2517	J0JBC0000010	INDUCTOR	1	
	LB2518	J0JBC0000010	INDUCTOR	1	
	LB2519	J0JBC0000010	INDUCTOR	1	
	LB2520	J0JBC0000010	INDUCTOR	1	
	LB2521	J0JBC0000010	INDUCTOR	1	
	LB2522	J0JBC0000010	INDUCTOR	1	
	LB2523	J0JBC0000010	INDUCTOR	1	
	LB2524	J0JBC0000010	INDUCTOR	1	
	LB2525	J0JGC0000063	INDUCTOR	1	
	LB2526	J0JGC0000063	INDUCTOR	1	
	LB2527	J0JGC0000063	INDUCTOR	1	
	LB2528	J0JGC0000063	INDUCTOR	1	
	LB2529	J0JGC0000063	INDUCTOR	1	
	LB2530	J0JGC0000063	INDUCTOR	1	
	LB2531	J0JGC0000063	INDUCTOR	1	
	LB2532	J0JGC0000063	INDUCTOR	1	
	LB2533	J0JBC0000010	INDUCTOR	1	
	LB2534	J0JBC0000010	INDUCTOR	1	
	LB2535	J0JBC0000010	INDUCTOR	1	
	LB2536	J0JBC0000010	INDUCTOR	1	
	LB2537	J0JBC0000010	INDUCTOR	1	
	LB2541	J0JBC0000010	INDUCTOR	1	
	LB2542	J0JBC0000010	INDUCTOR	1	
	LB2543	J0JBC0000010	INDUCTOR	1	
	LB2544	J0JBC0000010	INDUCTOR	1	
	LB2545	J0JBC0000010	INDUCTOR	1	
	LB3901	J0JHC0000045	INDUCTOR	1	
	LB3902	J0JHC0000045	INDUCTOR	1	
	LB3903	J0JCC0000042	INDUCTOR	1	
	LB3904	J0JCC0000042	INDUCTOR	1	
	LB3905	J0JCC0000042	INDUCTOR	1	
	LB3906	J0JCC0000042	INDUCTOR	1	
	LB3907	J0JHC0000045	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB3908	J0JHC0000045	INDUCTOR	1	
	LB4001	J0JBC0000010	INDUCTOR	1	
	LB4002	J0JBC0000010	INDUCTOR	1	
	LB4530	J0JCC0000101	INDUCTOR	1	
	LB4801	J0JBC0000010	INDUCTOR	1	
	LB4802	J0JBC0000010	INDUCTOR	1	
	LB4803	J0JCC0000317	INDUCTOR	1	
	LB4804	J0JCC0000317	INDUCTOR	1	
	LB4805	J0JBC0000010	INDUCTOR	1	
	LB4806	J0JBC0000010	INDUCTOR	1	
	LB4807	J0JYC0000656	INDUCTOR	1	
	LB6000	J0JYC0000366	INDUCTOR	1	
	LB6001	J0JYC0000366	INDUCTOR	1	
	LB6002	G1C4R7MA0172	INDUCTOR	1	
	LB6100	J0JBC0000134	INDUCTOR	1	
	LB6101	J0JCC0000317	INDUCTOR	1	
	LB6303	J0JHC0000118	INDUCTOR	1	
	LB6304	J0JHC0000118	INDUCTOR	1	
	LB8001	J0JHC0000045	INDUCTOR	1	
	LB8002	J0JGC0000063	INDUCTOR	1	
	LB8003	J0JHC0000045	INDUCTOR	1	
	LB8004	J0JHC0000045	INDUCTOR	1	
	LB8005	J0JHC0000045	INDUCTOR	1	
	LB8011	J0JHC0000045	INDUCTOR	1	
	LB8012	J0JGC0000063	INDUCTOR	1	
	LB8250	J0JGC0000063	INDUCTOR	1	
	LB8251	J0JGC0000063	INDUCTOR	1	
	LB8252	J0JGC0000063	INDUCTOR	1	
	LB8253	J0JGC0000063	INDUCTOR	1	
	LB8254	J0JGC0000063	INDUCTOR	1	
	LB8255	J0JGC0000063	INDUCTOR	1	
	LB8256	J0JGC0000063	INDUCTOR	1	
	LB8257	J0JGC0000063	INDUCTOR	1	
	LB8258	J0JGC0000063	INDUCTOR	1	
	LB8259	J0JGC0000063	INDUCTOR	1	
	LB8401	J0JCC0000308	INDUCTOR	1	
	LB8422	J0JDC0000045	INDUCTOR	1	
	LB8530	J0JHC0000045	INDUCTOR	1	
	LB8532	J0JDC0000045	INDUCTOR	1	
	LB8551	J0JDC0000045	INDUCTOR	1	
	LB8561	J0JDC0000045	INDUCTOR	1	
	LB8701	J0JCC0000308	INDUCTOR	1	
	LB8702	J0JCC0000308	INDUCTOR	1	
	LB8901	J0JCC0000308	INDUCTOR	1	
	LB9001	J0JCC0000042	INDUCTOR	1	
	LB9002	J0JHC0000117	INDUCTOR	1	
	LB9004	J0JCC0000308	INDUCTOR	1	
	R1003	J0JCC0000301	INDUCTOR	1	
	R1004	J0JYC0000100	INDUCTOR	1	
	R1005	J0JYC0000100	INDUCTOR	1	
	R1006	J0JYC0000100	INDUCTOR	1	
	R1007	J0JYC0000100	INDUCTOR	1	
	R1008	J0JYC0000100	INDUCTOR	1	
	R1009	J0JYC0000100	INDUCTOR	1	
	R1011	J0JCC0000301	INDUCTOR	1	
	R1012	J0JCC0000301	INDUCTOR	1	
	R1014	J0JCC0000301	INDUCTOR	1	
	R1016	J0JBC0000088	INDUCTOR	1	
	R1017	J0JBC0000088	INDUCTOR	1	
	R1018	J0JBC0000088	INDUCTOR	1	
	R1019	J0JCC0000215	INDUCTOR	1	
	R1020	J0JCC0000215	INDUCTOR	1	
	R1023	J0JCC0000301	INDUCTOR	1	
	R1028	J0JCC0000301	INDUCTOR	1	
	R1045	J0JCC0000301	INDUCTOR	1	
	R1048	J0JCC0000301	INDUCTOR	1	
	R1049	J0JCC0000301	INDUCTOR	1	
	R1055	J0JCC0000215	INDUCTOR	1	
	R1056	J0JCC0000215	INDUCTOR	1	
	R1057	J0JCC0000215	INDUCTOR	1	
	R1058	J0JCC0000215	INDUCTOR	1	
	R1060	J0JCC0000301	INDUCTOR	1	
	R1078	J0JCC0000215	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1100	J0JCC0000215	INDUCTOR	1	
	R1101	J0JCC0000215	INDUCTOR	1	
	R1121	J0JCC0000215	INDUCTOR	1	
	R1122	J0JCC0000215	INDUCTOR	1	
	R1123	J0JCC0000215	INDUCTOR	1	
	R1124	J0JCC0000215	INDUCTOR	1	
	R1125	J0JCC0000215	INDUCTOR	1	
	R1126	J0JCC0000215	INDUCTOR	1	
	R1127	J0JCC0000215	INDUCTOR	1	
	R1128	J0JCC0000215	INDUCTOR	1	
	R1129	J0JCC0000215	INDUCTOR	1	
	R1132	J0JCC0000301	INDUCTOR	1	
	R1133	J0JCC0000301	INDUCTOR	1	
	R1141	J0JCC0000301	INDUCTOR	1	
	R1152	J0JCC0000309	INDUCTOR	1	
	R1421	J0JBC0000010	INDUCTOR	1	
	R2553	J0JBC0000010	INDUCTOR	1	
	R2554	J0JBC0000010	INDUCTOR	1	
	R2556	J0JBC0000010	INDUCTOR	1	
	R4859	J0JYC0000100	INDUCTOR	1	
	R4860	J0JYC0000100	INDUCTOR	1	
	R4861	J0JYC0000100	INDUCTOR	1	
	R4862	J0JYC0000100	INDUCTOR	1	
			TRANSFORMER		
	T6000	G4DYA0000214	SWITCHING TRANS-FORMER	1	
			FILTERS		
	T9001	J0ZZB0000182	FILTER	1	
	T9002	J0ZZB0000182	FILTER	1	
			OSCILLATORS		
	X1001	H0J169500036	OSCILLATOR	1	
	X1002	H0A327200191	OSCILLATOR	1	
	X2300	H2D500400006	OSCILLATOR	1	
	X4001	H0J245500110	OSCILLATOR	1	
	X4801	H0J245500110	OSCILLATOR	1	
	X8621	H0J270500131	OSCILLATOR	1	
	X9004	H1A4805B0027	OSCILLATOR	1	
			FL DISPLAY		
	FL6000	A2BB00000184	FL DISPLAY	1	
			JACKS		
	JK51	K4ZZ02000103	JK FM ANTENNA	1	
	JK52	K4AC02B00042	JK AM ANTENNA	1	
	JK1401	K2HB107B0001	JK MIC2	1	
	JK1403	K2HB107B0001	JK MIC1	1	
	JK3501	K4AL06B00001	JK SPEAKER	1	
	JK3801	K2HA1YYB0022	JK VIDEO OUT	1	
	JK6002	K2HA204B0153	JK AUX IN	1	
	JK6301	K2HC103A0031	JK HEADPHONE	1	
	JK6400	K1FY104A0034	JK USB PORT A	1	
	JK6401	K1FY104A0034	JK USB PORT B	1	
	P3901	K1FY119E0073	JK HDMI	1	
			TERMINALS		
	ZJ1403	K1ZZ00001238	2P CONNECTOR	1	
	ZJ2100	K9ZZ00001279	EARTH PLATE	1	
	ZJ2102	K9ZZ00001279	EARTH PLATE	1	
	ZJ6301	K1ZZ00001238	TERMINAL	1	
			CHIP JUMPERS		
	K3903	D0GBR00J0004	0 1/10W	1	
	K3905	D0GAR00J0005	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	K8001	D0GBR00J0004	0 1/10W	1	
	K8006	D0GBR00J0004	0 1/10W	1	
	K8100	D0GBR00J0004	0 1/10W	1	
	K8101	D0GBR00J0004	0 1/10W	1	
	K8103	D0GBR00J0004	0 1/10W	1	
	K8104	D0GBR00J0004	0 1/10W	1	
	K8105	D0GBR00J0004	0 1/10W	1	
	K8107	D0GBR00J0004	0 1/10W	1	
	K8108	D0GBR00J0004	0 1/10W	1	
	K8111	D0GBR00J0004	0 1/10W	1	
	K8251	D0GBR00J0004	0 1/10W	1	
	K8252	D0GBR00J0004	0 1/10W	1	
	K8321	D0GAR00J0005	0 1/16W	1	
	K8325	D0GAR00J0005	0 1/16W	1	
	K8331	D0GAR00J0005	0 1/16W	1	
	K8335	D0GAR00J0005	0 1/16W	1	
	K8341	D0GAR00J0005	0 1/16W	1	
	L53	D0GBR00J0004	0 1/10W	1	
	L6000	D0GBR00J0004	0 1/10W	1	
	LB1040	D0GBR00J0004	0 1/10W	1	
	LB6400	D0GBR00J0004	0 1/10W	1	
	LB6401	D0GBR00J0004	0 1/10W	1	
	LB8424	D0GAR00J0005	0 1/16W	1	
	LB8425	D0GAR00J0005	0 1/16W	1	
	LB8429	D0GAR00J0005	0 1/16W	1	
	LB8531	D0GAR00J0005	0 1/16W	1	
	LB9001	D0GBR00J0004	0 1/10W	1	
	LB9002	D0GBR00J0004	0 1/10W	1	
	LB9003	D0GBR00J0004	0 1/10W	1	
	W1	ERJ3GEY0R00V	0 1/10W	1	
	W2	ERJ8GEY0R00V	0 1/4W	1	
	W3	ERJ6GEY0R00V	0 1/8W	1	
	W3	ERJ8GEY0R00V	0 1/4W	1	
	W4	ERJ8GEY0R00V	0 1/4W	1	
	W5	ERJ6GEY0R00V	0 1/8W	1	
	W6	ERJ6GEY0R00V	0 1/8W	1	
	W6	ERJ8GEY0R00V	0 1/4W	1	
	W7	ERJ6GEY0R00V	0 1/8W	1	
	W7	ERJ8GEY0R00V	0 1/4W	1	
	W8	ERJ6GEY0R00V	0 1/8W	1	
	W8	ERJ8GEY0R00V	0 1/4W	1	
	W9	ERJ6GEY0R00V	0 1/8W	1	
	W10	ERJ6GEY0R00V	0 1/8W	1	
	W10	ERJ8GEY0R00V	0 1/4W	1	
	W11	ERJ3GEY0R00V	0 1/10W	1	
	W11	ERJ8GEY0R00V	0 1/4W	1	
	W12	ERJ3GEY0R00V	0 1/10W	1	
	W13	ERJ8GEY0R00V	0 1/4W	1	
	W14	ERJ8GEY0R00V	0 1/4W	1	
	W15	ERJ8GEY0R00V	0 1/4W	1	
	W16	ERJ6GEY0R00V	0 1/8W	1	
	W17	ERJ8GEY0R00V	0 1/4W	1	
	W18	ERJ6GEY0R00V	0 1/8W	1	
	W19	ERJ8GEY0R00V	0 1/4W	1	
	W20	ERJ8GEY0R00V	0 1/4W	1	
	W21	ERJ8GEY0R00V	0 1/4W	1	
	W22	ERJ8GEY0R00V	0 1/4W	1	
	W23	ERJ8GEY0R00V	0 1/4W	1	
	W24	ERJ8GEY0R00V	0 1/4W	1	
	W25	ERJ8GEY0R00V	0 1/4W	1	
	W26	ERJ8GEY0R00V	0 1/4W	1	
	W28	ERJ8GEY0R00V	0 1/4W	1	
	W29	ERJ8GEY0R00V	0 1/4W	1	
	W30	ERJ8GEY0R00V	0 1/4W	1	
	W31	ERJ8GEY0R00V	0 1/4W	1	
	W32	ERJ8GEY0R00V	0 1/4W	1	
	W33	ERJ8GEY0R00V	0 1/4W	1	
	W34	ERJ8GEY0R00V	0 1/4W	1	
	W35	ERJ8GEY0R00V	0 1/4W	1	
	W36	ERJ8GEY0R00V	0 1/4W	1	
	W37	ERJ8GEY0R00V	0 1/4W	1	
	W38	ERJ3GEY0R00V	0 1/10W	1	
	W39	ERJ8GEY0R00V	0 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W40	ERJ8GEY0R00V	0 1/4W	1	
	W41	ERJ8GEY0R00V	0 1/4W	1	
	W42	ERJ6GEY0R00V	0 1/8W	1	
	W43	ERJ6GEY0R00V	0 1/8W	1	
	W44	ERJ6GEY0R00V	0 1/8W	1	
	W45	ERJ8GEY0R00V	0 1/4W	1	
	W46	ERJ8GEY0R00V	0 1/4W	1	
	W47	ERJ8GEY0R00V	0 1/4W	1	
	W48	ERJ8GEY0R00V	0 1/4W	1	
	W49	ERJ8GEY0R00V	0 1/4W	1	
	W50	ERJ8GEY0R00V	0 1/4W	1	
	W51	ERJ8GEY0R00V	0 1/4W	1	
	W52	ERJ8GEY0R00V	0 1/4W	1	
	W53	ERJ8GEY0R00V	0 1/4W	1	
	W54	ERJ8GEY0R00V	0 1/4W	1	
	W55	ERJ8GEY0R00V	0 1/4W	1	
	W56	ERJ8GEY0R00V	0 1/4W	1	
	W57	ERJ8GEY0R00V	0 1/4W	1	
	W58	ERJ3GEY0R00V	0 1/10W	1	
	W59	ERJ8GEY0R00V	0 1/4W	1	
	W60	ERJ8GEY0R00V	0 1/4W	1	
	W61	ERJ3GEY0R00V	0 1/10W	1	
	W62	ERJ3GEY0R00V	0 1/10W	1	
	W63	ERJ8GEY0R00V	0 1/4W	1	
	W64	ERJ8GEY0R00V	0 1/4W	1	
	W65	ERJ3GEY0R00V	0 1/10W	1	
	W66	ERJ8GEY0R00V	0 1/4W	1	
	W67	ERJ8GEY0R00V	0 1/4W	1	
	W68	ERJ8GEY0R00V	0 1/4W	1	
	W69	ERJ8GEY0R00V	0 1/4W	1	
	W70	ERJ8GEY0R00V	0 1/4W	1	
	W71	ERJ8GEY0R00V	0 1/4W	1	
	W72	ERJ8GEY0R00V	0 1/4W	1	
	W73	ERJ8GEY0R00V	0 1/4W	1	
	W74	ERJ8GEY0R00V	0 1/4W	1	
	W75	ERJ8GEY0R00V	0 1/4W	1	
	W76	ERJ8GEY0R00V	0 1/4W	1	
	W77	ERJ8GEY0R00V	0 1/4W	1	
	W78	ERJ8GEY0R00V	0 1/4W	1	
	W79	ERJ8GEY0R00V	0 1/4W	1	
	W80	ERJ8GEY0R00V	0 1/4W	1	
	W81	ERJ6GEY0R00V	0 1/8W	1	
	W82	ERJ6GEY0R00V	0 1/8W	1	
	W83	ERJ6GEY0R00V	0 1/8W	1	
	W84	ERJ8GEY0R00V	0 1/4W	1	
	W85	ERJ8GEY0R00V	0 1/4W	1	
	W86	ERJ8GEY0R00V	0 1/4W	1	
	W87	ERJ8GEY0R00V	0 1/4W	1	
	W88	ERJ8GEY0R00V	0 1/4W	1	
	W89	ERJ8GEY0R00V	0 1/4W	1	
	W90	ERJ8GEY0R00V	0 1/4W	1	
	W91	ERJ8GEY0R00V	0 1/4W	1	
	W92	ERJ8GEY0R00V	0 1/4W	1	
	W93	ERJ8GEY0R00V	0 1/4W	1	
	W94	ERJ8GEY0R00V	0 1/4W	1	
	W95	ERJ8GEY0R00V	0 1/4W	1	
	W96	ERJ8GEY0R00V	0 1/4W	1	
	W106	ERJ8GEY0R00V	0 1/4W	1	
	W107	ERJ8GEY0R00V	0 1/4W	1	
	W108	ERJ8GEY0R00V	0 1/4W	1	
	W109	ERJ8GEY0R00V	0 1/4W	1	
	W110	ERJ8GEY0R00V	0 1/4W	1	
	W111	ERJ8GEY0R00V	0 1/4W	1	
	W112	ERJ8GEY0R00V	0 1/4W	1	
	W113	ERJ8GEY0R00V	0 1/4W	1	
	W114	ERJ8GEY0R00V	0 1/4W	1	
	W115	ERJ8GEY0R00V	0 1/4W	1	
	W116	ERJ8GEY0R00V	0 1/4W	1	
	W117	ERJ8GEY0R00V	0 1/4W	1	
	W118	ERJ8GEY0R00V	0 1/4W	1	
	W122	ERJ6GEY0R00V	0 1/8W	1	
	W123	ERJ8GEY0R00V	0 1/4W	1	
	W124	ERJ8GEY0R00V	0 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W127	ERJ6GEY0R00V	0 1/8W	1	
	W131	ERJ8GEY0R00V	0 1/4W	1	
	W132	ERJ8GEY0R00V	0 1/4W	1	
	W133	ERJ8GEY0R00V	0 1/4W	1	
	W134	ERJ8GEY0R00V	0 1/4W	1	
	W136	ERJ8GEY0R00V	0 1/4W	1	
	W140	ERJ8GEY0R00V	0 1/4W	1	
	W142	ERJ8GEY0R00V	0 1/4W	1	
	W143	ERJ8GEY0R00V	0 1/4W	1	
	W144	ERJ8GEY0R00V	0 1/4W	1	
	W145	ERJ8GEY0R00V	0 1/4W	1	
	W146	ERJ8GEY0R00V	0 1/4W	1	
	W147	ERJ8GEY0R00V	0 1/4W	1	
	W148	ERJ8GEY0R00V	0 1/4W	1	
	W149	ERJ8GEY0R00V	0 1/4W	1	
	W150	ERJ8GEY0R00V	0 1/4W	1	
	W151	ERJ8GEY0R00V	0 1/4W	1	
	W152	ERJ6GEY0R00V	0 1/8W	1	
	W153	ERJ6GEY0R00V	0 1/8W	1	
	W154	ERJ8GEY0R00V	0 1/4W	1	
	W155	ERJ8GEY0R00V	0 1/4W	1	
	W156	ERJ8GEY0R00V	0 1/4W	1	
	W157	ERJ8GEY0R00V	0 1/4W	1	
	W158	ERJ8GEY0R00V	0 1/4W	1	
	W159	ERJ6GEY0R00V	0 1/8W	1	
	W160	ERJ8GEY0R00V	0 1/4W	1	
	W161	ERJ3GEY0R00V	0 1/10W	1	
	W162	ERJ8GEY0R00V	0 1/4W	1	
	W163	ERJ8GEY0R00V	0 1/4W	1	
	W164	ERJ6GEY0R00V	0 1/8W	1	
	W165	ERJ3GEY0R00V	0 1/10W	1	
	W166	ERJ8GEY0R00V	0 1/4W	1	
	W168	ERJ8GEY0R00V	0 1/4W	1	
	W169	ERJ8GEY0R00V	0 1/4W	1	
	W170	ERJ8GEY0R00V	0 1/4W	1	
	W200	ERJ6GEY0R00V	0 1/8W	1	
			REMOTE SENSOR		
	IR6500	B3RAD0000204	REMOTE SENSOR	1	
			RESISTORS		
	R50	D0GDR00J0004	0 1/8W	1	
	R51	D0GB222JA065	2.2K 1/10W	1	
	R52	D0GB561JA065	560 1/10W	1	
	R53	D0GA472JA023	4.7K 1/16W	1	
	R54	D0GA472JA023	4.7K 1/16W	1	
	R55	D0GA221JA023	220 1/16W	1	
	R56	D0GB221JA065	220 1/10W	1	
	R57	D0GA102JA023	1K 1/16W	1	
	R59	D0GB222JA065	2.2K 1/10W	1	
	R60	D0GB222JA065	2.2K 1/10W	1	
	R73	D0GBR00J0004	0 1/10W	1	
	R74	D0GBR00J0004	0 1/10W	1	
	R75	D0GBR00J0004	0 1/10W	1	
	R76	D0GBR00J0004	0 1/10W	1	
	R77	D0GBR00J0004	0 1/10W	1	
	R78	D0GBR00J0004	0 1/10W	1	
	R79	D0GBR00J0004	0 1/10W	1	
	R80	D0GBR00J0004	0 1/10W	1	
	R1013	D0GB221JA065	220 1/10W	1	
	R1015	D0GB102JA065	1K 1/10W	1	
	R1022	D0GB221JA065	220 1/10W	1	
	R1024	D0GB101JA065	100 1/10W	1	
	R1025	D0GB105JA065	1M 1/10W	1	
	R1026	D0GB224JA065	220K 1/10W	1	
	R1027	D0GB106JA065	10M 1/10W	1	
	R1029	D0GB103JA065	10K 1/10W	1	
	R1031	D0GB103JA065	10K 1/10W	1	
	R1032	D0GB103JA065	10K 1/10W	1	
	R1033	D0GB272JA065	2.7K 1/10W	1	GS
	R1033	D0GB682JA065	6.8K 1/10W	1	EE

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1033	D0GBR00J0004	0 1/10W	1	GA
	R1034	D0GBR00J0004	0 1/10W	1	
	R1038	D0GA103JA023	10K 1/16W	1	
	R1043	D0GB103JA065	10K 1/10W	1	
	R1044	D0GB562JA065	5.6K 1/10W	1	
	R1046	D0GBR00J0004	0 1/10W	1	
	R1047	D0GB101JA065	100 1/10W	1	
	R1050	D0GB103JA065	10K 1/10W	1	
	R1051	D0GB103JA065	10K 1/10W	1	
	R1059	D0GB101JA065	100 1/10W	1	
	R1065	D0GB330JA065	33 1/10W	1	
	R1066	D0GB330JA065	33 1/10W	1	
	R1067	ERJ3RBD683V	68K 1/16W	1	
	R1068	ERJ3RBD153V	15K 1/16W	1	
	R1095	D0GB122JA065	1.2K 1/10W	1	
	R1105	D0GB103JA065	10K 1/10W	1	
	R1106	D0GB334JA065	330K 1/10W	1	
	R1107	D0GB222JA065	2.2K 1/10W	1	
	R1108	D0GB222JA065	2.2K 1/10W	1	
	R1109	D0GB103JA065	10K 1/10W	1	
	R1111	D0GB332JA065	3.3K 1/10W	1	
	R1112	D0GB683JA065	68K 1/10W	1	
	R1113	D0GB332JA065	3.3K 1/10W	1	
	R1114	D0GB103JA065	10K 1/10W	1	
	R1115	D0GB102JA065	1K 1/10W	1	
	R1116	D0GB103JA065	10K 1/10W	1	
	R1117	D0GB103JA065	10K 1/10W	1	
	R1118	D0GBR00J0004	0 1/10W	1	
	R1119	D0GB123JA065	12K 1/10W	1	
	R1144	D0GB101JA065	100 1/10W	1	
	R1145	D0GB101JA065	100 1/10W	1	
	R1146	D0GB101JA065	100 1/10W	1	
	R1151	D0GB101JA065	100 1/10W	1	
	R1153	D0GB473JA065	47K 1/10W	1	
	R1154	D0GB473JA065	47K 1/10W	1	
	R1400	D0GB681JA065	680 1/10W	1	
	R1401	D0GB153JA065	15K 1/10W	1	
	R1402	D0GB331JA065	330 1/10W	1	
	R1403	D0GB472JA065	4.7K 1/10W	1	
	R1404	D0GB472JA065	4.7K 1/10W	1	
	R1405	D0GB682JA065	6.8K 1/10W	1	
	R1406	D0GB104JA065	100K 1/10W	1	
	R1407	D0GB561JA065	560 1/10W	1	
	R1408	D0GB681JA065	680 1/10W	1	
	R1409	D0GBR00J0004	0 1/10W	1	
	R1410	D0GBR00J0004	0 1/10W	1	
	R1411	D0GB561JA065	560 1/10W	1	
	R1412	D0GB681JA065	680 1/10W	1	
	R1413	D0GB681JA065	680 1/10W	1	
	R1414	D0GB331JA065	330 1/10W	1	
	R1415	D0GB153JA065	15K 1/10W	1	
	R1416	D0GB472JA065	4.7K 1/10W	1	
	R1417	D0GB472JA065	4.7K 1/10W	1	
	R1418	D0GB682JA065	6.8K 1/10W	1	
	R1419	D0GB104JA065	100K 1/10W	1	
	R1422	D0GBR00J0004	0 1/10W	1	
	R1423	D0GBR00J0004	0 1/10W	1	
	R1424	D0GBR00J0004	0 1/10W	1	
	R2100	D0GBR00J0004	0 1/10W	1	
	R2101	D0GB681JA065	680 1/10W	1	
	R2102	D0GB473JA065	47K 1/10W	1	
	R2103	D0GB123JA065	12K 1/10W	1	
	R2104	D0GBR00J0004	0 1/10W	1	
	R2110	D0GBR00J0004	0 1/10W	1	
	R2113	D0GDR00J0004	0 1/8W	1	
	R2114	D1BB3002A074	30K 1/10W	1	
	R2115	D1BB3002A074	30K 1/10W	1	
	R2116	D1BB1002A074	10K 1/10W	1	
	R2117	D0GB681JA065	680 1/10W	1	
	R2118	D0GB473JA065	47K 1/10W	1	
	R2119	D0GB123JA065	12K 1/10W	1	
	R2121	D0GBR00J0004	0 1/10W	1	GA
	R2122	D0GBR00J0004	0 1/10W	1	EE

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2123	D0GBR00J0004	0 1/10W	1	GS
	R2124	D0GB123JA065	12K 1/10W	1	
	R2125	D0GB274JA065	270K 1/10W	1	
	R2126	D0GB823JA065	82K 1/10W	1	
	R2129	D0GB682JA065	6.8K 1/10W	1	
	R2130	D0GB221JA065	220 1/10W	1	
	R2134	D1BB3002A074	30K 1/10W	1	
	R2135	F1H1H104B047	0.1uF 50V	1	
	R2137	D0GB101JA065	100 1/10W	1	
	R2141	D0GB474JA065	470K 1/10W	1	
	R2143	D0AF270JA039	27	1	
	R2147	D0GBR00J0004	0 1/10W	1	
	R2148	D0GB682JA065	6.8K 1/10W	1	
	R2149	D0GB274JA065	270K 1/10W	1	
	R2150	D0GB823JA065	82K 1/10W	1	
	R2151	D0GB221JA065	220 1/10W	1	
	R2152	F1H1H104B047	0.1uF 50V	1	
	R2153	D0GB474JA065	470K 1/10W	1	
	R2154	D0GB101JA065	100 1/10W	1	
	R2155	D0AF270JA039	27	1	
	R2156	D0GB821JA065	820 1/10W	1	
	R2157	D0GB101JA065	100 1/10W	1	
	R2164	D1BB8202A074	82K 1/10W	1	
	R2165	D1BB1003A074	100K 1/10W	1	
	R2166	D1BB1002A074	10K 1/10W	1	
	R2167	D0GB153JA065	15K 1/10W	1	
	R2168	D1BB3002A074	30K 1/10W	1	
	R2169	D0GB222JA065	2.2K 1/10W	1	
	R2170	D0GDR00J0004	0 1/8W	1	
	R2175	D1BB1002A074	10K 1/10W	1	
	R2176	D1BB1002A074	10K 1/10W	1	
	R2177	D1BB4302A074	43K 1/10W	1	
	R2178	D1BB5602A074	56K 1/10W	1	
	R2179	D0GB153JA065	15K 1/10W	1	
	R2180	D1BB2702A074	27K 1/10W	1	
	R2181	D0GDR00J0004	0 1/8W	1	
	R2182	D1BB3002A074	30K 1/10W	1	
	R2200	D0GB472JA065	4.7K 1/10W	1	
	R2201	D0GB472JA065	4.7K 1/10W	1	
	R2202	D0GB103JA065	10K 1/10W	1	
	R2203	D0GBR00J0004	0 1/10W	1	
	R2211	D0GBR00J0004	0 1/10W	1	
	R2215	D0GDR00J0004	0 1/8W	1	
	R2216	D0GDR00J0004	0 1/8W	1	
	R2219	D0GBR00J0004	0 1/10W	1	
	R2220	D0GBR00J0004	0 1/10W	1	
	R2221	D0GBR00J0004	0 1/10W	1	
	R2227	D0GFR00J0005	0 1/4W	1	
	R2233	D0GBR00J0004	0 1/10W	1	
	R2234	D0GBR00J0004	0 1/10W	1	
	R2235	D0GB222JA065	2.2K 1/10W	1	
	R2237	D0GB222JA065	2.2K 1/10W	1	
	R2240	D0GB4R7JA065	4.7 1/10W	1	
	R2241	D0GFR00J0005	0 1/4W	1	
	R2242	D0GB4R7JA065	4.7 1/10W	1	
	R2243	D0GB4R7JA065	4.7 1/10W	1	
	R2244	D0GFR00J0005	0 1/4W	1	
	R2245	D0GFR00J0005	0 1/4W	1	
	R2301	D0GB103JA065	10K 1/10W	1	
	R2302	D0GB122JA065	1.2K 1/10W	1	GA
	R2302	D0GB332JA065	3.3K 1/10W	1	GS
	R2302	D0GB562JA065	5.6K 1/10W	1	EE
	R2303	D0GB103JA065	10K 1/10W	1	
	R2304	D0GB153JA065	15K 1/10W	1	
	R2309	D0GA101JA023	100 1/16W	1	
	R2310	D0GA101JA023	100 1/16W	1	
	R2311	D0GA103JA023	10K 1/16W	1	
	R2312	D0GA103JA023	10K 1/16W	1	
	R2313	D0GA103JA023	10K 1/16W	1	
	R2314	D0GA101JA023	100 1/16W	1	
	R2315	D0GA103JA023	10K 1/16W	1	
	R2316	D0GA103JA023	10K 1/16W	1	
	R2317	D0GA103JA023	10K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2318	D0GA103JA023	10K 1/16W	1	
	R2325	D0GA103JA023	10K 1/16W	1	
	R2326	D0GA103JA023	10K 1/16W	1	
	R2327	D0GA103JA023	10K 1/16W	1	
	R2332	D0GA473JA023	47K 1/16W	1	
	R2333	D0GA473JA023	47K 1/16W	1	
	R2334	D0GA473JA023	47K 1/16W	1	
	R2335	D0GA101JA023	100 1/16W	1	
	R2340	D0GA101JA023	100 1/16W	1	
	R2341	D0GA101JA023	100 1/16W	1	
	R2342	D0GA101JA023	100 1/16W	1	
	R2343	D0GA473JA023	47K 1/16W	1	
	R2348	D0GA154JA023	150K 1/16W	1	
	R2353	D0GA101JA023	100 1/16W	1	
	R2354	D0GA101JA023	100 1/16W	1	
	R2359	D0GA101JA023	100 1/16W	1	
	R2360	D0GA101JA023	100 1/16W	1	
	R2361	D0GA101JA023	100 1/16W	1	
	R2362	D0GA101JA023	100 1/16W	1	
	R2502	D0GBR00J0004	0 1/10W	1	
	R2503	D0GB102JA065	1K 1/10W	1	
	R2504	D0GBR00J0004	0 1/10W	1	
	R2507	D0GB472JA065	4.7K 1/10W	1	
	R2511	D0GB330JA065	33 1/10W	1	
	R2512	D0GB330JA065	33 1/10W	1	
	R2513	D0GB330JA065	33 1/10W	1	
	R2514	D0GB330JA065	33 1/10W	1	
	R2516	D0GB330JA065	33 1/10W	1	
	R2517	D0GB330JA065	33 1/10W	1	
	R2520	D0GBR00J0004	0 1/10W	1	
	R2544	D0GBR00J0004	0 1/10W	1	
	R2546	D0GBR00J0004	0 1/10W	1	
	R2550	D0GBR00J0004	0 1/10W	1	
	R2551	D0GB330JA065	33 1/10W	1	
	R2552	D0GB330JA065	33 1/10W	1	
	R2555	D0GBR00J0004	0 1/10W	1	
	R3000	D0GB100JA065	10 1/10W	1	
	R3001	D0GB100JA065	10 1/10W	1	
	R3002	D0GB223JA065	22K 1/10W	1	
	R3003	D0GB101JA065	100 1/10W	1	
	R3007	D0GBR00J0004	0 1/10W	1	
	R3009	D0GB101JA065	100 1/10W	1	
	R3011	D0GB100JA065	10 1/10W	1	
	R3012	D0GD220JA052	22 1/8W	1	
	R3013	D0GD220JA052	22 1/8W	1	
	R3014	D0GD220JA052	22 1/8W	1	
	R3015	D0GD220JA052	22 1/8W	1	
	R3016	D0GBR00J0004	0 1/10W	1	
	R3017	D0GBR00J0004	0 1/10W	1	
	R3018	D0GBR00J0004	0 1/10W	1	
	R3019	D0GBR00J0004	0 1/10W	1	
	R3020	D0GBR00J0004	0 1/10W	1	
	R3022	D0GD220JA052	22 1/8W	1	
	R3023	D0GD220JA052	22 1/8W	1	
	R3024	D0GD220JA052	22 1/8W	1	
	R3025	D0GD220JA052	22 1/8W	1	
	R3026	D0GBR00J0004	0 1/10W	1	
	R3100	D0GB100JA065	10 1/10W	1	
	R3101	D0GB100JA065	10 1/10W	1	
	R3102	D0GB223JA065	22K 1/10W	1	
	R3103	D0GB101JA065	100 1/10W	1	
	R3104	D0GBR00J0004	0 1/10W	1	
	R3105	D0GB100JA065	10 1/10W	1	
	R3106	D0GD220JA052	22 1/8W	1	
	R3107	D0GD220JA052	22 1/8W	1	
	R3108	D0GD220JA052	22 1/8W	1	
	R3109	D0GD220JA052	22 1/8W	1	
	R3110	D0GBR00J0004	0 1/10W	1	
	R3111	D0GBR00J0004	0 1/10W	1	
	R3112	D0GBR00J0004	0 1/10W	1	
	R3113	D0GBR00J0004	0 1/10W	1	
	R3114	D0GBR00J0004	0 1/10W	1	
	R3117	D0GB101JA065	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R3118	D0GBR00J0004	0	1/10W	1	
	R3120	D0GD220JA052	22	1/8W	1	
	R3121	D0GD220JA052	22	1/8W	1	
	R3122	D0GD220JA052	22	1/8W	1	
	R3123	D0GD220JA052	22	1/8W	1	
	R3124	D0GBR00J0004	0	1/10W	1	
	R3200	D0GB100JA065	10	1/10W	1	
	R3201	D0GB100JA065	10	1/10W	1	
	R3202	D0GB223JA065	22K	1/10W	1	
	R3203	D0GB101JA065	100	1/10W	1	
	R3204	D0GBR00J0004	0	1/10W	1	
	R3205	D0GB100JA065	10	1/10W	1	
	R3206	D0GD220JA052	22	1/8W	1	
	R3207	D0GD220JA052	22	1/8W	1	
	R3208	D0GD220JA052	22	1/8W	1	
	R3209	D0GD220JA052	22	1/8W	1	
	R3210	D0GBR00J0004	0	1/10W	1	
	R3211	D0GBR00J0004	0	1/10W	1	
	R3213	D0GB101JA065	100	1/10W	1	
	R3215	D0GBR00J0004	0	1/10W	1	
	R3216	D0GD220JA052	22	1/8W	1	
	R3217	D0GD220JA052	22	1/8W	1	
	R3218	D0GD220JA052	22	1/8W	1	
	R3219	D0GD220JA052	22	1/8W	1	
	R3220	D0GBR00J0004	0	1/10W	1	
	R3307	D0GBR00J0004	0	1/10W	1	
	R3316	D0GBR00J0004	0	1/10W	1	
	R3317	D0GBR00J0004	0	1/10W	1	
	R3500	D0GBR00J0004	0	1/10W	1	
	R3513	D0GB104JA065	100K	1/10W	1	
	R3514	D0GB104JA065	100K	1/10W	1	
	R3515	D0GB3R3JA065	3.3	1/10W	1	
	R3516	D0GB3R3JA065	3.3	1/10W	1	
	R3517	D0GB104JA065	100K	1/10W	1	
	R3518	D0GB104JA065	100K	1/10W	1	
	R3519	D0GB3R3JA065	3.3	1/10W	1	
	R3520	D0GB3R3JA065	3.3	1/10W	1	
	R3521	D0GB104JA065	100K	1/10W	1	
	R3522	D0GB104JA065	100K	1/10W	1	
	R3523	D0GB3R3JA065	3.3	1/10W	1	
	R3524	D0GB3R3JA065	3.3	1/10W	1	
	R3525	D0GB183JA065	18K	1/10W	1	
	R3526	D0GB183JA065	18K	1/10W	1	
	R3527	D0GB183JA065	18K	1/10W	1	
	R3533	D0GB822JA065	8.2K	1/10W	1	
	R3534	D0GB223JA065	22K	1/10W	1	
	R3535	D0GB104JA065	100K	1/10W	1	
	R3536	D0GB104JA065	100K	1/10W	1	
	R3537	D0GB472JA065	4.7K	1/10W	1	
	R3801	D0GAR00J0005	0	1/16W	1	
	R3802	D0GAR00J0005	0	1/16W	1	
	R3803	D0GAR00J0005	0	1/16W	1	
	R3804	D0GA102JA023	1K	1/16W	1	
	R3805	D0GAR00J0005	0	1/16W	1	
	R3806	D0GAR00J0005	0	1/16W	1	
	R3807	D0GAR00J0005	0	1/16W	1	
	R3808	D0GB750JA065	75	1/10W	1	
	R3901	D0GA511JA023	510	1/16W	1	
	R3902	D0GA103JA023	10K	1/16W	1	
	R3903	D0GA103JA023	10K	1/16W	1	
	R3904	D0GA472JA023	4.7K	1/16W	1	
	R3905	D0GA202JA023	2.0K	1/16W	1	
	R3906	D0GA472JA023	4.7K	1/16W	1	
	R3907	D0GA202JA023	2.0K	1/16W	1	
	R3921	D0GAR00J0005	0	1/16W	1	
	R3924	D0GAR00J0005	0	1/16W	1	
	R3925	D0GA103JA023	10K	1/16W	1	
	R3947	D0GA103JA023	10K	1/16W	1	
	R3952	D0GA510JA023	51	1/16W	1	
	R4000	D0GBR00J0004	0	1/10W	1	
	R4001	D0GB152JA065	1.5K	1/10W	1	
	R4002	D0GB105JA065	1M	1/10W	1	
	R4003	D0GAR00J0005	0	1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R4004	D0GAR00J0005	0	1/16W	1	
	R4005	D0GAR00J0005	0	1/16W	1	
	R4006	D0GAR00J0005	0	1/16W	1	
	R4007	D0GB101JA065	100	1/10W	1	
	R4008	D0GB101JA065	100	1/10W	1	
	R4009	D0GB101JA065	100	1/10W	1	
	R4010	D0GB101JA065	100	1/10W	1	
	R4013	D0GB101JA065	100	1/10W	1	
	R4014	D0GB101JA065	100	1/10W	1	
	R4024	D0GA103JA023	10K	1/16W	1	
	R4025	D0GB101JA065	100	1/10W	1	
	R4026	D0GB101JA065	100	1/10W	1	
	R4029	D0GB101JA065	100	1/10W	1	
	R4030	D0GB101JA065	100	1/10W	1	
	R4031	D0GB101JA065	100	1/10W	1	
	R4035	D0GB101JA065	100	1/10W	1	
	R4048	D0GB681JA065	680	1/10W	1	
	R4049	D0GB104JA065	100K	1/10W	1	
	R4105	D0GA101JA023	100	1/16W	1	
	R4581	D0GB221JA065	220	1/10W	1	
	R4589	D0GBR00J0004	0	1/10W	1	
	R4801	D0GB152JA065	1.5K	1/10W	1	
	R4802	D0GB105JA065	1M	1/10W	1	
	R4803	D0GA473JA023	47K	1/16W	1	
	R4804	D0GA473JA023	47K	1/16W	1	
	R4805	D0GA103JA023	10K	1/16W	1	
	R4806	D0GA103JA023	10K	1/16W	1	
	R4807	D0GA103JA023	10K	1/16W	1	
	R4808	D0GA221JA023	220	1/16W	1	
	R4809	D0GA330JA023	33	1/16W	1	
	R4810	D0GA330JA023	33	1/16W	1	
	R4811	D0GA221JA023	220	1/16W	1	
	R4816	J0JCC0000308	INDUCTOR		1	
	R4846	D0GB102JA065	1K	1/10W	1	
	R4847	D0GB102JA065	1K	1/10W	1	
	R4848	D0GB221JA065	220	1/10W	1	
	R4849	D0GB221JA065	220	1/10W	1	
	R4851	D0GB221JA065	220	1/10W	1	
	R4852	D0GB221JA065	220	1/10W	1	
	R4853	D0GB221JA065	220	1/10W	1	
	R4854	D0GB221JA065	220	1/10W	1	
	R4856	D0GA101JA023	100	1/16W	1	
	R4858	D0GAR00J0005	0	1/16W	1	
	R4863	D0GB221JA065	220	1/10W	1	
	R4864	D0GBR00J0004	0	1/10W	1	
	R6000	D0GB272JA065	2.7K	1/10W	1	
	R6001	D0GB470JA065	47	1/10W	1	
	R6002	D0GB101JA065	100	1/10W	1	
	R6003	D0GB181JA065	180	1/10W	1	
	R6004	D0GB681JA065	680	1/10W	1	
	R6005	D0GB181JA065	180	1/10W	1	
	R6006	D0GB103JA065	10K	1/10W	1	
	R6007	D0GB103JA065	10K	1/10W	1	
	R6008	D0GB103JA065	10K	1/10W	1	
	R6009	D0GB103JA065	10K	1/10W	1	
	R6012	D0GB331JA065	330	1/10W	1	
	R6016	D0GB221JA065	220	1/10W	1	
	R6017	D0GB471JA065	470	1/10W	1	
	R6018	D0GB221JA065	220	1/10W	1	
	R6023	D0GB823JA065	82K	1/10W	1	
	R6025	D0GB562JA065	5.6K	1/10W	1	
	R6026	D0GB220JA065	22	1/10W	1	
	R6028	D0GB1R0JA065	1.0	1/10W	1	
	R6029	D0GB473JA065	47K	1/10W	1	
	R6030	D0GB1R0JA065	1.0	1/10W	1	
	R6032	D0GB100JA065	10	1/10W	1	
	R6033	D0GB223JA065	22K	1/10W	1	
	R6035	D0GB272JA065	2.7K	1/10W	1	
	R6036	D0GB272JA065	2.7K	1/10W	1	
	R6037	D0GBR00J0004	0	1/10W	1	
	R6038	D0GB103JA065	10K	1/10W	1	
	R6100	D0GB103JA065	10K	1/10W	1	
	R6101	D0GB472JA065	4.7K	1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6104	D0GB103JA065	10K 1/10W	1	
	R6104	D0GBR00J0004	0 1/10W	1	
	R6105	D0GB151JA065	150 1/10W	1	
	R6105	D0GB472JA065	4.7K 1/10W	1	
	R6106	D0GB391JA065	390 1/10W	1	
	R6106	D0GB472JA065	4.7K 1/10W	1	
	R6107	D0GB151JA065	150 1/10W	1	
	R6107	D0GB472JA065	4.7K 1/10W	1	
	R6108	D0GB102JA065	1K 1/10W	1	
	R6109	D0GB102JA065	1K 1/10W	1	
	R6109	D0GB103JA065	10K 1/10W	1	
	R6110	D0GB103JA065	10K 1/10W	1	
	R6111	D0GB103JA065	10K 1/10W	1	
	R6112	D0GB102JA065	1K 1/10W	1	
	R6112	D0GB391JA065	390 1/10W	1	
	R6113	D0GB102JA065	1K 1/10W	1	
	R6113	D0GB221JA065	220 1/10W	1	
	R6116	D0GBR00J0004	0 1/10W	1	
	R6117	D0GB103JA065	10K 1/10W	1	
	R6118	D0GB103JA065	10K 1/10W	1	
	R6122	D0GB221JA065	220 1/10W	1	
	R6136	D0GFR00J0005	0 1/4W	1	
	R6208	D0GB103JA065	10K 1/10W	1	
	R6209	D0GB103JA065	10K 1/10W	1	
	R6301	D0GB100JA065	10 1/10W	1	
	R6400	D0GB331JA065	330 1/10W	1	
	R8001	D0GA103JA023	10K 1/16W	1	
	R8003	D0GA103JA023	10K 1/16W	1	
	R8011	D0GA220JA023	22 1/16W	1	
	R8012	D0GA220JA023	22 1/16W	1	
	R8013	D0GA220JA023	22 1/16W	1	
	R8211	D0GA103JA023	10K 1/16W	1	
	R8221	D0GA333JA023	33K 1/16W	1	
	R8225	D0GA333JA023	33K 1/16W	1	
	R8230	D0GA222JA023	2.2K 1/16W	1	
	R8231	D0GA242JA023	2.4K 1/16W	1	
	R8232	D0GA562JA023	5.6K 1/16W	1	
	R8258	ERJ2RHD6191X	6.19K 1/16W	1	
	R8259	D0GA103JA023	10K 1/16W	1	
	R8260	D0GA103JA023	10K 1/16W	1	
	R8261	D0GA103JA023	10K 1/16W	1	
	R8262	D0GA103JA023	10K 1/16W	1	
	R8263	D0GA472JA023	4.7K 1/16W	1	
	R8264	ERJ2RHD1001X	1K 1/16W	1	
	R8265	ERJ2RHD1001X	1K 1/16W	1	
	R8267	D0GA683JA023	68K 1/16W	1	
	R8268	ERJ2GEJ183X	18K 1/16W	1	
	R8269	D0GA683JA023	68K 1/16W	1	
	R8270	ERJ2GEJ183X	18K 1/16W	1	
	R8311	D1BA2401A022	2.4K 1/16W	1	
	R8312	D1BA1001A022	1K 1/16W	1	
	R8313	D1BA1502A022	15K 1/16W	1	
	R8314	D1BA1502A022	15K 1/16W	1	
	R8315	ERJ2RKD240X	24 1/16W	1	
	R8316	ERJ2RKD240X	24 1/16W	1	
	R8317	D0GA153JA023	15K 1/16W	1	
	R8318	D0GA153JA023	15K 1/16W	1	
	R8321	ERJ3RBD201V	200 1/16W	1	
	R8325	ERJ3RBD201V	200 1/16W	1	
	R8401	D0GA101JA023	100 1/16W	1	
	R8402	D0GA101JA023	100 1/16W	1	
	R8403	D0GA101JA023	100 1/16W	1	
	R8406	D0GAR00J0005	0 1/16W	1	
	R8408	D0GA103JA023	10K 1/16W	1	
	R8409	D0GA103JA023	10K 1/16W	1	
	R8410	D0GA103JA023	10K 1/16W	1	
	R8422	D0GAR00J0005	0 1/16W	1	
	R8501	D0GA103JA023	10K 1/16W	1	
	R8502	D0GA103JA023	10K 1/16W	1	
	R8503	D0GA103JA023	10K 1/16W	1	
	R8504	D0GA103JA023	10K 1/16W	1	
	R8531	D0GA152JA023	1.5K 1/16W	1	
	R8532	D0GA222JA023	2.2K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R8533	D0GAR00J0005	0 1/16W	1	
	R8534	D0GA103JA023	10K 1/16W	1	
	R8535	D0GA104JA023	100K 1/16W	1	
	R8536	D0GA103JA023	10K 1/16W	1	
	R8537	D0GAR00J0005	0 1/16W	1	
	R8538	D0GAR00J0005	0 1/16W	1	
	R8539	D0GAR00J0005	0 1/16W	1	
	R8541	D0GA153JA023	15K 1/16W	1	
	R8542	D0GAR00J0005	0 1/16W	1	
	R8551	D0GAR00J0005	0 1/16W	1	
	R8552	D0GA102JA023	1K 1/16W	1	
	R8553	D0GA102JA023	1K 1/16W	1	
	R8554	D0GA680JA023	68 1/16W	1	
	R8555	D0GA2R2JA023	2.2 1/16W	1	
	R8556	D0GB560JA065	56 1/10W	1	
	R8557	D0GB510JA065	51 1/10W	1	
	R8558	D0GA473JA023	47K 1/16W	1	
	R8559	D0GA153JA023	15K 1/16W	1	
	R8561	D0GAR00J0005	0 1/16W	1	
	R8562	D0GA102JA023	1K 1/16W	1	
	R8563	D0GA102JA023	1K 1/16W	1	
	R8564	D0GA220JA023	22 1/16W	1	
	R8565	D0GA2R2JA023	2.2 1/16W	1	
	R8566	D0GB560JA065	56 1/10W	1	
	R8567	D0GB510JA065	51 1/10W	1	
	R8568	D0GA473JA023	47K 1/16W	1	
	R8601	D0GA104JA023	100K 1/16W	1	
	R8602	D0GAR00J0005	0 1/16W	1	
	R8611	D0GA101JA023	100 1/16W	1	
	R8613	D0GA101JA023	100 1/16W	1	
	R8621	D0GA105JA023	1M 1/16W	1	
	R8622	D1BA1001A022	1K 1/16W	1	
	R8702	D0GA100JA023	10 1/16W	1	
	R8901	D0GA100JA023	10 1/16W	1	
	R9001	D0GAR00J0005	0 1/16W	1	
	R9002	D0GAR00J0005	0 1/16W	1	
	R9003	D0GB222JA065	2.2K 1/10W	1	
	R9006	D0GB331JA065	330 1/10W	1	
	R9007	D0GA103JA023	10K 1/16W	1	
	R9007	D0GB104JA065	100K 1/10W	1	
	R9008	D0GA105JA023	1M 1/16W	1	
	R9009	D0GA152JA023	1.5K 1/16W	1	
	R9010	D0GA100JA023	10 1/16W	1	
	R9016	D0GBR00J0004	0 1/10W	1	
	R9017	D0GB474JA065	470K 1/10W	1	
	R9018	D0GB474JA065	470K 1/10W	1	
	R9019	D0GB222JA065	2.2K 1/10W	1	
	R9020	D0GB222JA065	2.2K 1/10W	1	
	R9023	D0GA103JA023	10K 1/16W	1	
	R9040	D0GA103JA023	10K 1/16W	1	
	R9041	D0GA103JA023	10K 1/16W	1	
	R9043	D0GA103JA023	10K 1/16W	1	
	R9044	D0GA103JA023	10K 1/16W	1	
	R9045	D0GA103JA023	10K 1/16W	1	
	R9046	D0GA103JA023	10K 1/16W	1	
	R9047	D0GA103JA023	10K 1/16W	1	
	R9048	D0GA103JA023	10K 1/16W	1	
	R9049	D0GA103JA023	10K 1/16W	1	
	R9055	D0GA472JA023	4.7K 1/16W	1	
	R9080	D0GA103JA023	10K 1/16W	1	
	R9083	D0GA470JA023	47 1/16W	1	
	R9084	D0GA470JA023	47 1/16W	1	
	R9085	D0GA470JA023	47 1/16W	1	
	R9086	D0GA470JA023	47 1/16W	1	
	R9087	D0GA470JA023	47 1/16W	1	
	R9088	D0GA470JA023	47 1/16W	1	
	R9089	D0GA103JA023	10K 1/16W	1	
	LB8691	D0GA101JA023	100 1/16W	1	
	LB8692	D0GA101JA023	100 1/16W	1	
	LB8693	D0GA101JA023	100 1/16W	1	
			RESISTOR NETWORKS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	RX2301	D1H81034A042	RESISTOR NETWORK	1	
	RX2302	D1H81014A042	RESISTOR NETWORK	1	
	RX2303	D1H81014A042	RESISTOR NETWORK	1	
	RX2304	D1H81034A042	RESISTOR NETWORK	1	
	RX2305	D1H41012A014	RESISTOR NETWORK	1	
	RX2306	D1H81014A042	RESISTOR NETWORK	1	
	RX2307	D1H81014A042	RESISTOR NETWORK	1	
	RX2308	D1H81014A042	RESISTOR NETWORK	1	
	RX2309	D1H81014A042	RESISTOR NETWORK	1	
	RX3707	D1H84714A043	RESISTOR NETWORK	1	
	RX3708	D1H84714A043	RESISTOR NETWORK	1	
	RX3901	D1H41012A014	RESISTOR NETWORK	1	
	RX4801	D1H82214A042	RESISTOR NETWORK	1	
	RX4803	D1H82214A042	RESISTOR NETWORK	1	
	RX4804	D1H83304A042	RESISTOR NETWORK	1	
	RX4805	D1H81014A042	RESISTOR NETWORK	1	
	RX8001	D1H41032A014	RESISTOR NETWORK	1	
	RX8011	D1H88204A043	RESISTOR NETWORK	1	
	RX8012	D1H88204A043	RESISTOR NETWORK	1	
	RX8013	D1H88204A043	RESISTOR NETWORK	1	
	RX8014	D1H88204A043	RESISTOR NETWORK	1	
	RX8015	D1H88204A043	RESISTOR NETWORK	1	
	RX8016	D1H88204A043	RESISTOR NETWORK	1	
	RX8017	D1H88204A043	RESISTOR NETWORK	1	
	RX8018	D1H42202A014	RESISTOR NETWORK	1	
	RX8019	D1H42202A014	RESISTOR NETWORK	1	
	RX8020	D1H42202A014	RESISTOR NETWORK	1	
	RX8031	D1H44722A014	RESISTOR NETWORK	1	
	RX8032	D1H44722A014	RESISTOR NETWORK	1	
	RX8401	D1H41012A014	RESISTOR NETWORK	1	
	RX8402	D1H41012A014	RESISTOR NETWORK	1	
	RX8531	D1H45602A014	RESISTOR NETWORK	1	
	RX8532	D1H45602A014	RESISTOR NETWORK	1	
	RX8533	D1H45602A014	RESISTOR NETWORK	1	
	RX8611	D1H44722A014	RESISTOR NETWORK	1	
	RX9014	D1H85604A043	RESISTOR NETWORK	1	
	RX9015	D1H85604A043	RESISTOR NETWORK	1	
	RX9016	D1H85604A043	RESISTOR NETWORK	1	
	RX9017	D1H85604A043	RESISTOR NETWORK	1	
	RX9018	D1H44722A014	RESISTOR NETWORK	1	
	RX9020	D1H44722A014	RESISTOR NETWORK	1	
			CAPACITORS		
	C51	F1H1H102B047	1000pF 50V	1	
	C52	F1H1A474A107	0.47uF 10V	1	
	C61	F1H1H104B047	0.1uF 50V	1	
	C62	F1H1H104B047	0.1uF 50V	1	
	C63	F1H1H6R0B050	6.0pF 50V	1	
	C64	F1H1H3R0B050	3.0pF 50V	1	
	C65	F1H1H3R0B050	3.0pF 50V	1	
	C66	F1H1H330B052	33pF 50V	1	
	C67	F1H1H3R0B050	3.0pF 50V	1	
	C1001	F1H1C104A178	0.1uF 16V	1	
	C1002	F1H1C104A178	0.1uF 16V	1	
	C1003	F1H1C104A178	0.1uF 16V	1	
	C1004	F1H1C104A178	0.1uF 16V	1	
	C1005	F1H1C104A178	0.1uF 16V	1	
	C1006	F1H1C104A178	0.1uF 16V	1	
	C1007	F1H1C104A178	0.1uF 16V	1	
	C1008	F1H1C104A178	0.1uF 16V	1	
	C1009	F1H1C104A178	0.1uF 16V	1	
	C1010	F1H1C104A178	0.1uF 16V	1	
	C1016	F1H1H681B052	680pF 50V	1	
	C1017	F2A0J331A183	330uF 6.3V	1	
	C1019	F1H1C104A178	0.1uF 16V	1	
	C1020	F1H0J1060006	10uF 6.3V	1	
	C1021	F1H0J1060006	10uF 6.3V	1	
	C1022	F1H0J1060006	10uF 6.3V	1	
	C1023	F1H0J1060006	10uF 6.3V	1	
	C1024	F1H0J1060006	10uF 6.3V	1	
	C1025	F1H0J1060012	10uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1026	F1H1H9R0A920	9pF 50V	1	
	C1027	F1H1H9R0A920	9pF 50V	1	
	C1028	F1H1H220B052	22pF 50V	1	
	C1029	F1H1H270B052	27pF 50V	1	
	C1030	F1H1H101B052	100pF 50V	1	
	C1031	F1H1H102B047	1000pF 50V	1	
	C1032	F1H1H102B047	1000pF 50V	1	
	C1033	F1H1H102B047	1000pF 50V	1	
	C1034	F1H1H102B047	1000pF 50V	1	
	C1035	F1H1H102B047	1000pF 50V	1	
	C1036	F1H1H102B047	1000pF 50V	1	
	C1039	F2A1C330A243	33uF 16V	1	
	C1040	F1H1C104A178	0.1uF 16V	1	
	C1041	F1H1C104A178	0.1uF 16V	1	
	C1042	F1H1A334A036	0.33uF 10V	1	
	C1043	F1H1E223A161	0.022uF 25V	1	
	C1047	F1H1C104A178	0.1uF 16V	1	
	C1048	F1H1C104A178	0.1uF 16V	1	
	C1060	F1H1H102A219	1000pF 50V	1	
	C1400	F1H1H102B047	1000pF 50V	1	
	C1401	F2A1H4R7A213	4.7uF 50V	1	
	C1402	F1H1H470B052	47pF 50V	1	
	C1403	F2A1HR10A015	0.10uF 50V	1	
	C1404	F2A1H4R7A218	4.7uF 50V	1	
	C1406	F2A1H1R0A213	1.0uF 50V	1	
	C1407	F1H1H222B047	2200pF 50V	1	
	C1408	F2A1H1R0A213	1.0uF 50V	1	
	C1409	F1H1H472A219	4700pF 50V	1	
	C1411	F2A1C100A207	10uF 16V	1	
	C1412	F2A1C100A234	10uF 16V	1	
	C1413	F2A1H1R0A213	1.0uF 50V	1	
	C1415	F2A1HR10A015	0.10uF 50V	1	
	C1416	F1H1H103B047	0.01uF 50V	1	
	C1417	F1H1H102B047	1000pF 50V	1	
	C1424	F2A1H1R0A213	1.0uF 50V	1	
	C1425	F1H1H222B047	2200pF 50V	1	
	C1426	F2A1H1R0A213	1.0uF 50V	1	
	C1428	F2A1H4R7A218	4.7uF 50V	1	
	C1429	F2A1HR10A015	0.10uF 50V	1	
	C1430	F1H1H470B052	47pF 50V	1	
	C1431	F1H1H472A219	4700pF 50V	1	
	C1432	F2A1H4R7A213	4.7uF 50V	1	
	C1434	F2A1C100A207	10uF 16V	1	
	C1435	F2A1C100A234	10uF 16V	1	
	C1436	F2A1H1R0A213	1.0uF 50V	1	
	C1438	F2A1HR10A015	0.10uF 50V	1	
	C1441	F1H1H103B047	0.01uF 50V	1	
	C1442	F1H1H102A831	1000pF 50V	1	
	C2100	F1J1A106A024	10uF 10V	1	
	C2101	F1J1A106A024	10uF 10V	1	
	C2103	F1H1H104B047	0.1uF 50V	1	
	C2104	F1J1A106A024	10uF 10V	1	
	C2106	F1H1H104B047	0.1uF 50V	1	
	C2107	F2A1A221B161	220uF 10V	1	
	C2108	F1J1A106A024	10uF 10V	1	
	C2109	F2A1A101B138	100uF 10V	1	
	C2110	F1J1A106A024	10uF 10V	1	
	C2111	F1H1H470B052	47pF 50V	1	
	C2112	F1H1H821B052	820pF 50V	1	
	C2113	F2A0J101A181	100uF 6.3V	1	
	C2115	F2A1E101B416	100uF 25V	1	
	C2116	F1H1H104B047	0.1uF 50V	1	
	C2117	F1H1H104B047	0.1uF 50V	1	
	C2118	F1H1E105A153	1uF 25V	1	
	C2121	F1J1A106A024	10uF 10V	1	
	C2122	F1H1H103B047	0.01uF 50V	1	
	C2123	F1K1H475A256	4.7uF 50V	1	
	C2124	F2A0J221B034	220uF 6.3V	1	
	C2126	F1H1H104B047	0.1uF 50V	1	
	C2128	F1K1H475A256	4.7uF 50V	1	
	C2129	F1H1E105A153	1uF 25V	1	
	C2130	F2A0J101A181	100uF 6.3V	1	
	C2131	F1H1E105A153	1uF 25V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2132	F2A0J221B034	220uF 6.3V	1	
	C2133	F1H1H103B047	0.01uF 50V	1	
	C2134	F1H1H103B047	0.01uF 50V	1	
	C2135	F2A1C221B456	220uF 16V	1	
	C2136	F1H1H103B047	0.01uF 50V	1	
	C2137	F2A1H1020067	1000uF 50V	1	
	C2138	F1H1H102B047	1000pF 50V	1	
	C2139	F1H1H103B047	0.01uF 50V	1	
	C2140	F1H1H470B052	47pF 50V	1	
	C2142	F1K1E1060009	10uF 25V	1	
	C2143	F2A0J102A247	1000uF 6.3V	1	
	C2144	F1H1H104B047	0.1uF 50V	1	
	C2145	F1H1H104B047	0.1uF 50V	1	
	C2148	F1K1H475A256	4.7uF 50V	1	
	C2149	F1K1E1060009	10uF 25V	1	
	C2150	F1H1H103B047	0.01uF 50V	1	
	C2151	F1H1H102B047	1000pF 50V	1	
	C2152	F1H1H104B047	0.1uF 50V	1	
	C2153	F1H1H470B052	47pF 50V	1	
	C2155	F2A1A221B161	220uF 10V	1	
	C2157	F1H1H104B047	0.1uF 50V	1	
	C2158	F2A1C221B456	220uF 16V	1	
	C2159	F1H1H681B052	680pF 50V	1	
	C2164	F1H1A105A113	1uF 10V	1	
	C2165	F1H1A105A113	1uF 10V	1	
	C2167	F1J1A106A024	10uF 10V	1	
	C2168	F1J1A106A024	10uF 10V	1	
	C2170	F2A0J102A247	1000uF 6.3V	1	
	C2171	F2A1H4710072	470uF 50V	1	
	C2174	F1H1H104B047	0.1uF 50V	1	
	C2175	F1H1H681B052	680pF 50V	1	
	C2176	F1H1H104B047	0.1uF 50V	1	
	C2177	F1H1H104B047	0.1uF 50V	1	
	C2178	F1H1H104B047	0.1uF 50V	1	
	C2179	F1H1H104B047	0.1uF 50V	1	
	C2180	F1H1H104B047	0.1uF 50V	1	
	C2181	F1H1H104B047	0.1uF 50V	1	
	C2182	F1H1H104B047	0.1uF 50V	1	
	C2183	F1H1H104B047	0.1uF 50V	1	
	C2184	F1H1H681B052	680pF 50V	1	
	C2185	F1H1H102A219	1000pF 50V	1	
	C2186	F1H1H102A219	1000pF 50V	1	
	C2303	F1H0J105A051	1uF 6.3V	1	
	C2304	F1H1H104B055	0.1uF 50V	1	
	C2305	F1H1H104B055	0.1uF 50V	1	
	C2306	F1H1H104B055	0.1uF 50V	1	
	C2307	F1H1H104B055	0.1uF 50V	1	
	C2308	F1H0J105A051	1uF 6.3V	1	
	C2309	F1H0J105A051	1uF 6.3V	1	
	C2310	F1H0J105A051	1uF 6.3V	1	
	C2312	F1H1H104B055	0.1uF 50V	1	
	C2313	F1H1H104B055	0.1uF 50V	1	
	C2314	F1H0J1060006	10uF 6.3V	1	
	C2500	F1H1H221B047	220pF 50V	1	
	C2501	F1H1H221B047	220pF 50V	1	
	C2502	F1H1H102B047	1000pF 50V	1	
	C2503	F1H1H102B047	1000pF 50V	1	
	C2504	F1H1A105A113	1uF 10V	1	
	C2505	F1H1A105A113	1uF 10V	1	
	C2506	F1H1H102B047	1000pF 50V	1	
	C2507	F1H1H102B047	1000pF 50V	1	
	C2509	F1H1H102A831	1000pF 50V	1	
	C2512	F1H1H102A831	1000pF 50V	1	
	C2513	F1H1H102A831	1000pF 50V	1	
	C2525	F1H1H102B047	1000pF 50V	1	
	C2526	F1H1H102B047	1000pF 50V	1	
	C2527	F1H1H102B047	1000pF 50V	1	
	C2528	F1H1H102B047	1000pF 50V	1	
	C2530	F1H1H104B047	0.1uF 50V	1	
	C2531	F1H1H104B047	0.1uF 50V	1	
	C2532	F1H1H104B047	0.1uF 50V	1	
	C2533	F1H1H102B047	1000pF 50V	1	
	C2534	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2535	F1H1H104B047	0.1uF 50V	1	
	C2536	F1H1H104B047	0.1uF 50V	1	
	C2537	F1H1H104B047	0.1uF 50V	1	
	C2662	D0GBR00J0004	0 1/10W	1	
	C3000	F2A1C330B453	33uF 16V	1	
	C3001	F1J1C106A059	10uF 16V	1	
	C3002	F1H1H104B047	0.1uF 50V	1	
	C3003	F1H1H104B047	0.1uF 50V	1	
	C3004	F1H1H104B047	0.1uF 50V	1	
	C3005	F1H1H104B047	0.1uF 50V	1	
	C3006	F1H1H104B047	0.1uF 50V	1	
	C3007	F1H1H104B047	0.1uF 50V	1	
	C3008	F1H1H333B055	0.033uF 50V	1	
	C3009	F1H1H333B055	0.033uF 50V	1	
	C3010	F1H1H104B047	0.1uF 50V	1	
	C3011	F1K1H105A250	1uF 50V	1	
	C3012	F1K1H105A250	1uF 50V	1	
	C3013	F1H1H102B047	1000pF 50V	1	
	C3014	F1H1H102B047	1000pF 50V	1	
	C3018	F1H1H104B047	0.1uF 50V	1	
	C3019	F1K1H105A250	1uF 50V	1	
	C3020	F1K1H105A250	1uF 50V	1	
	C3021	F1H1H102B047	1000pF 50V	1	
	C3022	F1H1H102B047	1000pF 50V	1	
	C3026	F1H1H333B055	0.033uF 50V	1	
	C3027	F1H1H333B055	0.033uF 50V	1	
	C3100	F1J1C1060006	10uF 16V	1	
	C3101	F1H1H104B047	0.1uF 50V	1	
	C3102	F1H1H104B047	0.1uF 50V	1	
	C3103	F1H1H104B047	0.1uF 50V	1	
	C3104	F1H1H104B047	0.1uF 50V	1	
	C3105	F1H1H104B047	0.1uF 50V	1	
	C3106	F1H1H104B047	0.1uF 50V	1	
	C3107	F1H1H333B055	0.033uF 50V	1	
	C3108	F1H1H333B055	0.033uF 50V	1	
	C3109	F1H1H102B047	1000pF 50V	1	
	C3110	F1H1H102B047	1000pF 50V	1	
	C3111	F1H1H104B047	0.1uF 50V	1	
	C3112	F1K1H105A250	1uF 50V	1	
	C3113	F1K1H105A250	1uF 50V	1	
	C3117	F1H1H104B047	0.1uF 50V	1	
	C3118	F1K1H105A250	1uF 50V	1	
	C3119	F1K1H105A250	1uF 50V	1	
	C3120	F1H1H102B047	1000pF 50V	1	
	C3121	F1H1H102B047	1000pF 50V	1	
	C3122	F1H1H333B055	0.033uF 50V	1	
	C3123	F1H1H333B055	0.033uF 50V	1	
	C3200	F1J1C1060006	10uF 16V	1	
	C3201	F1H1H104B047	0.1uF 50V	1	
	C3202	F1H1H104B047	0.1uF 50V	1	
	C3203	F1H1H104B047	0.1uF 50V	1	
	C3204	F1H1H104B047	0.1uF 50V	1	
	C3205	F1H1H104B047	0.1uF 50V	1	
	C3206	F1H1H104B047	0.1uF 50V	1	
	C3207	F1H1H333B055	0.033uF 50V	1	
	C3208	F1H1H333B055	0.033uF 50V	1	
	C3209	F1H1H102B047	1000pF 50V	1	
	C3210	F1H1H102B047	1000pF 50V	1	
	C3211	F1H1H104B047	0.1uF 50V	1	
	C3212	F1K1H105A250	1uF 50V	1	
	C3213	F1K1H105A250	1uF 50V	1	
	C3217	F1H1H104B047	0.1uF 50V	1	
	C3218	F1K1H105A250	1uF 50V	1	
	C3219	F1K1H105A250	1uF 50V	1	
	C3220	F1H1H102B047	1000pF 50V	1	
	C3221	F1H1H102B047	1000pF 50V	1	
	C3222	F1H1H333B055	0.033uF 50V	1	
	C3223	F1H1H333B055	0.033uF 50V	1	
	C3505	F1H1H102B047	1000pF 50V	1	
	C3506	F1H1H102B047	1000pF 50V	1	
	C3508	F1H1H102B047	1000pF 50V	1	
	C3509	F1H1H102B047	1000pF 50V	1	
	C3512	F1H1H102B047	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C3513	F1H1H102B047	1000pF 50V	1	
	C3527	F1H1H102B047	1000pF 50V	1	
	C3528	F1H1H102B047	1000pF 50V	1	
	C3529	F1H1H103B047	0.01uF 50V	1	
	C3530	F1H1H103B047	0.01uF 50V	1	
	C3531	F1H1H102B047	1000pF 50V	1	
	C3532	F1H1H102B047	1000pF 50V	1	
	C3533	F1H1H103B047	0.01uF 50V	1	
	C3534	F1H1H103B047	0.01uF 50V	1	
	C3535	F1H1H102B047	1000pF 50V	1	
	C3536	F1H1H102B047	1000pF 50V	1	
	C3537	F1H1H103B047	0.01uF 50V	1	
	C3538	F1H1H103B047	0.01uF 50V	1	
	C3548	D0GBR00J0004	0 1/10W	1	
	C3549	F1J1A106A043	10uF 10V	1	
	C3550	F1J1A106A043	10uF 10V	1	
	C3551	F1H1E105A153	1uF 25V	1	
	C3561	ECQV1H105JL3	1uF 50V	1	
	C3562	ECQV1H105JL3	1uF 50V	1	
	C3563	ECQV1H105JL3	1uF 50V	1	
	C3564	ECQV1H105JL3	1uF 50V	1	
	C3565	ECQV1H105JL3	1uF 50V	1	
	C3566	ECQV1H105JL3	1uF 50V	1	
	C3567	F1K2A224A016	0.22uF 100V	1	
	C3568	F1K2A224A016	0.22uF 100V	1	
	C3569	F1K2A224A016	0.22uF 100V	1	
	C3801	EEEHB0J102UP	1000uF 6.3V	1	
	C3802	F1H1H103B047	0.01uF 50V	1	
	C3803	EEEHB0J101P	100uF 6.3V	1	
	C3804	EEEHB0J220R	22uF 6.3V	1	
	C3805	F1H1H103B047	0.01uF 50V	1	
	C3806	F1H1H104B047	0.1uF 50V	1	
	C3807	F1H1H101B052	100pF 50V	1	
	C3901	EEE0GA331WP	330uF 4V	1	
	C3902	EEE0GA331WP	330uF 4V	1	
	C3904	EEE0GA331WP	330uF 4V	1	
	C3906	EEE0GA331WP	330uF 4V	1	
	C3907	F1G1A1040006	0.1uF 10V	1	
	C3908	F1G1A1040006	0.1uF 10V	1	
	C3909	F1H0J1050013	1uF 6.3V	1	
	C3910	F1G1A1040006	0.1uF 10V	1	
	C3911	F1H0J1050013	1uF 6.3V	1	
	C3913	F1G1A1040006	0.1uF 10V	1	
	C3914	F1G1A1040006	0.1uF 10V	1	
	C3915	F1H0J1050013	1uF 6.3V	1	
	C3916	F1G1A1040006	0.1uF 10V	1	
	C3917	F1H0J1050013	1uF 6.3V	1	
	C3918	F1G1A1040006	0.1uF 10V	1	
	C3919	F1H0J1050013	1uF 6.3V	1	
	C3920	F1H0J1050013	1uF 6.3V	1	
	C3921	F1G1A1040006	0.1uF 10V	1	
	C3922	F1G1A1040006	0.1uF 10V	1	
	C3923	F1H0J1050013	1uF 6.3V	1	
	C3924	F1H0J1050013	1uF 6.3V	1	
	C3925	F1G1A1040006	0.1uF 10V	1	
	C3926	F1G1A1040006	0.1uF 10V	1	
	C3927	F1H0J1050013	1uF 6.3V	1	
	C3928	F1G1A1040006	0.1uF 10V	1	
	C3929	F1G1A1040006	0.1uF 10V	1	
	C3930	F1H0J1050013	1uF 6.3V	1	
	C3932	F1H0J1050013	1uF 6.3V	1	
	C3940	F1G1A1040006	0.1uF 10V	1	
	C3954	F1G1C104A146	0.1uF 16V	1	
	C3955	F1G1C103A146	0.01uF 16V	1	
	C3956	F1H0J1050013	1uF 6.3V	1	
	C3964	F1G1A1040006	0.1uF 10V	1	
	C3965	F1G1H100A541	10pF 50V	1	
	C3966	F1H0J1050013	1uF 6.3V	1	
	C4002	F1H0J105A051	1uF 6.3V	1	
	C4003	F1H0J105A051	1uF 6.3V	1	
	C4004	F1H1C474A178	0.47uF 16V	1	
	C4005	F1H1H150B052	15pF 50V	1	
	C4006	F1H1H150B052	15pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C4007	F1H0J105A051	1uF 6.3V	1	
	C4008	F1H0J105A051	1uF 6.3V	1	
	C4009	F1H0J105A051	1uF 6.3V	1	
	C4010	F1H1H102B047	1000pF 50V	1	
	C4011	F1H1H102B047	1000pF 50V	1	
	C4017	F1H0J1060012	10uF 6.3V	1	
	C4018	F2A1C470A155	47uF 16V	1	
	C4019	F2A1C220A243	22uF 16V	1	
	C4020	F2A1C220A243	22uF 16V	1	
	C4041	F1H1H473A748	0.047uF 50V	1	
	C4042	F1H1H473A748	0.047uF 50V	1	
	C4043	F1H1H473A748	0.047uF 50V	1	
	C4044	F1H1H473A748	0.047uF 50V	1	
	C4454	F1H1H104B047	0.1uF 50V	1	
	C4455	F1H1H104B047	0.1uF 50V	1	
	C4456	F1H1H104B047	0.1uF 50V	1	
	C4458	F1H1H104B047	0.1uF 50V	1	
	C4459	F1H1A105A113	1uF 10V	1	
	C4460	F1H1A105A113	1uF 10V	1	
	C4582	F1H1A105A113	1uF 10V	1	
	C4801	F1H0J1060006	10uF 6.3V	1	
	C4802	F1H1H102B047	1000pF 50V	1	
	C4803	F1H0J1060006	10uF 6.3V	1	
	C4804	F1H1C104A041	0.1uF 16V	1	
	C4805	F1H0J1060006	10uF 6.3V	1	
	C4806	F1H1H101B052	100pF 50V	1	
	C4807	F1H0J1060006	10uF 6.3V	1	
	C4808	F1H1A105A028	1uF 10V	1	
	C4809	F1H1H1200004	12pF 50V	1	
	C4810	F1H1H1500009	15pF 50V	1	
	C4811	F1H1H102B047	1000pF 50V	1	
	C4812	F1H1H102B047	1000pF 50V	1	
	C4815	F1H1C104A041	0.1uF 16V	1	
	C4826	F1H1A105A028	1uF 10V	1	
	C4827	F1H1A105A028	1uF 10V	1	
	C4838	F1H1A105A113	1uF 10V	1	
	C4839	F1H1A105A113	1uF 10V	1	
	C4842	F1H1H222B047	2200pF 50V	1	
	C4843	F1H1H222B047	2200pF 50V	1	
	C4844	F1H0J1060006	10uF 6.3V	1	
	C4845	F1H1H104B047	0.1uF 50V	1	
	C4846	F1H1H104B047	0.1uF 50V	1	
	C4847	F1H1H104B047	0.1uF 50V	1	
	C4848	F1H0J1060006	10uF 6.3V	1	
	C4849	F1H0J1060006	10uF 6.3V	1	
	C4850	F1H1A105A113	1uF 10V	1	
	C4851	F1H1H101B052	100pF 50V	1	
	C4852	F1H1H101B052	100pF 50V	1	
	C4853	F1H1H101B052	100pF 50V	1	
	C4854	F1H1H101B052	100pF 50V	1	
	C4855	F1H1H101B052	100pF 50V	1	
	C4856	F1H1H101B052	100pF 50V	1	
	C4858	F1H1H102B047	1000pF 50V	1	
	C4859	F1H1H104B047	0.1uF 50V	1	
	C6000	F1H1H104B047	0.1uF 50V	1	
	C6003	F1H1H102B047	1000pF 50V	1	
	C6004	F1H1H102B047	1000pF 50V	1	
	C6005	F1H1H102B047	1000pF 50V	1	
	C6006	F1H1H102B047	1000pF 50V	1	
	C6007	F1H1H102B047	1000pF 50V	1	
	C6008	F1H1H331B052	330pF 50V	1	
	C6009	F1H1H102B047	1000pF 50V	1	
	C6010	F1H1H331B052	330pF 50V	1	
	C6011	F1H1H102A219	1000pF 50V	1	
	C6012	F1H1H331B052	330pF 50V	1	
	C6013	F1H1H102B047	1000pF 50V	1	
	C6014	F1H1H102B047	1000pF 50V	1	
	C6015	F1H1H102B047	1000pF 50V	1	
	C6016	F1H1H102B047	1000pF 50V	1	
	C6017	F1H1H103A219	0.01uF 50V	1	
	C6018	F1H1H102B047	1000pF 50V	1	
	C6021	F2A1E221B422	220uF 25V	1	
	C6022	F1H1H472A219	4700pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6023	F2A1H101A147	100uF 50V	1	
	C6024	F2A1C101A115	100uF 16V	1	
	C6027	F1K1E1060009	10uF 25V	1	
	C6028	F1K1E1060009	10uF 25V	1	
	C6029	F1K1E1060009	10uF 25V	1	
	C6030	F1K1E1060009	10uF 25V	1	
	C6101	F1H1C104A178	0.1uF 16V	1	
	C6101	F1H1H101B052	100pF 50V	1	
	C6102	F1H1H101B052	100pF 50V	1	
	C6102	F1H1H561B052	560pF 50V	1	
	C6103	F1H1H561B052	560pF 50V	1	
	C6106	F1H1A105A113	1uF 10V	1	
	C6107	F1H1A105A113	1uF 10V	1	
	C6108	F1H1A105A113	1uF 10V	1	
	C6109	F1H1A105A113	1uF 10V	1	
	C6122	F1H1A105A113	1uF 10V	1	
	C6123	F1H1A105A113	1uF 10V	1	
	C6124	F1H1H681B052	680pF 50V	1	
	C6125	F1H1H681B052	680pF 50V	1	
	C6127	F1H1A105A113	1uF 10V	1	
	C6201	F1H1H101B052	100pF 50V	1	
	C6202	F1H1H101B052	100pF 50V	1	
	C6317	F1H1H103B047	0.01uF 50V	1	
	C6318	F1H1H331B052	330pF 50V	1	
	C6319	F1H1H331B052	330pF 50V	1	
	C6320	F1H1H103B047	0.01uF 50V	1	
	C6321	F1H1H103B047	0.01uF 50V	1	
	C6323	F1H1H103B047	0.01uF 50V	1	
	C6500	F1H1H101B052	100pF 50V	1	
	C6501	F1H1H102A219	1000pF 50V	1	
	C6504	F1H1H102A219	1000pF 50V	1	
	C8001	EEE0GA331WP	330uF 4V	1	
	C8003	F1G1C104A146	0.1uF 16V	1	
	C8004	F1G1C104A146	0.1uF 16V	1	
	C8005	F1G1C104A146	0.1uF 16V	1	
	C8006	F1G1C104A146	0.1uF 16V	1	
	C8007	F1G1C104A146	0.1uF 16V	1	
	C8011	F2G0J101A031	100uF 6.3V	1	
	C8012	F1G1C104A146	0.1uF 16V	1	
	C8013	F1G1C104A146	0.1uF 16V	1	
	C8014	F1G1C104A146	0.1uF 16V	1	
	C8015	F1G1C104A146	0.1uF 16V	1	
	C8016	F1G1C104A146	0.1uF 16V	1	
	C8018	F1G1C104A146	0.1uF 16V	1	
	C8020	F1G1C104A146	0.1uF 16V	1	
	C8021	F1G1C104A146	0.1uF 16V	1	
	C8022	F1G1C104A146	0.1uF 16V	1	
	C8023	F1G1C104A146	0.1uF 16V	1	
	C8026	F1G1C104A146	0.1uF 16V	1	
	C8051	F1H0J105A051	1uF 6.3V	1	
	C8052	F1G1A1040006	0.1uF 10V	1	
	C8053	F1G1C104A146	0.1uF 16V	1	
	C8054	F1G1H221A834	220pF 50V	1	
	C8055	F1H0J105A051	1uF 6.3V	1	
	C8056	F1G1H222A830	2200pF 50V	1	
	C8057	F1H0J105A051	1uF 6.3V	1	
	C8111	F1J1A106A043	10uF 10V	1	
	C8112	F1H0J105A051	1uF 6.3V	1	
	C8113	F1G1H222A830	2200pF 50V	1	
	C8151	F1H0J4750005	4.7uF 6.3V	1	
	C8152	F1G1C104A146	0.1uF 16V	1	
	C8201	F2G0J101A031	100uF 6.3V	1	
	C8202	F1G1A1040006	0.1uF 10V	1	
	C8211	F1G1E122A144	1200pF 25V	1	
	C8221	F1G1E102A144	1000pF 25V	1	
	C8222	F1G1H561A541	560pF 50V	1	
	C8225	F1G1E102A144	1000pF 25V	1	
	C8226	F1G1H681A830	680pF 50V	1	
	C8231	F1G1A1040006	0.1uF 10V	1	
	C8232	F1G1A823A032	0.082uF 10V	1	
	C8251	F2G0J101A031	100uF 6.3V	1	
	C8252	F2G1C4700061	47uF 16V	1	
	C8256	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C8301	F2G0J2210020	220uF 6.3V	1	
	C8302	F2G0J330A031	33uF 6.3V	1	
	C8303	F1G1A1040006	0.1uF 10V	1	
	C8304	F1G1A1040006	0.1uF 10V	1	
	C8305	F1G1A1040006	0.1uF 10V	1	
	C8311	F1G1A1040006	0.1uF 10V	1	
	C8312	F1H0J105A051	1uF 6.3V	1	
	C8313	F1H0J105A051	1uF 6.3V	1	
	C8320	F1G1C104A146	0.1uF 16V	1	
	C8429	F1G1C104A146	0.1uF 16V	1	
	C8501	F2G0J101A031	100uF 6.3V	1	
	C8502	F1G1C104A146	0.1uF 16V	1	
	C8503	F1G1C104A146	0.1uF 16V	1	
	C8504	F1G1C104A146	0.1uF 16V	1	
	C8505	F1G1C104A146	0.1uF 16V	1	
	C8506	F1G1C104A146	0.1uF 16V	1	
	C8511	F1H0J105A051	1uF 6.3V	1	
	C8512	F1H0J105A051	1uF 6.3V	1	
	C8513	F1G1A1040006	0.1uF 10V	1	
	C8514	F1G1A1040006	0.1uF 10V	1	
	C8515	F1G1A1040006	0.1uF 10V	1	
	C8516	F1G1A1040006	0.1uF 10V	1	
	C8521	F1G1A1040006	0.1uF 10V	1	
	C8522	F1G1A1040006	0.1uF 10V	1	
	C8523	F1G1C104A146	0.1uF 16V	1	
	C8524	F1G1C104A146	0.1uF 16V	1	
	C8525	F1G1C562A146	5600pF 16V	1	
	C8526	F1G1C183A146	0.018uF 16V	1	
	C8527	F1G1A333A069	0.033uF 10V	1	
	C8528	F1H0J105A051	1uF 6.3V	1	
	C8529	F1H0J105A051	1uF 6.3V	1	
	C8530	F1G1C104A146	0.1uF 16V	1	
	C8531	F1G1H101A541	100pF 50V	1	
	C8532	F1G1H221A834	220pF 50V	1	
	C8533	F1G1C104A146	0.1uF 16V	1	
	C8541	F1G1E472A144	4700pF 25V	1	
	C8550	F2G1C1000054	10uF 16V	1	
	C8551	F1G1C104A146	0.1uF 16V	1	
	C8552	F2G1C1000054	10uF 16V	1	
	C8553	F2G0J470A031	47uF 6.3V	1	
	C8554	F1H0J105A051	1uF 6.3V	1	
	C8557	F1G1A1040006	0.1uF 10V	1	
	C8561	F1G1C104A146	0.1uF 16V	1	
	C8562	F2G1C1000054	10uF 16V	1	
	C8563	F2G0J470A031	47uF 6.3V	1	
	C8564	F1H0J105A051	1uF 6.3V	1	
	C8602	F1G1C153A146	0.015uF 16V	1	
	C8611	F1G1C104A146	0.1uF 16V	1	
	C8621	F1G1H8R0A833	8.0pF 50V	1	
	C8622	F1G1H100A834	10pF 50V	1	
	C8651	F1G1C104A146	0.1uF 16V	1	
	C8652	F1G1C104A146	0.1uF 16V	1	
	C8701	F1G1A1040006	0.1uF 10V	1	
	C8901	F1G1C104A146	0.1uF 16V	1	
	C9001	F1H1C104A178	0.1uF 16V	1	
	C9002	F1G1C104A146	0.1uF 16V	1	
	C9002	F1H1C104A178	0.1uF 16V	1	
	C9003	F1G1C104A146	0.1uF 16V	1	
	C9003	F1H1C104A178	0.1uF 16V	1	
	C9004	F1G1H7R00009	7.0pF 50V	1	
	C9004	F1H1C104A178	0.1uF 16V	1	
	C9005	F1G1H8R0A833	8.0pF 50V	1	
	C9005	F1H1C104A178	0.1uF 16V	1	
	C9006	F1H1C104A178	0.1uF 16V	1	
	C9007	F1G1C104A146	0.1uF 16V	1	
	C9009	F1G1H100A541	10pF 50V	1	
	C9100	F1G1H221A834	220pF 50V	1	
	C9101	F1G1H221A834	220pF 50V	1	
	C9102	F1G1H221A834	220pF 50V	1	
	C9103	F1G1H221A834	220pF 50V	1	
	C9104	F1G1H221A834	220pF 50V	1	
	C9105	F1G1H221A834	220pF 50V	1	
	C9106	F1G1H221A834	220pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C9107	F1G1H221A834	220pF 50V	1	
	C9108	F1G1H221A834	220pF 50V	1	
	C9109	F1G1H221A834	220pF 50V	1	
	C9110	F1G1H221A834	220pF 50V	1	
	C9111	F1G1H221A834	220pF 50V	1	
	C9112	F1G1H221A834	220pF 50V	1	
	C9113	F1G1H221A834	220pF 50V	1	
	C9114	F1G1H221A834	220pF 50V	1	
	C9115	F1G1H221A834	220pF 50V	1	
	C9116	F1G1H221A834	220pF 50V	1	
	C9117	F1G1H221A834	220pF 50V	1	
	FL8102	F1H0J1050018	1uF 6.3V	1	
	K3909	F1H1H104B047	0.1uF 50V	1	
	K3911	F1H1H104B047	0.1uF 50V	1	

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