PSG1307005CE

Service Manual

CD Stereo System

This illustration shows SC-AKX77.

Model No. SA-AKX57PN
SA-AKX77PH
SA-AKX77PN
SC-AKX57PN
SC-AKX77PH
SC-AKX77PN

Product Color: (K)...Black Type

Please refer to the original service manual for:
- **CD Mechanism Unit (BRS11C), Order No. PSG1102001CE**
- **Speaker system SB-AKX76PN-K, Order No. PSG1304024CE (For SA-AKX77PN/PH)**
- **Speaker system SB-AKX56PN-K, Order No. PSG1304049AE (For SA-AKX57PN)**

⚠ 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.

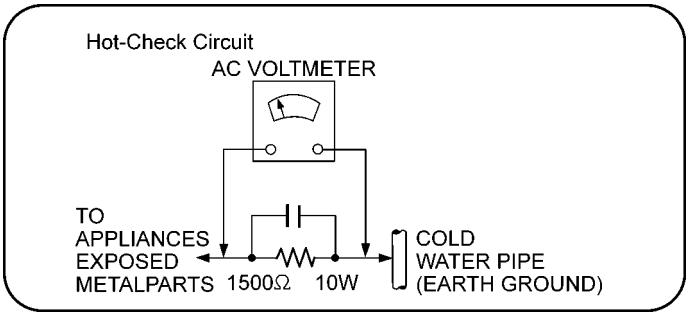

Figure 1-1

1.2. Before Use (For PH only)

Be sure to disconnect the mains cord before adjusting the voltage selector as shown in Figure 1-2.
Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.
Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

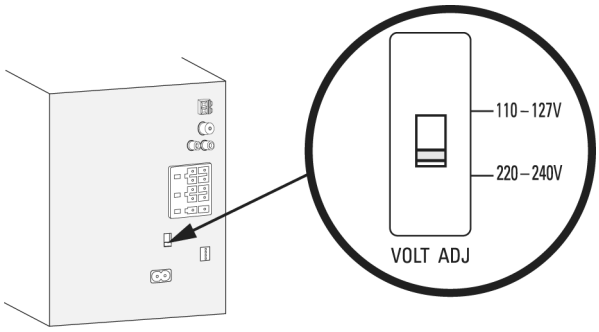

Figure 1-2

1.3. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5701, C5702, C5703, C5704, C5705, C5706, C5707, C5708) through a 10 Ω, 10 W resistor to ground.

Caution:

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

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 110~127 V / 220~240 V, 50/60 Hz in Power ON, FM Tuner at volume minimal mode should be ~ 750 mA (PH).
Current consumption at AC 120 V, 60 Hz in Power ON, FM Tuner at volume minimal mode should be ~ 500 mA (PN).

1.4. Protection Circuitry

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

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

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

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

Note:

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

1.5. Caution For Fuse Replacement

CAUTION:

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

CAUTION:

Replace with the same type fuse:
(Manufacturer: HOLLYLAND, INC, Type: 50T, F1, T8AL, 250V) (For PH only)

1.6. Safety Parts Information

Safety Parts List:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	16	RGR0443E-C1A	REAR PANEL	AKX77PN
⚠	16	RGR0443F-BA	REAR PANEL	AKX77PH
⚠	16	RGR0443G-C1A	REAR PANEL	AKX57PN
⚠	17	RKM0713-K1	TOP CABINET	
⚠	45	REXX1123-K	1P RED WIRE (VOLTAGE SELECTOR-SMPS)	AKX77PH
⚠	46	REXX1122-K	1P BLACK WIRE (VOLTAGE SELECTOR-SMPS)	AKX77PH
⚠	301	RAE1036Z-V	TRAVERSE ASS'Y	
⚠	A2	K2CB2CB00022	AC CORD	AKX57PN, AKX77PN
⚠	A2	K2CQ2YY00119	AC CORD	AKX77PH
⚠	A3	RQT9858-M	O/I BOOK (Sp/En)	
⚠	PCB8	REP4965J	SMPS P.C.B.	(RTL)AKX57PN
⚠	PCB8	REP4965H	SMPS P.C.B.	(RTL)AKX77PN
⚠	PCB8	REP4965G	SMPS P.C.B.	(RTL)AKX77PH
⚠	PCB9	REP4965G	VOLTAGE SELECTOR P.C.B.	(RTL)AKX77PH
⚠	DZ5701	D4EAY511A127	VARISTOR	(E.S.D)
⚠	S5701	K0ABCA000007	VOLTAGE SELECTOR	AKX77PH
⚠	L5701	G0B183J00002	LINE FILTER	
⚠	L5702	G0B183J00002	LINE FILTER	
⚠	T5701	G4DYZ0000069	TRANSFORMER	AKX57PN
⚠	T5701	G4DYZ0000070	TRANSFORMER	AKX77PH, AKX77PN
⚠	T5751	G4DYZ0000064	TRANSFORMER	AKX57PN
⚠	T5751	G4DYZ0000065	TRANSFORMER	AKX77PH, AKX77PN
⚠	T6000	G4DYA0000214	TRANSFORMER	
⚠	F1	K5D802APA008	FUSE	AKX57PN, AKX77PN
⚠	F1	K5D802BK0004	FUSE	AKX77PH
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	
⚠	PC5702	B3PBA0000579	PHOTO COUPLER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	
⚠	P5701	K2AA2B000011	AC INLET	AKX77PH
⚠	P5701	K2AB2B000007	AC INLET	AKX57PN, AKX77PN
⚠	R5708	D0GF155JA048	1.5M 1/4W	AKX57PN, AKX77PH
⚠	R5708	ERJ8GEYJ105V	1M 1/4W	AKX77PN
⚠	R5709	D0GF155JA048	1.5M 1/4W	AKX57PN, AKX77PH
⚠	R5709	ERJ8GEYJ105V	1M 1/4W	AKX77PN
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	AKX57PN, AKX77PH
⚠	C5702	F0CAF224A105	0.22uF	AKX77PN
⚠	C5703	F0CAF104A105	0.1uF	AKX57PN, AKX77PH
⚠	C5703	F0CAF224A105	0.22uF	AKX77PN
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	
⚠	C5706	F1BAF471A013	470pF	
⚠	C5707	F1BAF471A013	470pF	
⚠	C5708	F1BAF471A013	470pF	

2 Warning

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

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

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

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

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

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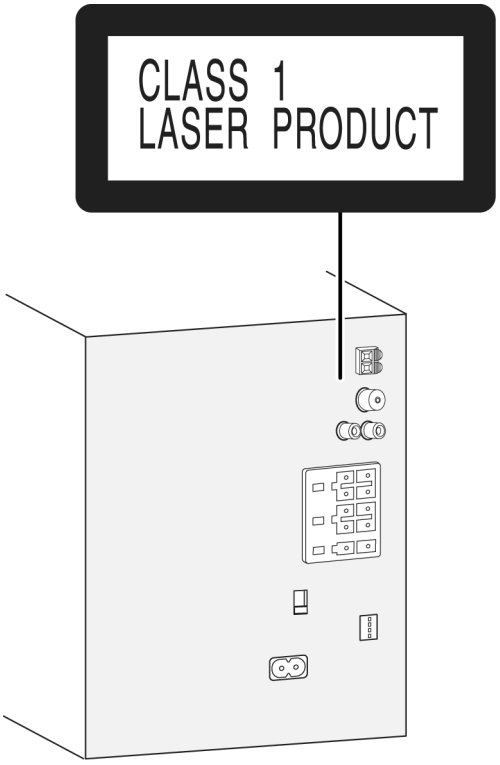
2.2. Precaution of Laser Diode

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

Caution:

This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wavelength: 790 nm (CD)
Maximum output radiation power from pickup: 100 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.



2.3. Service caution based on Legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

2.4. Handling Precautions for Traverse Ass'y

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

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

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

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

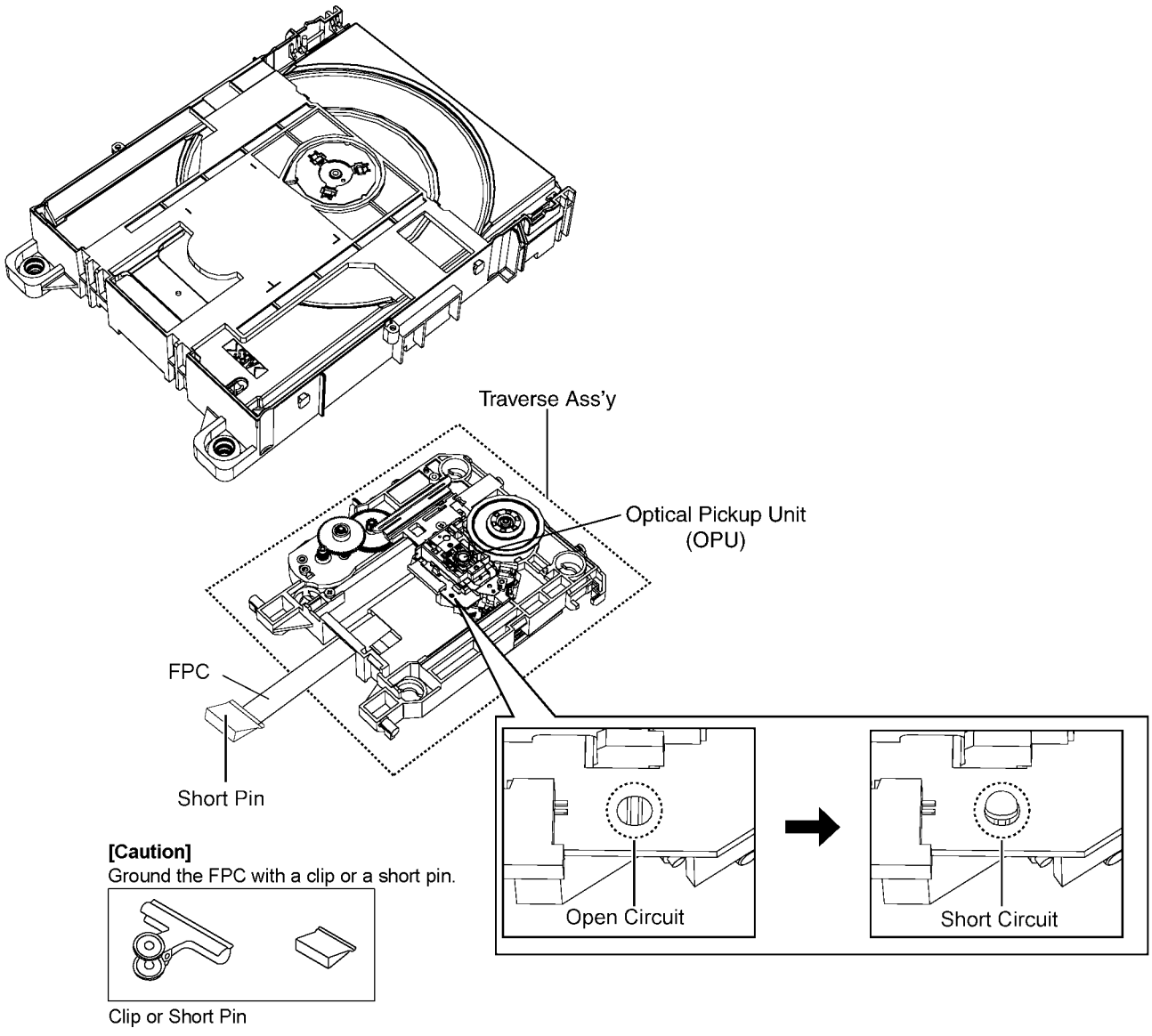


Figure 2-2

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 from your body Figure 2-3.

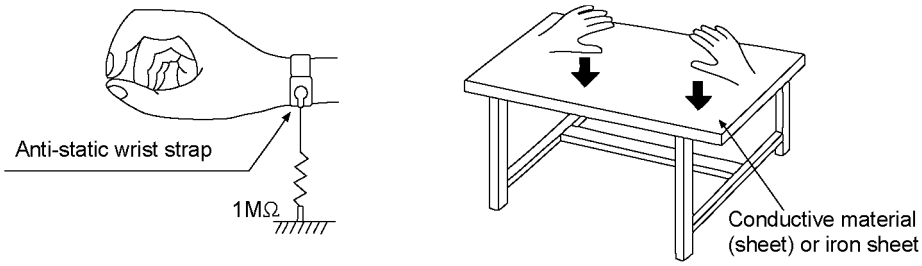


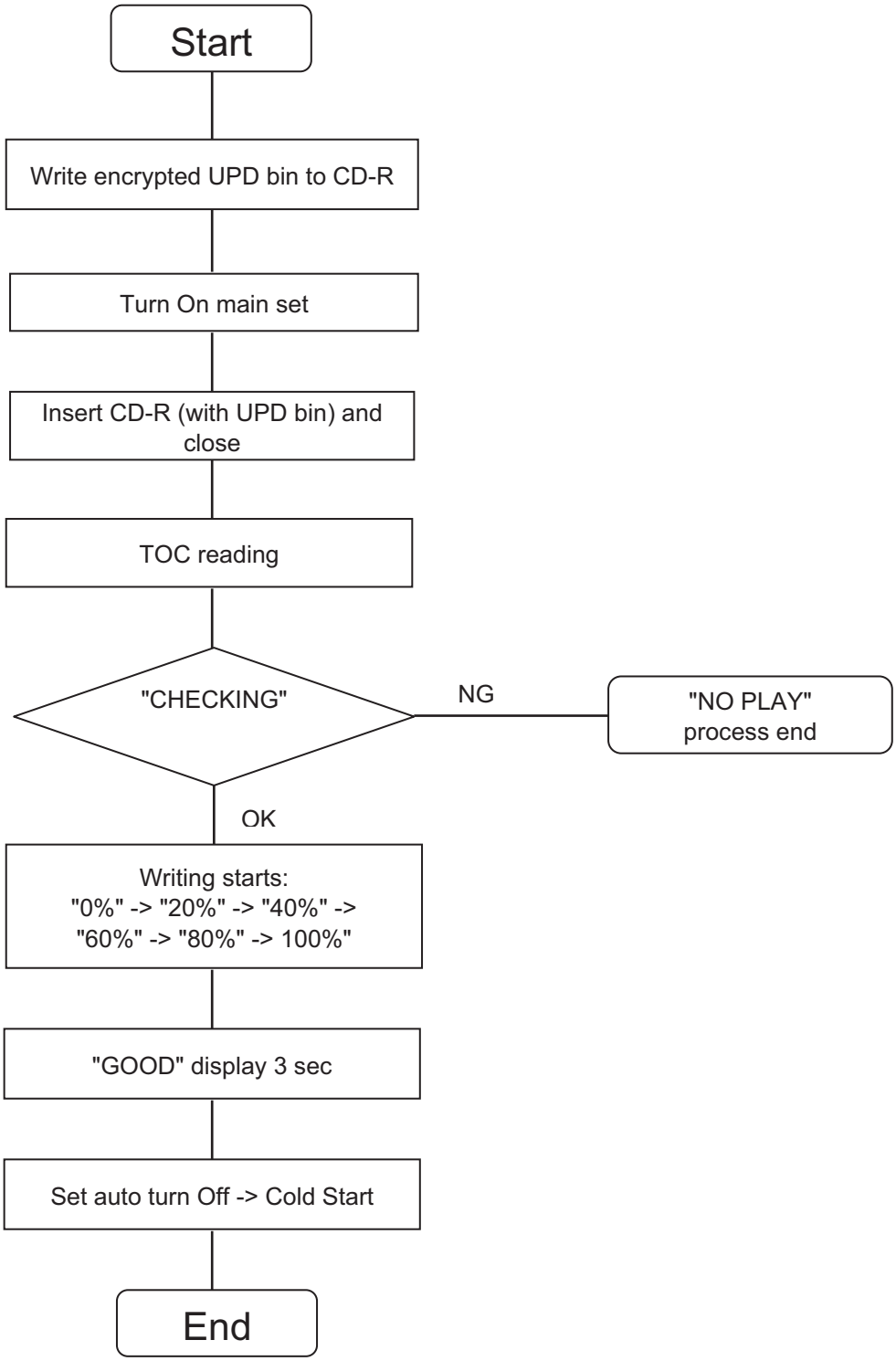
Figure 2-3

3 Service Navigation

3.1. Service Information

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

3.2. Firmware Update Procedure



4 Specifications

■ Amplifier section

RMS output power stereo mode

Front Hi	250 W per channel (3 Ω), 1 kHz, 30% THD
Front Lo	250 W per channel (3 Ω), 100 Hz, 30% THD
AKX77	
Subwoofer Ch	400 W per channel (2 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	
AKX77	1400 W (30% THD)
AKX57	1000 W (30% THD)

■ 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) (for PH) 87.5 MHz to 108.0 MHz (100 kHz step) (for PN) 87.9 MHz to 107.9 MHz (200 kHz step) (for PN)
Antenna terminals	75 Ω (unbalanced)
Amplitude modulation (AM)	
Frequency range	522 kHz to 1629 kHz (9 kHz step) (for PH) 520 kHz to 1630 kHz (10 kHz step) (for PH) 520 kHz to 1710 kHz (10 kHz step) (for PN)
Music port (front)	
Sensitivity	100 mV, 4.7 kΩ
Terminal	Stereo, 3.5 mm jack
Aux Input	Pin jack

■ Disc section

Discs played (8 cm or 12 cm)	CD, CD-R/RW (CD-DA, MP3*)
Pick up	
Wavelength	790 nm (CD)
Audio output (disc)	
Number of channels	
AKX77	2.1 ch (FL, FR, SW)
AKX57	2 ch (FL, FR)

FL = Front left channel
FR = Front right channel
SW = Subwoofer channel
*MPEG-1 Layer 3

■ Internal memory section

Memory	
Memory size	2 GB
Media file format support	MP3 (*.mp3)
Memory recording	
Bit rate	128 kbps
Memory recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)
Capacity of total songs recorded (use 128 kbps, approximately 1 song = 4 mins)	510 songs

■ USB section

USB Port

USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32
USB port power	500 mA (max)
Bit rate	16 kbps to 320 kbps (playback)
USB recording	
Bit rate	128 kbps
USB recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

■ Bluetooth® section

Bluetooth® system specification	V 3.0
Wireless equipment classification	Class 2
Supported profiles	A2DP, AVRCP, GAVDP
Frequency band	2402 MHz to 2480 MHz (Adaptive Frequency Hopping)
Driving distance	10 m line of sight

■ General

Power supply	AC 110 to 127/220 to 240 V, 50/60 Hz (PH) AC 120 V, 60 Hz (PN)
Power consumption	
AKX77	125 W (for PH) 120 W (for PN)
AKX57	105 W
Dimensions (W x H x D)	220 mm x 334 mm x 250 mm
Mass	
AKX77	3.4 kg
AKX57	3.3 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35% to 80% RH (no condensation)
Power consumption in standby mode	0.3 W (approximate) (PH) 0.2 W (approximate) (PN)

Note:

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

■ System: SC-AKX57PN-K

Main Unit: SA-AKX57PN-K
Speaker System: SB-AKX56PN-K

■ System: SC-AKX77PN/PH-K

Main Unit: SA-AKX77PN/PH-K
Speaker System: SB-AKX76PN-K

5 General/Introduction

5.1. Media Information

Note on disc

- This system can play CD-R/RW with CD-DA or MP3 format content.
- Some CD-R/RW cannot be played because of the condition of the recording.
- MP3 files are defined as tracks and folders are defined as albums.
- This system can access up to:
  – CD-DA: 99 tracks
  – MP3: 999 tracks, 255 albums and 20 sessions
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- Recordings will not necessarily be played in the order you recorded them.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

6 Location of Controls and Components

6.1. Remote Control Key Button Operation

❶ **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.

❷ Alphanumeric buttons
To select a 2-digit number
Example: 16: [≧10] → [1] → [6]
To set a character
Example: B: [2] → [2]

❸ Delete a programmed track
Delete a selected track in a playlist

❹ Select audio source

❺ Basic playback control

❻ Select the sound effects

❼ Start the title search for internal memory

❽ View content information
Decrease the brightness of the display panel
Press and hold the button to use this function.
To cancel, press and hold the button again.

❾ Recording operation control

❿ Set the play timer and record timer

⓫ Set the clock and timer

⓬ Set the sleep timer
Automatically switch off the system
When you are in disc, USB or internal memory source, the auto off function switches off the system if you do not use the system for 30 minutes.
Press and hold the button to use this function.
To cancel, press and hold the button again.

⓭ Set the program function

⓮ Adjust the volume of the system

⓯ **Mute the sound of the system**
Press the button again to cancel.
“MUTE” is also canceled when you adjust the volume or when you switch off the system.

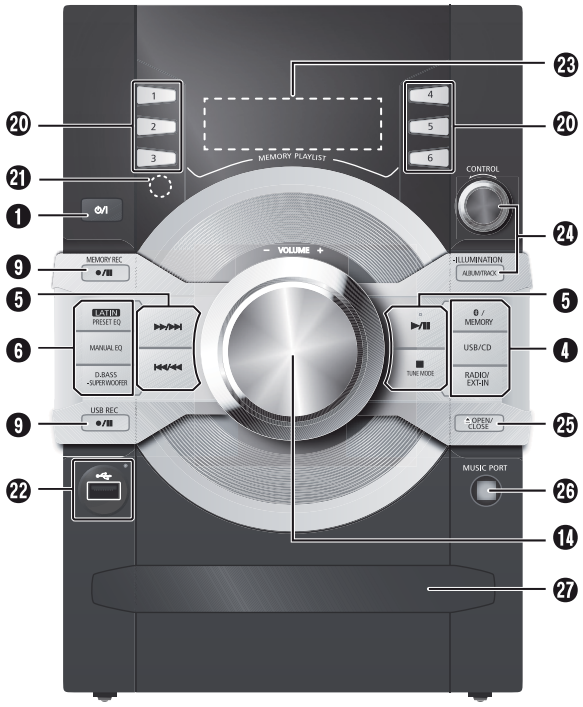
⓰ Set the play menu item

⓱ Internal memory playlist operation

⓲ Select the option

⓳ Set the edit mode for USB and internal memory

6.2. Main Unit Key Button Operation



❶ **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.

❹ Select audio source

❺ Basic playback control

❻ Select the sound effects

❾ Recording operation control

⓮ Adjust the volume of the system

⓴ **Internal memory playlist direct buttons**
Press and hold to add a track to the corresponding playlist.
Press to select the playlist.

㉑ Remote control sensor
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

㉒ USB port (⇠)
USB recording indicator

㉓ Display panel

㉔ Browse playlist of the internal memory
Browse tracks or albums
CD
Turn [CONTROL] to browse the track.
Press [►/❚❚] to start playback from the selection.
MP3
Press [ALBUM/TRACK] to select album or track and then turn [CONTROL] to browse.
Press [►/❚❚] to start playback from the selection.
Set the illumination effect
Press and hold [–ILLUMINATION] and then turn [CONTROL] to select the desired setting.

㉕ Open or close the disc tray

㉖ Music port jack

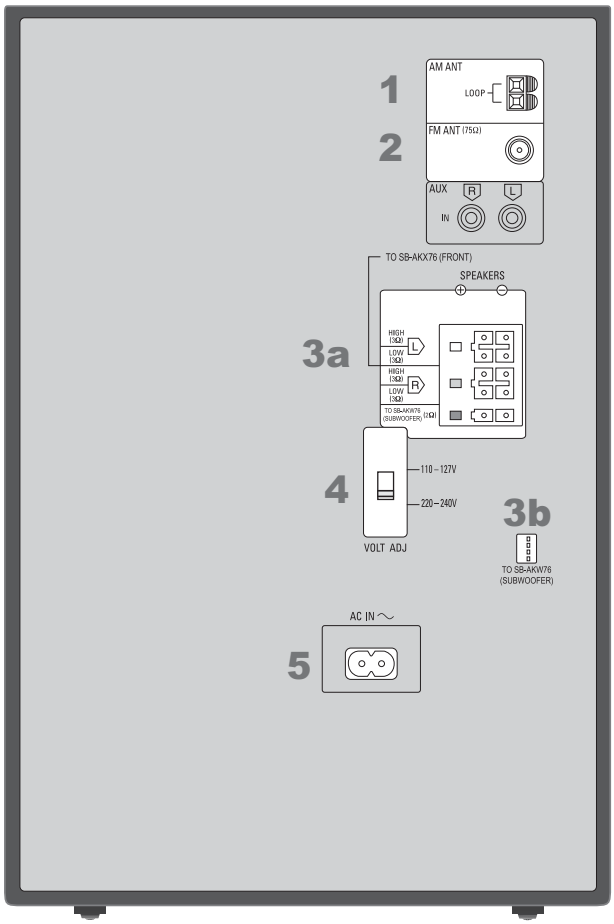
㉗ Disc tray

7 Installation Instructions

7.1. Speaker and A/C Connection

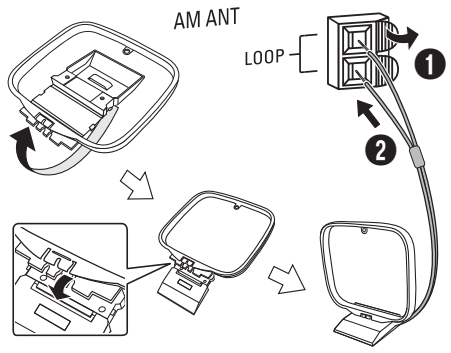
Connect the AC power supply cord only after all the other connections have been made.

The illustrations shown are of SC-AKX77 for South America (except Argentina and Brazil). Your unit may differ in appearance.



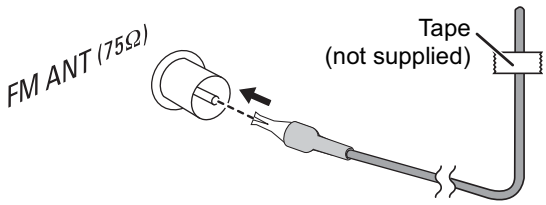
1 **Connect the AM loop antenna.**

Stand the antenna up on its base until it clicks.



2 **Connect the FM indoor antenna.**

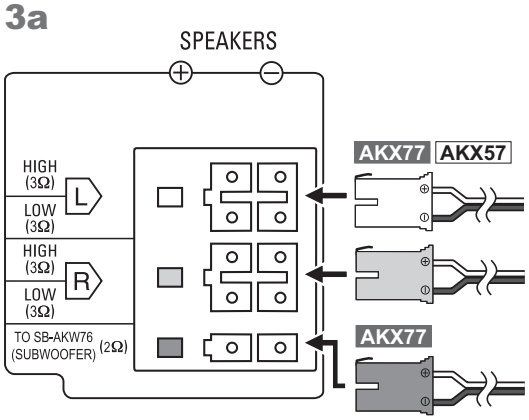
Place the antenna where reception is best.



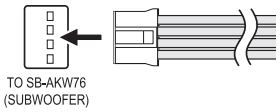
3 **Connect the speakers.**

Connect the speaker cables to the terminals of the same color.

3a

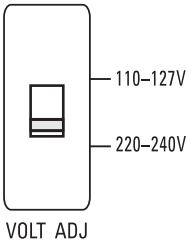


3b AKX77



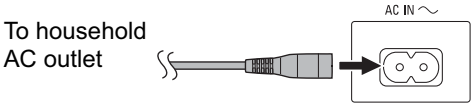
4 **For PH only**

Set the voltage.



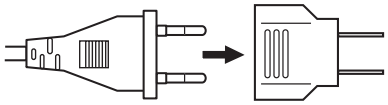
Use a flat-head screwdriver to set the voltage selector to the AC voltage in your area.

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



For PH only

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



Do not use an AC power supply cord from other equipment.

Conserving power

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

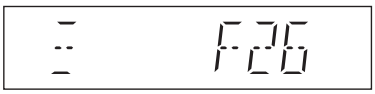
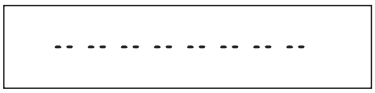
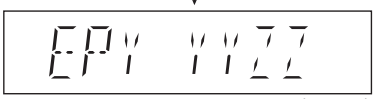
8 Service Mode

8.1. Cold-Start

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

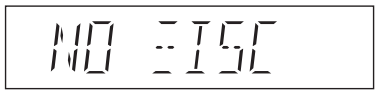
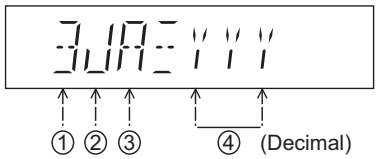
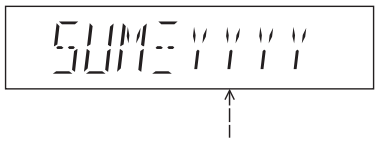
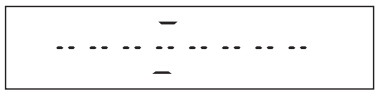
1. Unplug AC power cord
2. Press & hold [POWER] button
3. Plug AC power cord while [POWER] button being pressed
   FL Display will show "_ _ _ _ _ _ _ _"
4. Release [POWER] button

8.2. Service Mode Table

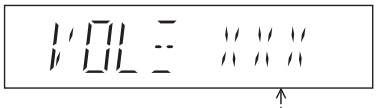
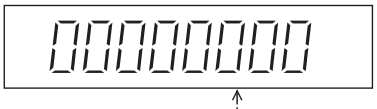
Item		FL display	Key operation
Mode name	**Description**		
Service Mode	To enter into Service Mode checking.		Step 1 : Select CD mode (Ensure no disc is inserted). Step 2 : Press and hold [■] 2 seconds follow by [▶▶/▶▶I] on main unit for 2 seconds.
Error code information	System will perform a check on 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 [0] 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.
Software/ Firmware Version	Software/Firmware Version checking.	 (2 sec)  (2 sec)  (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),	Step 1 : In Bluetooth mode first, then change back to CD mode. Step 2 : Enter Service Mode, Press [2] on remote control. To exit, press [⏻/I] on main unit or remote control.

8.3. Doctor Mode Table

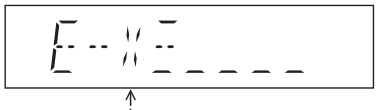
8.3.1. Doctor Mode Table 1

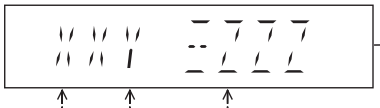
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode		In CD Mode: 1. Press [■] button on main unit follow by [4] and [7] on remote control. 2. To exit, press [DELETE] button on remote control or, press [POWER,⏻/I] button on Main Unit
EEPROM checksum check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

8.3.2. 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.	 Press [7]: VOL50 Press [8]: VOL35 Press [9]: VOL0 Volume	In Doctor Mode: 1. Press [7], [8], [9] button on the remote control.
FL Display Check	To check the FL segment display. All segments will light up while all LED blink at 0.5s intervals.		In Doctor mode: 1. Press [1] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Traverse Test	To determine the traverse unit operation for inner & outer access track. In this mode,ensure the CD is in the main unit. Note: Refer to Section 8.3 Figure 8-2 for process flow	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10]→[1]→[2] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Reliability Test (Combination)	To determine the traverse unit operation & open/close operation of the mechanism. In this mode,ensure the CD is in the main unit. Note: Refer to Section 8.3 Figure 8-3 for process flow	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10]→[1]→[5] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Loading Test	To determine the open & close operation of the CD Mechanism Unit. In this mode, the tray will open & close automatically. Note: Refer to Section 8.3 Figure 8-1 for process flow	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10]→[2]→[1] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.

8.3.3. Doctor Mode Table 3

<table>
<tr><th colspan="2">Item</th><th rowspan="2">FL Display</th><th>Key Operation</th></tr>
<tr><th>Mode Name</th><th>Description</th><th>Front Key</th></tr>
<tr><td>CD
Self- Adjustment Test</td><td>To display result of self-adjustment for CD operation.</td><td> 
Display of auto adjustment result
Reference table:
<table>
<tr><th>ERROR Code / Status Condition</th><th>0</th><th>1</th><th>2</th><th>4</th><th>6</th><th>8</th><th>A</th><th>C</th><th>E</th><th>F</th></tr>
<tr><td>AOC1/AOC2</td><td>O</td><td>※</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>-</td></tr>
<tr><td>ABC2/ABC1</td><td>O</td><td>-</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>-</td></tr>
<tr><td>2nd AOC1</td><td>O</td><td>-</td><td>O</td><td>X</td><td>X</td><td>O</td><td>O</td><td>X</td><td>X</td><td>-</td></tr>
<tr><td>FAGC/TAGC</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>X</td><td>X</td><td>X</td><td>X</td><td>-</td></tr>
<tr><td>AGC2</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>△</td></tr>
</table>
O : OK;
X : NG (In case that time out happens.)
※: Either one of FO AOC, TR AOC and FO coarse AGC is NG.
△: If the AGC is NG (ignore others).</td><td>In Doctor Mode:
1. Press [10]→[1]→[4] button on the remote control.

To cancel this mode, press [0] button on the remote control.</td></tr>
<tr><td>CD LSI Version Check</td><td>To check the CD LSI Version and its checksum.</td><td>(Display 1)
 
ROM Type
Version (Decimal)
Year Develop
after 2 sec
(Display 2)
 
Checksum (Hex)</td><td>In Doctor Mode:
1. Press [4] button on the remote control.

To cancel this mode, press [0] button on the remote control.</td></tr>
<tr><td>Bluetooth Version Check</td><td>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.</td><td>  (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),</td><td>1. Go to Bluetooth selector and enter Doctor Mode.
2. Press [10]→[2]→[4] and display will show.</td></tr>
<tr><td>Bluetooth Check</td><td>1. Bluetooth device will start pairing.
2. Once connected it wll autoplay for 5 sec and auto disconect.</td><td></td><td>1. Go to Bluetooth selector and enter Doctor Mode.
2. Press USB[O/II] on remote control.
3. Device will display SC-MAX250-X, SC-MAX150-X. (X = region number)</td></tr>
</table>

8.4. Reliability Test Mode (CD Mechanism Unit)

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

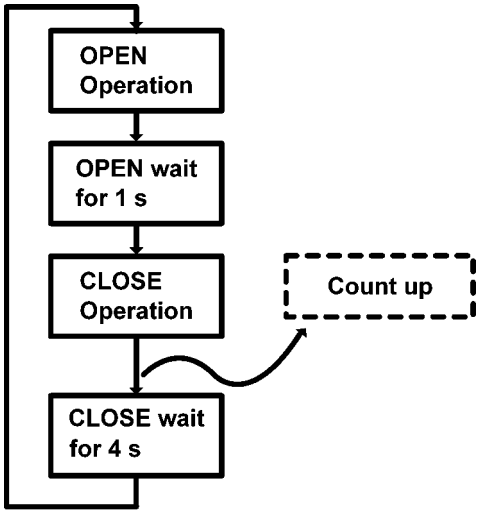


Figure 8-1 Reliability Test (Loading)

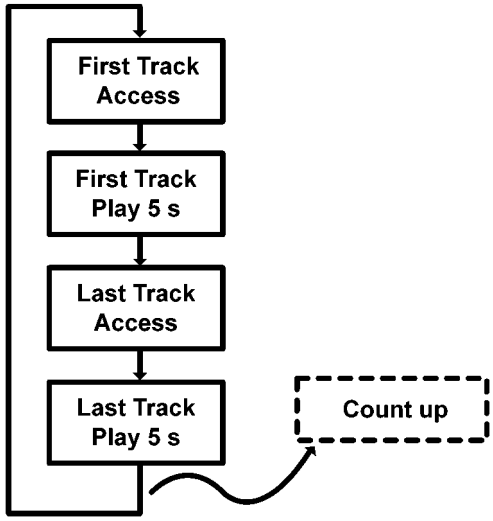


Figure 8-2 Reliability Test (Traverse)

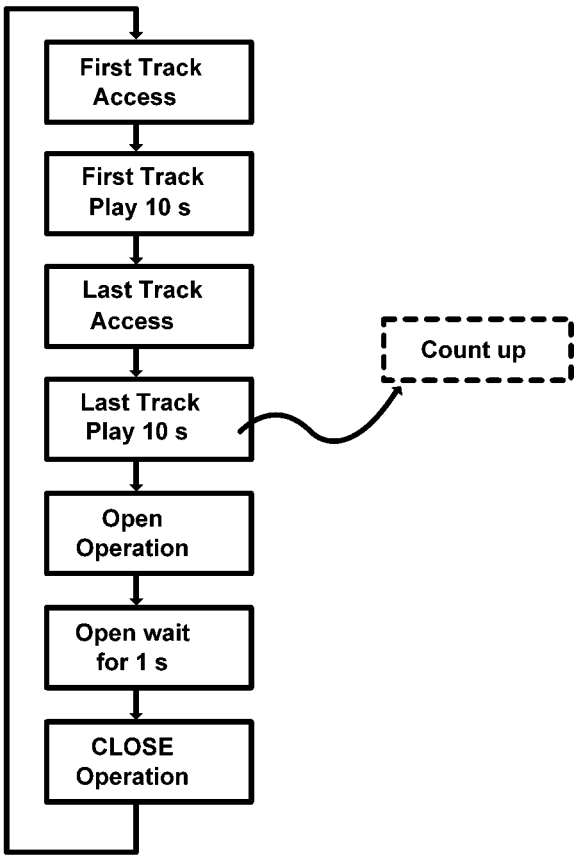


Figure 8-3 Reliability Test (Combination)

8.5. Self-Diagnostic Mode

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

8.6. Self-Diagnostic Error Code Table

Self-Diagnostic Function (Refer Section 8.5. Self-Diagnostic Mode) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

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

8.6.1. Power Supply Error Code Table

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

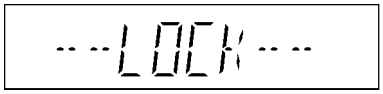
8.6.2. CD Mechanism Error Code Table

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

8.7. Sales Demonstration Lock Function

8.7.1. Entering into Sales demonstration lock mode

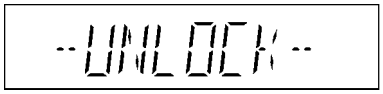
Here is the procedures to enter into the Sales demonstration lock mode.
Step 1: Turn on the unit.
Step 2: Select to any mode function.
Step 3: Press and hold [⏏OPEN/CLOSE] and [CD] keys for 5 sec or more.
The display will show upon entering into this mode for 2 sec..



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

8.7.2. Cancellation of 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 [⏏OPEN/CLOSE] and [CD] keys for 5 sec or more.
The display will show upon entering into this mode for 2 sec..



9 Troubleshooting Guide

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

10 Disassembly and Assembly Instructions

• Illustration is based on SA-AKX77PH-K.

Caution Note:

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

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

- **During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.**
- **During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.**
- **Select items from the following indexes when disassembly or replacement are required.**
- Disassembly of Top Cabinet
- Disassembly of Front Panel Unit
- Disassembly of Panel P.C.B., Memory LED P.C.B. and Music Port P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of Bluetooth P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Rear Panel
- Disassembly of Main P.C.B.
- Disassembly of SMPS P.C.B. and Voltage Selector P.C.B.
- Disassembly of CD Mechanism Unit
- Disassembly of CD Interface P.C.B.
- Disassembly of Fan Unit

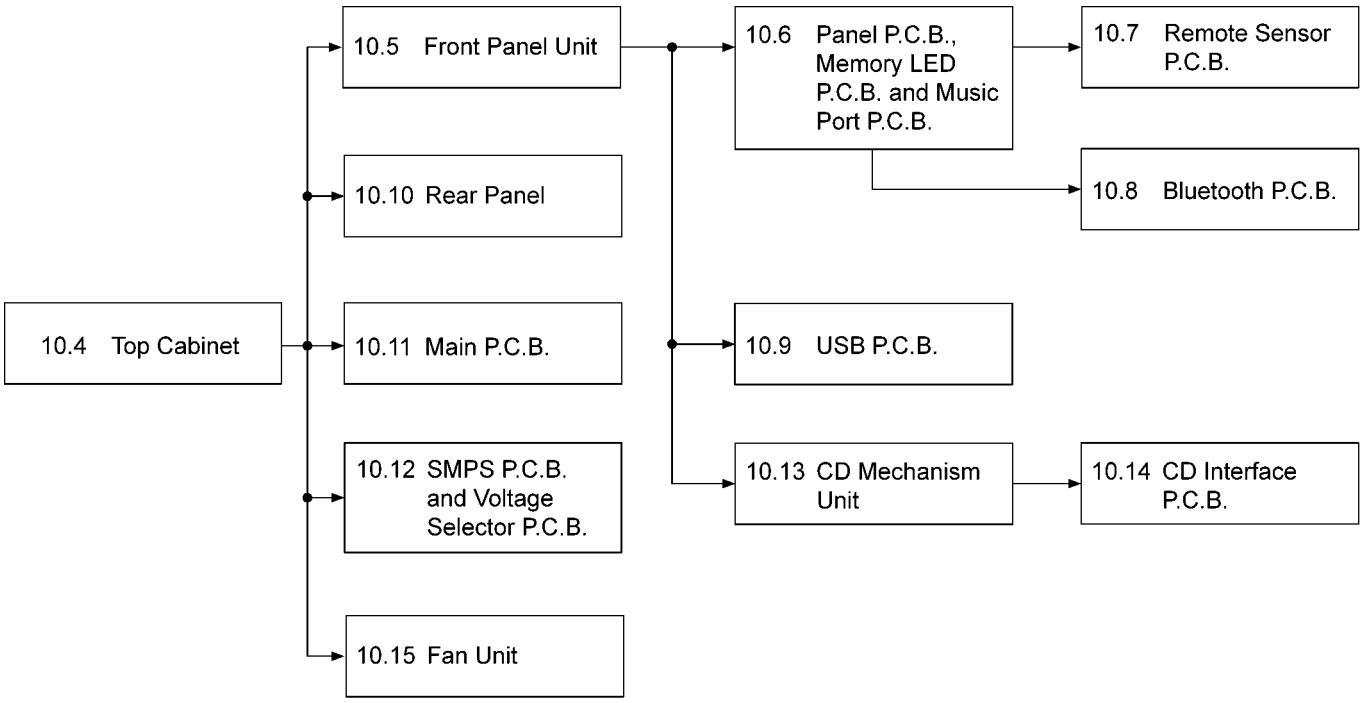
10.1. Screw Types

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

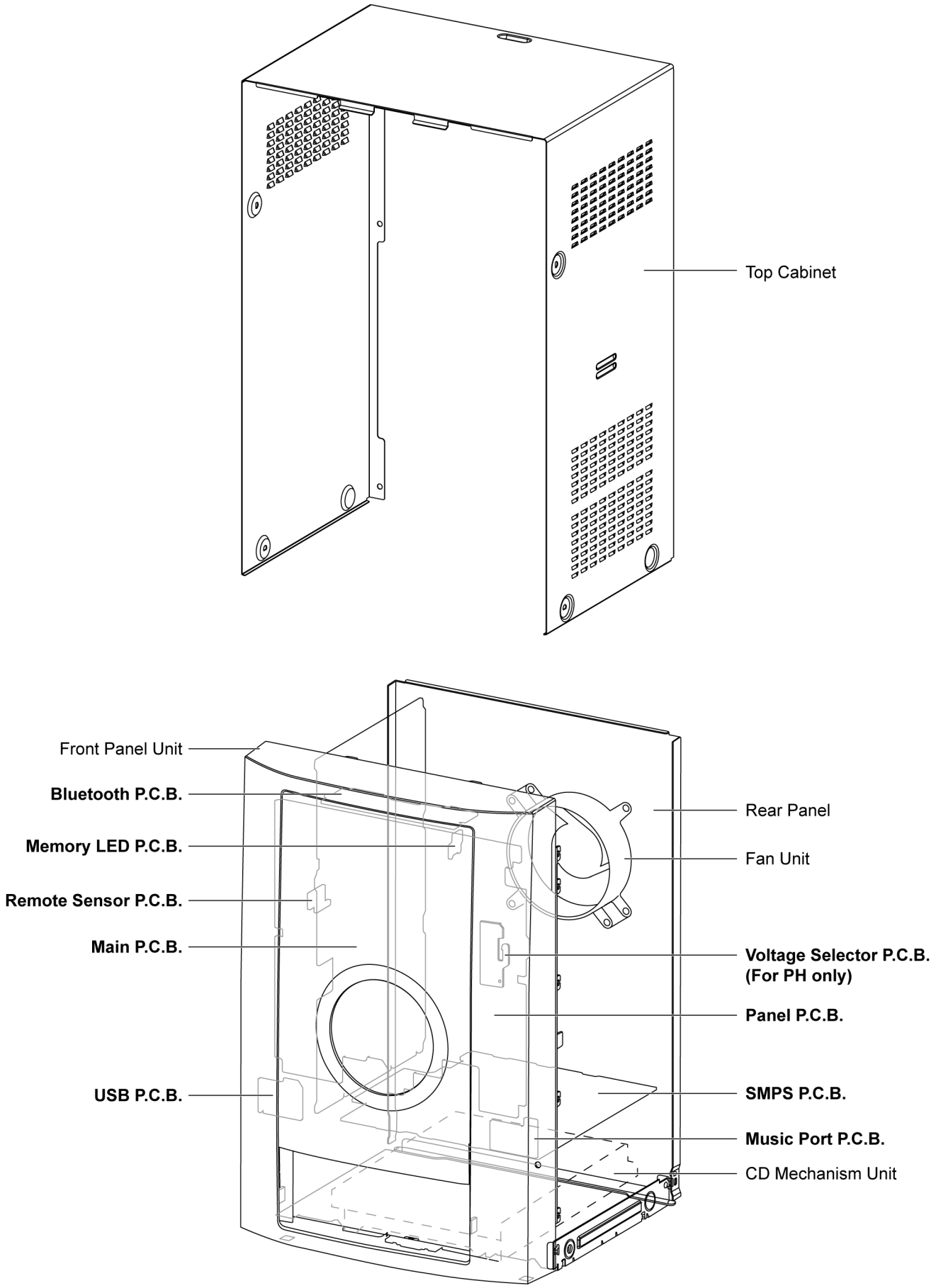
Below shown is part no. of different screw types used:

ⓐ :RHD30007-K2J	ⓔ :RHD26043-1
ⓑ :RHD30119-S	ⓕ :RHDX30005-J
ⓒ :RHD26046-L	ⓖ :RHDX031008
ⓓ :RHD30111-31	ⓗ :XTN2+6GFJ

10.2. Disassembly Flow Chart

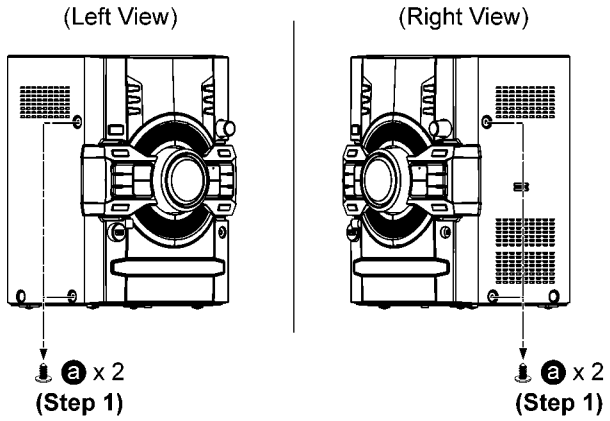


10.3. Main Components and P.C.B. Locations

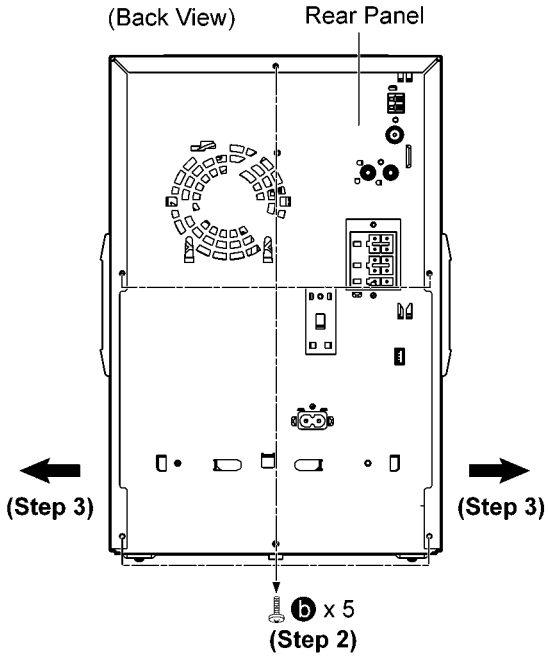


10.4. Disassembly of Top Cabinet

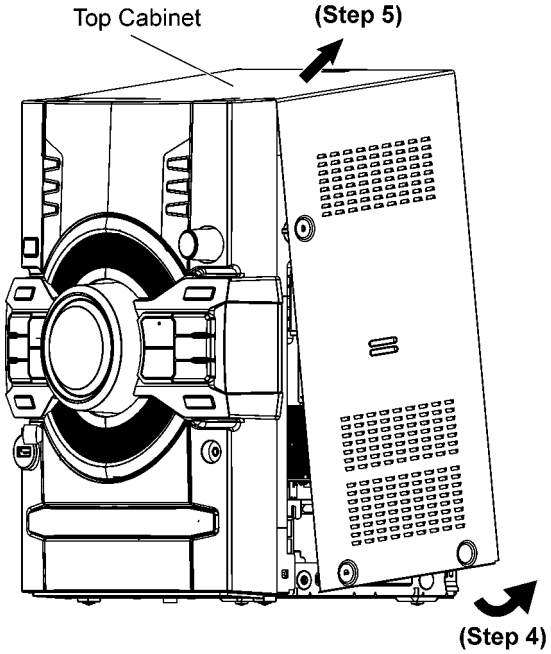
Step 1 Remove 2 screws on each side.



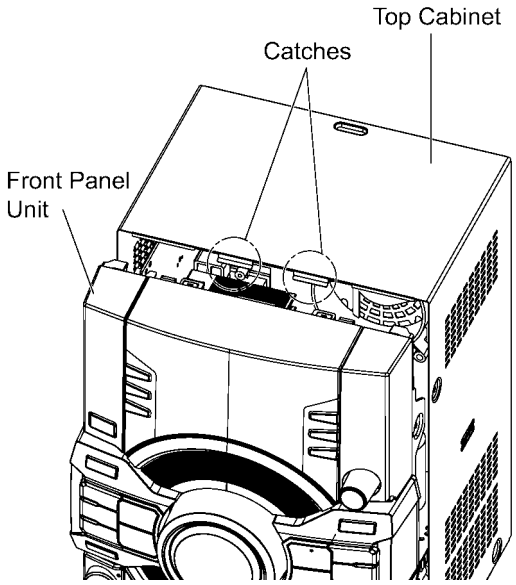
Step 2 Remove 5 screws.
Step 3 Release both sides of Top Cabinet outwards as arrow shown.



Step 4 Slightly lift up the Top Cabinet.
Step 5 Remove the Top Cabinet.



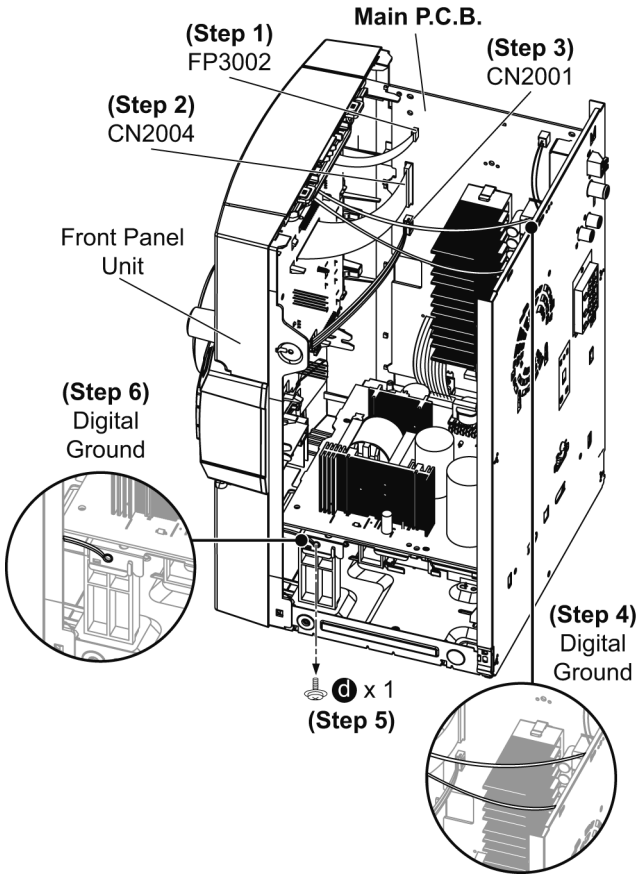
Caution: During assembling, ensure that the Top Cabinet is inserted properly into the Front Panel Unit as shown.



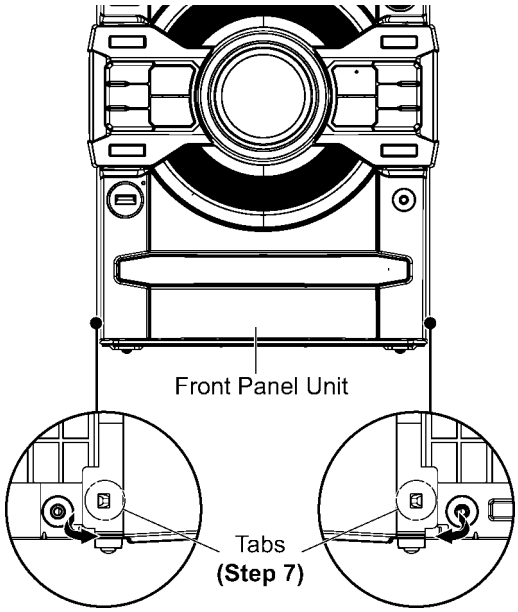
10.5. Disassembly of Front Panel Unit

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

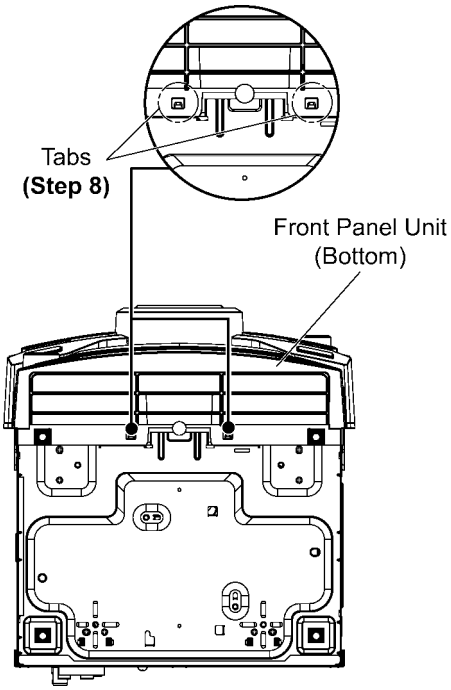
Step 1 Detach 10P FFC at connector (FP3002) on Main P.C.B..
Step 2 Detach 30P FFC at connector (CN2004) on Main P.C.B..
Step 3 Detach 5P Cable Wire at connector (CN2001) on Main P.C.B..
Step 4 Detach Digital Ground Wire on Rear Panel.
Step 5 Remove 1 screw.
Step 6 Release Digital Ground Wire between Music Port P.C.B. and Inner Chassis.



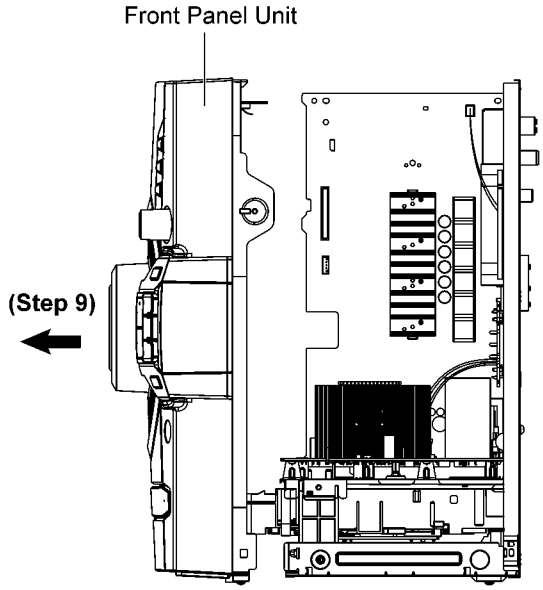
Step 7 Release tabs on both side of the Front Panel Unit.



Step 8 Release tabs at bottom of unit.



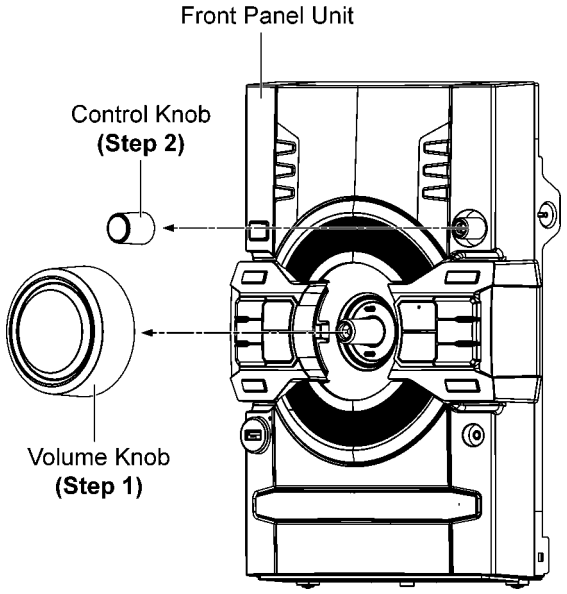
Step 9 Detach to remove the Front Panel Unit.



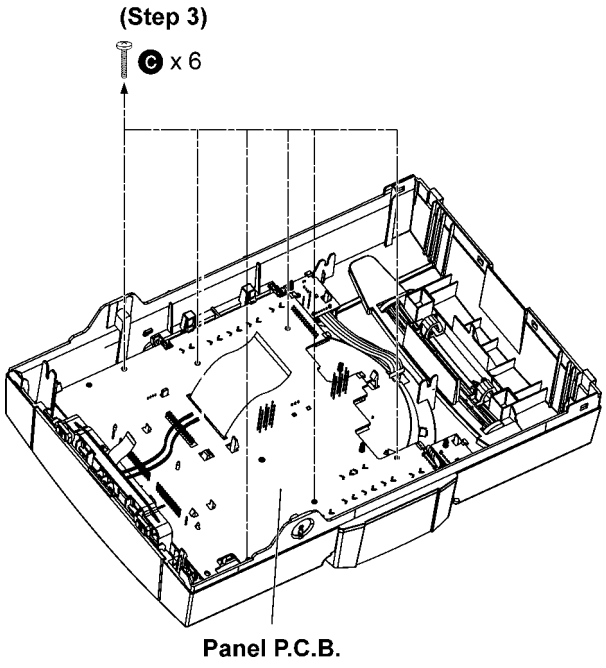
10.6. Disassembly of Panel P.C.B., Memory LED P.C.B. and Music Port P.C.B.

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

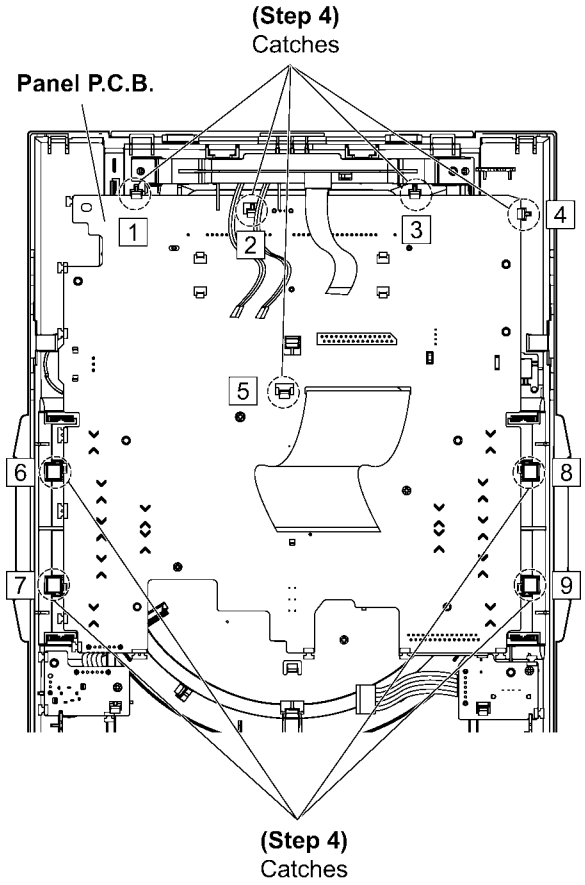
Step 1 Remove Volume Knob.
Step 2 Remove Control Knob.



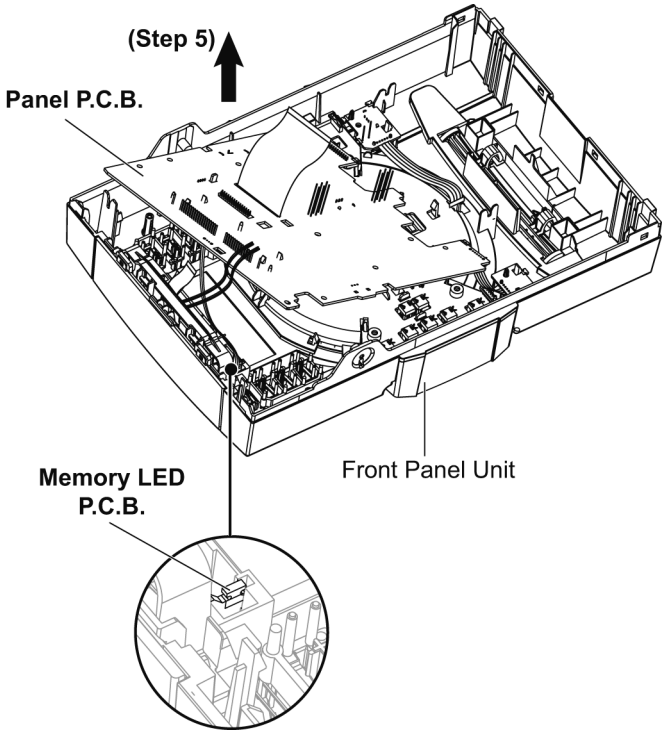
Step 3 Remove 6 screws.



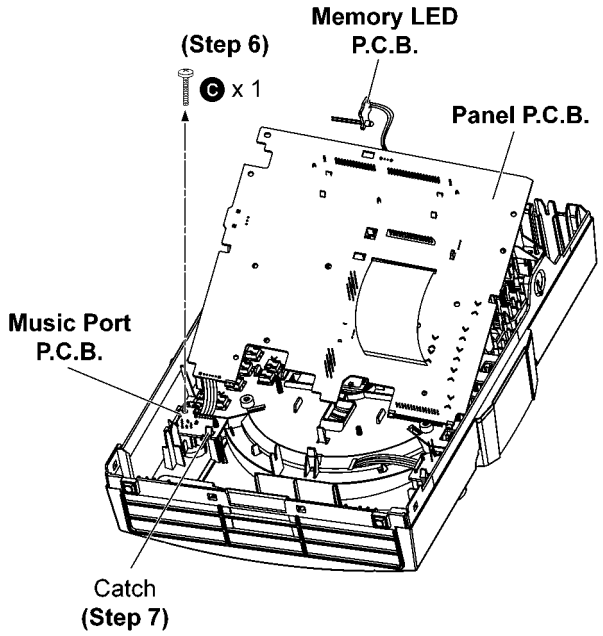
Step 4 Release catches in sequences (1-9).



Step 5 Lift up the Panel P.C.B. and Memory LED P.C.B. from Front Panel Unit.



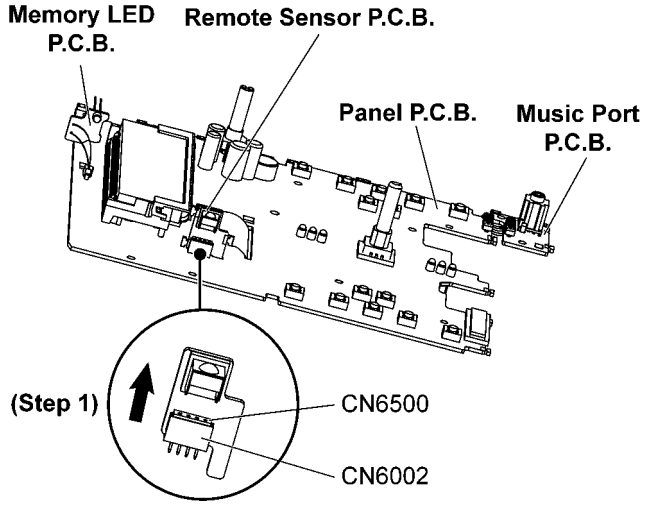
Step 6 Remove 1 screw.
Step 7 Release catch.
Step 8 Remove the Panel P.C.B., Memory LED P.C.B. and Music Port P.C.B..



10.7. Disassembly of Remote Sensor P.C.B.

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Panel P.C.B., Memory LED P.C.B. and Music Port P.C.B..**

Step 1 Remove Remote Sensor P.C.B.

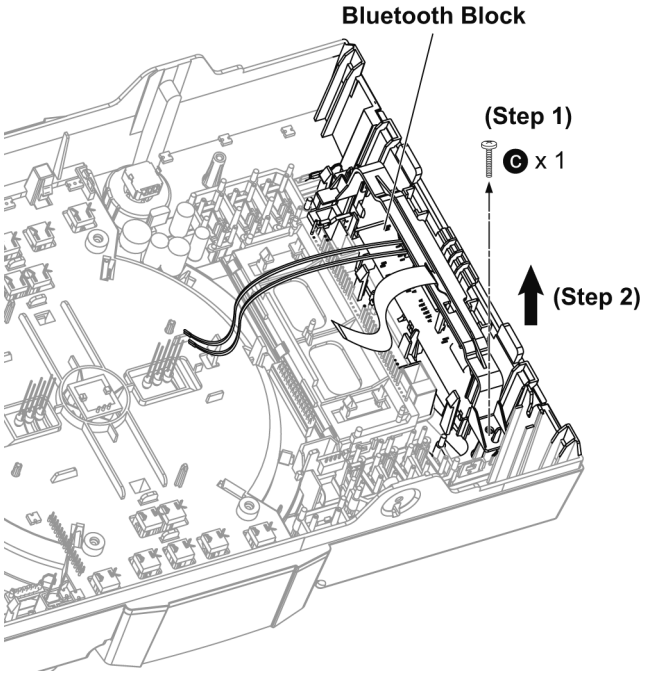


Caution: During assembling, ensure that the Remote Sensor P.C.B. is properly inserted & fully attached to Panel P.C.B.

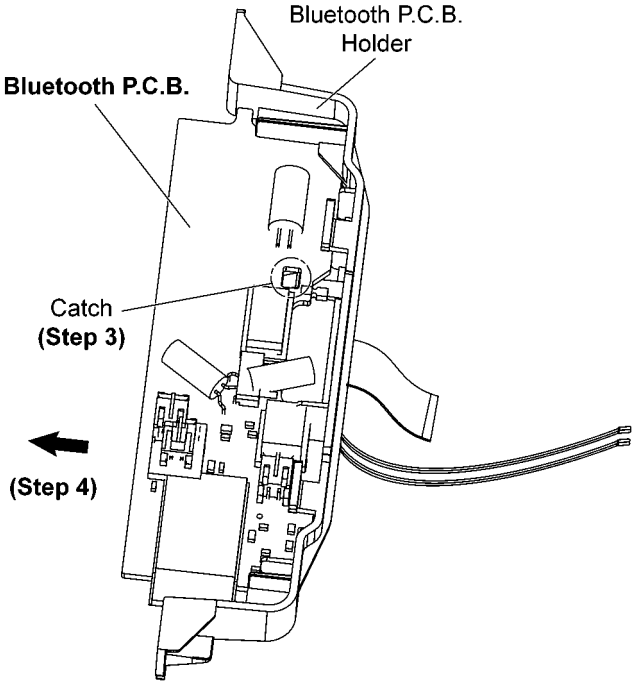
10.8. Disassembly of Bluetooth P.C.B.

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Panel P.C.B., Memory LED P.C.B. and Music Port P.C.B..**

Step 1 Remove 1 screw.
Step 2 Remove Bluetooth Block.



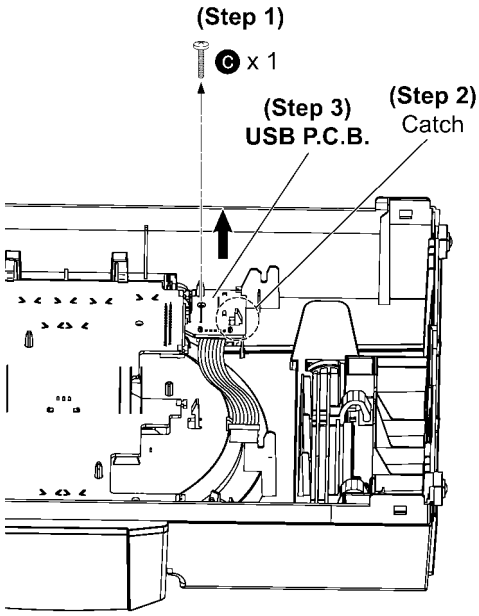
Step 3 Release catch.
Step 4 Remove Bluetooth P.C.B. from Bluetooth P.C.B. holder.



10.9. Disassembly of USB P.C.B.

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

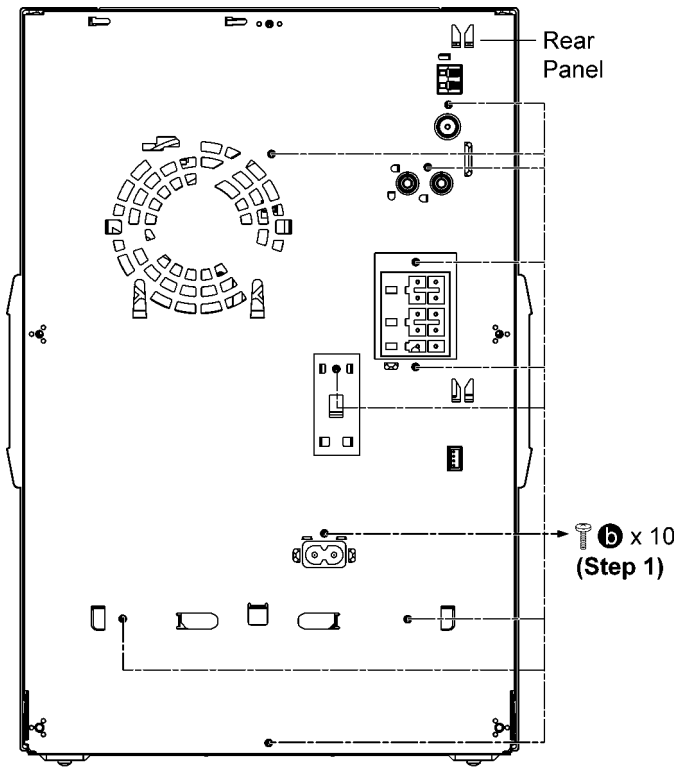
Step 1 Remove 1 screw.
Step 2 Release 1 catch.
Step 3 Remove USB P.C.B..



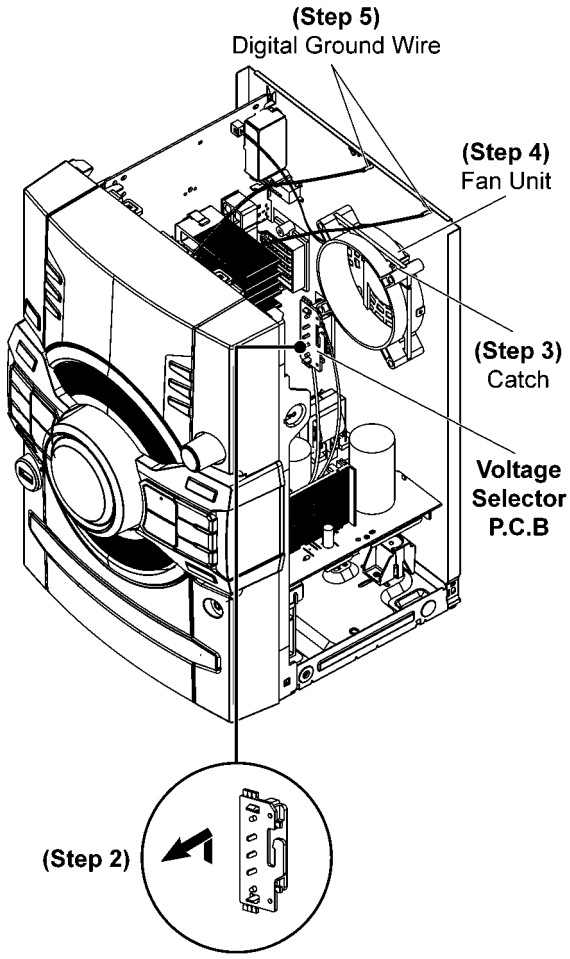
10.10. Disassembly of Rear Panel

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

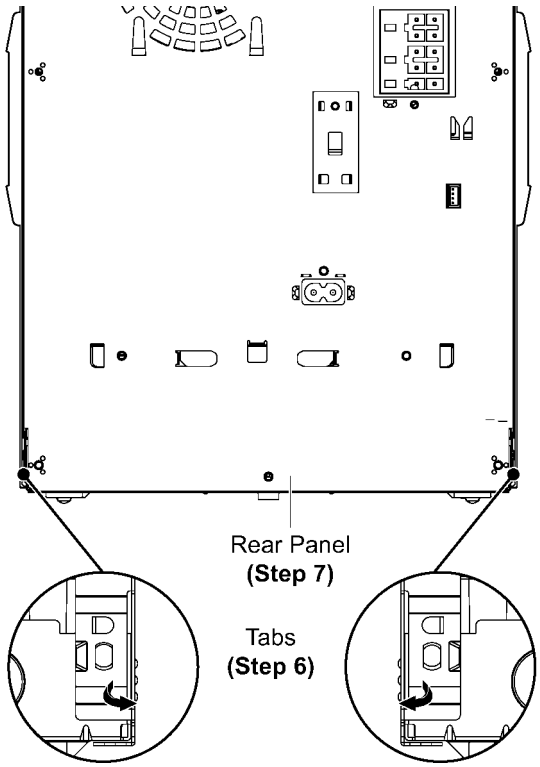
Step 1 Remove 10 screws.



Step 2 Detach Voltage Selector P.C.B..
Step 3 Release catch.
Step 4 Remove Fan Unit.
Step 5 Detach Digital Ground Wire.



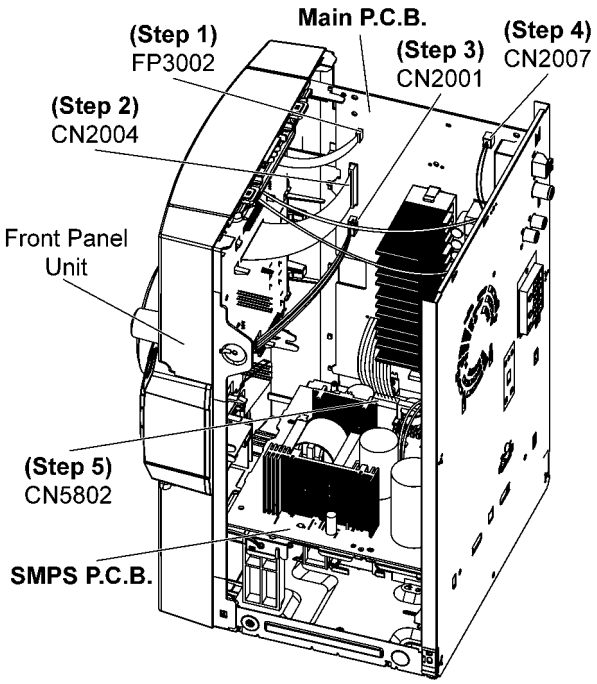
Step 6 Release 2 tabs.
Step 7 Detach to remove Rear Panel.



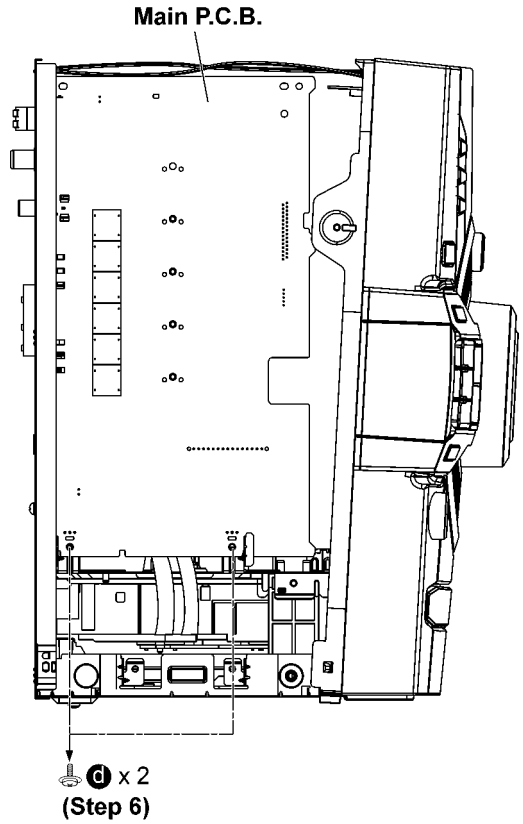
10.11. Disassembly of Main P.C.B.

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

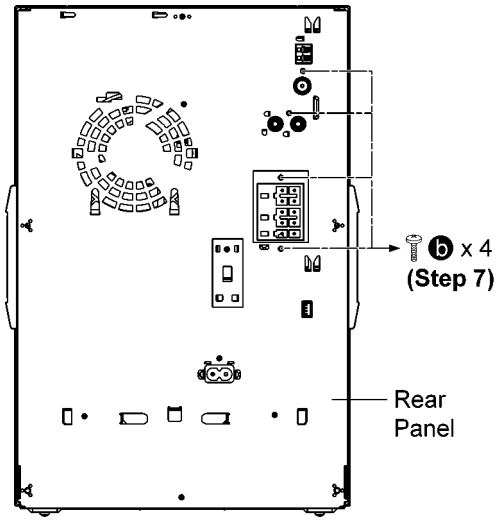
Step 1 Detach 10P FFC at connector (FP3002) on Main P.C.B..
Step 2 Detach 30P FFC at connector (CN2004) on Main P.C.B..
Step 3 Detach 5P Cable Wire at connector (CN2001) on Main P.C.B..
Step 4 Detach 2P Cable at connector (CN2007) on Main P.C.B..
Step 5 Detach 13P Cable at connector (CN5802) on SMPS P.C.B..



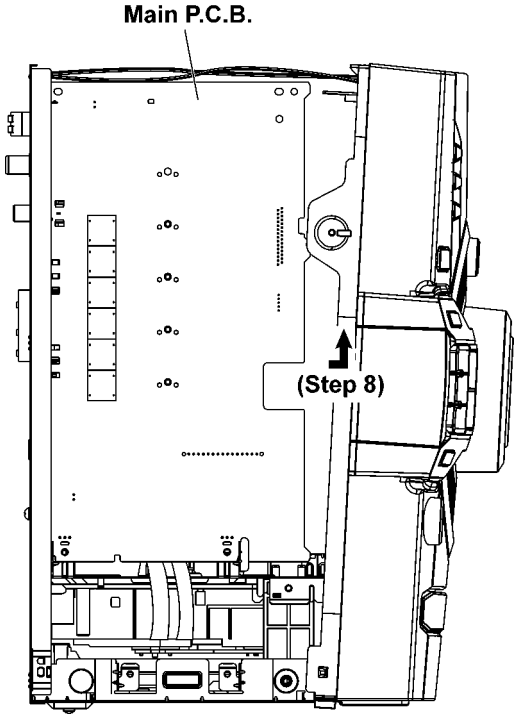
Step 6 Remove 2 screws.



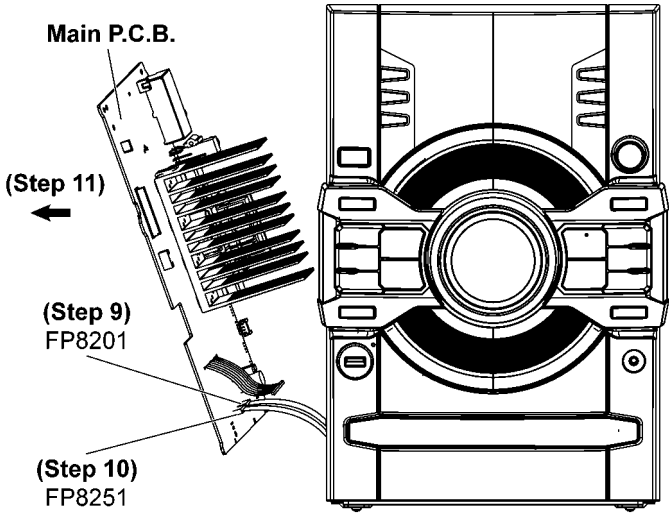
Step 7 Remove 4 screws.



Step 8 Detach to lift up the Main P.C.B..



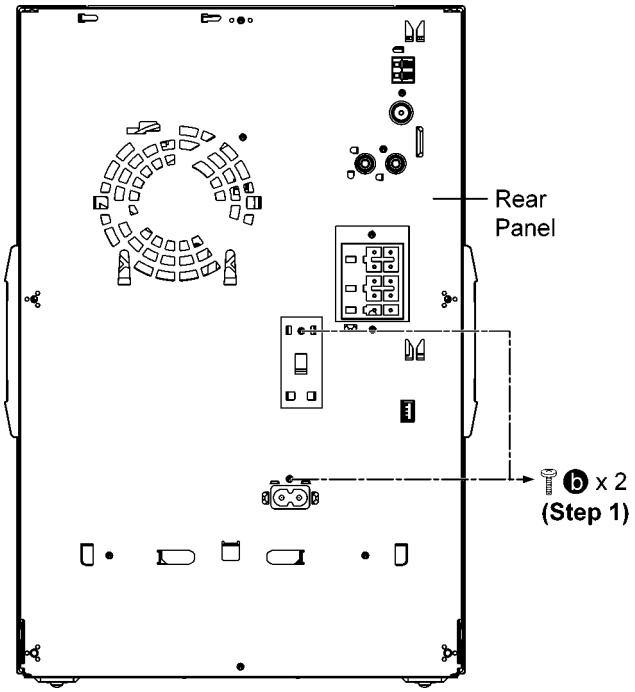
Step 9 Detach 24P FFC at connector (FP8201) on Main P.C.B..
Step 10 Detach 10P FFC at connector (FP8251) on Main P.C.B..
Step 11 Remove the Main P.C.B..



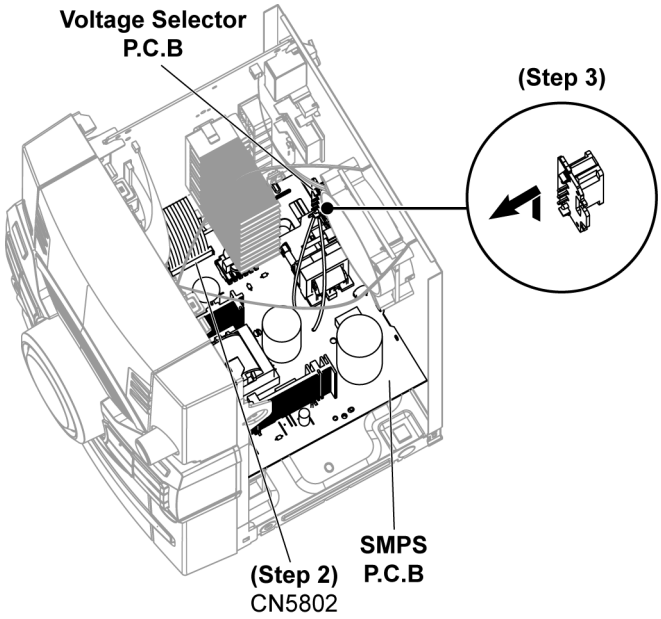
10.12. Disassembly of SMPS P.C.B. and Voltage Selector P.C.B.

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

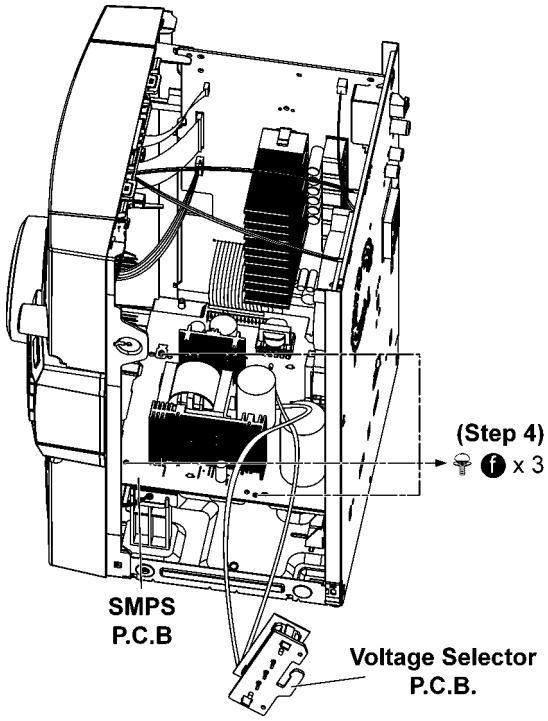
Step 1 Remove 2 screws.



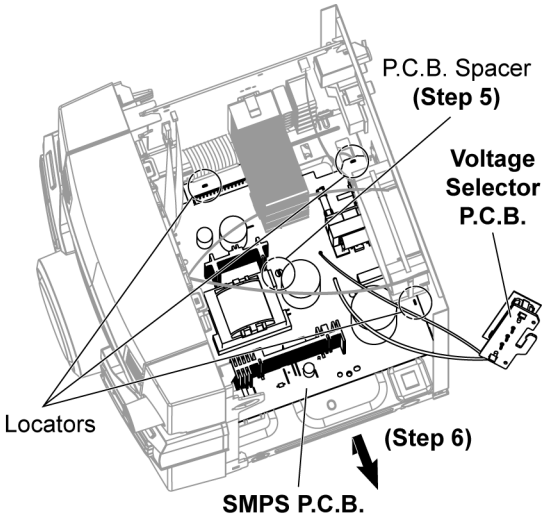
Step 2 Detach 13P Cable Wire at connector (CN5802) on SMPS P.C.B..
Step 3 Detach Voltage Selector P.C.B..



Step 4 Remove 3 screws.



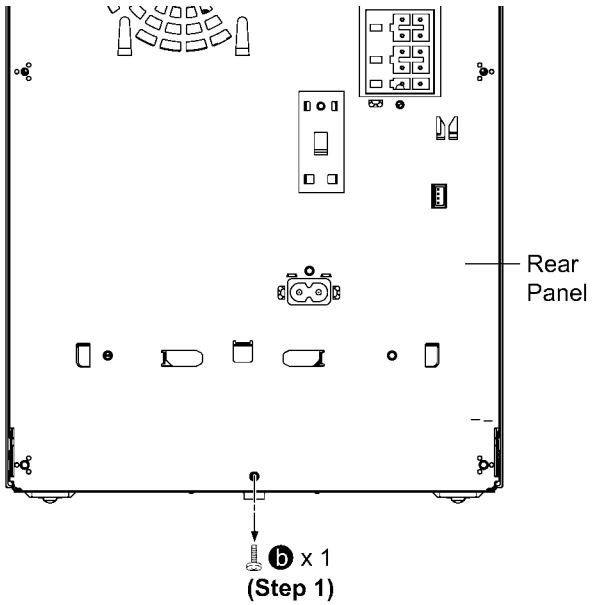
Step 5 Release the P.C.B. Spacer.
Step 6 Remove the SMPS P.C.B. and Voltage Selector P.C.B.
Caution: During assembling, ensure that SMPS P.C.B. is seated properly into the locators.



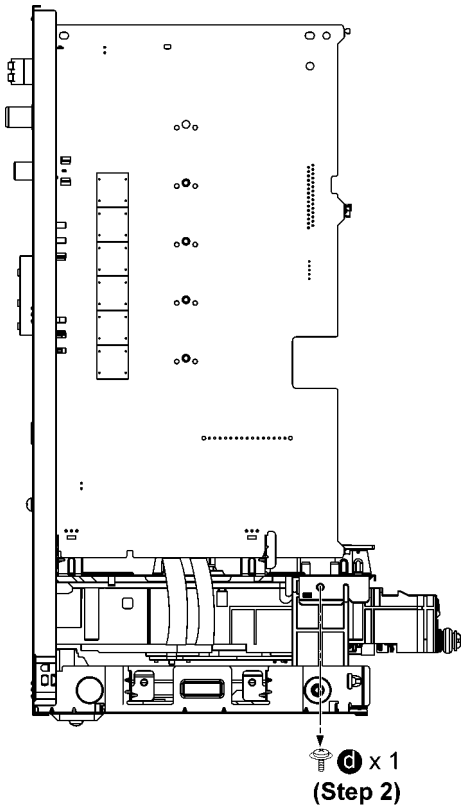
10.13. Disassembly of CD Mechanism Unit

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

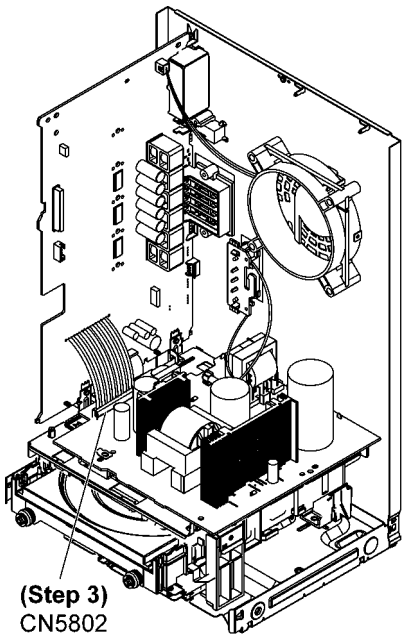
Step 1 Remove 1 screw.



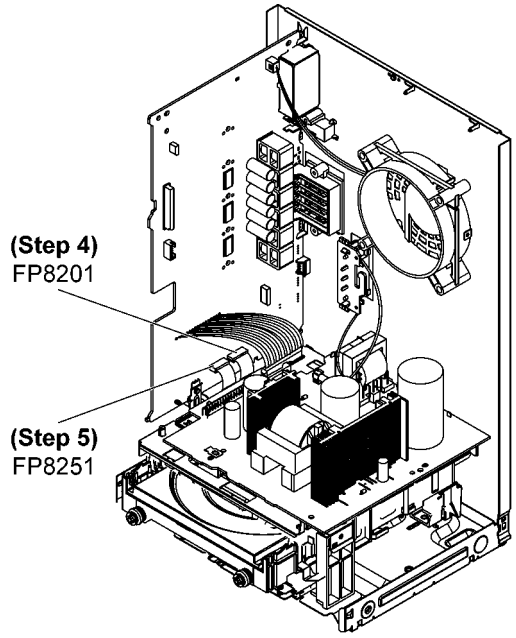
Step 2 Remove 1 screw.



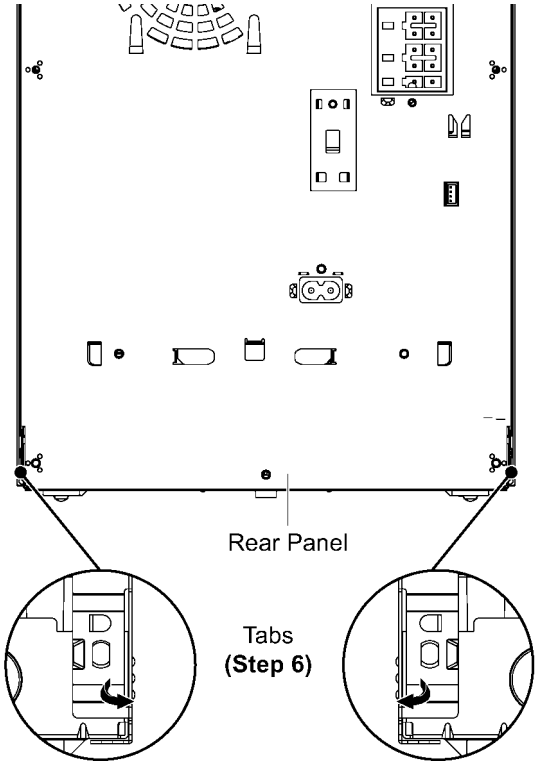
Step 3 Detach 13P Cable at connector (CN5802) on SMPS P.C.B..



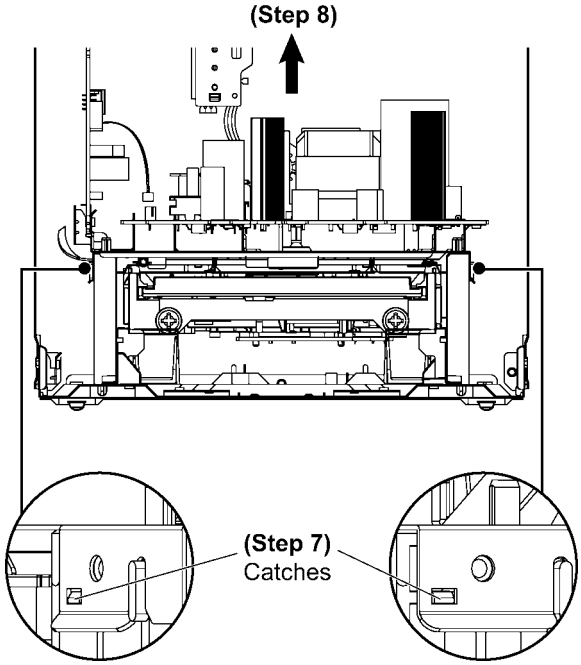
Step 4 Detach 24P FFC at connector (FP8201) on Main P.C.B..
Step 5 Detach 10P FFC at connector (FP8251) on Main P.C.B..



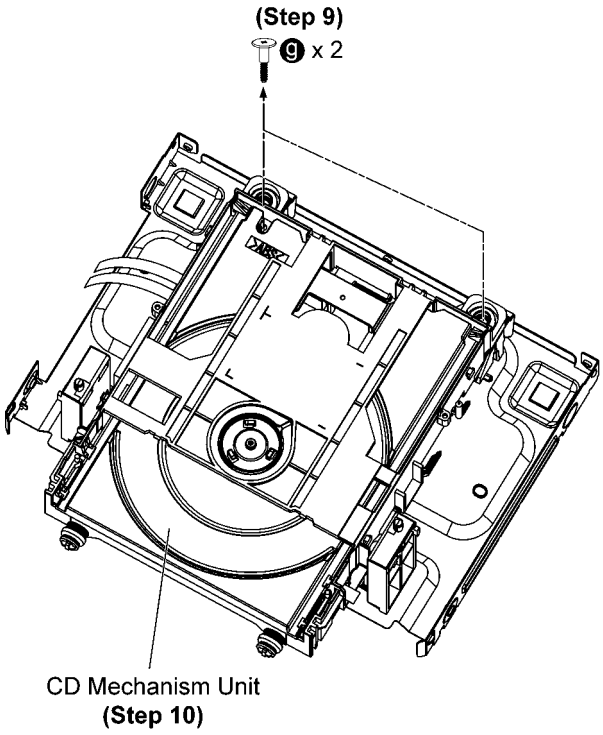
Step 6 Release 2 tabs.



Step 7 Release 2 catches.
Step 8 Lift up the main block (Main P.C.B., Rear Panel, SMPS P.C.B. and inner chassis).



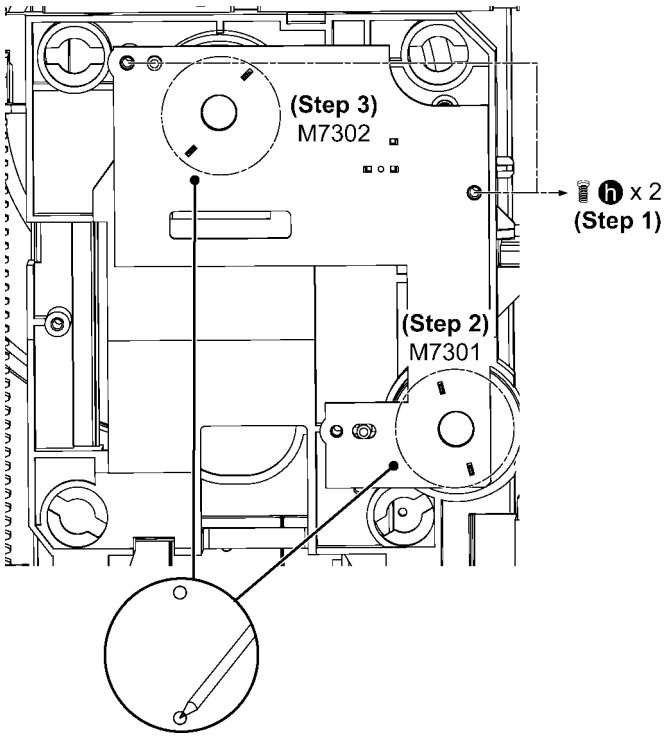
Step 9 Remove 2 screws.
Step 10 Remove CD Mechanism Unit.



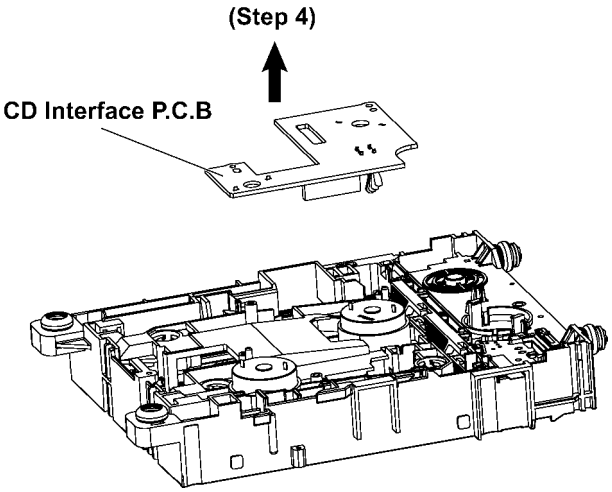
10.14. Disassembly of CD Interface P.C.B.

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

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



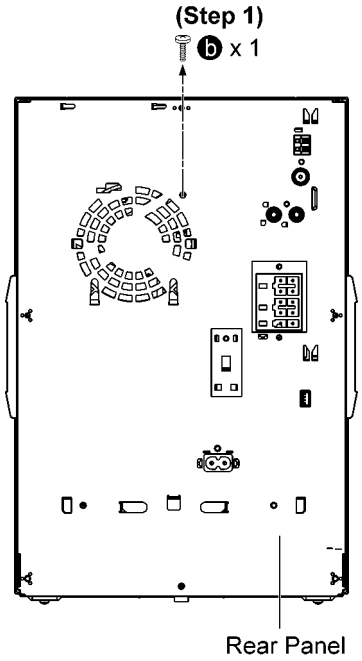
Step 4 Remove CD Interface P.C.B..



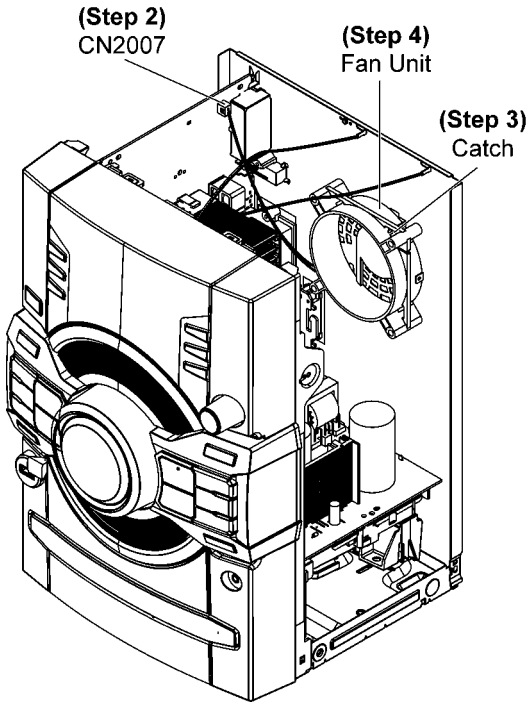
10.15. Disassembly of Fan Unit

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

Step 1 Remove 1 screw.



Step 2 Detach 2P Cable Wire at connector (CN2007) on Main P.C.B..
Step 3 Release catch.
Step 4 Remove Fan Unit.

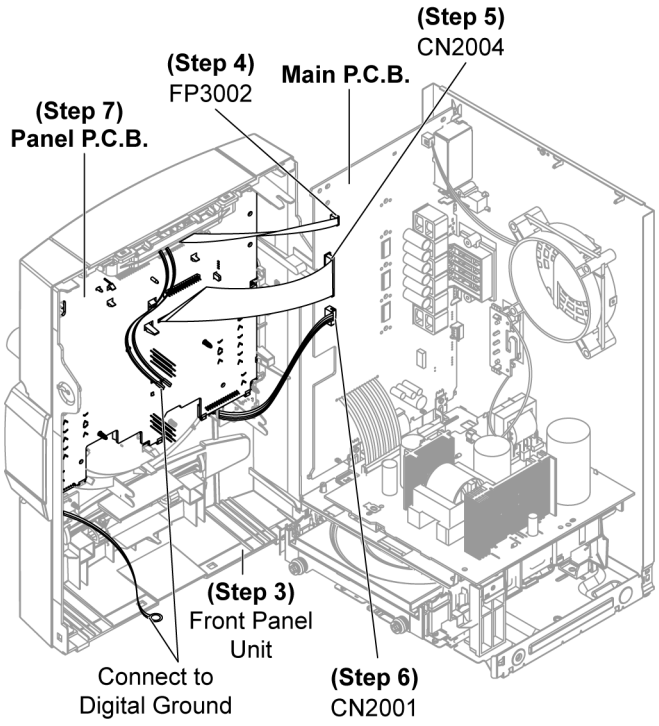


11 Service Position

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

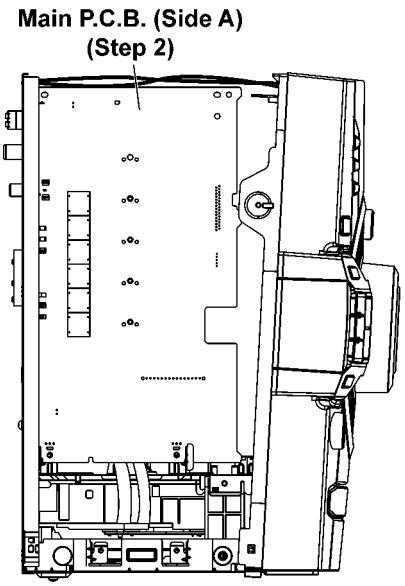
11.1. Checking of Panel P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Position the Front Panel Unit as shown.
Step 4 Attach 10P FFC at connector (FP3002) on Main P.C.B..
Step 5 Attach 30P FFC at a connector (CN2004) on the Main P.C.B..
Step 6 Attach 5P Cable Wire at connector (CN2001) on Main P.C.B..
Step 7 Panel P.C.B. can be check at diagram shown.



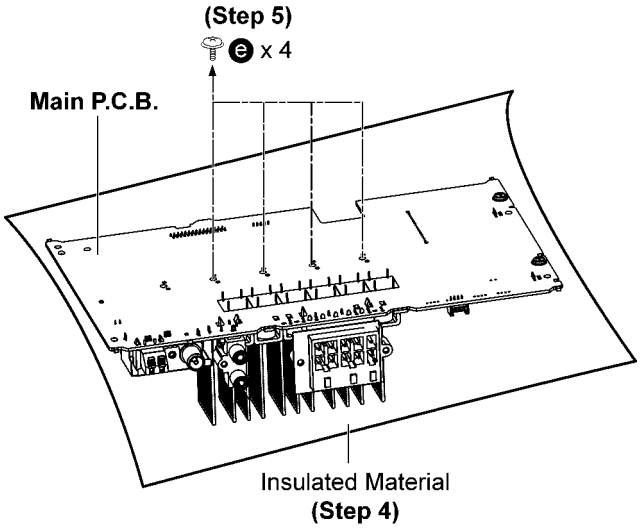
11.2. Checking of Main P.C.B. (Side A)

Step 1 Remove Top Cabinet.
Step 2 Main P.C.B. (Side A) can be check at diagram shown.

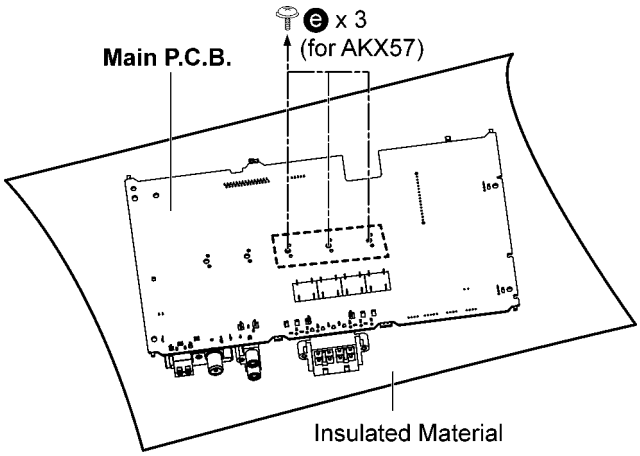


11.3. Checking of Main P.C.B. (Side B)

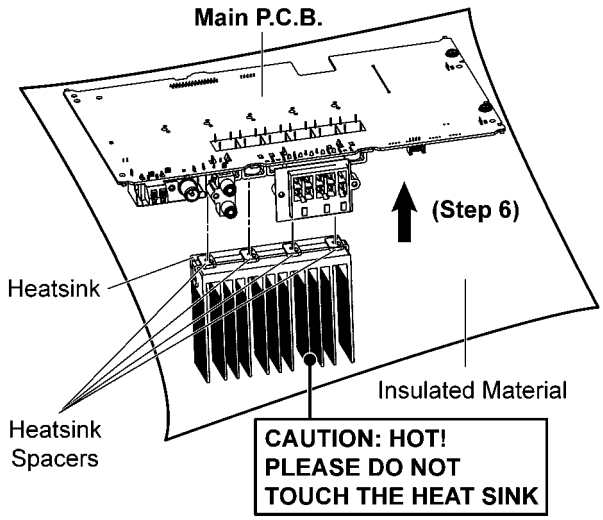
Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Remove Main P.C.B..
Step 4 Place the Main P.C.B. on an insulated material.
Step 5 Remove 4 screws (for AKX77) and 3 screws (for AKX57).



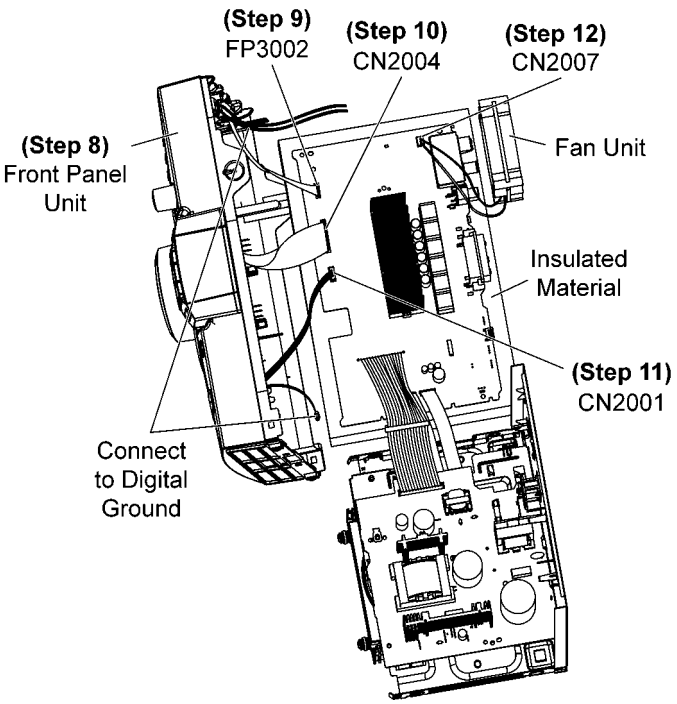
Note:
Below 3 screws are for model AKX57.



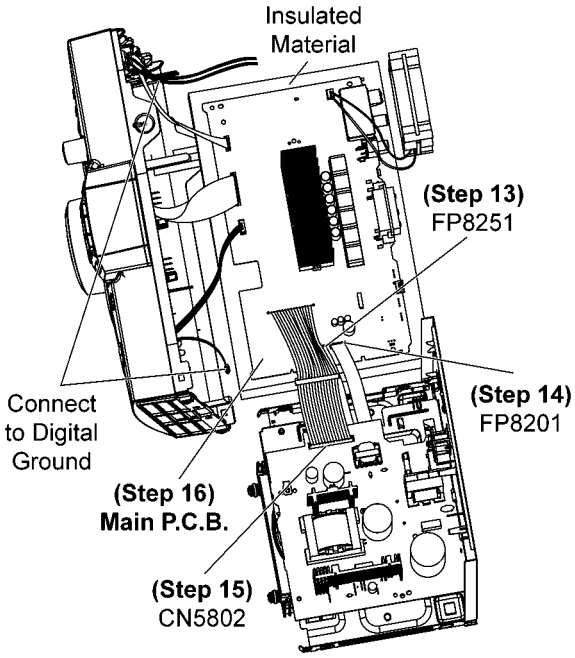
Step 6 Lift up the Main P.C.B. as arrow shown.



Step 7 Remove Fan Unit.
Step 8 Position the Front Panel Unit as shown.
Step 9 Attach 10P FFC at connector (FP3002) on Main P.C.B..
Step 10 Attach 30P FFC at a connector (CN2004) on the Main P.C.B..
Step 11 Attach 5P Cable Wire at connector (CN2001) on Main P.C.B..
Step 12 Attach 2P Cable at connector (CN2007) on Main P.C.B..

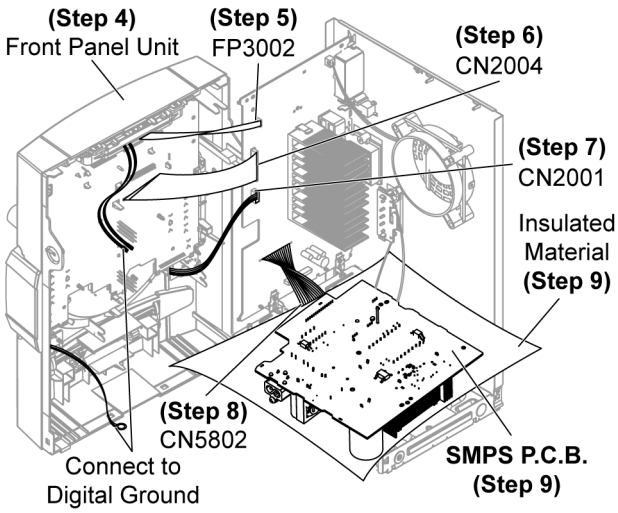


Step 13 Attach 10P FFC at a connector (FP8251) on the Main P.C.B..
Step 14 Attach 24P FFC at a connector (FP8201) on the Main P.C.B..
Step 15 Attach 13P Cable at a connector (CN5802) on the SMPS P.C.B..
Step 16 Side B Main P.C.B. can be check at diagram shown.



11.4. Checking of SMPS P.C.B. (Side A)

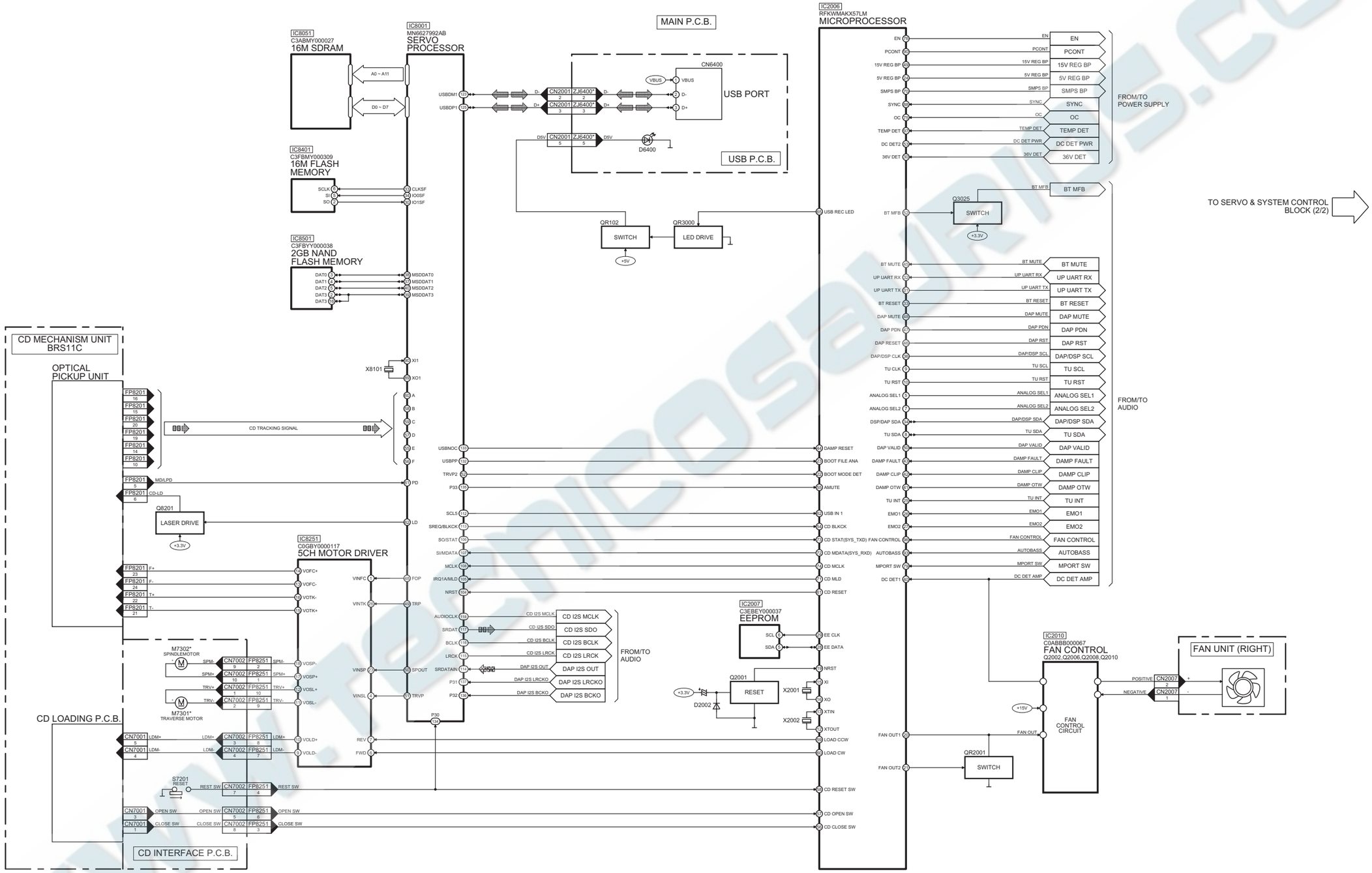
Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Remove SMPS P.C.B..
Step 4 Position the Front Panel Unit as shown.
Step 5 Attach 10P FFC at connector (FP3002) on Main P.C.B..
Step 6 Attach 30P FFC at a connector (CN2004) on the Main P.C.B..
Step 7 Attach 5P Cable Wire at connector (CN2001) on Main P.C.B..
Step 8 Attach 13P Cable at a connector (CN5802) on the SMPS P.C.B..
Step 9 Upset the SMPS P.C.B. and place on an insulated material.



12 Block Diagram

12.1. Servo & System Control

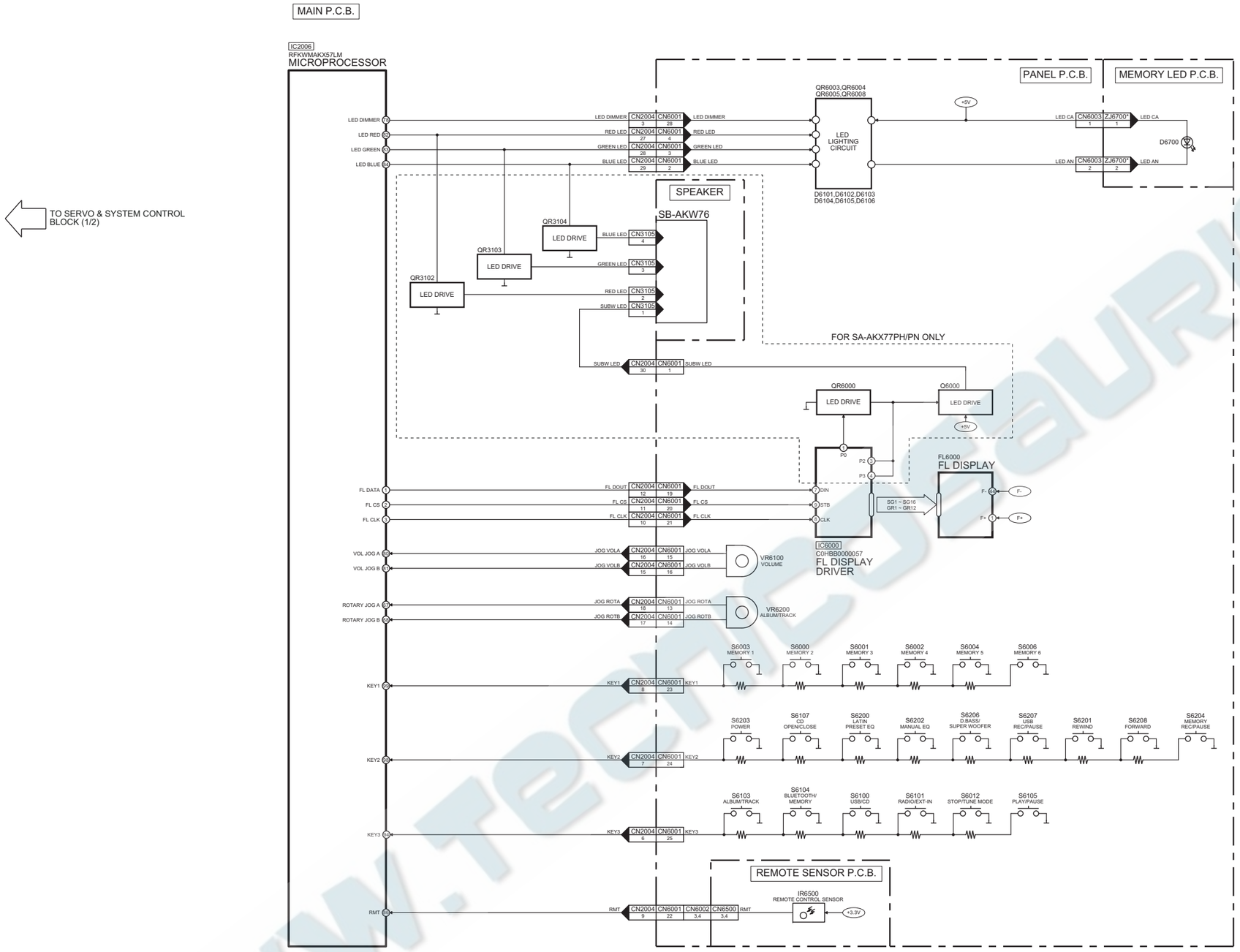
: CD AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM

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

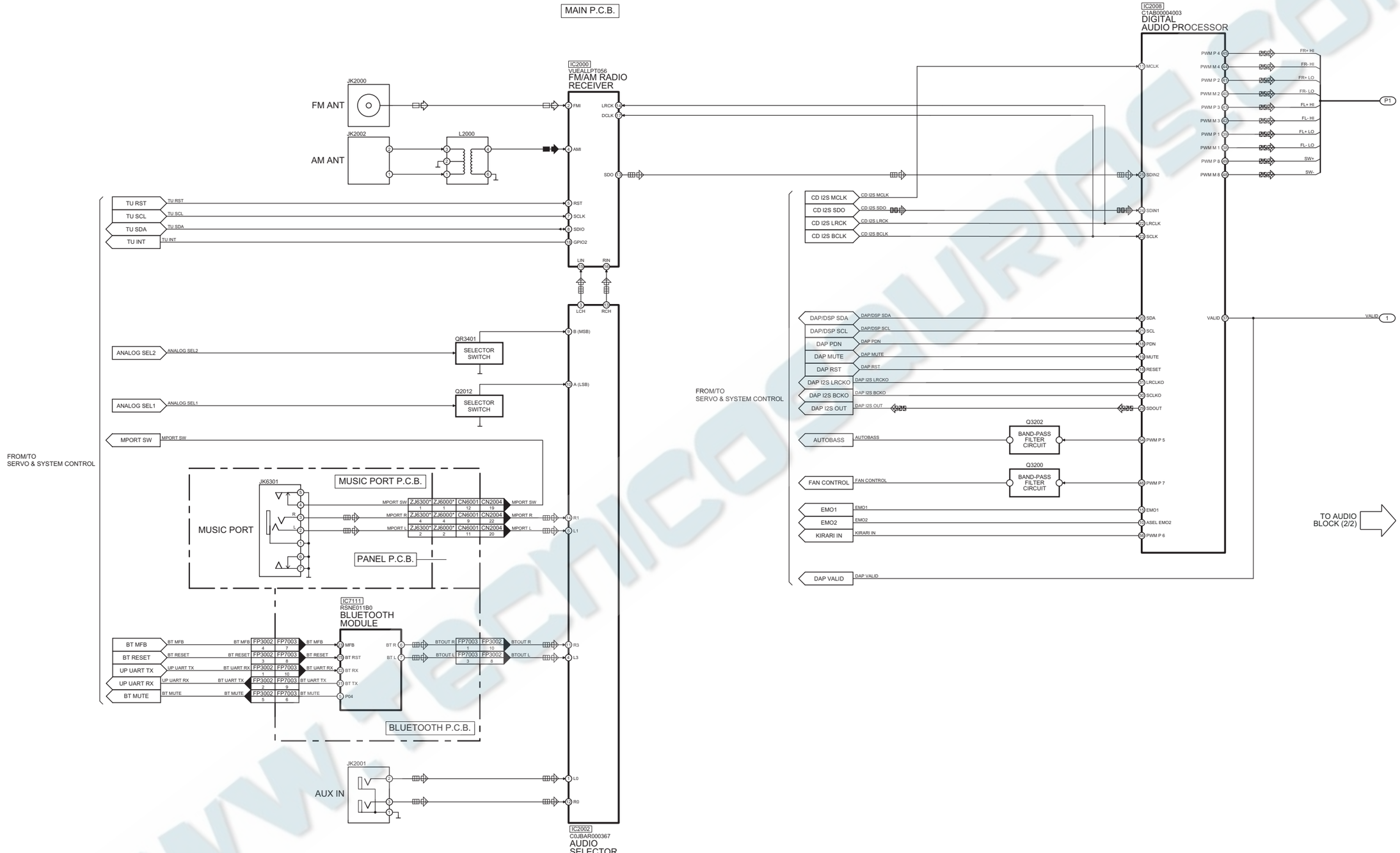


NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

12.2. Audio

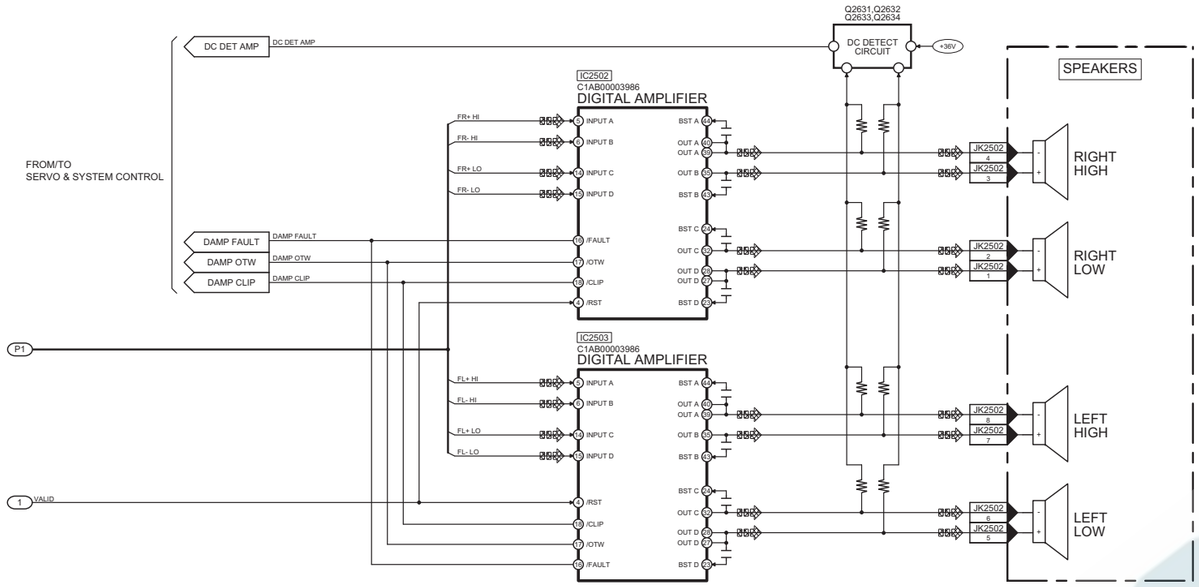
: CD AUDIO INPUT SIGNAL LINE : TUNER/MUSIC PORT/AUX/MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN AUDIO (1/2) BLOCK DIAGRAM

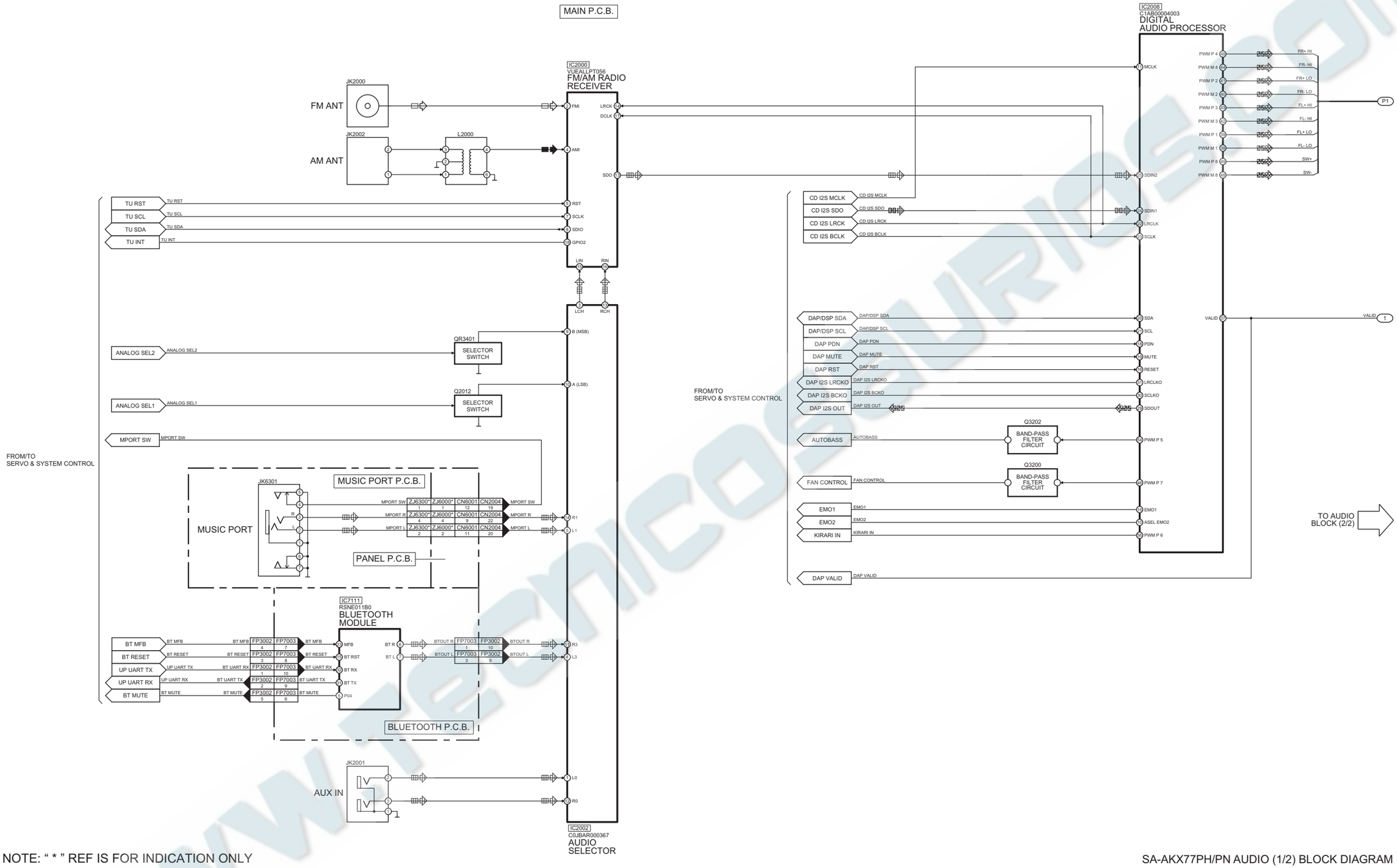
: CD AUDIO INPUT SIGNAL LINE : TUNER/MUSIC PORT/AUX/MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



TO AUDIO BLOCK (1/2)

SA-AKX57PN AUDIO (2/2) BLOCK DIAGRAM

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

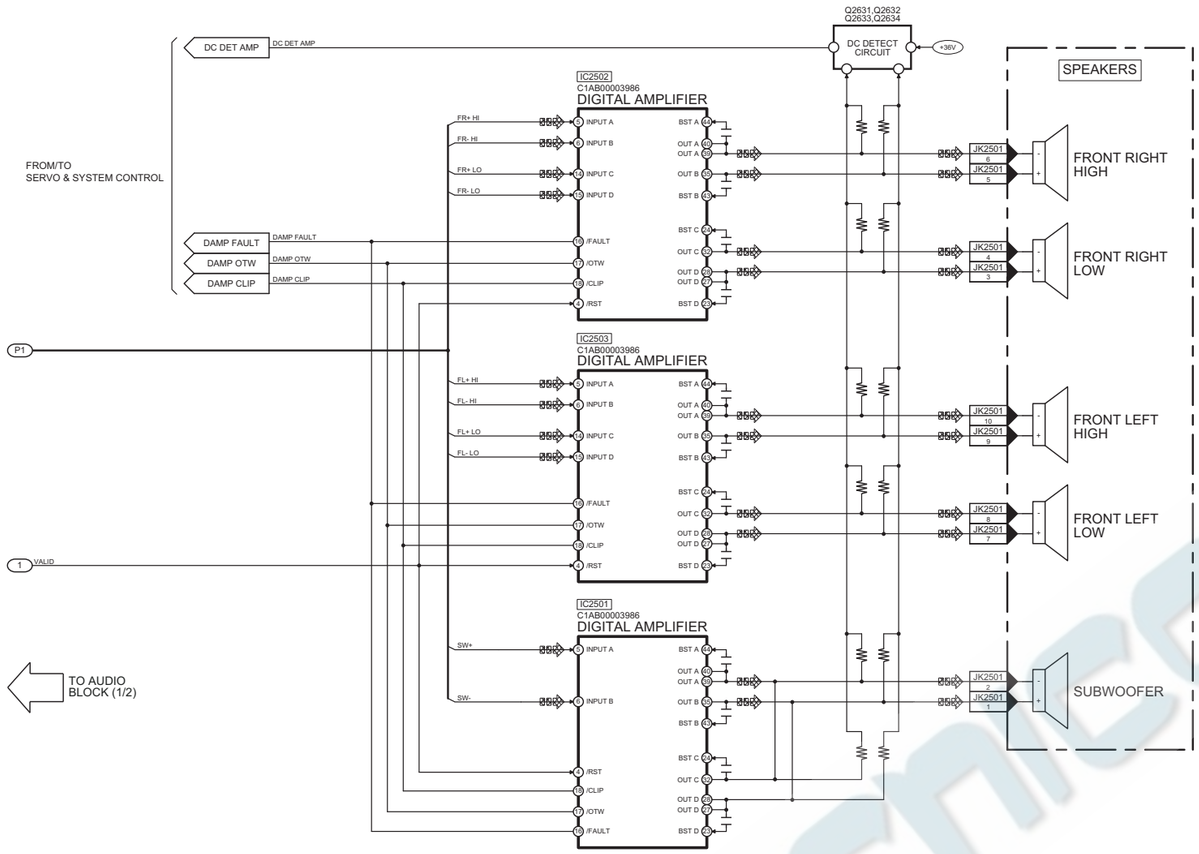


NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX77PH/PN AUDIO (1/2) BLOCK DIAGRAM

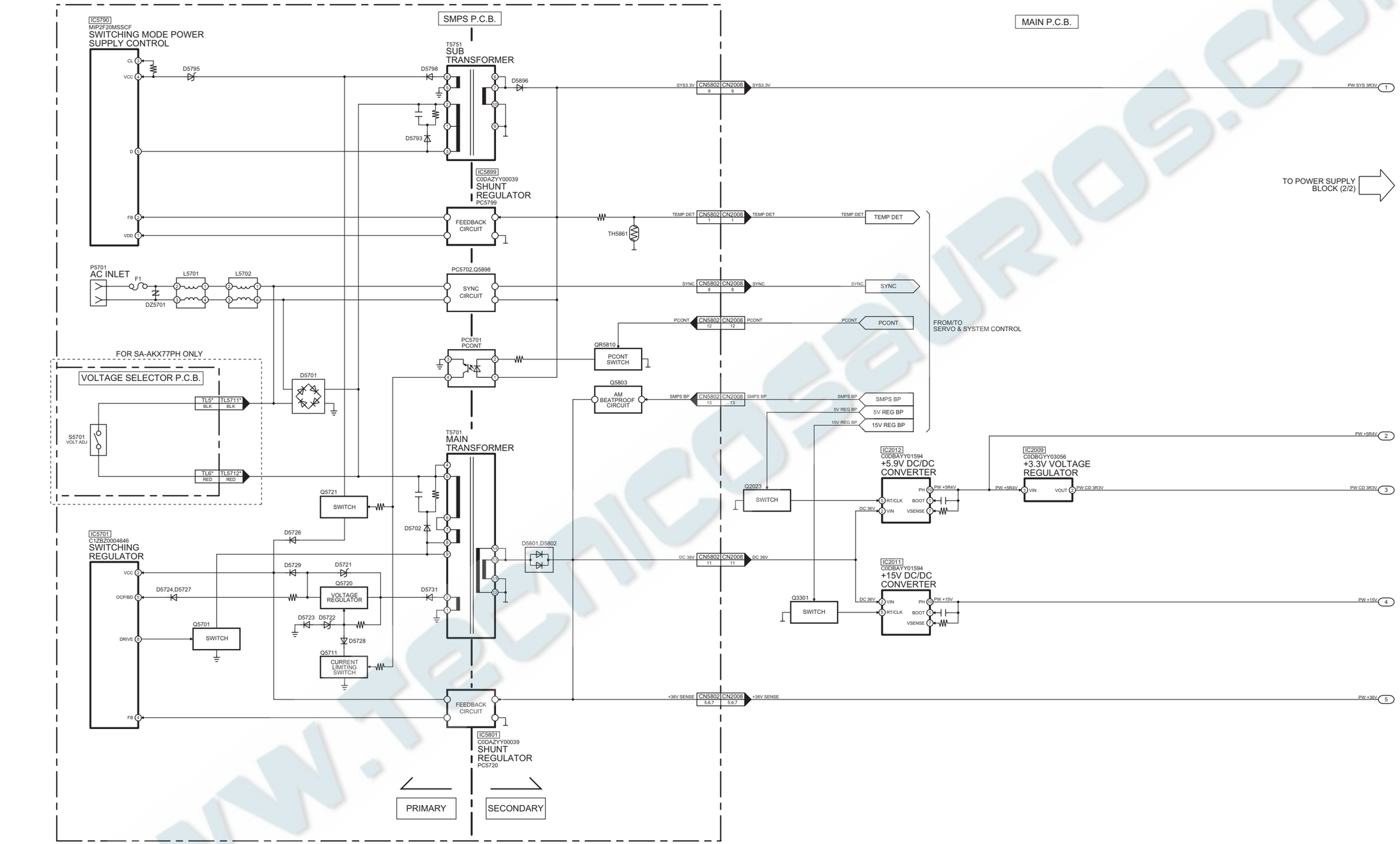
: CD AUDIO INPUT SIGNAL LINE : TUNER/MUSIC PORT/AUX/MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE

MAIN P.C.B.



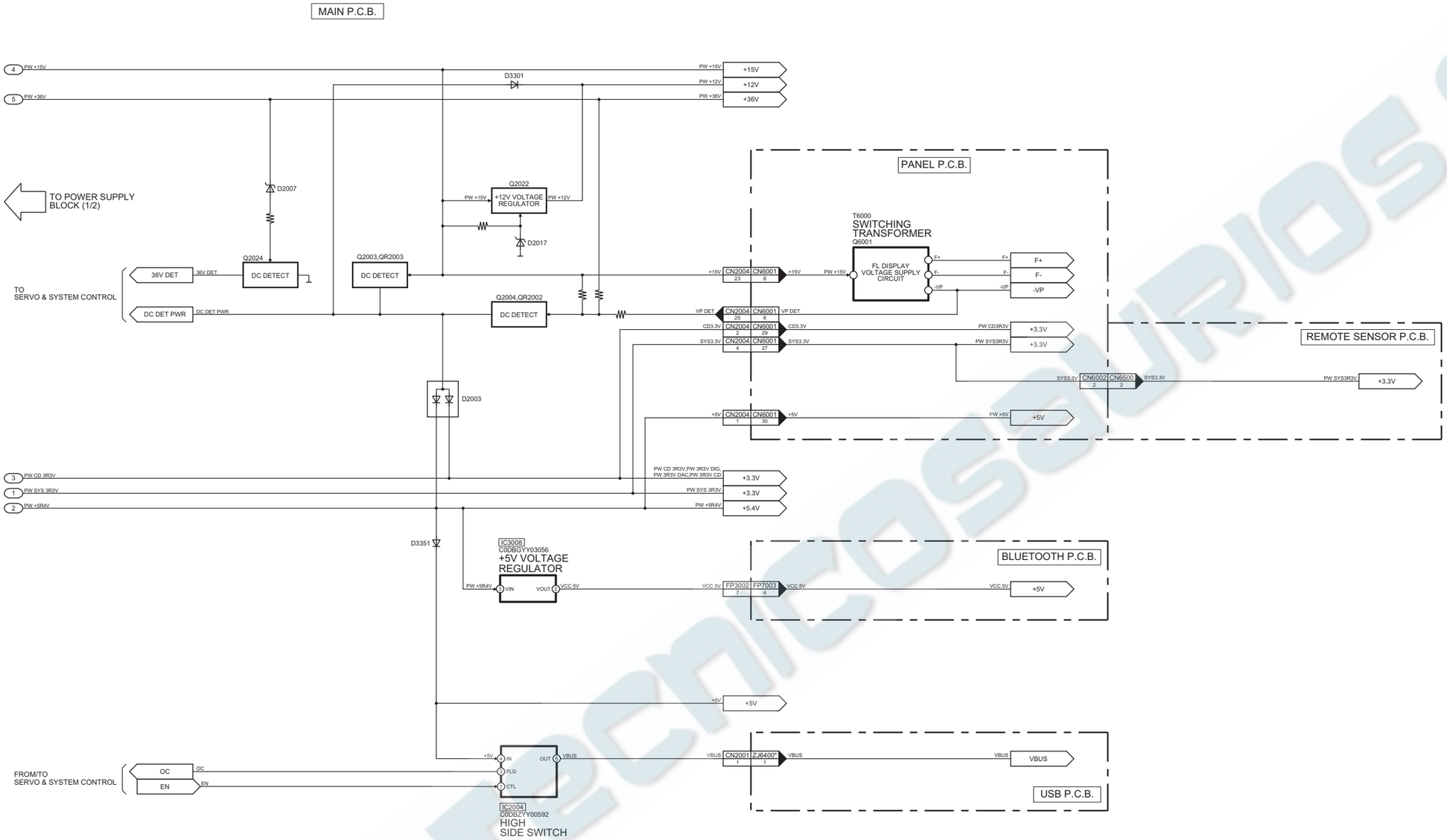
SA-AKX77PH/PN AUDIO (2/2) BLOCK DIAGRAM

12.3. Power Supply



NOTE: " * " REF IS FOR INDICATION ONLY

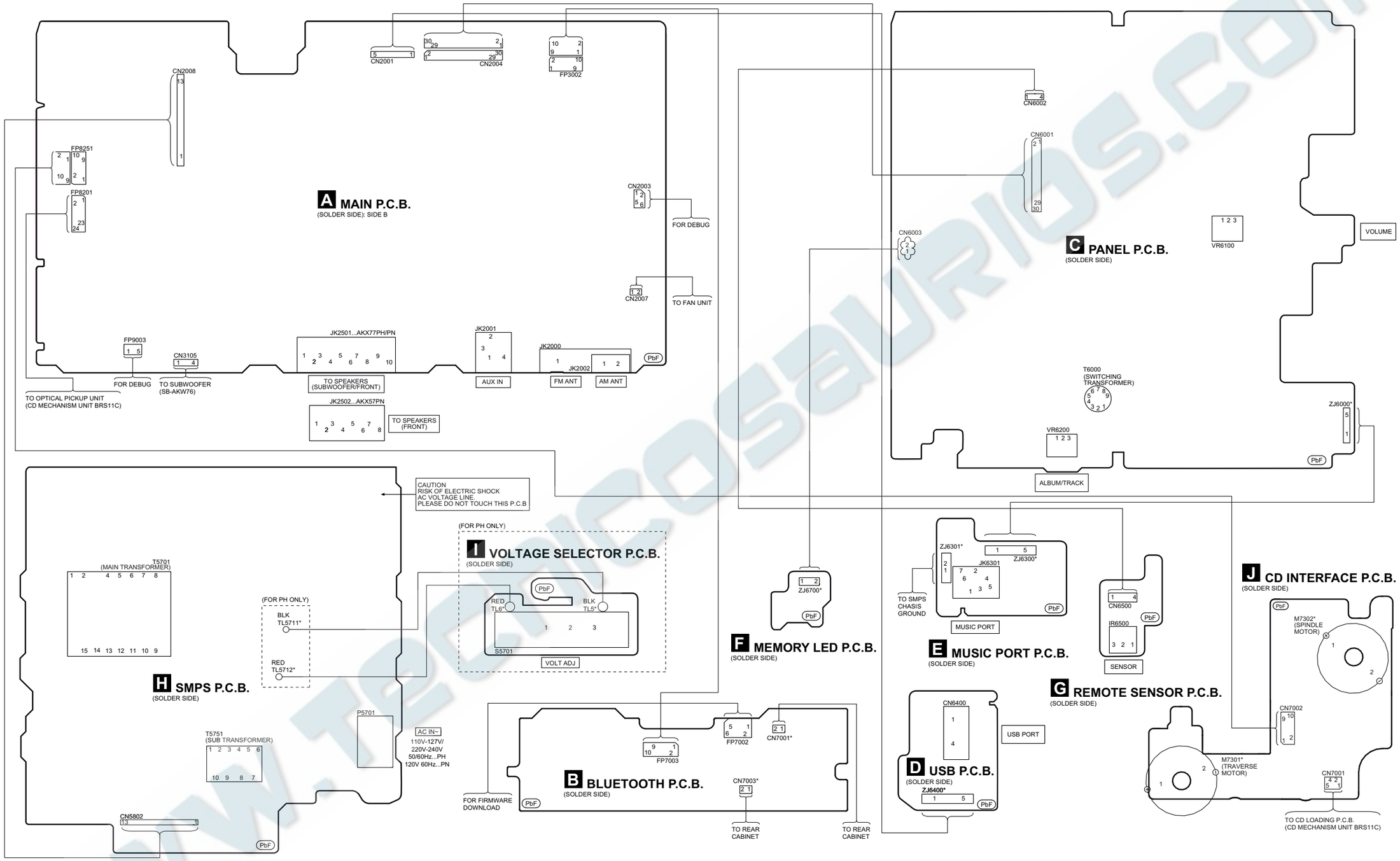
SA-AKX57PN,SA-AKX77PH/PN POWER SUPPLY (1/2) BLOCK DIAGRAM



NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN POWER SUPPLY (2/2) BLOCK DIAGRAM

13 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX57PN, SA-AKX77PH/PN WIRING CONNECTION DIAGRAM

14 Schematic Diagram

14.1. Schematic Diagram Notes

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

Notes:

S5701:	Voltage Selector (For PH only).
S6000:	Memory 2 switch.
S6001:	Memory 3 switch.
S6002:	Memory 4 switch.
S6003:	Memory 1 switch.
S6004:	Memory 5 switch.
S6006:	Memory 6 switch.
S6012:	Stop (■)/Tune switch.
S6100:	USB/CD switch.
S6101:	Radio/EXT-IN switch.
S6103:	Album/Track switch.
S6104:	Bluetooth/Memory switch.
S6105:	Play/Pause (▶ / ▮▮) switch.
S6107:	CD Open/Close (⏏) switch.
S6200:	Latin/Preset EQ switch.
S6201:	Rewind (⏮ / ◀◀) switch.
S6202:	Manual EQ switch.
S6203:	Power (⏻/|) switch.
S6204:	Memory Rec/Pause switch.
S6206:	D.Bass - Superwoofer switch.
S6207:	USB Rec/Pause switch.
S6208:	Forward (▶▶ / ⏭) switch.
S7201:	Reset switch.
VR6100:	Volume Jog.
VR6200:	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.

• In case of AC rated voltage Capacitors, the part no. and values will be indicated in the Schematic Diagram.
AC rated voltage capacitors: C5701, C5702, C5703, C5704, C5705, C5706, C5707, C5708

• **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.

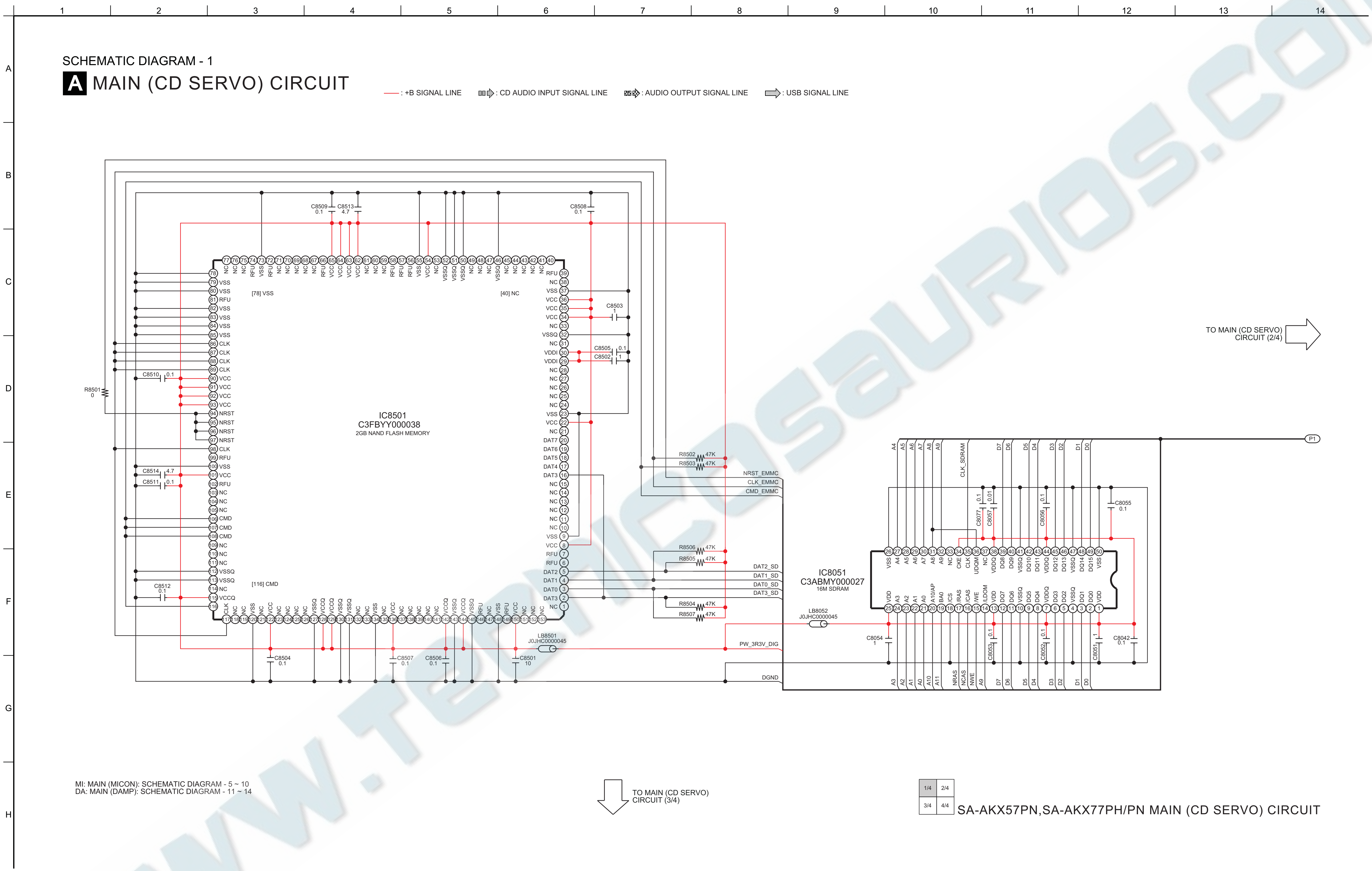
• **Coil**
Unit of inductance is H, unless otherwise noted.

• *****
REF IS FOR INDICATION ONLY.

• Voltage and signal line

: +B signal line
: -B signal line
: CD Audio input signal line
: Tuner/Music Port/AUX/Bluetooth Audio input signal line
: Audio output signal line
: USB signal line
: AM signal line
: FM signal line

14.2. MAIN (CD Servo) Circuit

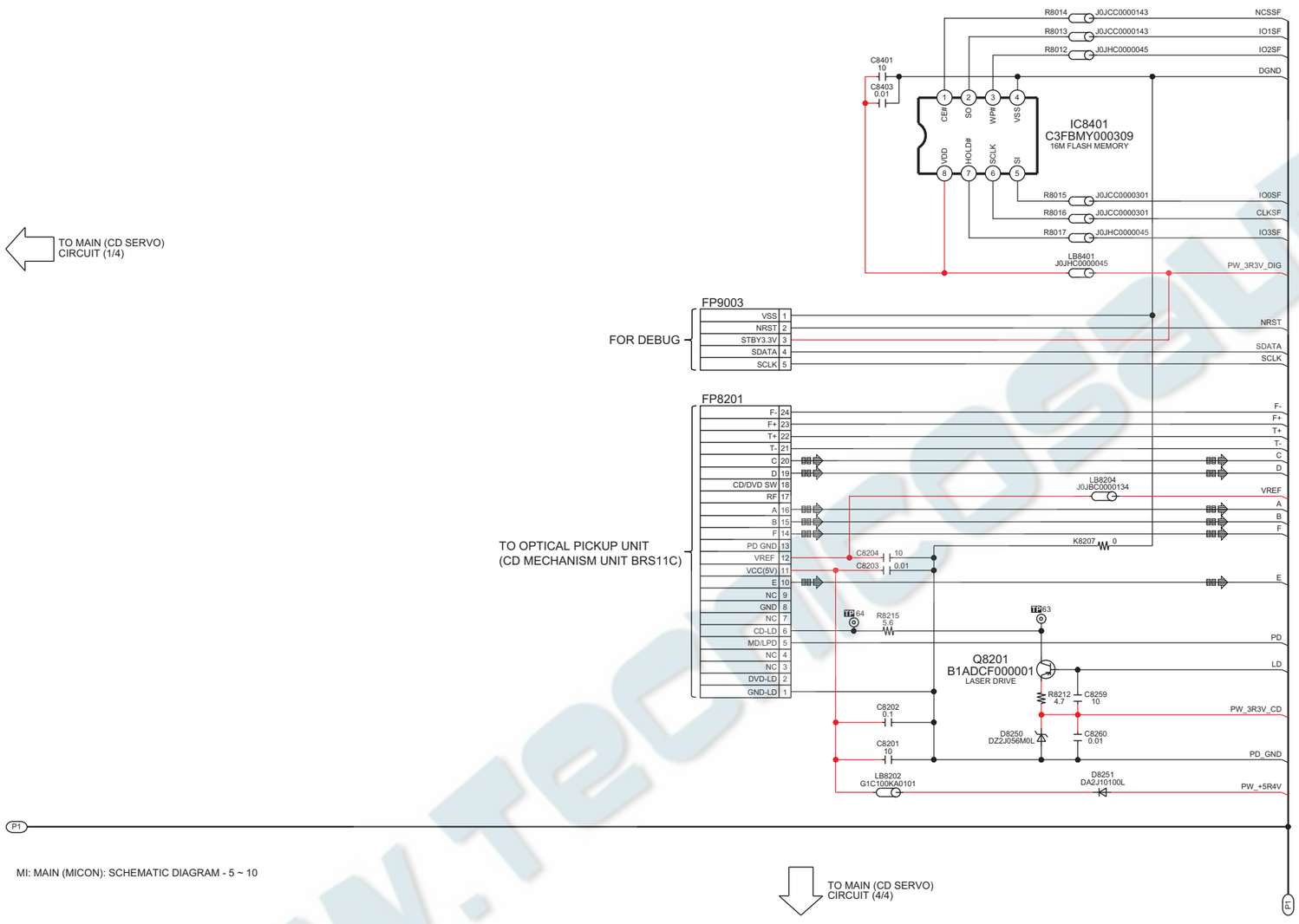


SCHEMATIC DIAGRAM - 1
A MAIN (CD SERVO) CIRCUIT
: +B SIGNAL LINE
: CD AUDIO INPUT SIGNAL LINE
: AUDIO OUTPUT SIGNAL LINE
: USB SIGNAL LINE
IC8501
C3FBYY000038
2GB NAND FLASH MEMORY
IC8051
C3ABMY000027
16M SDRAM
TO MAIN (CD SERVO) CIRCUIT (2/4)
TO MAIN (CD SERVO) CIRCUIT (3/4)
NRST_EMMC
CLK_EMMC
CMD_EMMC
DAT2_SD
DAT1_SD
DAT0_SD
DAT3_SD
PW_3R3V_DIG
DGND
LB8501
J0JHC0000045
LB8052
J0JHC0000045
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14
SA-AKX57PN,SA-AKX77PH/PN MAIN (CD SERVO) CIRCUIT

SCHEMATIC DIAGRAM - 2

A MAIN (CD SERVO) CIRCUIT

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



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10

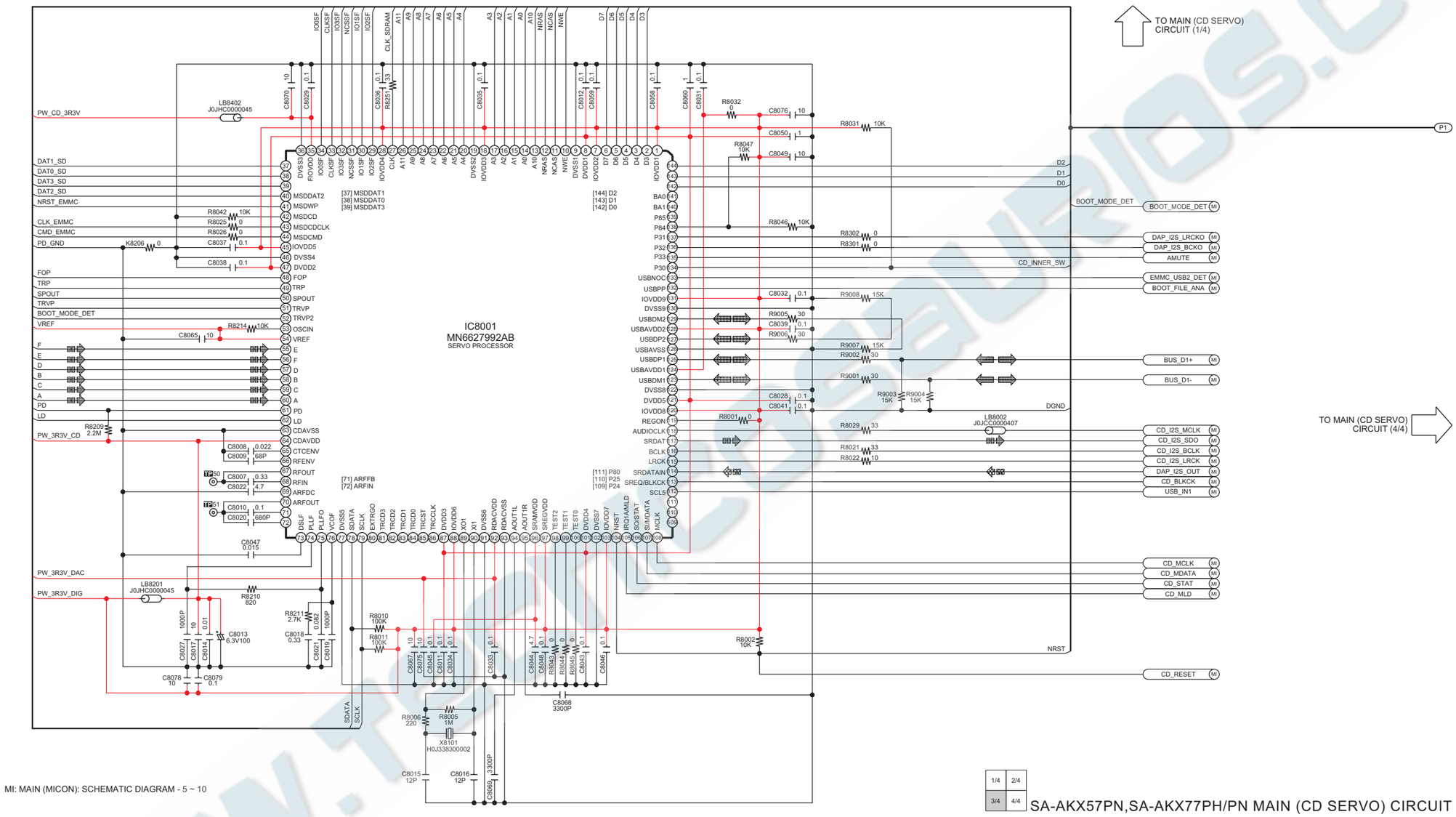
1/4	2/4
3/4	4/4

SA-AKX57PN,SA-AKX77PH/PN
MAIN (CD SERVO) CIRCUIT

SCHEMATIC DIAGRAM - 3

A MAIN (CD SERVO) CIRCUIT

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



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10

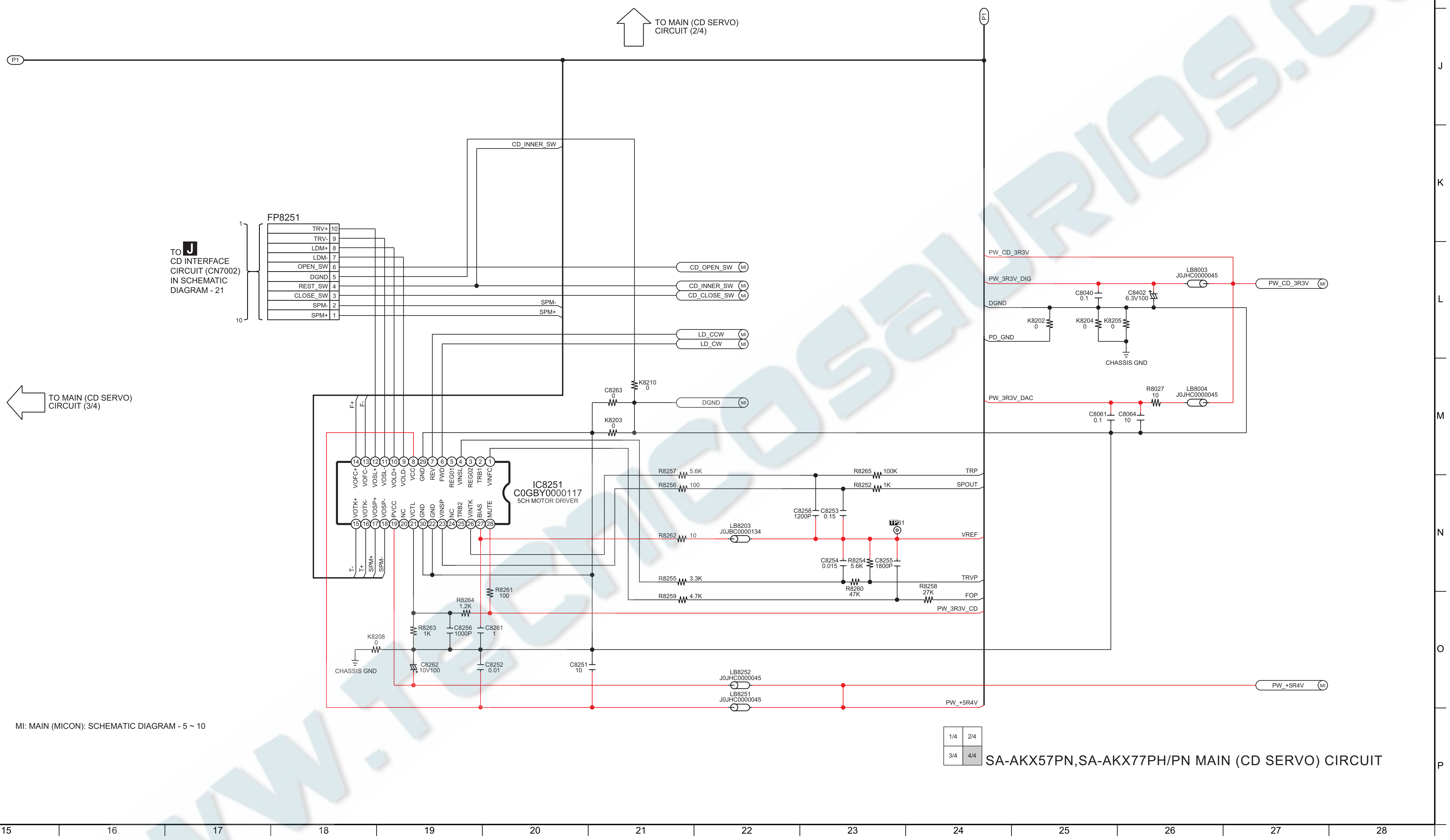
1/4	2/4
3/4	4/4

SA-AKX57PN,SA-AKX77PH/PN MAIN (CD SERVO) CIRCUIT

SCHEMATIC DIAGRAM - 4

A MAIN (CD SERVO) CIRCUIT

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



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10

SA-AKX57PN,SA-AKX77PH/PN MAIN (CD SERVO) CIRCUIT

14.3. MAIN (Micon) Circuit

SCHEMATIC DIAGRAM - 5

A MAIN (MICON) CIRCUIT

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

IC2006
RFKWMAKX57LM
MICROPROCESSOR

IC2007
C3EBEY000037
EEPROM

IC3008
C0DBGYY03056
+5V VOLTAGE REGULATOR

Q3025
B1ADCE000012
SWITCH

Q2001
B1GBCFLL0037
RESET

Q2024
B1GBCFJJ0041
DC DETECT

QR2001
B1GBCFJJ0051
SWITCH

FP3002

CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

TO MAIN (MICON) CIRCUIT (2/6)

TO MAIN (MICON) CIRCUIT (4/6)

TO **B** BLUETOOTH CIRCUIT (FP7003) IN SCHEMATIC DIAGRAM - 15

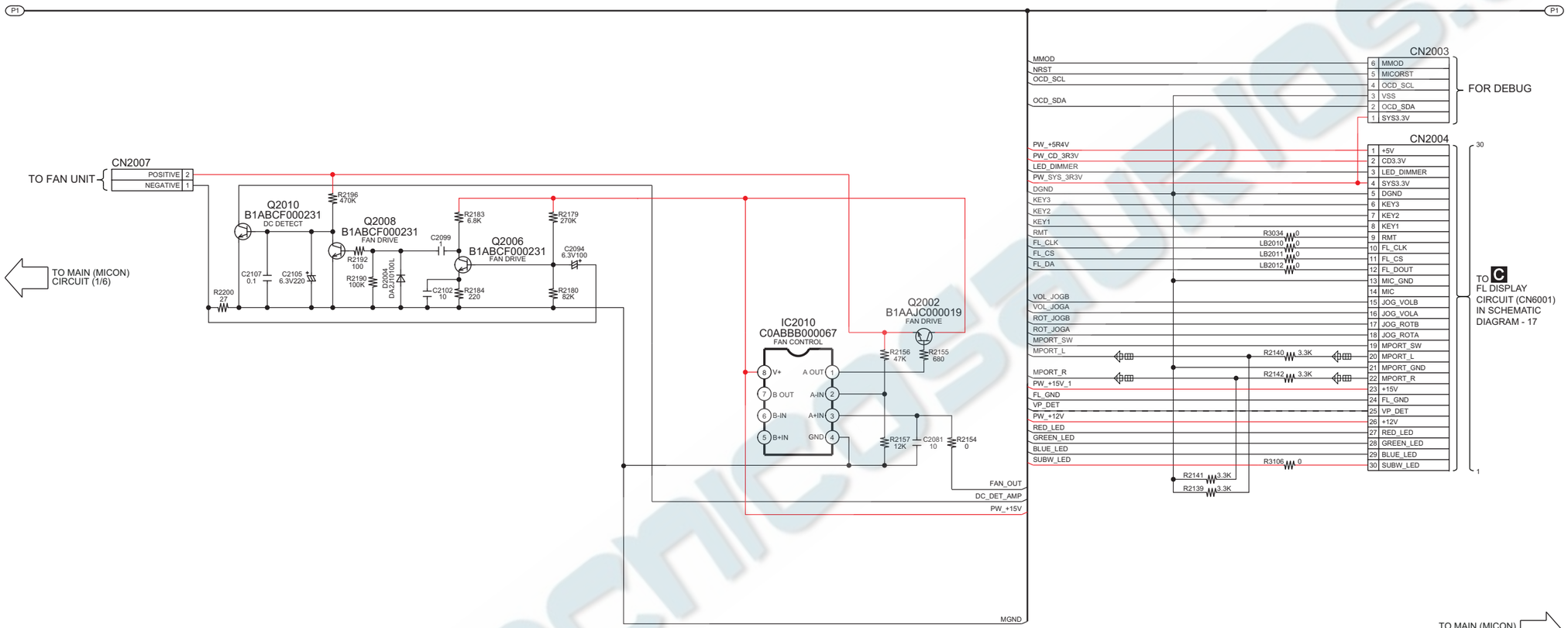
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX57PN,SA-AKX77PH/PN
MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 6

A MAIN (MICON) CIRCUIT

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



CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

TO MAIN (MICON) CIRCUIT (5/6)

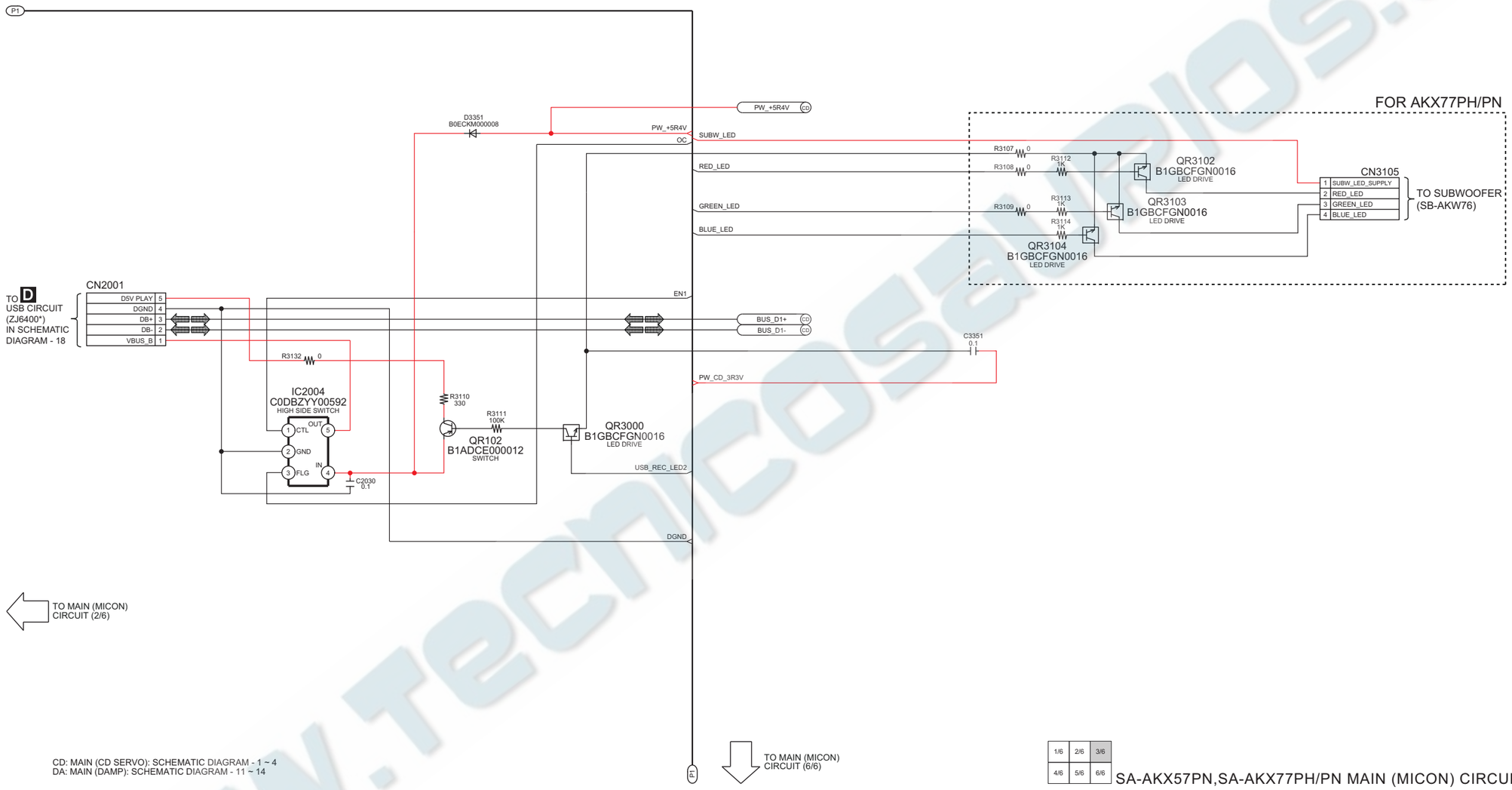
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX57PN,SA-AKX77PH/PN MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 7

A MAIN (MICON) CIRCUIT

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



CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

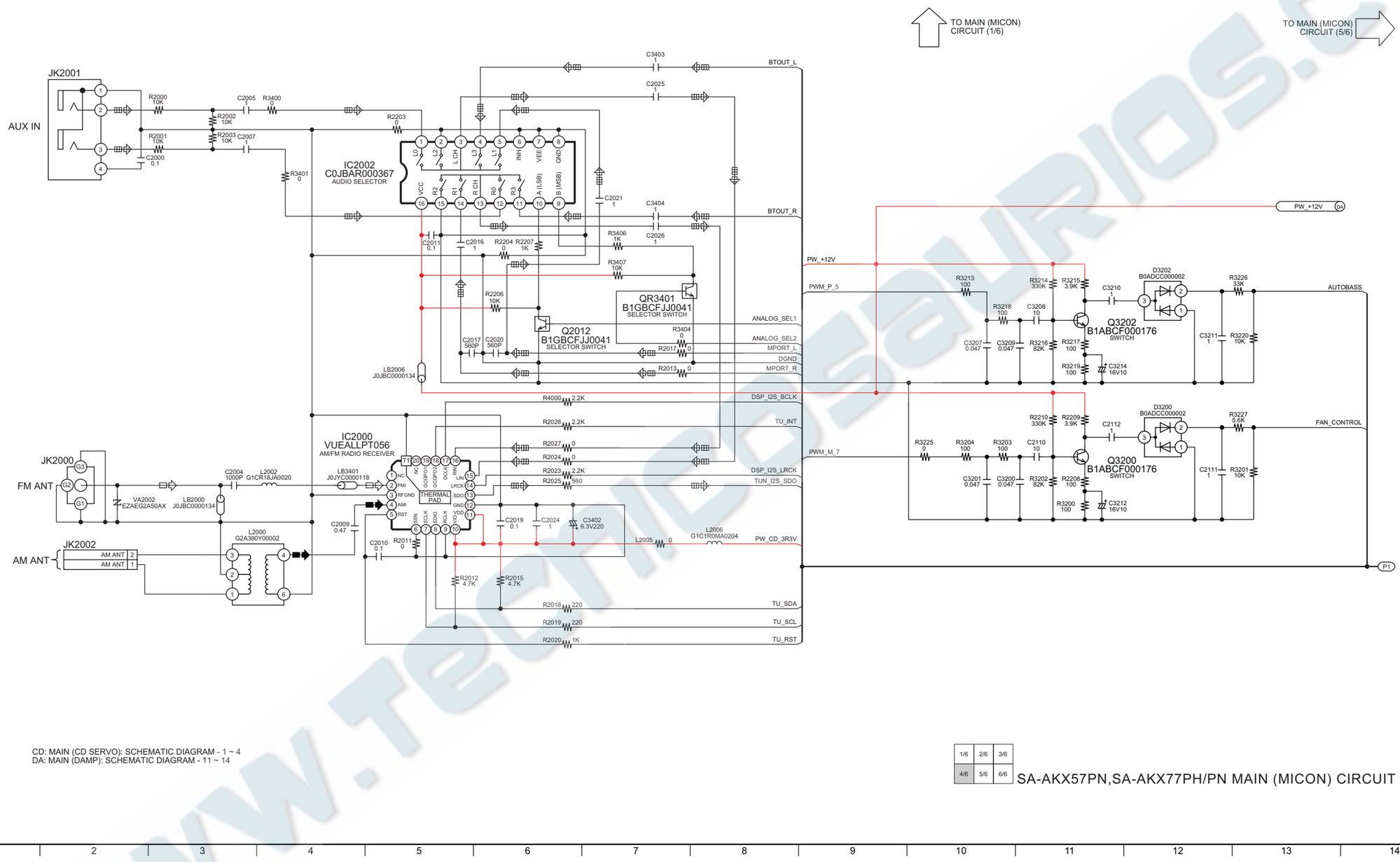
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX57PN,SA-AKX77PH/PN MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 8

A MAIN (MICON) CIRCUIT

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



CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX57PN,SA-AKX77PH/PN MAIN (MICON) CIRCUIT

SCHEMATIC DIAGRAM - 9

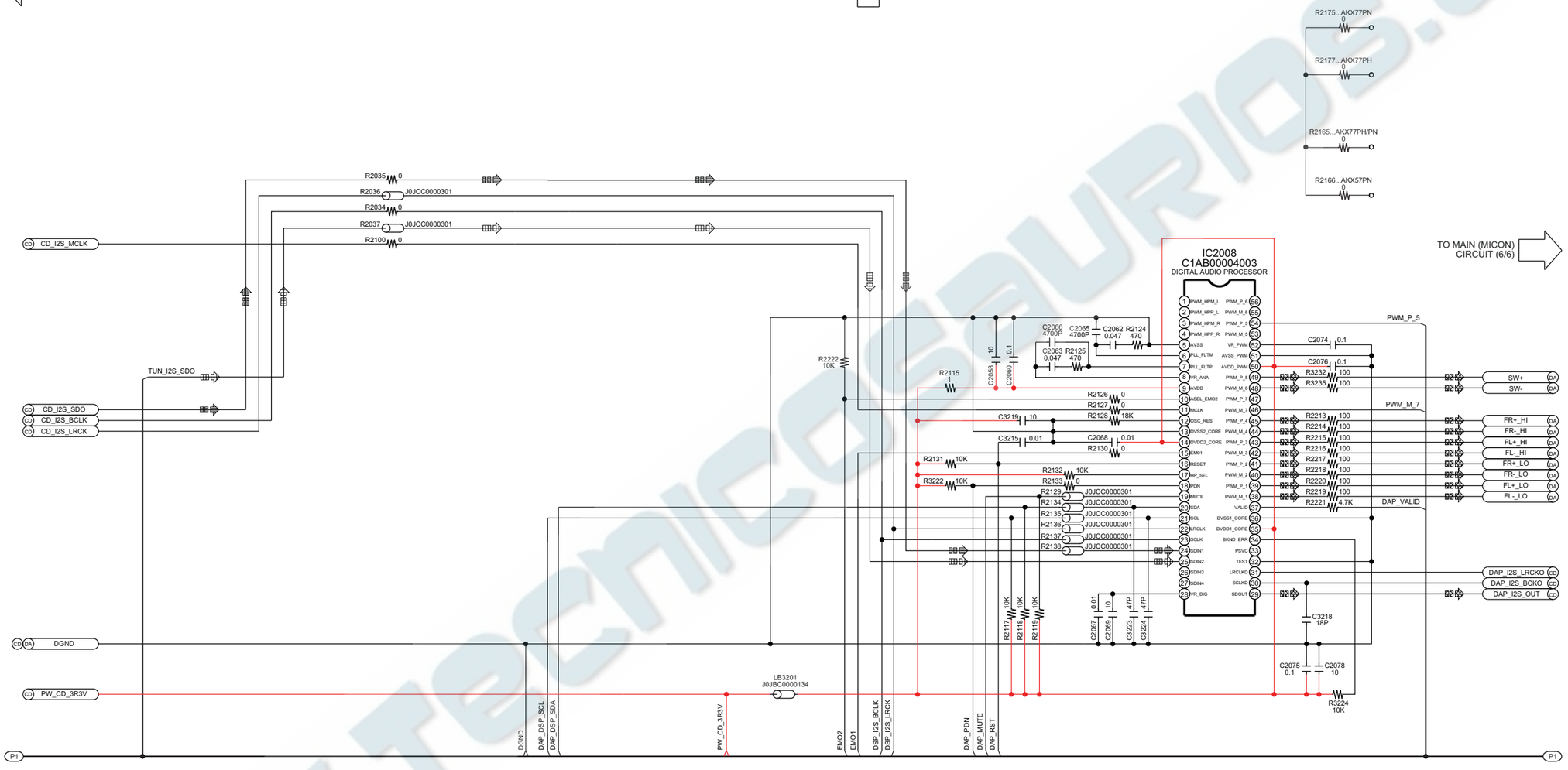
A MAIN (MICON) CIRCUIT

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

TO MAIN (MICON) CIRCUIT (4/6)

TO MAIN (MICON) CIRCUIT (2/6)

TO MAIN (MICON) CIRCUIT (6/6)



CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

1/6	2/6	3/6
4/6	5/6	6/6

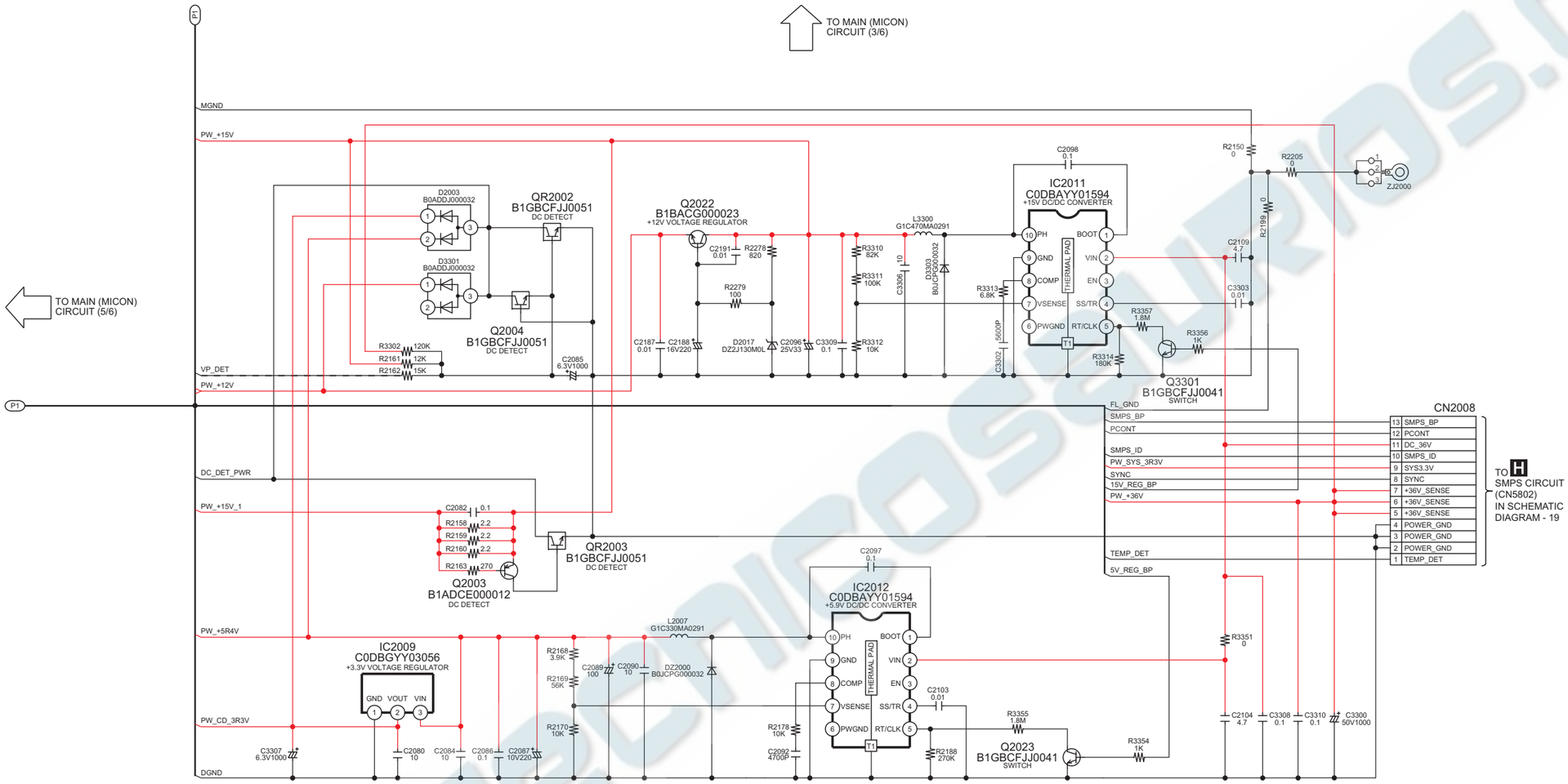
SA-AKX57PN,SA-AKX77PH/PN MAIN (MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 10

A MAIN (MICON) CIRCUIT

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



CD: MAIN (CD SERVO): SCHEMATIC DIAGRAM - 1 ~ 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 11 ~ 14

1/6	2/6	3/6
4/6	5/6	6/6

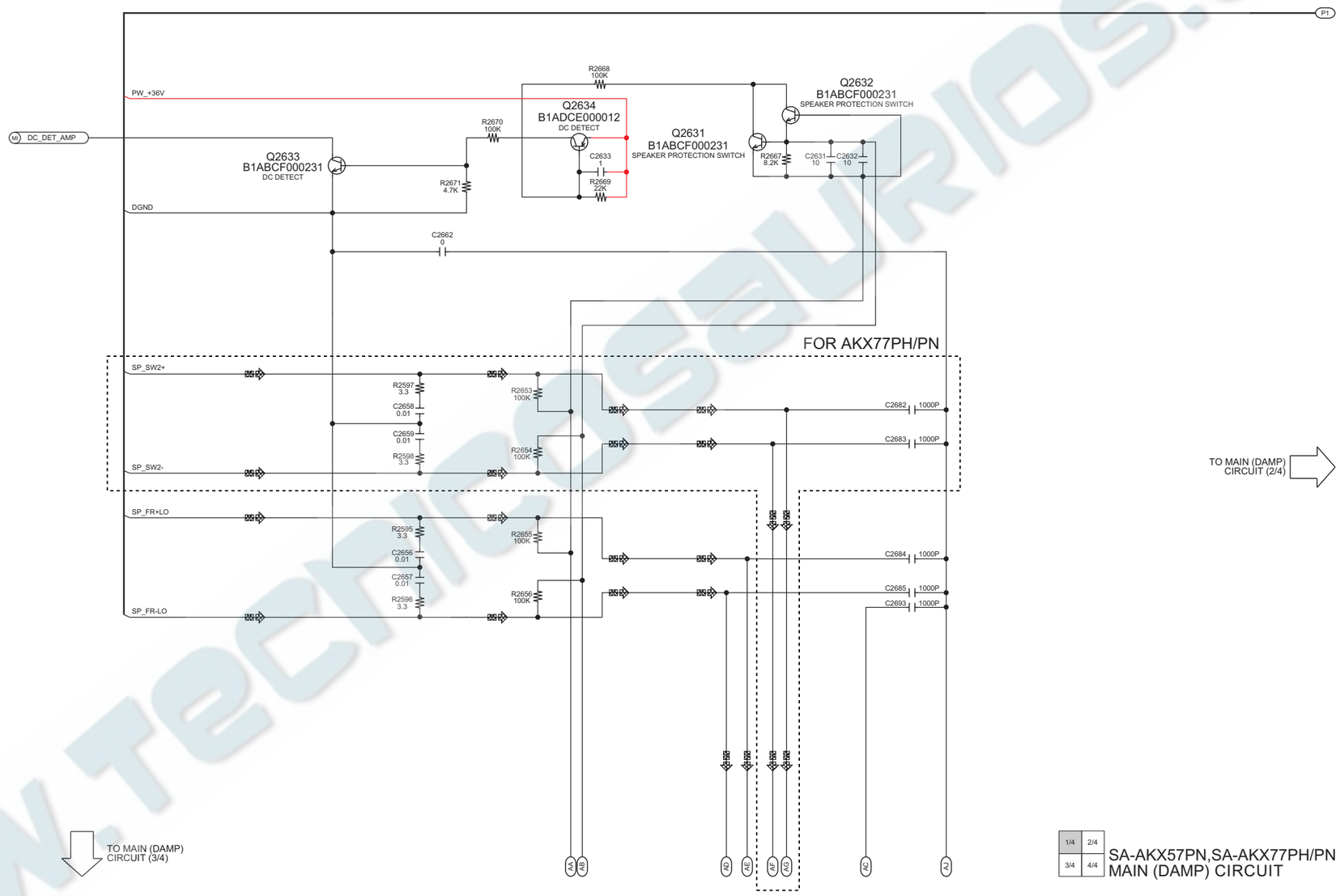
SA-AKX57PN,SA-AKX77PH/PN MAIN (MICON) CIRCUIT

14.4. MAIN (Damp) Circuit

SCHEMATIC DIAGRAM - 11

A MAIN (DAMP) CIRCUIT

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



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10

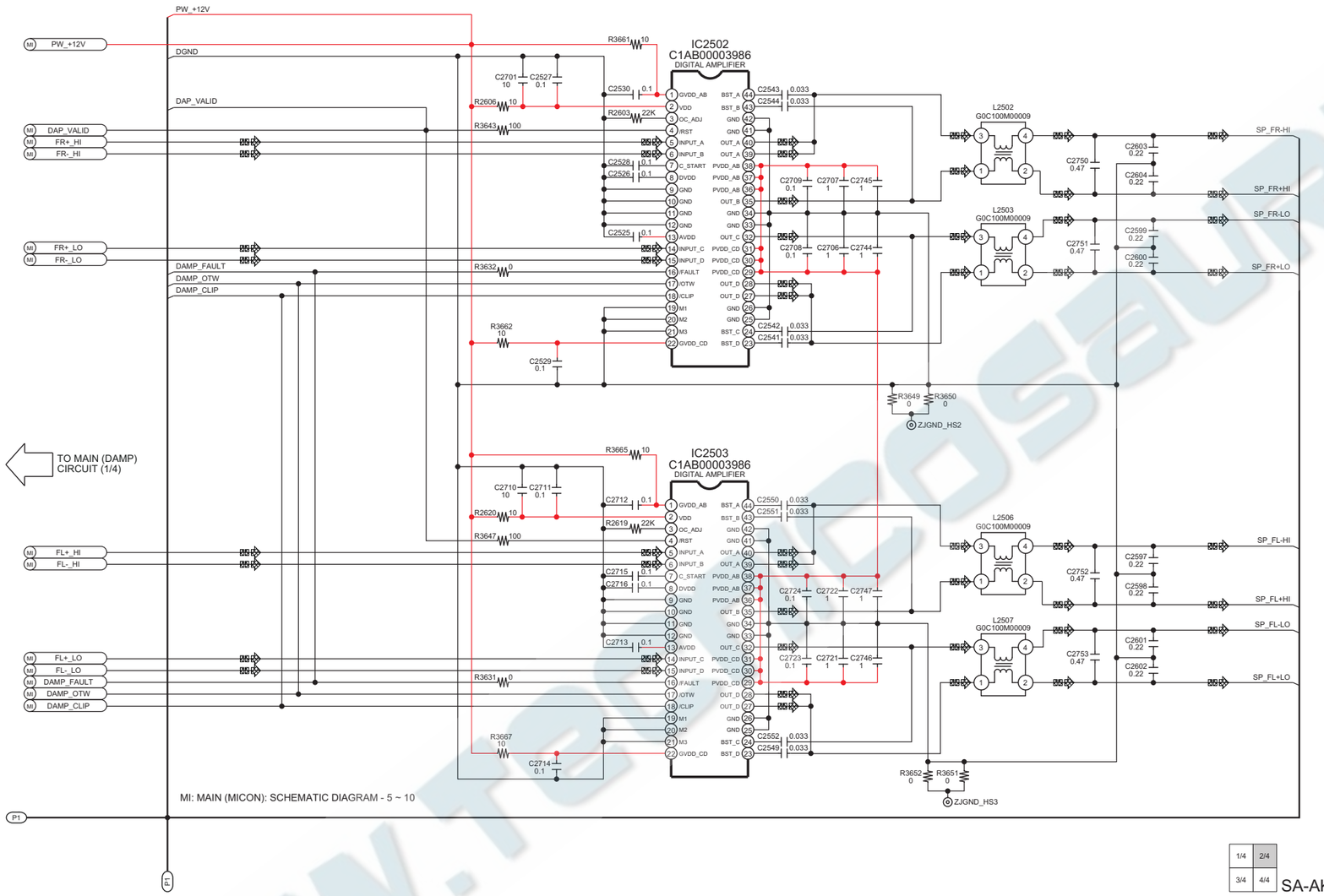
1/4	2/4
3/4	4/4

SA-AKX57PN,SA-AKX77PH/PN
MAIN (DAMP) CIRCUIT

SCHEMATIC DIAGRAM - 12

A MAIN (DAMP) CIRCUIT

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



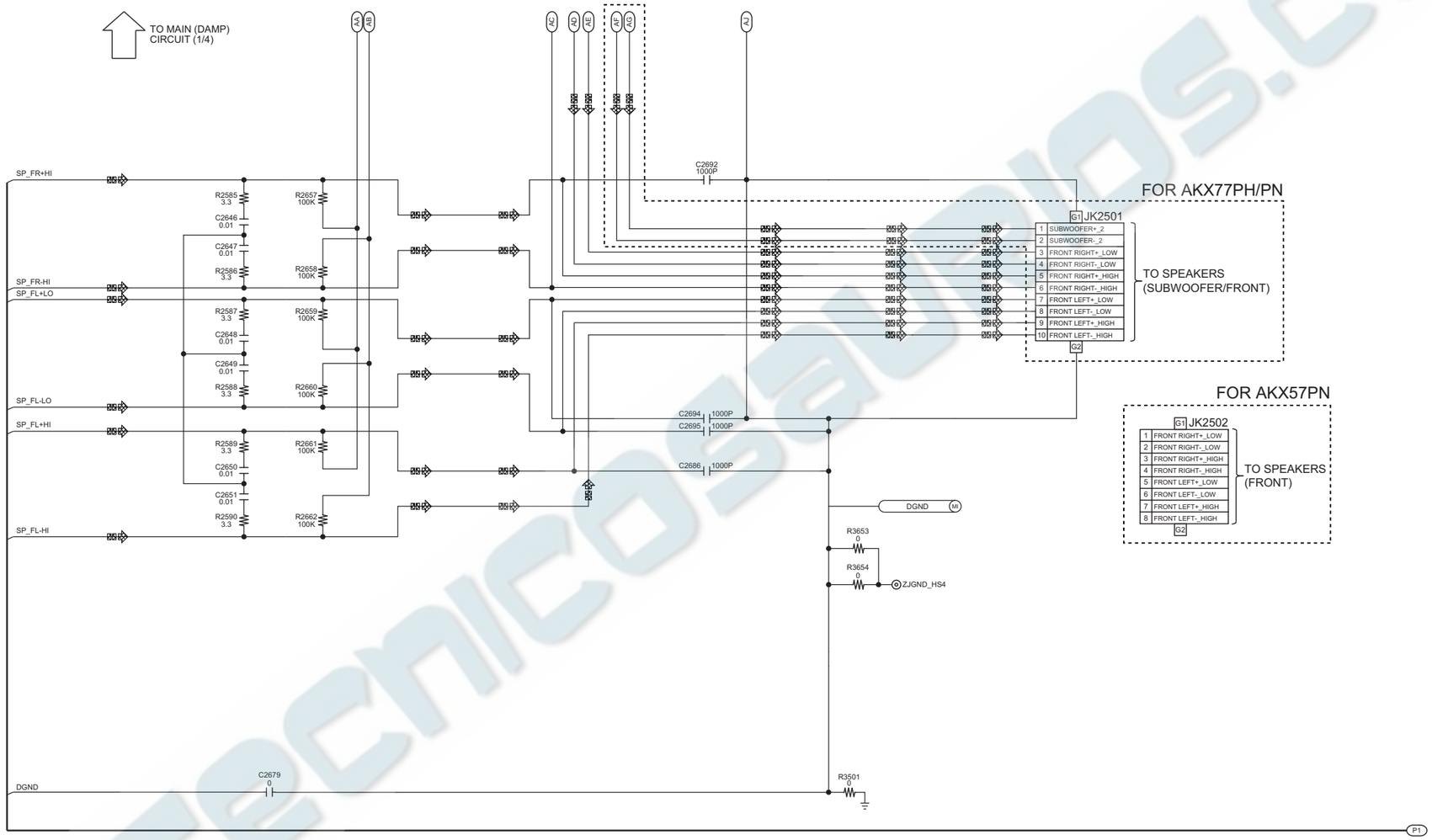
1/4	2/4
3/4	4/4

SA-AKX57PN,SA-AKX77PH/PN MAIN (DAMP) CIRCUIT

SCHEMATIC DIAGRAM - 13

A MAIN (DAMP) CIRCUIT

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



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 5 ~ 10

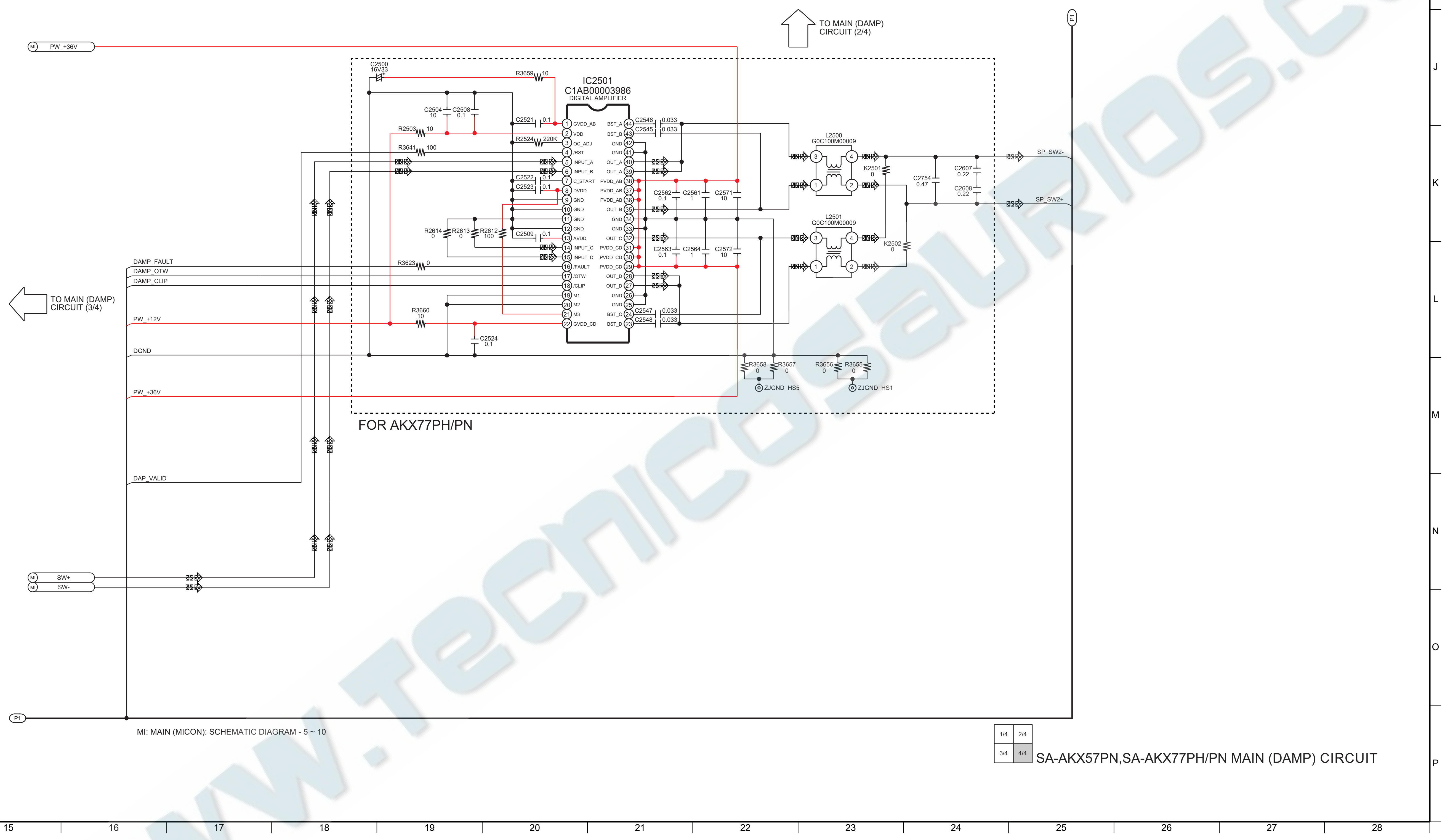
1/4	2/4
3/4	4/4

SA-AKX57PN,SA-AKX77PH/PN MAIN (DAMP) CIRCUIT

SCHEMATIC DIAGRAM - 14

A MAIN (DAMP) CIRCUIT

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



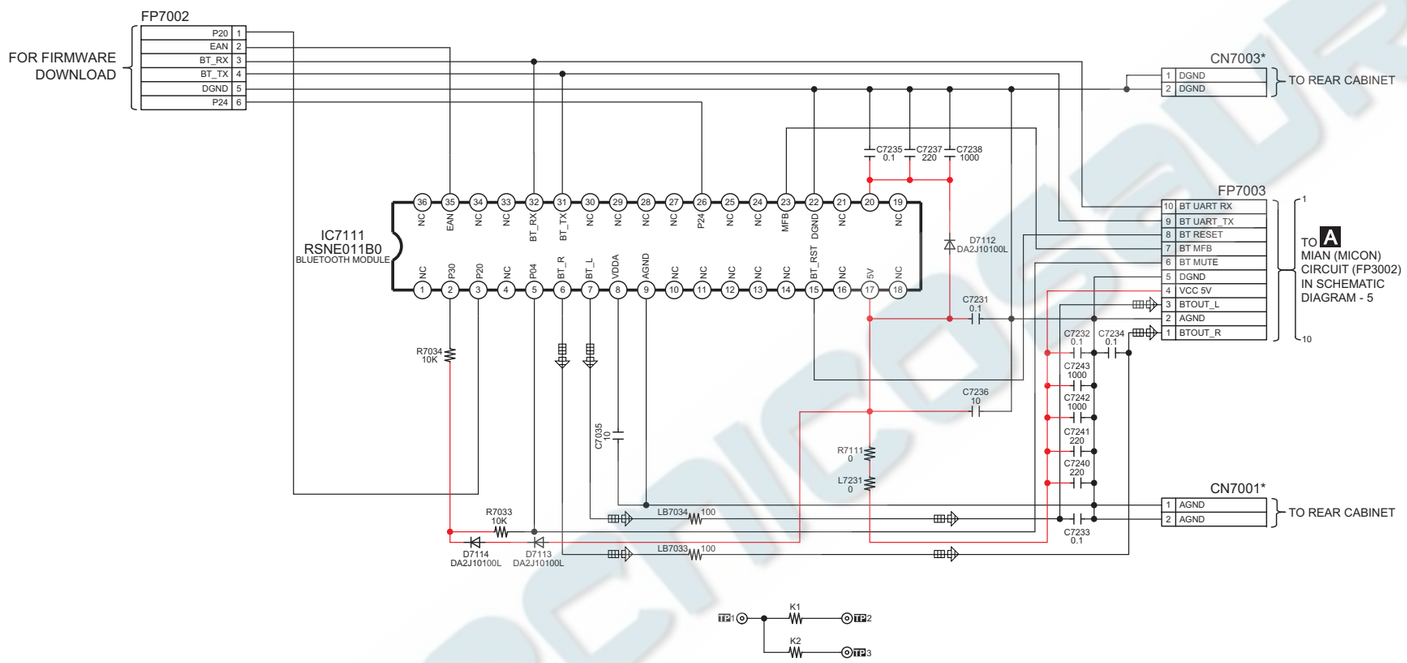
SA-AKX57PN,SA-AKX77PH/PN MAIN (DAMP) CIRCUIT

14.5. Bluetooth Circuit

SCHEMATIC DIAGRAM - 15

B BLUETOOTH CIRCUIT

—— : +B SIGNAL LINE : TUNER/MUSIC PORT/AUX/MIC/BLUETOOTH AUDIO INPUT SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

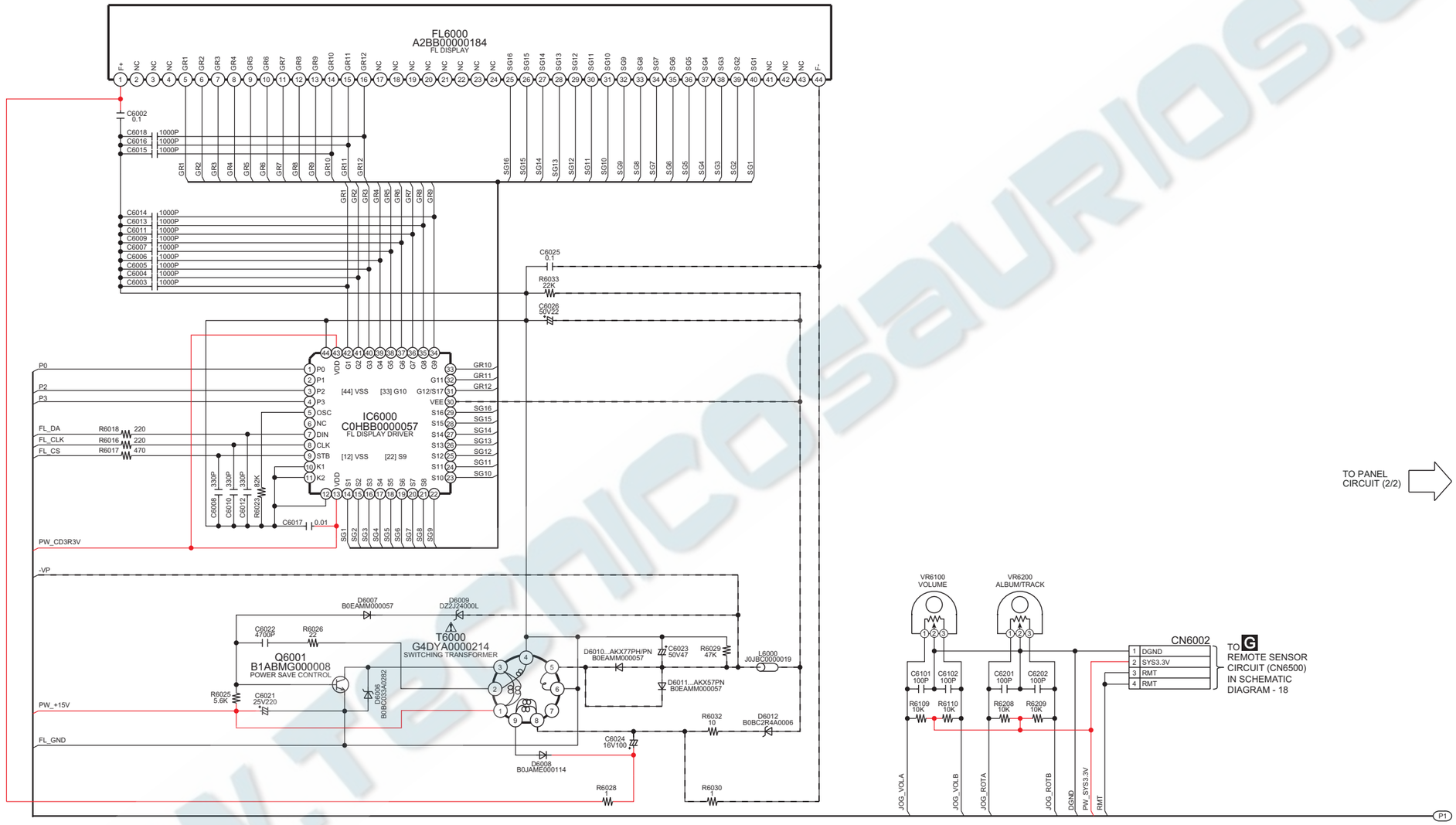
SA-AKX57PN,SA-AKX77PH/PN BLUETOOTH CIRCUIT

14.6. Panel Circuit

SCHEMATIC DIAGRAM - 16

C PANEL CIRCUIT

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



1/2 2/2 SA-AKX57PN,SA-AKX77PH/PN PANEL CIRCUIT

SCHEMATIC DIAGRAM - 17

C PANEL CIRCUIT

—— : +B SIGNAL LINE —•— : -B SIGNAL LINE ⇉ : MUSIC PORT AUDIO INPUT SIGNAL LINE

FOR AKX77PH/PN

Q6000 B1BABG000007 LED DRIVE
R6125 0
R6003 180
R6005 180
R6000 2.7K
R6001 47
R6012 330
R6004 680
R6002 100
QR6000 B1GBCFJJ0051 LED DRIVE

P1
P3
P2
P0

TO F MEMORY LED CIRCUIT (ZJ6700*) IN SCHEMATIC DIAGRAM - 18

CN6003
LED_CA 1
LED_AN 2
R6114 180

BLUE_LED
RED_LED
GREEN_LED
LED_DIMMER
PW_+5V

R6021 0
R6124...AKX57PN 0
D6101 B3AEA0000172
D6102 B3AAA0001129
D6103 B3ABA0000905

QR6005 B1GBCFJJ0051 LED DRIVE
QR6004 B1GBCFJJ0051 LED DRIVE
QR6003 B1GBCFJJ0051 LED DRIVE

R6113 470...AKX57PN 220...AKX77PH/PN
R6107 270...AKX57PN 150...AKX77PH/PN
R6120 820...AKX57PN 390...AKX77PH/PN

R6112 820...AKX57PN 390...AKX77PH/PN
R6105 270...AKX57PN 150...AKX77PH/PN
R6122 820...AKX57PN 390...AKX77PH/PN

D6104 B3ABA0000905
D6105 B3AAA0001129
D6106 B3AEA0000172

TO PANEL CIRCUIT (1/2)

QR6008 B1GBCFJJ0051 LED DRIVE

R6011 0
R6019 0

CN6001

BLUE_LED	1	SUBW_LED
GREEN_LED	2	BLUE_LED
RED_LED	3	GREEN_LED
-VP	4	RED_LED
FL_GND	5	+12V
PW_+15V	6	VP_DET
MPORT_R	7	FL_GND
MPORT_GND	8	+15V
MPORT_L	9	MPORT_R
MPORT_SW	10	MPORT_GND
JOG_ROTA	11	MPORT_L
JOG_ROTB	12	MPORT_SW
JOG_VOLA	13	JOG_ROTA
JOG_VOLB	14	JOG_ROTB
FL_DA	15	JOG_VOLA
FL_CS	16	JOG_VOLB
FL_CLK	17	NC
RMT	18	NC
KEY1	19	FL_DOUT
KEY2	20	FL_CS
KEY3	21	FL_CLK
DGND	22	RMT
PW_SYS3R3V	23	KEY1
LED_DIMMER	24	KEY2
PW_CD3R3V	25	KEY3
PW_+5V	26	DGND
	27	SYS3.3V
	28	LED_DIMMER
	29	CD3.3V
	30	+5V

TO A MAIN (MICON) CIRCUIT (CN2004) IN SCHEMATIC DIAGRAM - 6

ZJ6000*

MPORT_SW	1	MPORT_SW
MPORT_L	2	MPORT_L
MPORT_GND	3	MPORT_GND
MPORT_R	4	MPORT_R
	5	NC

TO E MUSIC PORT CIRCUIT (ZJ6300*) IN SCHEMATIC DIAGRAM - 18

DGND
PW_SYS3.3V
KEY2
KEY3
KEY1

R6013 10K
R6111 10K
R6211 10K

R6006 1.2K
R6007 1.5K
R6008 2.2K
R6009 3.3K
R6010 4.7K

S6003 MEMORY 1
S6000 MEMORY 2
S6001 MEMORY 3
S6002 MEMORY 4
S6004 MEMORY 5
S6006 MEMORY 6

R6100 1.2K
R6101 1.5K
R6102 2.2K
R6103 3.3K
R6104 4.7K

S6103 ALBUM/TRACK
S6104 BLUETOOTH/ MEMORY
S6100 USB/CD
S6101 RADIO/EXT-IN
S6012 STOP/TUNE MODE
S6105 PLAY/PAUSE

R6200 1.2K
R6201 1.5K
R6202 2.2K
R6203 3.3K
R6206 4.7K
R6207 6.8K
R6204 15K
R6210 47K

S6203 POWER
S6107 CD OPEN/CLOSE
S6200 LATIN PRESET EQ
S6202 MANUAL EQ
S6206 D.BASS/ SUPER WOOFER
S6207 USB REC/ PAUSE
S6201 REWIND
S6208 FORWARD
S6204 MEMORY REC/ PAUSE

D6108...AKX57PN B0EAMM000057
D6107...AKX77PH/PN B0EAMM000057
CK6002
CK6001
CK6004

NOTE: " * " REF IS FOR INDICATION ONLY

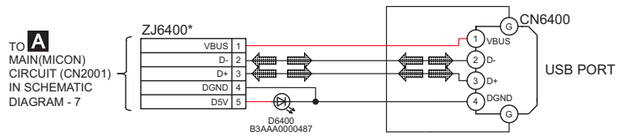
1/2 2/2 SA-AKX57PN,SA-AKX77PH/PN PANEL CIRCUIT

14.7. USB, Music Port, Memory LED & Remote Sensor Circuit

SCHEMATIC DIAGRAM - 18

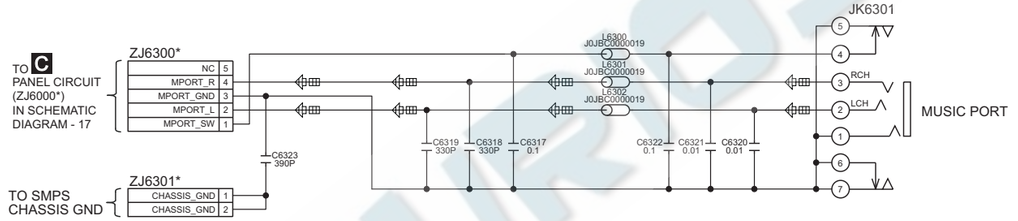
D USB CIRCUIT

—— : +B SIGNAL LINE : USB SIGNAL LINE



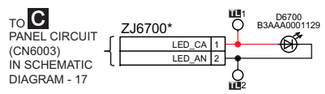
E MUSIC PORT CIRCUIT

: MUSIC PORT AUDIO INPUT SIGNAL LINE



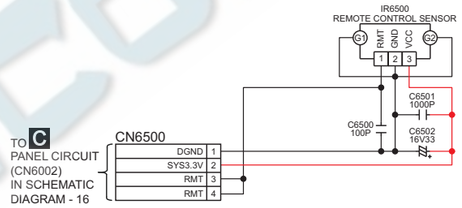
F MEMORY LED CIRCUIT

—— : +B SIGNAL LINE



G REMOTE SENSOR CIRCUIT

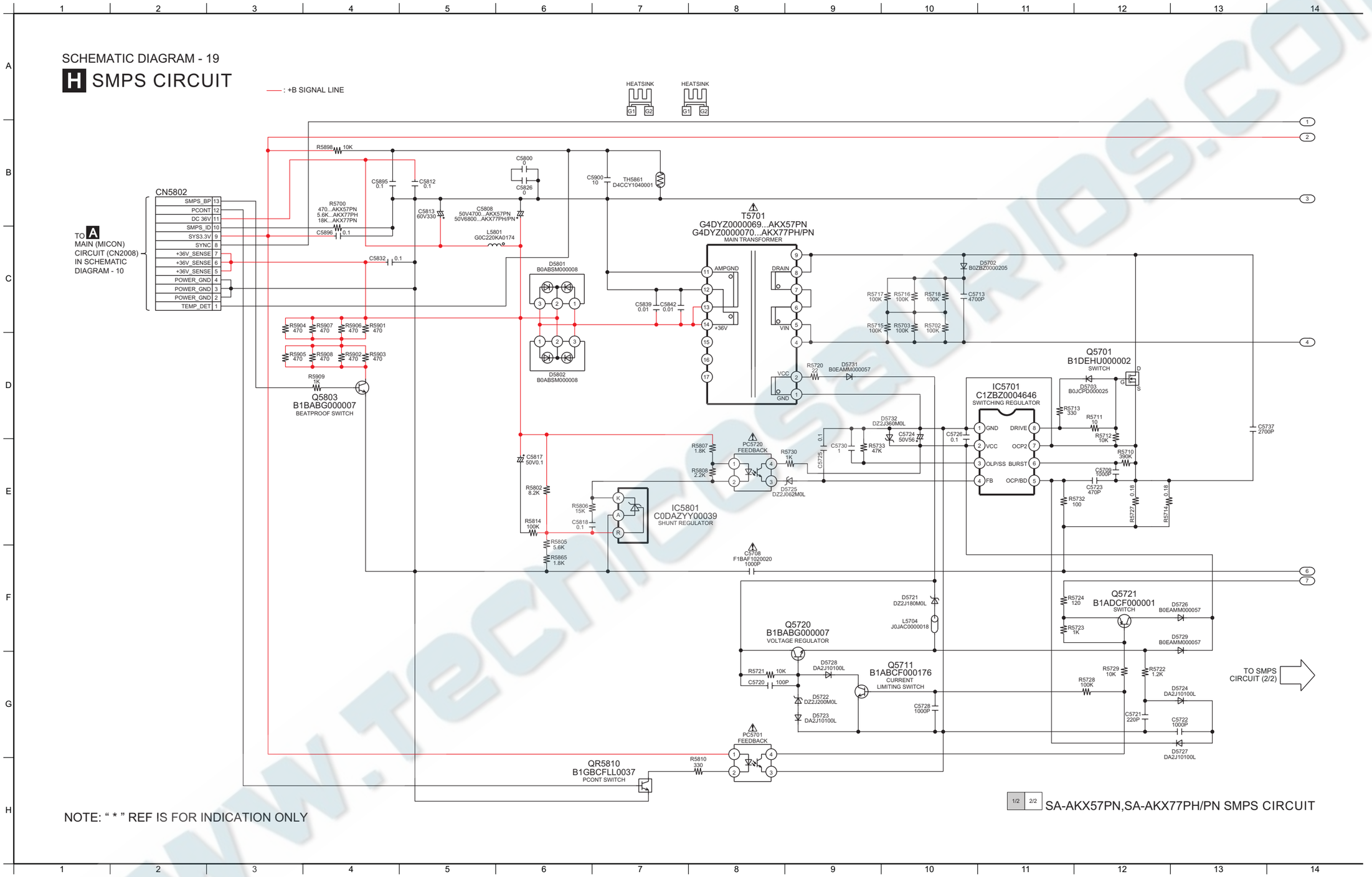
—— : +B SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN USB / MUSIC PORT / MEMORY LED / REMOTE SENSOR CIRCUIT

14.8. SMPS Circuit



SCHEMATIC DIAGRAM - 20

H SMPS CIRCUIT

—— : +B SIGNAL LINE

AC IN
110-127V/220-240V 50/60Hz...PH
120V 60Hz...PN

P5701

F1
T8AL 250V...PH
T8A 125V...PN
ZA5701 ZA5702

R5708
1M...AKX77PN
1.5M...AKX57PN,AKX77PH

DZ5701
D4EAY511A127

R5709
1.5M...AKX57PN,AKX77PH
1M...AKX77PN

C5701
F0CAF104A015
0.1

L5701
G0B932H00002

C5702
0.22...AKX77PN
0.1...AKX77PH

L5702
G0B932H00002

C5703
0.22...AKX77PN
0.1...AKX77PH

C5705
F1BAF471A013
470P

C5704
F1BAF471A013
470P

C5707
F1BAF471A013
470P

C5706
F1BAF471A013
470P

K2
0

K3...AKX57PN
0

K7...AKX77PH
0

K8...AKX77PN
0

TP1

D5701
B0FBBV000006

C5711
250V560

VA5700
J0LY00000168

C5712
250V560

VA5701
J0LY00000168

FOR PH

FOR PH
TL5711* (BLK)
(RED) TL5712*
TO I VOLTAGE SELECTOR CIRCUIT IN SCHEMATIC DIAGRAM - 21

PC5702
SYNC

Q5898
B1ABCF000176
SYNC SWITCH

R5897
100

R5896
100K

C5897
0.01

R5706
820K

D5730
B0ECET000006

R5704
220K

R5705
220K

PC5799
FEEDBACK

R5894
150

R5890
2.2K

T5751
G4DYZ0000064...AKX57PN
SUB TRANSFORMER

T5751
G4DYZ0000065...AKX77PH/PN
SUB TRANSFORMER

IC5899
C0DAZYY00039
SHUNT REGULATOR

TO SMPS CIRCUIT (1/2)

R5895
15K

C5898
0.1

R5893
10K

R5892
1K

R5891
33K

C5899
10V220

D5896
B0EAMM000057

R5798
22

D5798
B0EAMM000057

C5798
25V220

R5786...AKX77PH
200K

C5790
2200P

D5793
B0HAMP000094

IC5790
MIP2F20MSSCF
SWITCHING MODE POWER SUPPLY CONTROL

D5795
DZZJ091M0L

C5794
1000P

R5795
470K

R5797
15K

C5796
0.1

C5795
1

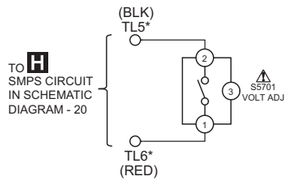
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-AKX57PN,SA-AKX77PH/PN SMPS CIRCUIT

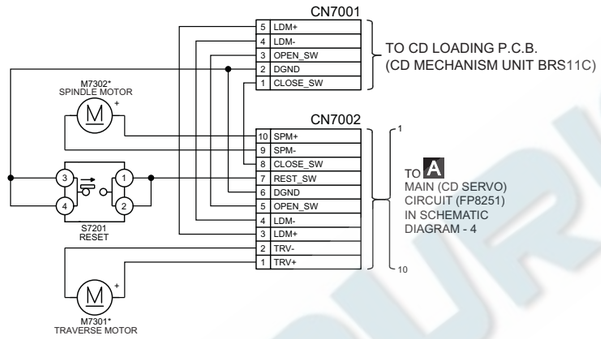
14.9. Voltage Selector & CD Interface Circuit

SCHEMATIC DIAGRAM - 21

I VOLTAGE SELECTOR CIRCUIT (FOR AKX77PH)



J CD INTERFACE CIRCUIT



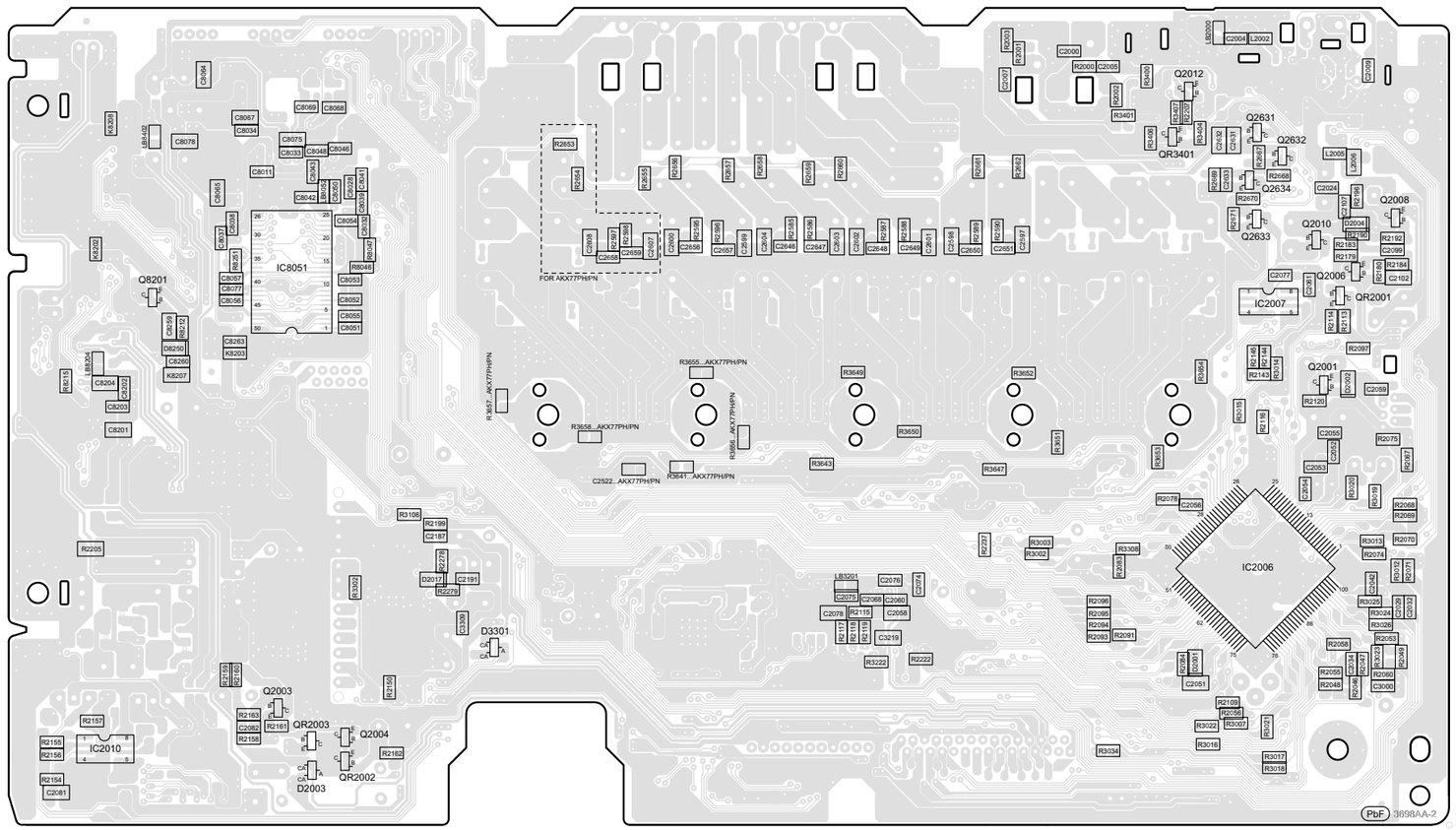
NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN VOLTAGE SELECTOR/CD INTERFACE CIRCUIT

15 Printed Circuit Board

15.1. Main P.C.B.

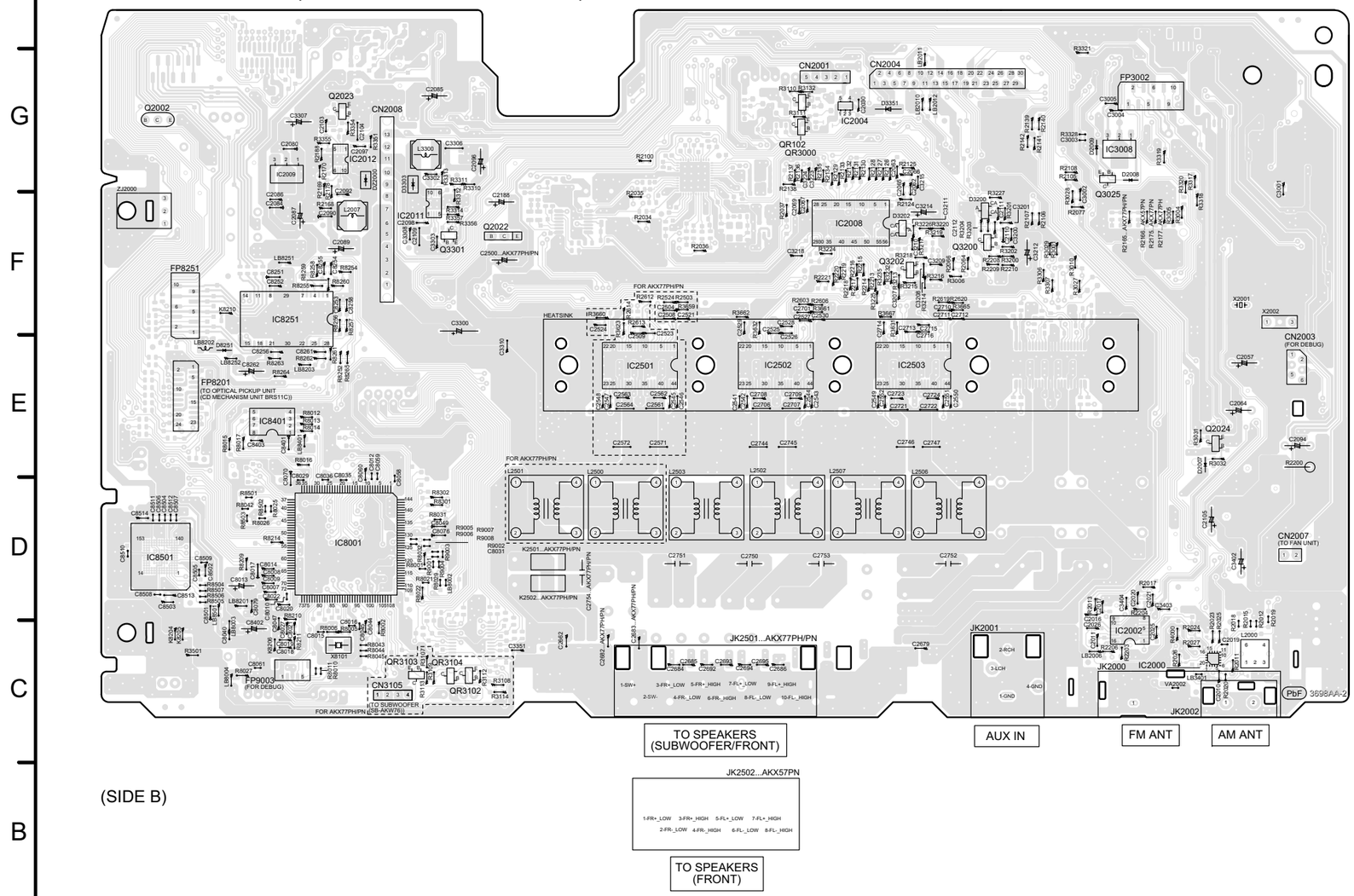
A MAIN P.C.B. (REP4995DA...AKX77PH)
(REP4995CA...AKX77PN)
(REP4995EA...AKX57PN)



(SIDE A)

SA-AKX57PN,SA-AKX77PH/PN
MAIN P.C.B.

A MAIN P.C.B. (REP4995DA...AKX77PH)
(REP4995CA...AKX77PN)
(REP4995EA...AKX57PN)



TO SPEAKERS
(SUBWOOFER/FRONT)

AUX IN

FM ANT

AM ANT

JK2502...AKX57PN

1-FR+_LOW 3-FR+_HIGH 5-FL+_LOW 7-FL+_HIGH
2-FR-_LOW 4-FR-_HIGH 6-FL-_LOW 8-FL-_HIGH

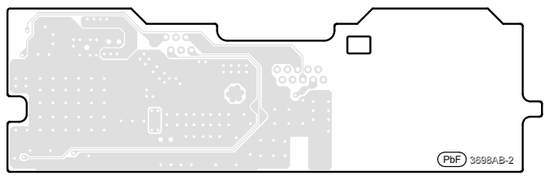
TO SPEAKERS
(FRONT)

(SIDE B)

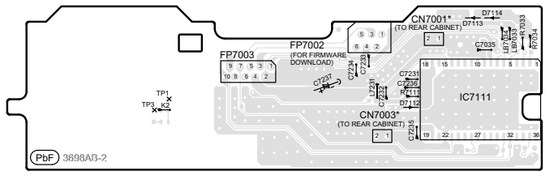
SA-AKX57PN,SA-AKX77PH/PN
MAIN P.C.B.

15.2. Bluetooth, Remote Sensor & CD Interface P.C.B.

B BLUETOOTH P.C.B. (REP4995DB...AKX77PH)
(REP4995CB...AKX77PN)
(REP4995EB...AKX57PN)

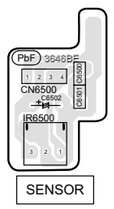


(SIDE A)

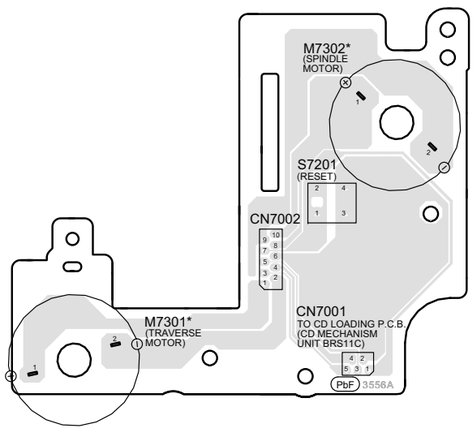


(SIDE B)

G REMOTE SENSOR P.C.B. (REP4884AE...AKX77PH/PN)
(REP4884BE...AKX57PN)



J CD INTERFACE P.C.B. (REP4945A)

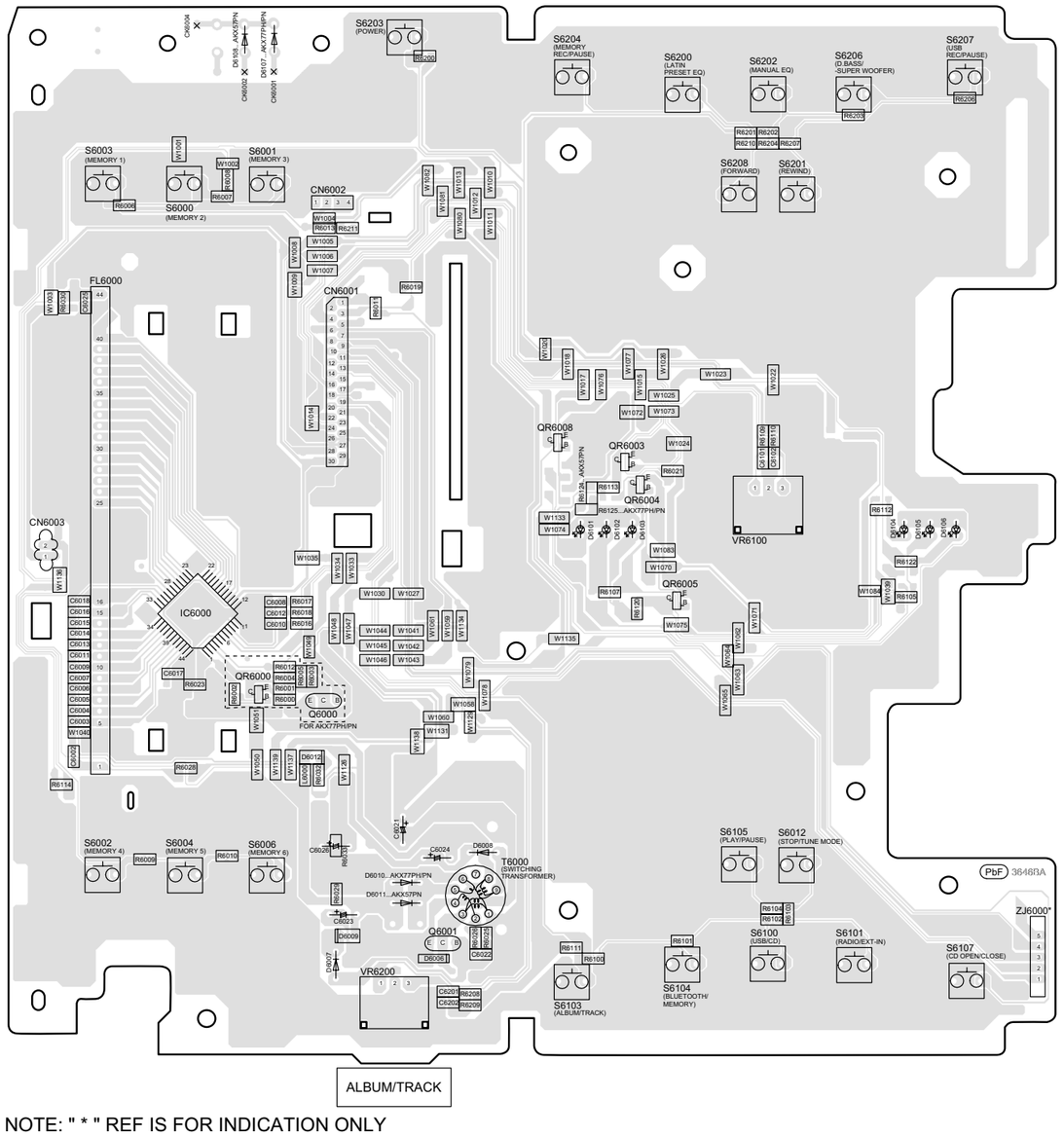


NOTE: " * " REF IS FOR INDICATION ONLY.

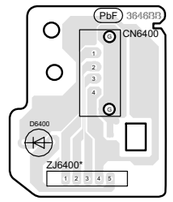
SA-AKX57PN,SA-AKX77PH/PN
BLUETOOTH / REMOTE SENSOR / CD INTERFACE P.C.B.

15.3. Panel, USB, Music Port & Memory LED P.C.B.

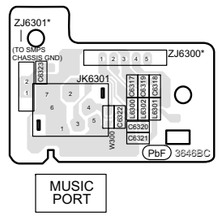
C PANEL P.C.B. (REP4884AA...AKX77PH/PN) (REP4884BA...AKX57PN)



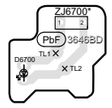
D USB P.C.B. (REP4884AB...AKX77PH/PN) (REP4884BB...AKX57PN)



E MUSIC PORT P.C.B. (REP4884AA...AKX77PH/PN) (REP4884BA...AKX57PN)



F MEMORY LED P.C.B. (REP4884AA...AKX77PH/PN) (REP4884BA...AKX57PN)

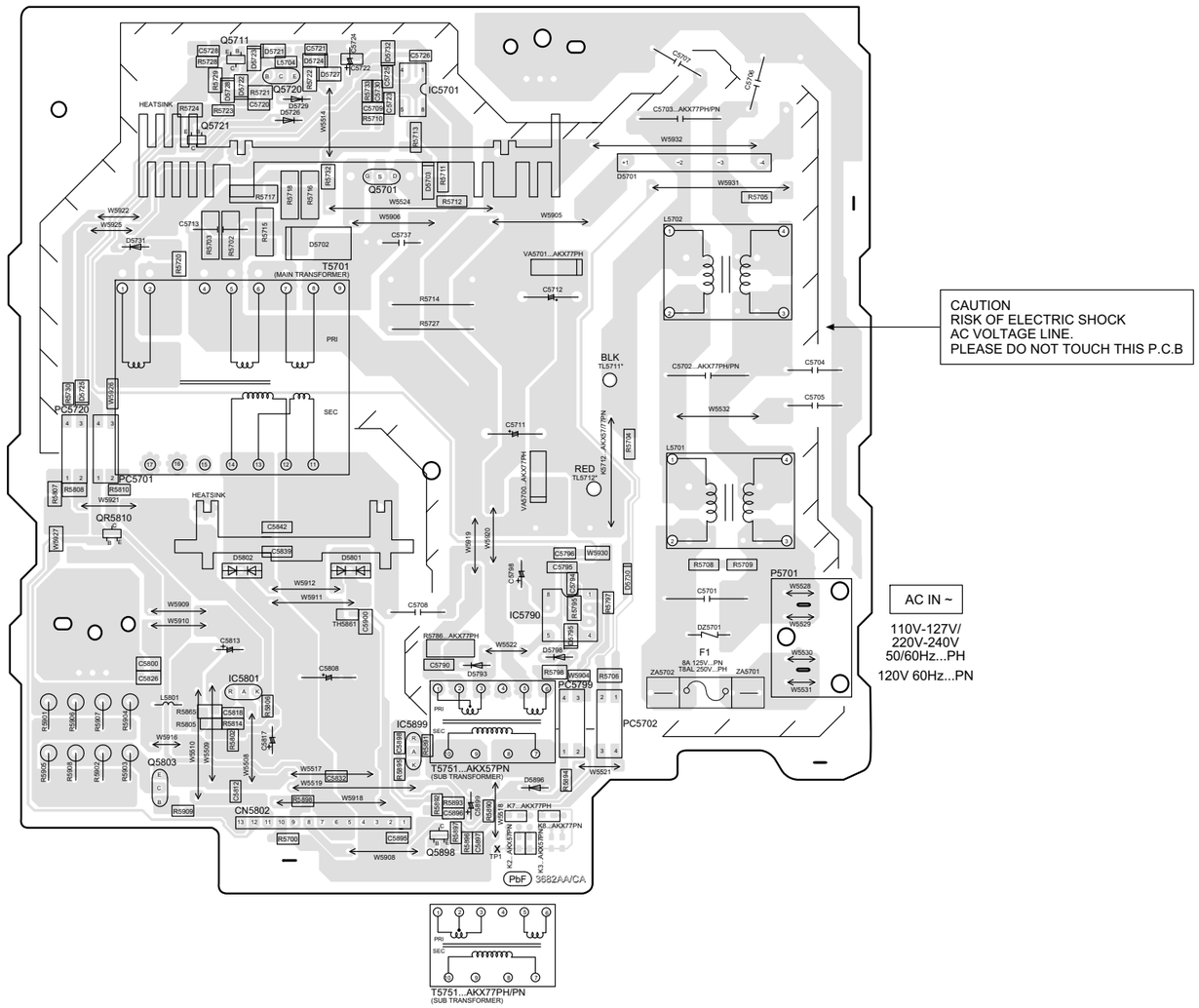


NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN
PANEL / USB / MUSIC PORT / MEMORY LED P.C.B.

15.4. SMPS & Voltage Selector P.C.B.

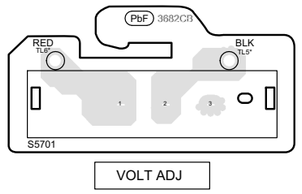
H SMPS P.C.B. (REP4965G...AKX77PH)
(REP4965H...AKX77PN)
(REP4965J...AKX57PN)



CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

AC IN ~
110V-127V/
220V-240V
50/60Hz...PH
120V 60Hz...PN

I VOLTAGE SELECTOR P.C.B. (REP4965G...AKX77PH)



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX57PN,SA-AKX77PH/PN
SMPS / VOLTAGE SELECTOR P.C.B.

16 Appendix Information of Schematic Diagram

16.1. Voltage Chart

Note:

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

16.1.1. Main P.C.B. (1/6)

REF NO.	IC2000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TUNER	0	1.5	0	3.0	3.3	0	3.0	3.3	0	3.3	3.3	0	1.4	0.3	2.8	2.8	3.3	0	0	0

REF NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
AUX IN	2.8	0	3.0	0	2.0	0	0	0	0	3.0	0	2.8	3.0	2.0	0	12.0				
STANDBY	2.8	0	3.0	0	2.0	0	0	0	0	3.0	0	2.8	3.0	2.0	0	12.0				

REF NO.	IC2004																			
MODE	1	2	3	4	5															
POWER ON	3.3	0	3.3	5.1	5.1															
STANDBY	3.3	0	3.3	5.1	5.1															

REF NO.	IC2006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	1.3	0.7	1.0	0	0.8	0	0	3.3	3.3	0	0	1.6	1.5	0	1.3	1.7	3.3	1.8	3.3	3.3
STANDBY	1.3	0.7	1.0	0	0.8	0	0	3.3	3.3	0	0	1.6	1.5	0	1.3	1.7	3.3	1.8	3.3	3.3

REF NO.	IC2006																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	3.3	0	0	4.8	3.3	3.3	0	3.3	3.3	1.8	0	0	5.0	3.3	3.3	3.3	1.8	3.3	0	3.3
STANDBY	3.3	0	0	4.8	3.3	3.3	0	3.3	3.3	1.8	0	0	5.0	3.3	3.3	3.3	1.8	3.3	0	3.3

REF NO.	IC2006																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
POWER ON	3.3	3.3	3.3	0	0	3.3	3.3	3.3	0	3.3	0	0	3.3	3.2	0	0	3.3	3.3	3.3	3.3
STANDBY	3.3	3.3	3.3	0	0	3.3	3.3	3.3	0	3.3	0	0	3.3	3.2	0	0	3.3	3.3	3.3	3.3

REF NO.	IC2006																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
POWER ON	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3
STANDBY	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3

REF NO.	IC2006																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
POWER ON	3.3	3.3	3.3	3.3	0	3.3	0	1.6	3.3	3.3	0	0.4	0.6	3.3	1.7	0	2.6	3.3	3.0	3.3
STANDBY	3.3	3.3	3.3	3.3	0	3.3	0	1.6	3.3	3.3	0	0.4	0.6	3.3	1.7	0	2.6	3.3	3.0	3.3

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

REF NO.	IC2008																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0.6	1.1	1.8	3.3	0	1.6	1.0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
STANDBY	0	0	0	0	0	0.7	1.1	1.8	3.3	0	1.6	1.0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

16.1.2. Main P.C.B. (2/6)

REF NO.	IC2008																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	1.7	1.6	0.8	0	0	1.2	1.8	1.2	1.6	1.6	0	0	3.3	3.3	0	3.3	1.6	1.6	1.6
STANDBY	3.3	1.7	1.6	0.8	0	0	1.2	1.8	1.2	1.6	1.6	0	0	3.3	3.3	0	3.3	1.6	1.6	1.6

REF NO.	IC2008																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	1.6	1.6	1.6	1.6	1.6	1.6	0	1.6	1.6	3.3	0	1.8	0	1.6	0	1.4				
STANDBY	1.6	1.6	1.6	1.6	1.6	1.6	0	1.6	1.6	3.3	0	1.8	0	1.6	0	1.4				

REF NO.	IC2009																			
MODE	1	2	3																	
POWER ON	0	3.3	5.4																	
STANDBY	0	3.3	5.4																	

REF NO.	IC2010																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	8.5	1.6	1.6	0	1.6	1.6	8.8	15.3												
STANDBY	8.5	1.6	1.6	0	1.6	1.6	8.8	15.3												

REF NO.	IC2011																			
MODE	1	2	3	4	5	6	7	8	9	10										
POWER ON	18.7	37.4	5.0	2.0	0.5	0	0.8	0.9	0	12.6										
STANDBY	18.7	37.4	4.5	2.2	0.5	0	0.8	0.8	0	12.6										

REF NO.	IC2012																			
MODE	1	2	3	4	5	6	7	8	9	10										
POWER ON	11.0	35.5	0	2.1	0.5	0	0	0	0	5.4										
STANDBY	11.0	35.5	0	2.1	0.5	0	0	0	0	5.4										

REF NO.	IC2502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0
STANDBY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0

REF NO.	IC2502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.1	0	0	18.1	37.4	37.4	37.4	18.1	18.1
STANDBY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.0	0	0	18.1	37.4	37.4	37.4	18.1	18.1

REF NO.	IC2502																			
MODE	41	42	43	44																
CD PLAY	0	0	29.0	29.0																
STANDBY	0	0	29.0	29.0																

REF NO.	IC2503																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0
STANDBY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

16.1.3. Main P.C.B. (3/6)

REF NO.	IC2503																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.1	0	0	18.1	37.4	37.4	37.4	18.1	18.1
STANDBY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.1	0	0	18.1	37.4	37.4	37.4	18.1	18.1

REF NO.	IC2503																			
MODE	41	42	43	44																
CD PLAY	0	0	29.0	29.0																
STANDBY	0	0	29.0	29.0																

REF NO.	IC3008																			
MODE	1	2	3																	
POWER ON	0	5.0	5.4																	
STANDBY	0	5.0	5.4																	

REF NO.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.2	1.3	1.1	1.2	1.2	1.3	3.2	1.2	0	3.2	3.2	3.2	0	0	0	0	0	3.2	0	0
STANDBY	3.2	1.3	1.1	1.2	1.2	1.3	3.2	1.2	0	3.2	3.2	3.2	0	0	0	0	0	3.2	0	0

REF NO.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	3.2	3.2	1.3	3.2	3.2	3.2	3.2	3.2	0.6	3.0	3.2	0	1.2	1.2	1.2	0.8
STANDBY	0	0	0	0	3.2	3.2	1.3	3.2	3.2	3.2	3.2	3.2	0.6	3.0	3.2	0	1.2	1.2	1.2	0.8

REF NO.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
POWER ON	0	0	0.8	0.8	3.2	0	1.2	1.7	1.7	1.5	0	1.5	1.6	3.3	1.6	1.6	1.9	0	1.7	1.7
STANDBY	0	0	0.8	0.8	3.2	0	1.2	1.7	1.7	1.5	0	1.5	1.6	3.3	1.6	1.6	1.9	0	1.7	1.7

REF NO.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.7	3.2	0	3.3	3.2	3.2	0.8	1.0	0	1.0	1.2	1.6	1.6	1.4	1.4	0.4	0	3.3	3.3	0
STANDBY	1.7	3.2	0	3.3	3.2	3.2	0.8	1.0	0	1.0	1.2	1.6	1.6	1.4	1.4	0.4	0	3.3	3.3	0

REF NO.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	0	1.2	3.3	1.2	1.2	0	3.3	0	0	0	1.6	3.2	0	0	0
STANDBY	0	0	0	0	0	0	1.2	3.3	1.2	1.2	0	3.3	0	0	0	1.6	3.2	0	0	0

REF NO.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	1.2	0	3.2	3.1	3.0	3.2	3.1	3.1	0	0	0	3.2	3.1	3.0	1.6	1.4	0.8	1.0	3.2	3.2
STANDBY	1.2	0	3.2	3.1	3.0	3.2	3.1	3.1	0	0	0	3.2	3.1	3.0	1.6	1.4	0.8	1.0	3.2	3.2

REF NO.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.2	0	3.0	3.2	3.0	0	0	3.2	3.0	0	3.2	0	0	3.2	0	1.6	1.6	1.6	0	0
STANDBY	1.2	0	3.0	3.2	3.0	0	0	3.2	3.0	0	3.2	0	0	3.2	0	1.6	1.6	1.6	0	0

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

16.1.4. Main P.C.B. (4/6)

REF NO.	IC8001																			
MODE	141	142	143	144																
CD PLAY	0	1.0	1.1	1.1																
STANDBY	0	1.0	1.1	1.1																

REF NO.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0	1.3	0	0.6	1.2	3.3	1.4	1.3	0	1.4	0.8	3.3	3.2	3.3	3.2	3.2	0	0	0
STANDBY	3.3	0	0	0	0	0	3.3	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	0	0	0

REF NO.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	1.8	1.8	1.6	3.3	0	1.7	1.7	1.7	1.7	3.3	3.3	0	3.3	1.4	3.3	0	3.3	0.5	0.6
STANDBY	0	0	3.3	0	3.3	0	3.3	3.3	0	3.3	3.3	3.3	0	3.3	1.4	3.3	0	3.3	0	0

REF NO.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50										
CD PLAY	0	0	0.6	3.3	1.3	0.6	0	0.6	1.3	0										
STANDBY	0	0	0	3.3	0	0	0	0	0	0										

REF NO.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	0	0	0	0	3.3	3.3	5.6	0	0	2.9	2.9	2.7	3.0	2.8	2.9	2.3	3.3	5.6	0
STANDBY	1.7	0	0	0	0	3.3	3.3	5.6	0	0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	5.6	0

REF NO.	IC8251																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	1.5	0	1.5	0	0	1.7	1.7	3.3												
STANDBY	1.5	0	1.7	0	0	1.7	1.7	3.3												

REF NO.	IC8401																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.6	2.4	3.3	0	3.2	0.9	3.3	3.3												
STANDBY	2.3	2.8	3.3	0	3.2	0.5	3.3	3.3												

REF NO.	IC8501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	1.0	1.2	1.2	1.2	0	0	3.3	0	0	0	0	0	0	0	1.2	0	0	0	0
STANDBY	0	1.0	1.2	1.2	1.2	0	0	3.3	0	0	0	0	0	0	0	1.2	0	0	0	0

REF NO.	IC8501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	3.3	0	0	0	0	0	0	0	0	0	0	0	3.3	3.3	3.3	0	0	0	0
STANDBY	0	3.3	0	0	0	0	0	0	0	0	0	0	0	3.3	3.3	3.3	0	0	0	0

REF NO.	IC8501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

16.1.5. Main P.C.B. (5/6)

REF NO.	IC8501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	3.3	3.3	3.3	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	3.3	3.3	3.3	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC8501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	0	0	0	3.3	0	0
STANDBY	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	0	0	0	3.3	0	0

REF NO.	IC8501																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	3.3	0	0	0	0	3.3	3.3	3.3	0	0	0	0	0	0	3.3	3.3	3.3	0	0	0
STANDBY	3.3	0	0	0	0	3.3	3.3	3.3	0	0	0	0	0	0	3.3	3.3	3.3	0	0	0

REF NO.	IC8501																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	0	3.3	0	0	0	0	0	3.3	3.3	0	0	0	0	0	0	3.3	0	0	0	0
STANDBY	0	3.3	0	0	0	0	0	3.3	3.3	0	0	0	0	0	0	3.3	0	0	0	0

REF NO.	IC8501																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153							
CD PLAY	0	3.3	0	3.3	0	0	0	0	0	3.3	0	0	0							
STANDBY	0	3.3	0	3.3	0	0	0	0	0	3.3	0	0	0							

REF NO.	Q2001				Q2002				Q2003				Q2004				Q2006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	3.3	0		7.8	15.3	8.4		15.3	0	15.3		0	3.3	0		0	11.6	1.0	
STANDBY	0	3.3	0		7.8	15.3	8.4		15.4	0	15.3		0	3.3	0		0	11.6	1.0	

REF NO.	Q2008				Q2010				Q2012				Q2022				Q2024			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	0	11.6		0	3.3	0		0	12.2	0.8		12.3	15.4	12.9		0	1.8	30.0	
STANDBY	0	0	11.6		0	3.2	0		0	12.2	0.8		12.3	15.4	12.9		0	1.8	30.0	

REF NO.	Q2631				Q2632				Q2633				Q2634				Q3301			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	18.1	37.4	18.1		18.1	37.4	18.1		0	3.3	0		37.4	0	37.3		0	0.5	0	
STANDBY	18.1	37.4	18.1		18.1	37.4	18.1		0	3.3	0		37.4	0	37.3		0	0.5	0	

REF NO.	QR2001				QR2002				QR2003											
MODE	E	C	B		E	C	B		E	C	B									
POWER ON	0	0	3.3		0	3.3	0		0	3.3	0									
STANDBY	0	0	3.3		0	3.3	0		0	3.3	0									

REF NO.	Q2023				Q3025				Q3200				Q3202				Q8201			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0.6	0		3.3	3.0	3.3		0	12.0	1.0		0	12.0	1.2		3.1	2.1	2.4	
STANDBY	0	0.6	0		3.3	3.0	3.3		0	12.0	1.0		0	12.0	1.2		3.3	0	3.3	

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

16.1.6. Main P.C.B. (6/6)

REF NO.	QR102				QR3000				QR3401											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	5.1	0	5.4		0	5.3	0		0	0	1.2									
STANDBY	5.1	0	5.4		0	5.3	0		0	0	1.2									

SA-AKX57PN,SA-AKX77PH/PN MAIN P.C.B.

REF NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0
STANDBY	11.7	11.7	1.2	3.3	1.6	1.6	3.1	3.3	0	0	0	0	7.8	1.6	1.6	1.6	3.3	3.3	0	0

REF NO.	IC2501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.1	0	0	18.1	37.4	37.4	37.4	18.1	18.1
STANDBY	3.3	11.8	29.0	29.0	0	0	18.1	18.1	37.4	37.4	37.4	18.0	0	0	18.1	37.4	37.4	37.4	18.1	18.1

REF NO.	IC2501																			
MODE	41	42	43	44																
CD PLAY	0	0	29.0	29.0																
STANDBY	0	0	29.0	29.0																

REF NO.	QR3102				QR3103				QR3104											
MODE	E	C	B		E	C	B		E	C	B									
POWER ON	0	3.3	3.3		0	3.3	3.3		0	3.3	3.0									
STANDBY	0	3.3	3.3		0	3.3	3.3		0	3.3	3.0									

SA-AKX77PH/PN MAIN P.C.B.

16.1.7. Panel P.C.B.

REF NO.	IC6000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	1.9	0	0	0	0.7	0	0	0	3.3	-16.1	-14.1	-21.5	-21.5	-19.7	-21.5	-17.8
STANDBY	0	0	0	0	1.9	0	0	0	0.7	0	0	0	3.3	-16.1	-14.1	-21.5	-21.5	-19.7	-21.5	-17.8

REF NO.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-19.5	-21.5	-23.4	-21.5	-15.9	-19.6	-17.8	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5
STANDBY	-19.5	-21.5	-23.4	-21.5	-15.9	-19.6	-17.8	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5

REF NO.	IC6000																			
MODE	41	42	43	44																
CD PLAY	-21.6	-21.9	3.3	0																
STANDBY	-21.6	-21.9	3.3	0																

REF NO.	Q6001				QR6003				QR6004				QR6005				QR6008			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	15.1	0		0	3.3	3.3		0	0	3.3		0	0	5.0		0	1.2	1.0	
STANDBY	0	15.1	0		0	3.3	3.3		0	0	3.3		0	0	5.0		0	1.2	1.0	

SA-AKX57PN,SA-AKX77PH/PN PANEL P.C.B.

REF NO.	Q6000				QR6000															
MODE	E	C	B		E	C	B													
CD PLAY	0	5.0	0		0	5.0	0													
STANDBY	0	5.0	0		0	5.0	0													

SA-AKX77PH/PN PANEL P.C.B.

16.1.8. SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	0	28.0	0	1.4	3.1	3.1	0	8.0												
STANDBY	0	28.0	0	1.4	3.1	3.1	0	8.0												

REF NO.	IC5790																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	5.9	1.0	2.3	11.0	160.2	0	0	0												
STANDBY	5.9	1.0	2.3	11.0	160.2	0	0	0												

REF NO.	IC5801																			
MODE	K	A	R																	
POWER ON	32.0	0	2.5																	
STANDBY	32.0	0	2.5																	

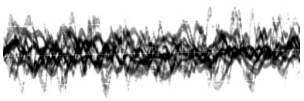
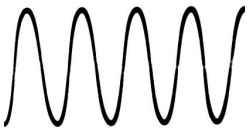
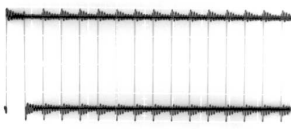
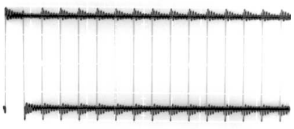
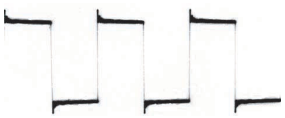
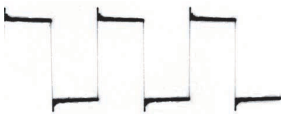
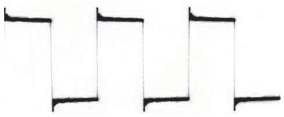
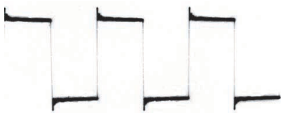
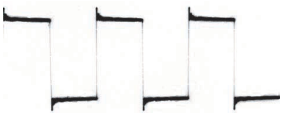
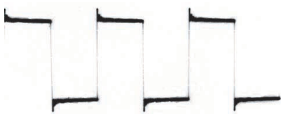
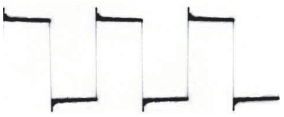
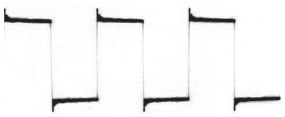
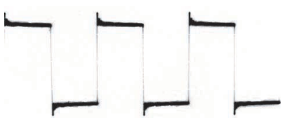
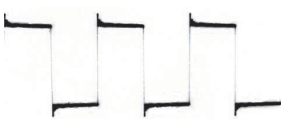
REF NO.	IC5899																			
MODE	K	A	R																	
POWER ON	32.0	0	2.5																	
STANDBY	32.0	0	2.5																	

REF NO.	Q5701				Q5711				Q5720				Q5721				Q5803			
MODE	S	D	G		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	3.1	8.0		0	0	2.0		28.0	28.0	0		0	28.0	2.0		0	32.0	0.5	
STANDBY	0	3.1	8.0		0	0	2.0		28.0	28.0	0		0	28.0	2.0		0	32.0	0.5	

REF NO.	Q5898				QR5810															
MODE	E	C	B		E	C	B													
POWER ON	0	2.0	2.8		0	0	3.0													
STANDBY	0	2.0	2.8		0	0	3.0													

SA-AKX57PN,SA-AKX77PH/PN SMPS P.C.B.

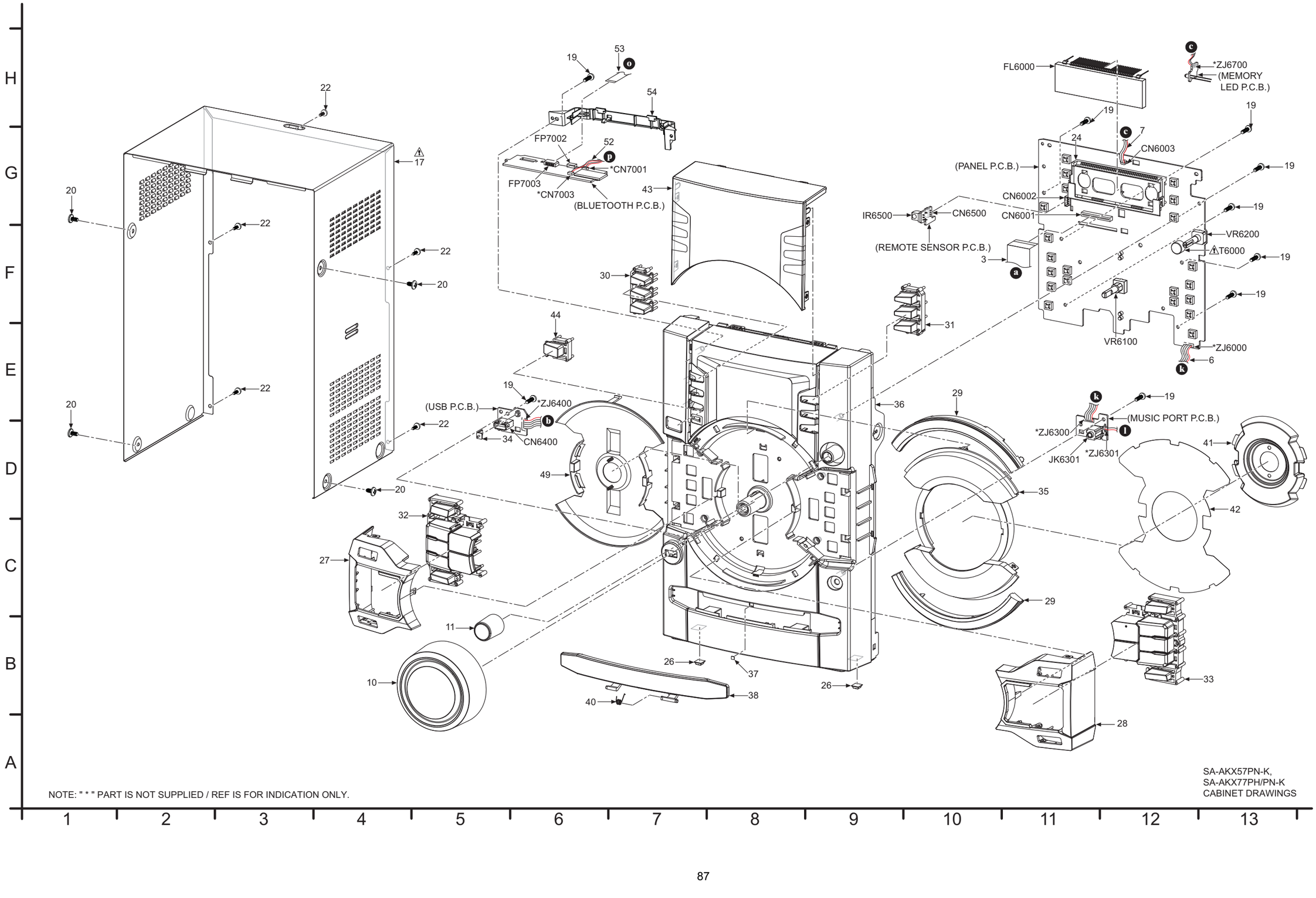
16.1.9. Waveform Table

WF No. IC2000-2,4,13 (TUNER)  0.1Vp-p(200usec/div)	WF No. IC2006-12 (PLAY)  3.8Vp-p(50nsec/div)	WF No. IC2006-13 (PLAY)  4Vp-p(50nsec/div)	WF No. IC2006-15 (PLAY)  2Vp-p(10usec/div)
WF No. IC2006-16 (PLAY)  3.8Vp-p(10usec/div)	WF No. IC2008-24 (PLAY)  1.8Vp-p(50usec/div)	WF No. IC2008-27 (PLAY)  3.2Vp-p(1usec/div)	WF No. IC2008-38,39,40,41,42, 43,44,45,46,48, 49 (PLAY)  5.2Vp-p(1usec/div)
WF No. IC2501-5,6,14,15 (PLAY)  1.6Vp-p(1usec/div)	WF No. IC2501-27,28,32,35 (PLAY)  28Vp-p(500nsec/div)	WF No. IC2501-39,40 (PLAY)  28Vp-p(1usec/div)	WF No. IC2502-5,6,14,15 (PLAY)  1.6Vp-p(1usec/div)
WF No. IC2502-27,28,32,35 (PLAY)  28Vp-p(500nsec/div)	WF No. IC2502-39,40 (PLAY)  28Vp-p(1usec/div)	WF No. IC2503-5,6,14,15 (PLAY)  1.6Vp-p(1usec/div)	WF No. IC2503-27,28,32,35 (PLAY)  28Vp-p(500nsec/div)
WF No. IC2503-39,40 (PLAY)  28Vp-p(1usec/div)	WF No. IC6000-5 (PLAY)  1.5Vp-p(2usec/div)		

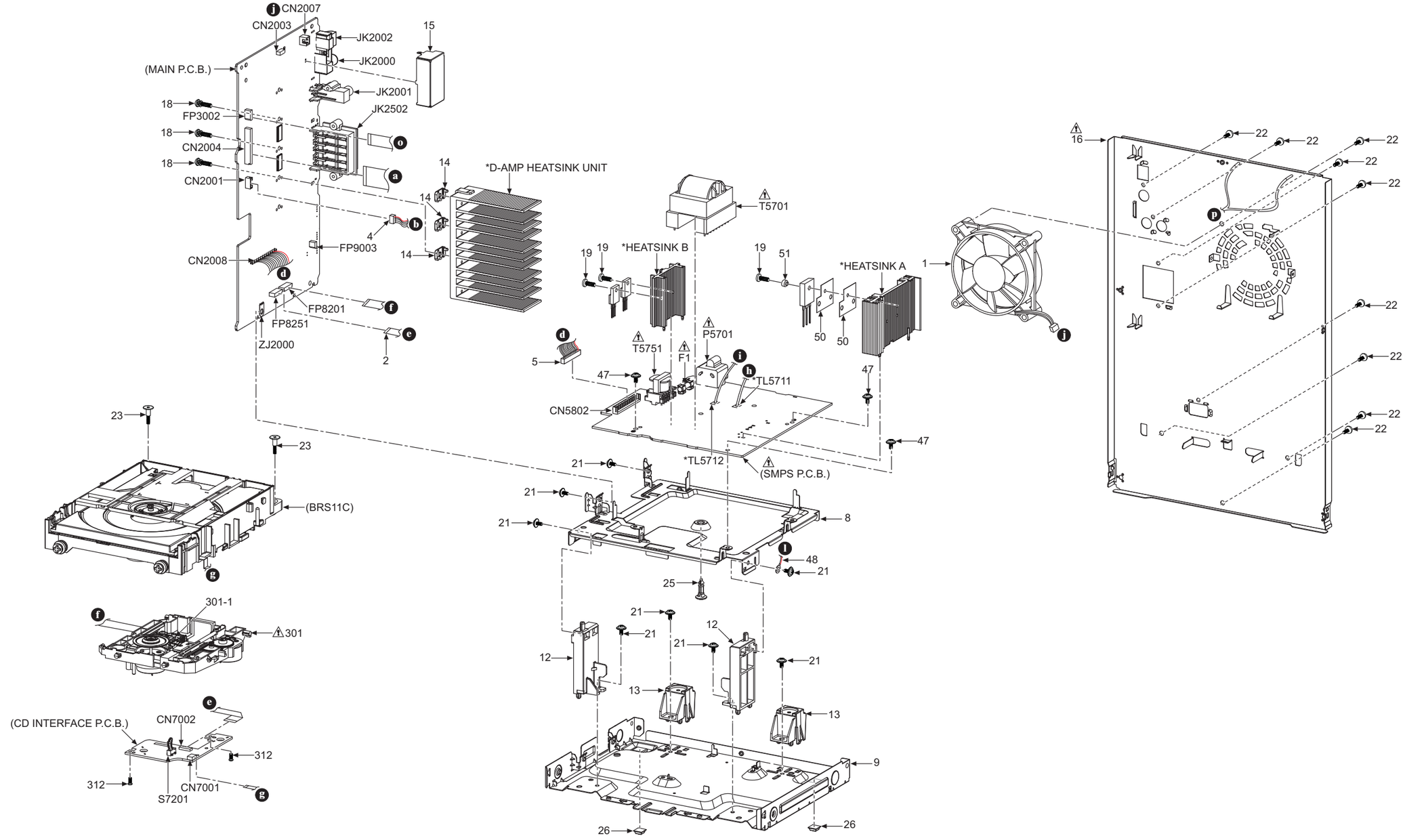
17 Exploded View and Replacement Parts List

17.1. Exploded View and Mechanical Replacement Part List

17.1.1. Cabinet Parts Location

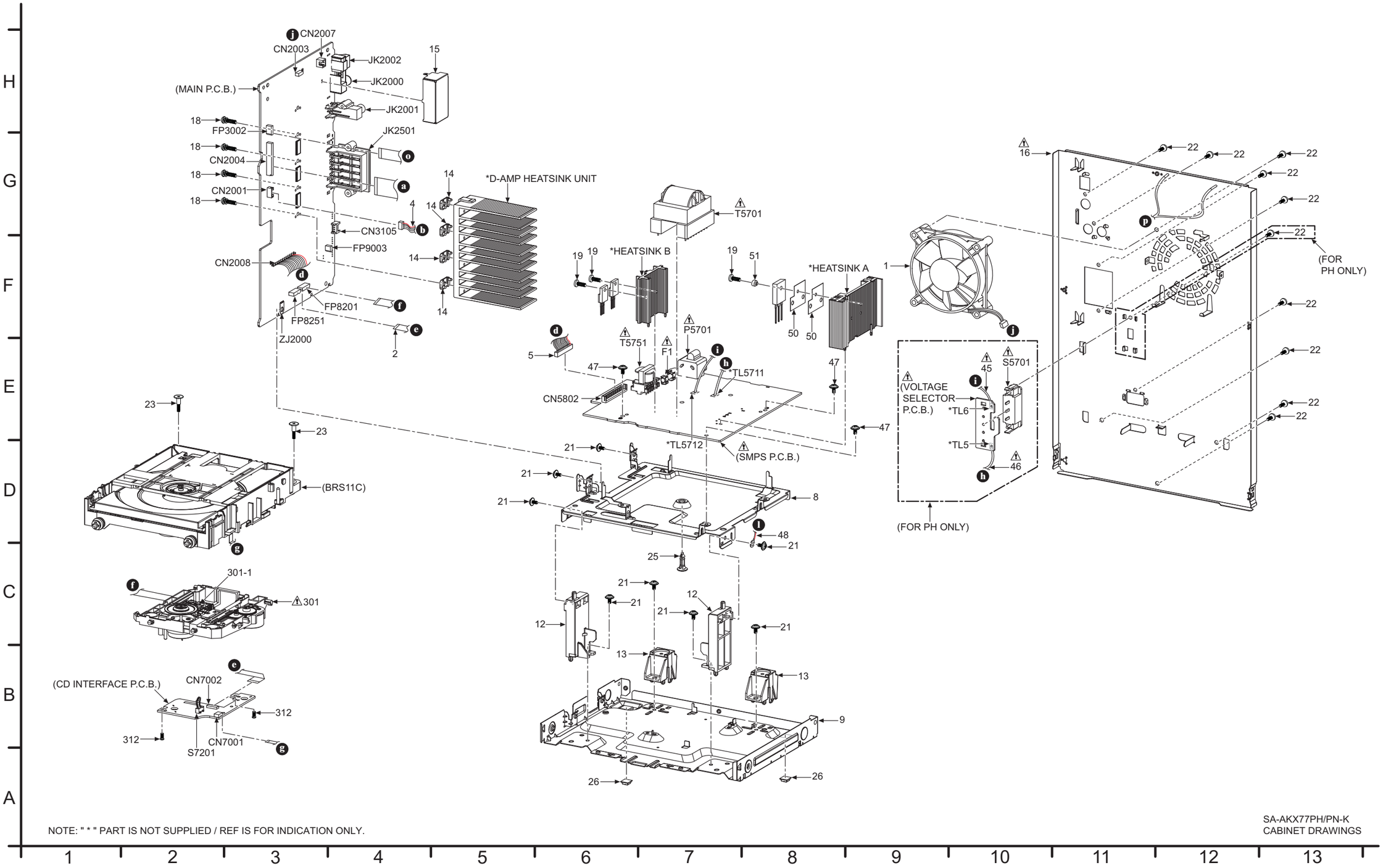


NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.



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

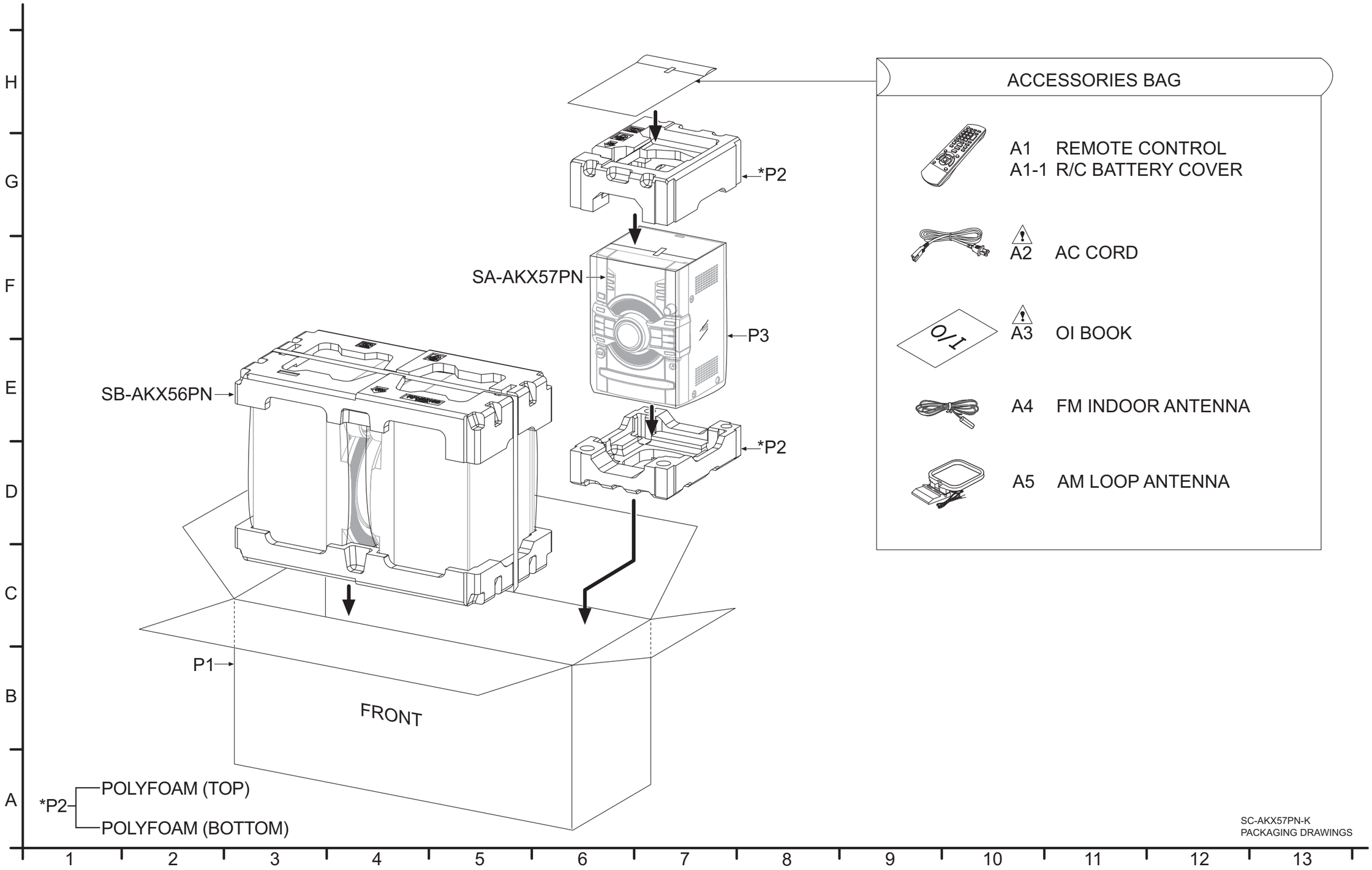
SA-AKX57PN-K
CABINET DRAWINGS



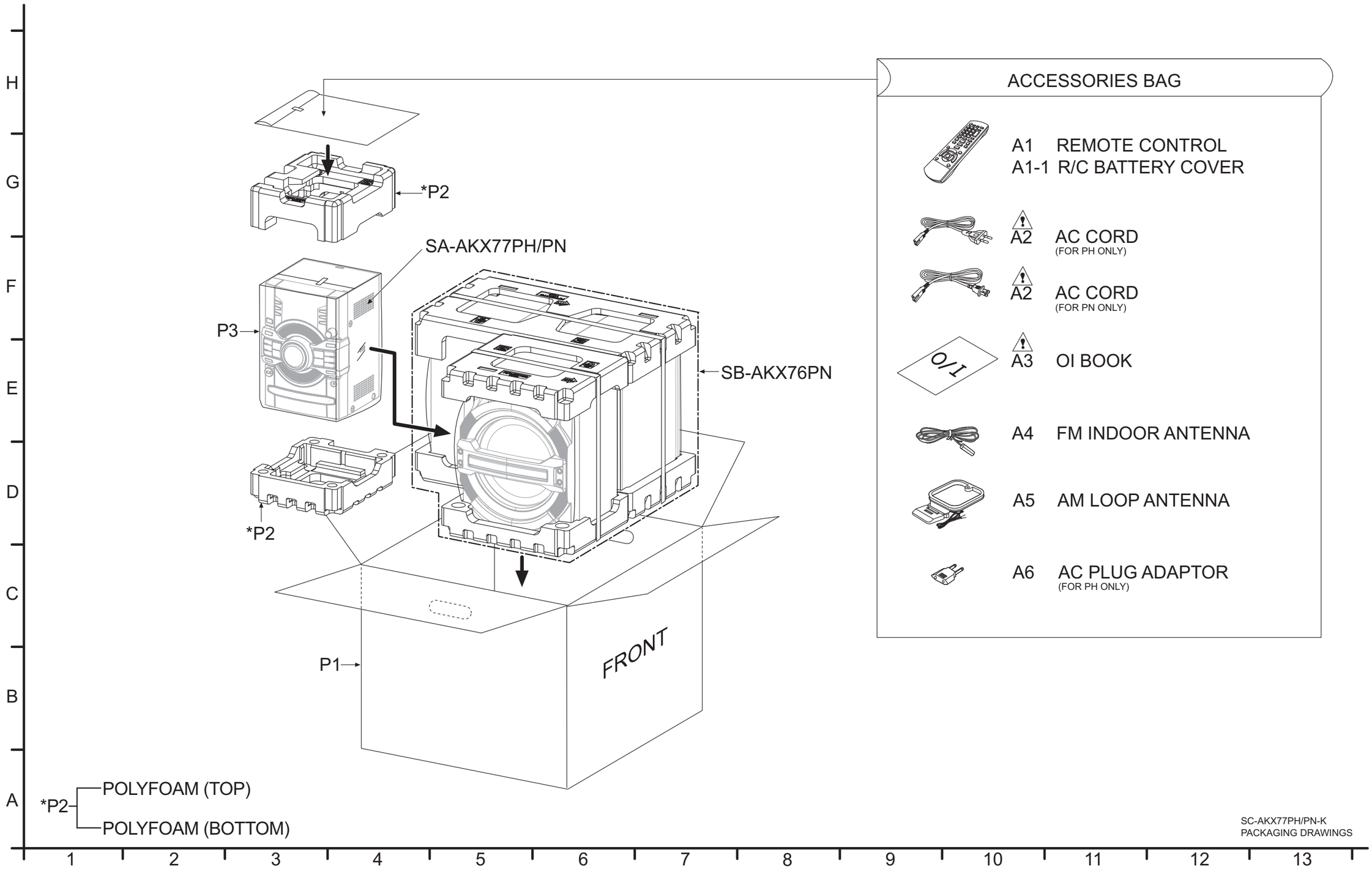
NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SA-AKX77PH/PN-K
CABINET DRAWINGS

17.1.2. Packaging (SC-AKX57PN)



17.1.3. Packaging (SC-AKX77PN/PH)



17.1.4. 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	L6FALEFH0030	FAN UNIT ASS'Y	1	
	2	REE1730	10P FFC (MAIN-CD INTERFACE)	1	
	3	REE1761	30P FFC (MAIN-PANEL)	1	
	4	REX1589	5P CABLE WIRE (USB-MAIN)	1	
	5	REX1562-1	13P CABLE WIRE (SMPS-MAIN)	1	
	6	REX1587	5P CABLE WIRE (MUSIC PORT-PANEL)	1	
	7	REX1594	2P CABLE WIRE (MEMORY LED-PANEL)	1	
	8	RMK0841	INNER CHASSIS	1	
	9	RMKX1031A-1	BOTTOM CHASSIS	1	
	10	RGW0428-S1	VOLUME KNOB	1	
	11	RGW0435-K	SKIP KNOB	1	
	12	RMA2442	CHASSIS SUPPORT	2	
	13	RMQ2134	MECHA HOLDER	2	
	14	RMZX1022-1	HEATSINK SPACER	3	AKX57PN
	14	RMZX1022-1	HEATSINK SPACER	4	AKX77PH, AKX77PN
	15	RSC1230	TUNER SHIELD	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	16	RGR0443E-C1A	REAR PANEL	1	AKX77PN
⚠	16	RGR0443F-BA	REAR PANEL	1	AKX77PH
⚠	16	RGR0443G-C1A	REAR PANEL	1	AKX57PN
⚠	17	RKM0713-K1	TOP CABINET	1	
	18	RHD26043-1	SCREW	3	AKX57PN
	18	RHD26043-1	SCREW	4	AKX77PH, AKX77PN
	19	RHD26046-L	SCREW	12	
	20	RHD30007-K2J	SCREW	4	
	21	RHD30111-31	SCREW	8	
	22	RHD30119-S	SCREW	14	AKX57PN, AKX77PN
	22	RHD30119-S	SCREW	15	AKX77PH
	23	RHDX031008	SCREW	2	
	24	RMNV0079-1	FL HOLDER	1	
	25	RMNX0298	PCB SPACER	1	
	26	RKAX0042-K	LEG CUSHION	4	
	27	RGK2479-S	LEFT FUNCTION ORNAMENT	1	
	28	RGK2480-S	RIGHT FUNCTION ORNAMENT	1	
	29	RGK2449-K	RING ORNAMENT TOP/BOTTOM	2	AKX57PN
	29	RGK2449-S	RING ORNAMENT TOP/BOTTOM	2	AKX77PH, AKX77PN
	30	RGU2851-S1	LEFT PLAYLIST BUTTON	1	
	31	RGU2852-S1	RIGHT PLAYLIST BUTTON	1	
	32	RGU2882A-S1	LEFT FUNCTION BUTTON	1	
	33	RGU2883C-S1	RIGHT FUNCTION BUTTON		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	34	RGL0785-Q	USB REC LIGHT PCS	1	
	35	RKW1027-Q	CENTER ORNAMENT	1	
	36	RFKGAKX77LK	FRONT PANEL ASS'Y	1	AKX77PH, AKX77PN
	36	RFKGAKX57LK	FRONT PANEL ASS'Y	1	AKX57PN
	37	RMGX0033A-K	CD LID CUSHION	1	
	38	RGK2438A-K	CD LID	1	
	40	RMB0930	CD LID SPRING	1	
	41	RGQ0741-W	VOLUME LIGHT DIFFUSER	1	
	42	RGQ0744-W	VOLUME LIGHT SHEET	1	
	43	RKW1025-Q	FL WINDOW	1	
	44	RGU2848-K	POWER BUTTON	1	
⚠	45	REXX1123-K	1P RED WIRE (VOLTAGE SELECTOR-SMPS)	1	AKX77PH
⚠	46	REXX1122-K	1P BLACK WIRE (VOLTAGE SELECTOR-SMPS)	1	AKX77PH
	47	RHDX30005-J	SCREW	3	
	48	REXX1159-1	2P GRD WIRE (MUSIC PORT - INNER CHASSIS)	1	
	49	RGC0050-W1	VOLUME LIGHT REFLECTOR	1	
	50	RMZ1362	IC INSULATION SHEET	2	
	51	RMZ1363-1	IN INSULATOR TUBE	1	
	52	REX1647	4P CABLE WIRE (BLUETOOTH - REAR CABINET)	1	
	53	REE1848	10P FFC (BT-MAIN)	1	
	54	RMN1070	BLUETOOTH HOLDER	1	
			TRAVERSE DECK		
⚠	301	RAE1036Z-V	TRAVERSE ASS'Y	1	
	301-1	L1BBE0000007	OPTICAL HEADS	1	
	312	XTN2+6GFJ	SCREW	2	
			PACKING MATERIALS		
	P1	RPG0H04	PACKING CASE	1	AKX77PN
	P1	RPG0H05	PACKING CASE	1	AKX77PH
	P1	RPG0H27	PACKING CASE	1	AKX57PN
	P2	RPN2516	POLYFOAM	1	AKX77PH, AKX77PN
	P2	RPN2514	POLYFOAM	1	AKX57PN
	P3	RPFX0198-1	MIRAMAT	1	
			ACCESSORIES		
	A1	N2QAYB000915	REMOTE CONTROL	1	
	A1-1	RKK-PM500EBK	R/C BATTERY COVER	1	
⚠	A2	K2CB2CB00022	AC CORD	1	AKX57PN, AKX77PN
⚠	A2	K2CQ2YY00119	AC CORD	1	AKX77PH
⚠	A3	RQT9858-M	O/I BOOK (Sp/En)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	N1DYYYY00011	AM LOOP ANTENNA	1	
	A6	K2DAYYY00002	AC PLUG ADAPTOR	1	AKX77PH

17.2. 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	REP4995EA	MAIN P.C.B.	1	(RTL)AKX57PN
	PCB2	REP4995EB	BLUETOOTH P.C.B.	1	(RTL)AKX57PN
	PCB1	REP4995CA	MAIN P.C.B.	1	(RTL)AKX77PN
	PCB2	REP4995CB	BLUETOOTH P.C.B.	1	(RTL)AKX77PN
	PCB1	REP4995DA	MAIN P.C.B.	1	(RTL)AKX77PH
	PCB2	REP4995DB	BLUETOOTH P.C.B.	1	(RTL)AKX77PH
	PCB3	REP4884BA	PANEL P.C.B.	1	(RTL)AKX57PN
	PCB4	REP4884BB	USB P.C.B.	1	(RTL)AKX57PN
	PCB5	REP4884BA	MUSIC PORT P.C.B.	1	(RTL)AKX57PN
	PCB6	REP4884BA	MEMORY LED P.C.B.	1	(RTL)AKX57PN
	PCB7	REP4884BE	REMOTE SENSOR P.C.B.	1	(RTL)AKX57PN
	PCB3	REP4884AA	PANEL P.C.B.	1	(RTL)AKX77PH, AKX77PN
	PCB4	REP4884AB	USB P.C.B.	1	(RTL)AKX77PH, AKX77PN
	PCB5	REP4884AA	MUSIC PORT P.C.B.	1	(RTL)AKX77PH, AKX77PN
	PCB6	REP4884AA	MEMORY LED P.C.B.	1	(RTL)AKX77PH, AKX77PN
	PCB7	REP4884AE	REMOTE SENSOR P.C.B.	1	(RTL)AKX77PH, AKX77PN
⚠	PCB8	REP4965J	SMPS P.C.B.	1	(RTL)AKX57PN
⚠	PCB8	REP4965H	SMPS P.C.B.	1	(RTL)AKX77PN
⚠	PCB8	REP4965G	SMPS P.C.B.	1	(RTL)AKX77PH

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	PCB9	REP4965G	VOLTAGE SELECTOR P.C.B.	1	(RTL)AKX77PH
	PCB10	REP4945A	CD INTERFACE P.C.B.	1	(RTL)
	PCB11	REP4676A	CD LOADING P.C.B.	1	(RTL)
	PCB12	RSNE011B0	BLUETOOTH MODULE P.C.B.		
			INTERGRATED CIRCUITS		
	IC2000	VUEALLPT056	IC	1	(E.S.D), [SPG]
	IC2002	C0JBAR000367	IC	1	(E.S.D)
	IC2004	C0DBZYY00592	IC	1	(E.S.D)
	IC2006	RFKWMAKX57LM	IC	1	(E.S.D), JIGS & ADJ
	IC2007	C3EBEY000037	IC	1	(E.S.D)
	IC2008	C1AB00004003	IC	1	(E.S.D)
	IC2009	C0DBGYY03056	IC	1	(E.S.D)
	IC2010	C0ABBB000067	IC	1	(E.S.D)
	IC2011	C0DBAYY01594	IC	1	(E.S.D)
	IC2012	C0DBAYY01594	IC	1	(E.S.D)
	IC2501	C1AB00003986	IC	1	(E.S.D) AKX77PH, AKX77PN
	IC2502	C1AB00003986	IC	1	(E.S.D)
	IC2503	C1AB00003986	IC	1	(E.S.D)
	IC3008	C0DBGYY03056	IC	1	(E.S.D)
	IC5701	C1ZBZ0004646	IC	1	(E.S.D)
	IC5790	MIP2F20MSSCF	IC	1	(E.S.D)
	IC5801	C0DAZYY00039	IC	1	(E.S.D)
	IC5899	C0DAZYY00039	IC	1	(E.S.D)
	IC6000	C0HBB0000057	IC	1	(E.S.D)
	IC7111	RSNE011B0	IC	1	(E.S.D)
	IC8001	MN6627992AB	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC8051	C3ABMY000027	IC	1	(E.S.D)
	IC8251	C0GBY0000117	IC	1	(E.S.D)
	IC8401	C3FBMY000309	IC	1	(E.S.D)
	IC8501	C3FBYY000038	IC	1	(E.S.D)
			TRANSISTORS		
	Q2001	B1GBCFLL0037	TRANSISTOR	1	(E.S.D)
	Q2002	B1AAJC000019	TRANSISTOR	1	(E.S.D)
	Q2003	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q2004	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	Q2006	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2008	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2010	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2012	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2022	B1BACG000023	TRANSISTOR	1	(E.S.D)
	Q2023	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2024	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q2631	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2632	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2633	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q2634	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q3025	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q3200	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q3202	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q3301	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	Q5701	B1DEHU000002	TRANSISTOR	1	(E.S.D)
	Q5711	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5721	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	Q5803	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5898	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q6000	B1BABG000007	TRANSISTOR	1	(E.S.D) AKX77PH, AKX77PN
	Q6001	B1ABMG000008	TRANSISTOR	1	(E.S.D)
	Q8201	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	QR102	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	QR2001	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR2002	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR2003	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR3000	B1GBCFGN0016	TRANSISTOR	1	(E.S.D)
	QR3102	B1GBCFGN0016	TRANSISTOR	1	(E.S.D) AKX77PH, AKX77PN
	QR3103	B1GBCFGN0016	TRANSISTOR	1	(E.S.D) AKX77PH, AKX77PN
	QR3104	B1GBCFGN0016	TRANSISTOR	1	(E.S.D) AKX77PH, AKX77PN
	QR3401	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	QR5810	B1GBCFLL0037	TRANSISTOR	1	(E.S.D)
	QR6000	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D) AKX77PH, AKX77PN
	QR6003	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6004	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6005	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6008	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
			DIODES		
	D2001	DA2J10100L	DIODE	1	(E.S.D)
	D2002	DA2J10100L	DIODE	1	(E.S.D)
	D2003	B0ADDJ000032	DIODE	1	(E.S.D)
	D2004	DA2J10100L	DIODE	1	(E.S.D)
	D2007	DZ2J130M0L	DIODE	1	(E.S.D)
	D2008	DA2J10100L	DIODE	1	(E.S.D)
	D2009	DA2J10100L	DIODE	1	(E.S.D)
	D2017	DZ2J130M0L	DIODE	1	(E.S.D)
	D3200	B0ADCC000002	DIODE	1	(E.S.D)
	D3202	B0ADCC000002	DIODE	1	(E.S.D)
	D3301	B0ADDJ000032	DIODE	1	(E.S.D)
	D3303	B0JCPG000032	DIODE	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D3351	B0ECKM000008	DIODE	1	(E.S.D)
	D5701	B0FBBV000006	DIODE	1	(E.S.D)
	D5702	B0ZBZ0000205	DIODE	1	(E.S.D)
	D5703	B0JCPD000025	DIODE	1	(E.S.D)
	D5721	DZ2J180M0L	DIODE	1	(E.S.D)
	D5722	DZ2J200M0L	DIODE	1	(E.S.D)
	D5723	DA2J10100L	DIODE	1	(E.S.D)
	D5724	DA2J10100L	DIODE	1	(E.S.D)
	D5725	DZ2J062M0L	DIODE	1	(E.S.D)
	D5726	B0EAMM000057	DIODE	1	(E.S.D)
	D5727	DA2J10100L	DIODE	1	(E.S.D)
	D5728	DA2J10100L	DIODE	1	(E.S.D)
	D5729	B0EAMM000057	DIODE	1	(E.S.D)
	D5730	B0ECET000006	DIODE	1	(E.S.D)
	D5731	B0EAMM000057	DIODE	1	(E.S.D)
	D5732	DZ2J360M0L	DIODE	1	(E.S.D)
	D5793	B0HAMP000094	DIODE	1	(E.S.D)
	D5795	DZ2J091M0L	DIODE	1	(E.S.D)
	D5798	B0EAMM000057	DIODE	1	(E.S.D)
	D5801	B0ABSM000008	DIODE	1	(E.S.D)
	D5802	B0ABSM000008	DIODE	1	(E.S.D)
	D5896	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)
	D6010	B0EAMM000057	DIODE	1	(E.S.D) AKX77PH, AKX77PN
	D6011	B0EAMM000057	DIODE	1	(E.S.D) AKX57PN
	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)
	D6107	B0EAMM000057	DIODE	1	(E.S.D) AKX77PH, AKX77PN
	D6108	B0EAMM000057	DIODE	1	(E.S.D) AKX57PN
	D6400	B3AAA0000487	DIODE	1	(E.S.D)
	D6700	B3AAA0001129	DIODE	1	(E.S.D)
	D7112	DA2J10100L	DIODE	1	(E.S.D)
	D7113	DA2J10100L	DIODE	1	(E.S.D)
	D7114	DA2J10100L	DIODE	1	(E.S.D)
	D8250	DZ2J056M0L	DIODE	1	(E.S.D)
	D8251	DA2J10100L	DIODE	1	(E.S.D)
	DZ2000	B0JCPG000032	DIODE	1	(E.S.D)
⚠	DZ5701	D4EAY511A127	VARISTOR	1	(E.S.D)
			VARIABLE RESISTORS		
	VR6100	EVEKE2F3524B	VOLUME JOG	1	
	VR6200	K9AA012Y0012	CONTROL JOG	1	
			VARISTOR		
	VA2002	EZAEG2A50AX	VARISTOR	1	
			SWITCHES		
⚠	S5701	K0ABCA000007	VOLTAGE SELECTOR	1	AKX77PH
	S6000	EVQ21405RJ	SW PLAYLIST 2	1	
	S6001	EVQ21405RJ	SW PLAYLIST 3	1	
	S6002	EVQ21405RJ	SW PLAYLIST 4	1	
	S6003	EVQ21405RJ	SW PLAYLIST 1	1	
	S6004	EVQ21405RJ	SW PLAYLIST 5	1	
	S6006	EVQ21405RJ	SW PLAYLIST 6	1	
	S6012	EVQ21405RJ	SW STOP	1	
	S6100	EVQ21405RJ	SW CD	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	S6101	EVQ21405RJ	SW RADIO/EXT-IN	1	
	S6103	EVQ21405RJ	SW ALBUM/ TRACK	1	
	S6104	EVQ21405RJ	SW MEMORY/ USB	1	
	S6105	EVQ21405RJ	SW PLAY/PAUSE	1	
	S6107	EVQ21405RJ	SW CD OPEN	1	
	S6200	EVQ21405RJ	SW LATIN/ PRESET EQ	1	
	S6201	EVQ21405RJ	SW REWIND	1	
	S6202	EVQ21405RJ	SW MANUAL EQ	1	
	S6203	EVQ21405RJ	SW POWER	1	
	S6204	EVQ21405RJ	SW MEMORY REC	1	
	S6206	EVQ21405RJ	SW D.BASS	1	
	S6207	EVQ21405RJ	SW USB REC	1	
	S6208	EVQ21405RJ	SW FORWARD	1	
	S7201	K0L1BA000158	SW RESET	1	
			CONNECTORS		
	CN2001	K1KA05AA0193	5P CONNECTOR	1	
	CN2003	K1MY06AA0124	6P CONNECTOR	1	
	CN2004	K1MY30AA0124	30P CONNECTOR	1	
	CN2007	K1KA02AA0186	2P CONNECTOR	1	
	CN2008	K1YZ13000002	13P CONNECTOR	1	
	CN3105	K1KA04BA0061	4P CONNECTOR	1	AKX77PH, AKX77PN
	CN5802	K1KA13AA0181	13P CONNECTOR	1	
	CN6001	K1MY30AA0124	30P CONNECTOR	1	
	CN6002	K1KA04A00553	4P CONNECTOR	1	
	CN6003	K1YZ02000015	2P WIRE HOLDER	1	
	CN6400	K1FY104A0034	USB CONNECTOR	1	
	CN6500	K1KB04B00043	4P CONNECTOR	1	
	CN7001	K1MY05BA0539	5P CONNECTOR	1	
	CN7002	K1MN10B00016	10P CONNECTOR	1	
	FP3002	K1MN10AA0076	10P CONNECTOR	1	
	FP7002	K1MN06C00005	6P CONNECTOR	1	
	FP7003	K1MN10B00016	10P CONNECTOR	1	
	FP8201	K1MN24A00062	24P CONNECTOR	1	AKX57PN
	FP8201	K1MY24A00001	24P CONNECTOR	1	AKX77PH, AKX77PN
	FP8251	K1MN10AA0076	10P CONNECTOR	1	
	FP9003	K1KA05AA0051	5P CONNECTOR	1	
			COILS AND INDUCTORS		
	L2000	G2A380Y00002	ANTENNA COIL	1	
	L2002	G1CR18JA0020	INDUCTOR	1	
	L2006	G1C1R0MA0204	INDUCTOR	1	
	L2007	G1C330MA0291	INDUCTOR	1	
	L2500	G0C100M00009	INDUCTOR	1	AKX77PH, AKX77PN
	L2501	G0C100M00009	INDUCTOR	1	AKX77PH, AKX77PN
	L2502	G0C100M00009	INDUCTOR	1	
	L2503	G0C100M00009	INDUCTOR	1	
	L2506	G0C100M00009	INDUCTOR	1	
	L2507	G0C100M00009	INDUCTOR	1	
	L3300	G1C470MA0291	INDUCTOR	1	
⚠	L5701	G0B183J00002	LINE FILTER	1	
⚠	L5702	G0B183J00002	LINE FILTER	1	
	L5704	J0JAC0000018	INDUCTOR	1	
	L5801	G0C220KA0174	INDUCTOR	1	
	L6000	J0JBC0000019	INDUCTOR	1	
	L6300	J0JBC0000019	INDUCTOR	1	
	L6301	J0JBC0000019	INDUCTOR	1	
	L6302	J0JBC0000019	INDUCTOR	1	
	LB2000	J0JBC0000134	INDUCTOR	1	
	LB2006	J0JBC0000134	INDUCTOR	1	
	LB3201	J0JBC0000134	INDUCTOR	1	
	LB3401	J0JYC0000118	INDUCTOR	1	
	LB8002	J0JCC0000407	INDUCTOR	1	
	LB8003	J0JHC0000045	INDUCTOR	1	
	LB8004	J0JHC0000045	INDUCTOR	1	
	LB8052	J0JHC0000045	INDUCTOR	1	
	LB8201	J0JHC0000045	INDUCTOR	1	
	LB8202	G1C100KA0101	INDUCTOR	1	
	LB8203	J0JBC0000134	INDUCTOR	1	
	LB8204	J0JBC0000134	INDUCTOR	1	
	LB8251	J0JHC0000045	INDUCTOR	1	
	LB8252	J0JHC0000045	INDUCTOR	1	
	LB8401	J0JHC0000045	INDUCTOR	1	
	LB8402	J0JHC0000045	INDUCTOR	1	
	LB8501	J0JHC0000045	INDUCTOR	1	
	R2036	J0JCC0000301	INDUCTOR	1	
	R2037	J0JCC0000301	INDUCTOR	1	
	R2129	J0JCC0000301	INDUCTOR	1	
	R2134	J0JCC0000301	INDUCTOR	1	
	R2135	J0JCC0000301	INDUCTOR	1	
	R2136	J0JCC0000301	INDUCTOR	1	
	R2137	J0JCC0000301	INDUCTOR	1	
	R2138	J0JCC0000301	INDUCTOR	1	
	R8012	J0JHC0000045	INDUCTOR	1	
	R8013	J0JCC0000143	INDUCTOR	1	
	R8014	J0JCC0000143	INDUCTOR	1	
	R8015	J0JCC0000301	INDUCTOR	1	
	R8016	J0JHC0000045	INDUCTOR	1	
	R8017	J0JHC0000045	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	G4DYZ0000069	TRANSFORMER	1	AKX57PN
⚠	T5701	G4DYZ0000070	TRANSFORMER	1	AKX77PH, AKX77PN
⚠	T5751	G4DYZ0000064	TRANSFORMER	1	AKX57PN
⚠	T5751	G4DYZ0000065	TRANSFORMER	1	AKX77PH, AKX77PN
⚠	T6000	G4DYA0000214	TRANSFORMER	1	
			FUSES		
⚠	F1	K5D802APA008	FUSE	1	AKX57PN, AKX77PN
⚠	F1	K5D802BK0004	FUSE	1	AKX77PH
			PHOTO COUPLERS		
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5702	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	1	
			FILTERS		
	VA5700	J0LY00000168	FILTER	1	AKX77PH
	VA5701	J0LY00000168	FILTER	1	AKX77PH
			TERMINAL		
	ZJ2000	K9ZZ00001279	TERMINAL	1	
			OSCILLATORS		
	X2001	H0A327200181	OSCILLATOR	1	
	X2002	H2B800400007	OSCILLATOR	1	
	X8101	H0J338300002	OSCILLATOR	1	
			REMOTE SENSOR		
	IR6500	B3RAB0000110	REMOTE SENSOR	1	
			FL DISPLAY		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	FL6000	A2BB00000184	LCD DISPLAY	1	
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			THERMISTOR		
	TH5861	D4CCY1040001	THERMISTOR	1	
			JACKS		
	JK2000	K4ZZ02000103	JK FM ANT	1	
	JK2001	K2HA204B0153	JK AUX IN	1	
	JK2002	K4AC02B00042	JK AM ANT	1	
	JK2501	K4AZ10A00003	JK SPEAKER	1	AKX77PH, AKX77PN
	JK2502	K4AZ08A00007	JK SPEAKER	1	AKX57PN
	JK6301	K2HC103A0031	JK MUSIC PORT	1	
⚠	P5701	K2AA2B000011	AC INLET	1	AKX77PH
⚠	P5701	K2AB2B000007	AC INLET	1	AKX57PN, AKX77PN
			CHIP JUMPERS		
	K2	D0GBR00J0004	0 1/10W	2	
	K3	D0GBR00J0004	0 1/10W	1	AKX57PN
	K7	D0GBR00J0004	0 1/10W	1	AKX77PH
	K8	D0GBR00J0004	0 1/10W	1	AKX77PN
	K2501	D0YRR0000001	0 31.5W	1	AKX77PH, AKX77PN
	K2502	D0YRR0000001	0 31.5W	1	AKX77PH, AKX77PN
	K8202	D0GBR00J0004	0 1/10W	1	
	K8203	D0GBR00J0004	0 1/10W	1	
	K8204	D0GBR00J0004	0 1/10W	1	
	K8205	D0GBR00J0004	0 1/10W	1	
	K8206	D0GBR00J0004	0 1/10W	1	
	K8207	D0GDR00JA017	0 1/8W	1	
	K8208	D0GBR00J0004	0 1/10W	1	
	K8210	D0GBR00J0004	0 1/10W	1	
	L2005	D0GBR00J0004	0 1/10W	1	
	L7231	D0GDR00J0004	0 1/8W	1	
	LB2010	D0GBR00J0004	0 1/10W	1	
	LB2011	D0GBR00J0004	0 1/10W	1	
	LB2012	D0GBR00J0004	0 1/10W	1	
	LB7033	D0GB101JA065	100 1/10W	1	
	LB7034	D0GB101JA065	100 1/10W	1	
	W300	D0GBR00JA008	0 1/10W	1	
	W1001	D0GDR00JA017	0 1/8W	1	
	W1002	D0GBR00JA008	0 1/10W	1	
	W1003	D0GDR00JA017	0 1/8W	1	
	W1004	D0GBR00JA008	0 1/10W	1	
	W1005	D0GFR00JA017	0 1/4W	1	
	W1006	D0GFR00JA017	0 1/4W	1	
	W1007	D0GFR00JA017	0 1/4W	1	
	W1008	D0GFR00JA017	0 1/4W	1	
	W1009	D0GDR00JA017	0 1/8W	1	
	W1010	D0GFR00JA017	0 1/4W	1	
	W1011	D0GFR00JA017	0 1/4W	1	
	W1012	D0GFR00JA017	0 1/4W	1	
	W1013	D0GFR00JA017	0 1/4W	1	
	W1014	D0GDR00JA017	0 1/8W	1	
	W1015	D0GFR00JA017	0 1/4W	1	
	W1017	D0GFR00JA017	0 1/4W	1	
	W1018	D0GFR00JA017	0 1/4W	1	
	W1020	D0GBR00JA008	0 1/10W	1	
	W1022	D0GFR00JA017	0 1/4W	1	
	W1023	D0GFR00JA017	0 1/4W	1	
	W1024	D0GDR00JA017	0 1/8W	1	
	W1025	D0GFR00JA017	0 1/4W	1	
	W1026	D0GFR00JA017	0 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W1027	D0GFR00JA017	0 1/4W	1	
	W1030	D0GFR00JA017	0 1/4W	1	
	W1033	D0GFR00JA017	0 1/4W	1	
	W1034	D0GFR00JA017	0 1/4W	1	
	W1035	D0GDR00JA017	0 1/8W	1	
	W1039	D0GDR00JA017	0 1/8W	1	
	W1040	D0GBR00JA008	0 1/10W	1	
	W1041	D0GFR00JA017	0 1/4W	1	
	W1042	D0GFR00JA017	0 1/4W	1	
	W1043	D0GFR00JA017	0 1/4W	1	
	W1044	D0GFR00JA017	0 1/4W	1	
	W1045	D0GFR00JA017	0 1/4W	1	
	W1046	D0GFR00JA017	0 1/4W	1	
	W1047	D0GFR00JA017	0 1/4W	1	
	W1048	D0GFR00JA017	0 1/4W	1	
	W1049	D0GBR00JA008	0 1/10W	1	
	W1050	D0GFR00JA017	0 1/4W	1	
	W1051	D0GDR00JA017	0 1/8W	1	
	W1058	D0GDR00JA017	0 1/8W	1	
	W1059	D0GFR00JA017	0 1/4W	1	
	W1060	D0GFR00JA017	0 1/4W	1	
	W1061	D0GFR00JA017	0 1/4W	1	
	W1062	D0GFR00JA017	0 1/4W	1	
	W1063	D0GFR00JA017	0 1/4W	1	
	W1064	D0GBR00JA008	0 1/10W	1	
	W1065	D0GFR00JA017	0 1/4W	1	
	W1070	D0GFR00JA017	0 1/4W	1	
	W1071	D0GFR00JA017	0 1/4W	1	
	W1072	D0GDR00JA017	0 1/8W	1	
	W1073	D0GFR00JA017	0 1/4W	1	
	W1074	D0GFR00JA017	0 1/4W	1	
	W1075	D0GDR00JA017	0 1/8W	1	
	W1076	D0GFR00JA017	0 1/4W	1	
	W1077	D0GFR00JA017	0 1/4W	1	
	W1078	D0GFR00JA017	0 1/4W	1	
	W1079	D0GFR00JA017	0 1/4W	1	
	W1080	D0GFR00JA017	0 1/4W	1	
	W1081	D0GFR00JA017	0 1/4W	1	
	W1082	D0GFR00JA017	0 1/4W	1	
	W1083	D0GDR00JA017	0 1/8W	1	
	W1084	D0GBR00JA008	0 1/10W	1	
	W1126	D0GFR00JA017	0 1/4W	1	
	W1129	D0GBR00JA008	0 1/10W	1	
	W1131	D0GDR00JA017	0 1/8W	1	
	W1133	D0GFR00JA017	0 1/4W	1	
	W1134	D0GFR00JA017	0 1/4W	1	
	W1135	D0GFR00JA017	0 1/4W	1	
	W1136	D0GDR00JA017	0 1/8W	1	
	W1137	D0GFR00JA017	0 1/4W	1	
	W1138	D0GDR00JA017	0 1/8W	1	
	W1139	D0GFR00JA017	0 1/4W	1	
	W5904	D0GBR00JA008	0 1/10W	1	
	W5926	D0GFR00JA017	0 1/4W	1	
	W5927	D0GDR00JA017	0 1/8W	1	
	W5930	D0GDR00JA017	0 1/8W	1	
			RESISTORS		
	R2000	D0GB103JA008	10K 1/10W	1	
	R2001	D0GB103JA008	10K 1/10W	1	
	R2002	D0GB103JA008	10K 1/10W	1	
	R2003	D0GB103JA008	10K 1/10W	1	
	R2011	D0GBR00JA008	0 1/10W	1	
	R2012	D0GA472JA023	4.7K 1/16W	1	
	R2013	D0GBR00JA008	0 1/10W	1	
	R2015	D0GA472JA023	4.7K 1/16W	1	
	R2017	D0GBR00JA008	0 1/10W	1	
	R2018	D0GA221JA023	220 1/16W	1	
	R2019	D0GA221JA023	220 1/16W	1	
	R2020	D0GA102JA023	1K 1/16W	1	
	R2023	D0GB222JA008	2.2K 1/10W	1	
	R2024	D0GBR00J0004	0 1/10W	1	
	R2025	D0GB561JA008	560 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2026	D0GB222JA008	2.2K 1/10W	1	
	R2027	D0GBR00J0004	0 1/10W	1	
	R2034	D0GBR00JA008	0 1/10W	1	
	R2035	D0GBR00JA008	0 1/10W	1	
	R2046	D0GB103JA008	10K 1/10W	1	
	R2047	D0GB102JA008	1K 1/10W	1	
	R2048	D0GB101JA008	100 1/10W	1	
	R2049	D0GBR00JA008	0 1/10W	1	
	R2053	D0GB183JA065	18K 1/10W	1	AKX77PN
	R2053	D0GB474JA065	470K 1/10W	1	AKX57PN
	R2053	D0GB562JA065	5.6K 1/10W	1	AKX77PH
	R2055	D0GB104JA008	100K 1/10W	1	
	R2056	D0GB103JA008	10K 1/10W	1	
	R2058	D0GB103JA008	10K 1/10W	1	
	R2060	D0GB122JA008	1.2K 1/10W	1	AKX77PH
	R2060	D0GBR00JA008	0 1/10W	1	AKX77PN
	R2060	D0GB332JA008	3.3K 1/10W	1	AKX57PN
	R2064	D0GBR00JA008	0 1/10W	1	
	R2066	D0GBR00JA008	0 1/10W	1	
	R2067	D0GB153JA008	15K 1/10W	1	
	R2068	D0GB153JA008	15K 1/10W	1	
	R2069	D0GB103JA008	10K 1/10W	1	
	R2070	D0GB472JA008	4.7K 1/10W	1	
	R2071	D0GB392JA008	3.9K 1/10W	1	
	R2074	D0GBR00JA008	0 1/10W	1	
	R2075	D0GB472JA008	4.7K 1/10W	1	
	R2077	D0GB473JA008	47K 1/10W	1	
	R2078	D0GB101JA008	100 1/10W	1	
	R2083	D0GB473JA008	47K 1/10W	1	
	R2084	D0GB564JA008	560K 1/10W	1	
	R2091	D0GB101JA008	100 1/10W	1	
	R2093	D0GB101JA008	100 1/10W	1	
	R2094	D0GB101JA008	100 1/10W	1	
	R2095	D0GB101JA008	100 1/10W	1	
	R2096	D0GB101JA008	100 1/10W	1	
	R2097	D0GB332JA008	3.3K 1/10W	1	
	R2100	D0GBR00JA008	0 1/10W	1	
	R2105	D0GB103JA008	10K 1/10W	1	
	R2106	D0GB103JA008	10K 1/10W	1	
	R2107	D0GB103JA008	10K 1/10W	1	
	R2108	D0GB103JA008	10K 1/10W	1	
	R2109	D0GB103JA008	10K 1/10W	1	
	R2113	D0GB332JA008	3.3K 1/10W	1	
	R2114	D0GB683JA008	68K 1/10W	1	
	R2115	D0GB1R0JA008	1 1/10W	1	
	R2116	D0GB103JA008	10K 1/10W	1	
	R2117	D0GB103JA008	10K 1/10W	1	
	R2118	D0GB103JA008	10K 1/10W	1	
	R2119	D0GB103JA008	10K 1/10W	1	
	R2120	D0GB473JA008	47K 1/10W	1	
	R2124	D0GB471JA008	470 1/10W	1	
	R2125	D0GB471JA008	470 1/10W	1	
	R2126	D0GBR00JA008	0 1/10W	1	
	R2127	D0GBR00JA008	0 1/10W	1	
	R2128	D0GB183JA008	0 1/10W	1	
	R2130	D0GBR00JA008	0 1/10W	1	
	R2131	D0GB103JA008	10K 1/10W	1	
	R2132	D0GB103JA008	10K 1/10W	1	
	R2133	D0GBR00JA008	0 1/10W	1	
	R2139	D0GB332JA008	3.3K 1/10W	1	
	R2140	D0GB332JA008	3.3K 1/10W	1	
	R2141	D0GB332JA008	3.3K 1/10W	1	
	R2142	D0GB332JA008	3.3K 1/10W	1	
	R2143	D0GBR00JA008	0 1/10W	1	
	R2144	D0GB472JA008	4.7K 1/10W	1	
	R2145	D0GB472JA008	4.7K 1/10W	1	
	R2150	D0GBR00JA008	0 1/10W	1	
	R2154	D0GBR00JA008	0 1/10W	1	
	R2155	D0GB681JA008	680 1/10W	1	
	R2156	D0GB473JA008	47K 1/10W	1	
	R2157	D0GB123JA008	12K 1/10W	1	
	R2158	D0GB2R2JA007	2.2 1/10W	1	
	R2159	D0GB2R2JA007	2.2 1/10W	1	
	R2160	D0GB2R2JA007	2.2 1/10W	1	
	R2161	D0GB123JA008	12K 1/10W	1	
	R2162	D0GB153JA008	15K 1/10W	1	
	R2163	D0GB271JA008	270 1/10W	1	
	R2165	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R2166	D0GBR00JA008	0 1/10W	1	AKX57PN
	R2168	D0HB392ZA002	3.9K 1/16W	1	
	R2169	ERJ3RBD563V	56K 1/16W	1	
	R2170	ERJ3RBD103V	10K 1/16W	1	
	R2175	D0GBR00JA008	0 1/10W	1	AKX77PN
	R2177	D0GBR00JA008	0 1/10W	1	AKX77PH
	R2178	D0GB103JA008	10K 1/10W	1	
	R2179	D0GB274JA007	270K 1/10W	1	
	R2180	D0GB823JA008	82K 1/10W	1	
	R2183	D0GB682JA008	6.8K 1/10W	1	
	R2184	D0GB221JA007	220 1/10W	1	
	R2188	D0GB274JA007	270K 1/10W	1	
	R2190	D0GB104JA008	100K 1/10W	1	
	R2192	D0GB101JA008	100 1/10W	1	
	R2196	D0GB474JA008	470K 1/10W	1	
	R2199	D0GBR00JA008	0 1/10W	1	
	R2200	D0AF270JA039	27 1/4W	1	
	R2203	D0GBR00JA008	0 1/10W	1	
	R2204	D0GBR00JA008	0 1/10W	1	
	R2205	D0GDR00JA017	0 1/8W	1	
	R2206	D0GB103JA008	10K 1/10W	1	
	R2207	D0GB102JA008	1K 1/10W	1	
	R2208	D0GB101JA008	100 1/10W	1	
	R2209	D0GB392JA008	3.9K 1/10W	1	
	R2210	D0GB334JA008	330K 1/10W	1	
	R2213	D0GB101JA008	100 1/10W	1	
	R2214	D0GB101JA008	100 1/10W	1	
	R2215	D0GB101JA008	100 1/10W	1	
	R2216	D0GB101JA008	100 1/10W	1	
	R2217	D0GB101JA008	100 1/10W	1	
	R2218	D0GB101JA008	100 1/10W	1	
	R2219	D0GB101JA008	100 1/10W	1	
	R2220	D0GB101JA008	100 1/10W	1	
	R2221	D0GB472JA008	4.7K 1/10W	1	
	R2222	D0GB103JA008	10K 1/10W	1	
	R2237	D0GB103JA008	10K 1/10W	1	
	R2278	D0GB821JA008	820 1/10W	1	
	R2279	D0GB101JA008	100 1/10W	1	
	R2503	D0GB100JA008	10 1/10W	1	AKX77PH, AKX77PN
	R2524	D0GB223JA008	22K 1/10W	1	AKX77PH, AKX77PN
	R2585	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2586	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2587	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2588	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2589	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2590	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2595	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2596	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R2597	ERJ3GEYJ3R3V	3.3 1/10W	1	AKX77PH, AKX77PN
	R2598	ERJ3GEYJ3R3V	3.3 1/10W	1	AKX77PH, AKX77PN
	R2603	D0GB223JA008	22K 1/10W	1	
	R2606	D0GB100JA008	10 1/10W	1	
	R2612	D0GB101JA008	100 1/10W	1	AKX77PH, AKX77PN
	R2613	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R2614	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R2619	D0GB223JA008	22K 1/10W	1	
	R2620	D0GB100JA008	10 1/10W	1	
	R2653	D0GB104JA008	100K 1/10W	1	AKX77PH, AKX77PN
	R2654	D0GB104JA008	100K 1/10W	1	AKX77PH, AKX77PN
	R2655	D0GB104JA008	100K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2656	D0GB104JA008	100K 1/10W	1	
	R2657	D0GB104JA008	100K 1/10W	1	
	R2658	D0GB104JA008	100K 1/10W	1	
	R2659	D0GB104JA008	100K 1/10W	1	
	R2660	D0GB104JA008	100K 1/10W	1	
	R2661	D0GB104JA008	100K 1/10W	1	
	R2662	D0GB104JA008	100K 1/10W	1	
	R2667	D0GB822JA008	8.2K 1/10W	1	
	R2668	D0GB104JA008	100K 1/10W	1	
	R2669	D0GB223JA008	22K 1/10W	1	
	R2670	D0GB104JA008	100K 1/10W	1	
	R2671	D0GB472JA008	4.7K 1/10W	1	
	R3001	D0GB103JA008	10K 1/10W	1	
	R3002	D0GB101JA008	100 1/10W	1	
	R3003	D0GB101JA008	100 1/10W	1	
	R3004	D0GB101JA008	100 1/10W	1	
	R3005	D0GB101JA008	100 1/10W	1	
	R3006	D0GB101JA008	100 1/10W	1	
	R3007	D0GB101JA008	100 1/10W	1	
	R3010	D0GB473JA008	47K 1/10W	1	
	R3012	D0GBR00JA008	0 1/10W	1	
	R3013	D0GBR00JA008	0 1/10W	1	
	R3014	D0GBR00JA008	0 1/10W	1	
	R3015	D0GBR00JA008	0 1/10W	1	
	R3016	D0GBR00JA008	0 1/10W	1	
	R3017	D0GBR00JA008	0 1/10W	1	
	R3018	D0GBR00JA008	0 1/10W	1	
	R3019	D0GBR00JA008	0 1/10W	1	
	R3020	D0GBR00JA008	0 1/10W	1	
	R3021	D0GBR00JA008	0 1/10W	1	
	R3022	D0GBR00JA008	0 1/10W	1	
	R3023	D0GBR00JA008	0 1/10W	1	
	R3024	D0GBR00JA008	0 1/10W	1	
	R3025	D0GBR00JA008	0 1/10W	1	
	R3026	D0GBR00JA008	0 1/10W	1	
	R3027	D0GBR00JA008	0 1/10W	1	
	R3028	D0GBR00JA008	0 1/10W	1	
	R3029	D0GB103JA008	10K 1/10W	1	
	R3031	D0GB103JA008	10K 1/10W	1	
	R3032	D0GB102JA008	1K 1/10W	1	
	R3034	D0GBR00JA008	0 1/10W	1	
	R3106	D0GBR00JA008	0 1/10W	1	
	R3107	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3108	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3109	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3110	D0GB331JA008	330 1/10W	1	
	R3111	D0GB104JA008	100K 1/10W	1	
	R3112	D0GB102JA008	1K 1/10W	1	AKX77PH, AKX77PN
	R3113	D0GB102JA008	1K 1/10W	1	AKX77PH, AKX77PN
	R3114	D0GB102JA008	1K 1/10W	1	AKX77PH, AKX77PN
	R3132	D0GBR00JA008	0 1/10W	1	
	R3200	D0GB101JA008	100 1/10W	1	
	R3201	D0GB103JA008	10K 1/10W	1	
	R3202	D0GB823JA008	82K 1/10W	1	
	R3203	D0GB101JA008	100 1/10W	1	
	R3204	D0GB101JA008	100 1/10W	1	
	R3213	D0GB101JA008	100 1/10W	1	
	R3214	D0GB334JA008	330K 1/10W	1	
	R3215	D0GB392JA008	3.9K 1/10W	1	
	R3216	D0GB823JA008	82K 1/10W	1	
	R3217	D0GB101JA008	100 1/10W	1	
	R3218	D0GB101JA008	100 1/10W	1	
	R3219	D0GB101JA008	100 1/10W	1	
	R3220	D0GB103JA008	10K 1/10W	1	
	R3222	D0GB103JA008	10K 1/10W	1	
	R3224	D0GB103JA008	10K 1/10W	1	
	R3225	D0GBR00JA008	0 1/10W	1	
	R3226	D0GB333JA008	33K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R3227	D0GB562JA008	5.6K 1/10W	1	
	R3232	D0GB101JA008	100 1/10W	1	
	R3235	D0GB101JA008	100 1/10W	1	
	R3302	D0GB124JA008	120K 1/10W	1	
	R3306	D0GBR00J0004	0 1/10W	1	
	R3307	D0GBR00JA008	0 1/10W	1	
	R3308	D0GBR00JA008	0 1/10W	1	
	R3310	ERJ3RBD823V	82K 1/16W	1	
	R3311	ERJ3RBD104V	100K 1/16W	1	
	R3312	ERJ3RBD103V	10K 1/16W	1	
	R3313	D0GB682JA008	6.8K 1/10W	1	
	R3314	D0GB184JA008	180K 1/10W	1	
	R3317	D0GBR00JA008	0 1/10W	1	
	R3318	D0GBR00JA008	0 1/10W	1	
	R3319	D0GBR00JA008	0 1/10W	1	
	R3320	D0GBR00JA008	0 1/10W	1	
	R3321	D0GB4R7JA008	4.7K 1/10W	1	
	R3328	D0GA473JA023	47K 1/16W	1	
	R3351	D0GBR00JA008	0 1/10W	1	
	R3354	D0GB102JA008	1K 1/10W	1	
	R3355	ERJ3GEYJ185V	1.8M 1/10W	1	
	R3356	D0GB102JA008	1K 1/10W	1	
	R3357	ERJ3GEYJ185V	1.8M 1/10W	1	
	R3400	D0GBR00JA008	0 1/10W	1	
	R3401	D0GBR00JA008	0 1/10W	1	
	R3404	D0GBR00JA008	0 1/10W	1	
	R3406	D0GB102JA008	1K 1/10W	1	
	R3407	D0GB103JA008	10K 1/10W	1	
	R3501	D0GBR00JA008	0 1/10W	1	
	R3623	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3631	D0GBR00JA008	0 1/10W	1	
	R3632	D0GBR00JA008	0 1/10W	1	
	R3641	D0GB101JA008	100 1/10W	1	AKX77PH, AKX77PN
	R3643	D0GB101JA008	100 1/10W	1	
	R3647	D0GB101JA008	100 1/10W	1	
	R3649	D0GBR00JA008	0 1/10W	1	
	R3650	D0GBR00JA008	0 1/10W	1	
	R3651	D0GBR00JA008	0 1/10W	1	
	R3652	D0GBR00JA008	0 1/10W	1	
	R3653	D0GBR00JA008	0 1/10W	1	
	R3654	D0GBR00JA008	0 1/10W	1	
	R3655	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3656	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3657	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3658	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R3659	D0GB100JA008	10 1/10W	1	AKX77PH, AKX77PN
	R3660	D0GB100JA008	10 1/10W	1	AKX77PH, AKX77PN
	R3661	D0GB100JA008	10 1/10W	1	
	R3662	D0GB100JA008	10 1/10W	1	
	R3665	D0GB100JA008	10 1/10W	1	
	R3667	D0GB100JA008	10 1/10W	1	
	R4000	D0GB222JA008	2.2K 1/10W	1	
	R5700	D0GB474JA065	470K 1/10W	1	AKX57PN
	R5700	D0GB183JA065	18K 1/10W	1	AKX77PN
	R5700	D0GB562JA065	5.6K 1/10W	1	AKX77PH
	R5702	D0GZ104JA012	100K 1W	1	
	R5703	D0GZ104JA012	100K 1W	1	
	R5704	D0GF224JA048	220K 1/4W	1	
	R5705	D0GF224JA048	220K 1/4W	1	
	R5706	D0GD824JA052	820K 1/8W	1	
⚠	R5708	D0GF155JA048	1.5M 1/4W	1	AKX57PN, AKX77PH
⚠	R5708	ERJ8GEYJ105V	1M 1/4W	1	AKX77PN
⚠	R5709	D0GF155JA048	1.5M 1/4W	1	AKX57PN, AKX77PH
⚠	R5709	ERJ8GEYJ105V	1M 1/4W	1	AKX77PN
	R5710	D0GB394JA065	390K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5711	D0GF100JA048	10 1/4W	1	
	R5712	D0GF103JA048	10K 1/4W	1	
	R5713	D0GF331JA048	330 1/4W	1	
	R5714	ERX2SZJR18P	0.18 2W	1	
	R5715	D0GZ104JA012	100K 1W	1	
	R5716	D0GZ104JA012	100K 1W	1	
	R5717	D0GZ104JA012	100K 1W	1	
	R5718	D0GZ104JA012	100K 1W	1	
	R5720	D0GD220JA052	22 1/8W	1	
	R5721	D0GD103JA052	10K 1/8W	1	
	R5722	D0GD122JA052	1.2K 1/8W	1	
	R5723	D0GB102JA065	1K 1/10W	1	
	R5724	D0GD121JA052	120 1/8W	1	
	R5727	ERX2SZJR18P	0.18 2W	1	
	R5728	D0GB104JA065	100K 1/10W	1	
	R5729	D0GD103JA052	10K 1/8W	1	
	R5730	D0GB102JA065	1K 1/10W	1	
	R5732	D0GD101JA052	100 1/8W	1	
	R5733	D0GB473JA065	47K 1/10W	1	
	R5786	D0GZ204JA012	200K 1W	1	AKX77PH
	R5795	D0GD474JA052	470K 1/8W	1	
	R5797	D0GB153JA065	15K 1/10W	1	
	R5798	D0GD220JA052	22 1/8W	1	
	R5802	D1BB8202A074	82K 1/10W	1	
	R5805	D1BB5601A074	5.6K 1/10W	1	
	R5806	D1BB1502A074	15K 1/10W	1	
	R5807	D0GD182JA052	1.8K 1/8W	1	
	R5808	D0GD222JA052	2.2K 1/8W	1	
	R5810	D0GB331JA065	330 1/10W	1	
	R5814	D0GB104JA065	100K 1/10W	1	
	R5865	D1BD1800A066	180 1/8W	1	
	R5890	D0GB222JA065	2.2K 1/10W	1	
	R5891	D1BB3302A074	33K 1/10W	1	
	R5892	D1BB1001A074	1K 1/10W	1	
	R5893	D1BB1002A074	10K 1/10W	1	
	R5894	D0GB151JA065	150 1/10W	1	
	R5895	D0GB153JA065	15K 1/10W	1	
	R5896	D0GB104JA065	100K 1/10W	1	
	R5897	D0GB101JA065	100 1/10W	1	
	R5898	D1BB1002A074	10K 1/10W	1	
	R5901	ERG2SJ471E	470 2W	1	
	R5902	ERG2SJ471E	470 2W	1	
	R5903	ERG2SJ471E	470 2W	1	
	R5904	ERG2SJ471E	470 2W	1	
	R5905	ERG2SJ471E	470 2W	1	
	R5906	ERG2SJ471E	470 2W	1	
	R5907	ERG2SJ471E	470 2W	1	
	R5908	ERG2SJ471E	470 2W	1	
	R5909	D0GB102JA065	1K 1/10W	1	
	R6000	D0GB272JA008	2.7K 1/10W	1	AKX77PH, AKX77PN
	R6001	D0GB470JA008	47 1/10W	1	AKX77PH, AKX77PN
	R6002	D0GB101JA008	100 1/10W	1	AKX77PH, AKX77PN
	R6003	D0GB181JA008	180 1/10W	1	AKX77PH, AKX77PN
	R6004	D0GB681JA008	680 1/10W	1	AKX77PH, AKX77PN
	R6005	D0GB181JA008	180 1/10W	1	AKX77PH, AKX77PN
	R6006	D0GB122JA008	1.2K 1/10W	1	
	R6007	D0GB152JA008	1.5K 1/10W	1	
	R6008	D0GB222JA008	2.2K 1/10W	1	
	R6009	D0GB332JA008	3.3K 1/10W	1	
	R6010	D0GB472JA008	4.7K 1/10W	1	
	R6011	D0GBR00JA008	0 1/10W	1	
	R6012	D0GB331JA008	330 1/10W	1	AKX77PH, AKX77PN
	R6013	D0GB103JA008	10K 1/10W	1	
	R6016	D0GB221JA007	220 1/10W	1	
	R6017	D0GB471JA008	470 1/10W	1	
	R6018	D0GB221JA007	220 1/10W	1	
	R6019	D0GBR00JA008	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6021	D0GBR00JA008	0 1/10W	1	
	R6023	D0GB823JA008	82K 1/10W	1	
	R6025	D0GB562JA008	5.6K 1/10W	1	
	R6026	D0GB220JA008	22 1/10W	1	
	R6028	D0GB1R0JA008	1 1/10W	1	
	R6029	D0GB473JA008	47K 1/10W	1	
	R6030	D0GB1R0JA008	1 1/10W	1	
	R6032	D0GB100JA008	10 1/10W	1	
	R6033	D0GB223JA008	22K 1/10W	1	
	R6100	D0GB122JA008	1.2K 1/10W	1	
	R6101	D0GB152JA008	1.5K 1/10W	1	
	R6102	D0GB222JA008	2.2K 1/10W	1	
	R6103	D0GB332JA008	3.3K 1/10W	1	
	R6104	D0GB472JA008	4.7K 1/10W	1	
	R6105	D0GB151JA008	150 1/10W	1	AKX77PH, AKX77PN
	R6105	D0GB271JA008	270 1/10W	1	AKX57PN
	R6107	D0GB151JA008	150 1/10W	1	AKX77PH, AKX77PN
	R6107	D0GB271JA008	270 1/10W	1	AKX57PN
	R6109	D0GB103JA008	10K 1/10W	1	
	R6110	D0GB103JA008	10K 1/10W	1	
	R6111	D0GB103JA008	10K 1/10W	1	
	R6112	D0GB391JA008	390 1/10W	1	AKX77PH, AKX77PN
	R6112	D0GB821JA008	820 1/10W	1	AKX57PN
	R6113	D0GB221JA007	220 1/10W	1	AKX77PH, AKX77PN
	R6113	D0GB471JA008	470 1/10W	1	AKX57PN
	R6114	D0GB181JA008	180 1/10W	1	
	R6120	D0GB391JA008	390 1/10W	1	AKX77PH, AKX77PN
	R6120	D0GB821JA008	820 1/10W	1	AKX57PN
	R6122	D0GB221JA007	220 1/10W	1	AKX77PH, AKX77PN
	R6122	D0GB471JA008	470 1/10W	1	AKX57PN
	R6124	D0GBR00JA008	0 1/10W	1	AKX57PN
	R6125	D0GBR00JA008	0 1/10W	1	AKX77PH, AKX77PN
	R6200	D0GB122JA008	1.2K 1/10W	1	
	R6201	D0GB152JA008	1.5K 1/10W	1	
	R6202	D0GB222JA008	2.2K 1/10W	1	
	R6203	D0GB332JA008	3.3K 1/10W	1	
	R6204	D0GB153JA008	15K 1/10W	1	
	R6206	D0GB472JA008	4.7K 1/10W	1	
	R6207	D0GB682JA008	6.8K 1/10W	1	
	R6208	D0GB103JA008	10K 1/10W	1	
	R6209	D0GB103JA008	10K 1/10W	1	
	R6210	D0GB473JA008	47K 1/10W	1	
	R6211	D0GB103JA008	10K 1/10W	1	
	R7033	D0GB103JA065	10K 1/10W	1	
	R7034	D0GB103JA065	10K 1/10W	1	
	R7111	D0GBR00J0004	0 1/10W	1	
	R8001	ERJ2GE0R00X	0 1/16W	1	
	R8002	D0GB103JA065	10K 1/10W	1	
	R8005	D0GB105JA065	1M 1/10W	1	
	R8006	D0GB221JA065	220 1/10W	1	
	R8010	D0GA104JA023	100K 1/16W	1	
	R8011	D0GA104JA023	100K 1/16W	1	
	R8021	D0GA330JA023	33 1/16W	1	
	R8022	D0GB100JA065	10 1/10W	1	
	R8025	ERJ2GE0R00X	0 1/16W	1	
	R8026	ERJ2GE0R00X	0 1/16W	1	
	R8027	D0GB100JA065	10 1/10W	1	
	R8029	D0GA330JA023	33 1/16W	1	
	R8031	D0GA103JA023	10K 1/16W	1	
	R8032	D0GBR00J0004	0 1/10W	1	
	R8042	D0GA103JA023	10K 1/16W	1	
	R8043	ERJ2GE0R00X	0 1/16W	1	
	R8044	ERJ2GE0R00X	0 1/16W	1	
	R8045	ERJ2GE0R00X	0 1/16W	1	
	R8046	D0GB103JA065	10K 1/10W	1	
	R8047	D0GB103JA065	10K 1/10W	1	
	R8209	D0GB225JA065	2.2M 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R8210	D0GB821JA065	820 1/10W	1	
	R8211	D0GB272JA065	2.7K 1/10W	1	
	R8212	D0GB4R7JA065	4.7 1/10W	1	
	R8214	D0GB103JA065	10K 1/10W	1	
	R8215	D0GB5R6JA065	5.6 1/10W	1	
	R8251	D0GB330JA065	33 1/10W	1	
	R8252	D0GB102JA065	1K 1/10W	1	
	R8254	D0GB562JA065	5.6K 1/10W	1	
	R8255	D0GB332JA065	3.3K 1/10W	1	
	R8256	D0GB101JA065	100 1/10W	1	
	R8257	D0GB562JA065	5.6K 1/10W	1	
	R8258	D0GB273JA065	27K 1/10W	1	
	R8259	D0GB472JA065	4.7K 1/10W	1	
	R8260	D0GB473JA065	47K 1/10W	1	
	R8261	D0GB101JA065	100 1/10W	1	
	R8262	D0GB100JA065	10 1/10W	1	
	R8263	D0GB102JA065	1K 1/10W	1	
	R8264	D0GB122JA065	1.2K 1/10W	1	
	R8265	D0GB104JA065	100K 1/10W	1	
	R8301	D0GBR00J0004	0 1/10W	1	
	R8302	D0GBR00J0004	0 1/10W	1	
	R8501	ERJ2GE0R00X	0 1/16W	1	
	R8502	D0GA473JA023	47K 1/16W	1	
	R8503	D0GA473JA023	47K 1/16W	1	
	R8504	D0GA473JA023	47K 1/16W	1	
	R8505	D0GA473JA023	47K 1/16W	1	
	R8506	D0GA473JA023	47K 1/16W	1	
	R8507	D0GA473JA023	47K 1/16W	1	
	R9001	ERJ2RKD300X	30 1/16W	1	
	R9002	ERJ2RKD300X	30 1/16W	1	
	R9003	D0GA153JA023	15K 1/16W	1	
	R9004	D0GA153JA023	15K 1/16W	1	
	R9005	ERJ2RKD300X	30 1/16W	1	
	R9006	ERJ2RKD300X	30 1/16W	1	
	R9007	D0GA153JA023	15K 1/16W	1	
	R9008	D0GA153JA023	15K 1/16W	1	
			CAPACITORS		
	C2000	F1H1H104B047	0.1uF 50V	1	
	C2004	F1H1H102B047	1000pF 50V	1	
	C2005	F1H1E105A153	1uF 25V	1	
	C2007	F1H1E105A153	1uF 25V	1	
	C2009	F1H1C474A178	0.47uF 16V	1	
	C2010	F1H1H104B047	0.1uF 50V	1	
	C2011	F1H1H104B047	0.1uF 50V	1	
	C2016	F1H1E105A153	1uF 25V	1	
	C2017	F1H1H561B052	560pF 50V	1	
	C2019	F1G1C104A077	0.1uF 16V	1	
	C2020	F1H1H561B052	560pF 50V	1	
	C2021	F1H1E105A153	1uF 25V	1	
	C2024	F1H1E105A153	1uF 25V	1	
	C2025	F1H1E105A153	1uF 25V	1	
	C2026	F1H1E105A153	1uF 25V	1	
	C2029	F1H1H104B047	0.1uF 50V	1	
	C2030	F1H1H104B047	0.1uF 50V	1	
	C2032	F1H1H104B047	0.1uF 50V	1	
	C2034	F1H1H104B047	0.1uF 50V	1	
	C2042	F1H1H104B047	0.1uF 50V	1	
	C2051	F1J1A106A043	10uF 10V	1	
	C2052	F1H1H180A230	18pF 50V	1	
	C2053	F1H1H180A230	18pF 50V	1	
	C2054	F1H1H104B047	0.1uF 50V	1	
	C2055	F1H1H104B047	0.1uF 50V	1	
	C2056	F1H1H104B047	0.1uF 50V	1	
	C2057	F2A0J2220055	2200uF 6.3V	1	
	C2058	F1J1A106A043	10uF 10V	1	
	C2059	F1H1E105A153	1uF 25V	1	
	C2060	F1H1H104B047	0.1uF 50V	1	
	C2061	F1H1H104B047	0.1uF 50V	1	
	C2062	F1H1H473B047	0.047uF 50V	1	
	C2063	F1H1H473B047	0.047uF 50V	1	
	C2064	F2A1H3R3A213	3.3uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2065	F1H1H472B047	4700pF 50V	1	
	C2066	F1H1H472B047	4700pF 50V	1	
	C2067	F1H1H103B047	0.01uF 50V	1	
	C2068	F1H1H103B047	0.01uF 50V	1	
	C2069	F1J1A106A043	10uF 10V	1	
	C2074	F1H1H104B047	0.1uF 50V	1	
	C2075	F1H1H104B047	0.1uF 50V	1	
	C2076	F1H1H104B047	0.1uF 50V	1	
	C2077	F1H1H331B052	330pF 50V	1	
	C2078	F1J1A106A043	10uF 10V	1	
	C2080	F1J1A106A043	10uF 10V	1	
	C2081	F1J1A106A043	10uF 10V	1	
	C2082	F1H1H104B047	0.1uF 50V	1	
	C2084	F1J1A106A043	10uF 10V	1	
	C2085	F2A0J102A247	1000uF 6.3V	1	
	C2086	F1H1H104B047	0.1uF 50V	1	
	C2087	F2A1A221B161	220uF 10V	1	
	C2089	F2A1A101B138	100uF 10V	1	
	C2090	F1J1A106A043	10uF 10V	1	
	C2092	F1H1H472B047	4700pF 50V	1	
	C2094	F2A0J101A181	100uF 6.3V	1	
	C2096	F2A1E330B389	33uF 25V	1	
	C2097	F1H1H104B047	0.1uF 50V	1	
	C2098	F1H1H104B047	0.1uF 50V	1	
	C2099	F1H1E105A153	1uF 25V	1	
	C2102	F1J1A106A043	10uF 10V	1	
	C2103	F1H1H103B047	0.01uF 50V	1	
	C2104	F1K1H475A256	4.7uF 50V	1	
	C2105	F2A0J221B034	220uF 6.3V	1	
	C2107	F1H1H104B047	0.1uF 50V	1	
	C2109	F1K1H475A256	4.7uF 50V	1	
	C2110	F1J1A106A043	10uF 10V	1	
	C2111	F1H1E105A153	1uF 25V	1	
	C2112	F1H1E105A153	1uF 25V	1	
	C2187	F1H1H103A219	0.01uF 50V	1	
	C2188	F2A1C221B456	220uF 16V	1	
	C2191	F1H1H103A219	0.01uF 50V	1	
	C2500	F2A1C330B453	33uF 16V	1	AKX77PH, AKX77PN
	C2504	F1J1C106A059	10uF 16V	1	AKX77PH, AKX77PN
	C2508	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2509	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2521	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2522	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2523	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2524	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2525	F1H1H104B047	0.1uF 50V	1	
	C2526	F1H1H104B047	0.1uF 50V	1	
	C2527	F1H1H104B047	0.1uF 50V	1	
	C2528	F1H1H104B047	0.1uF 50V	1	
	C2529	F1H1H104B047	0.1uF 50V	1	
	C2530	F1H1H104B047	0.1uF 50V	1	
	C2541	F1H1H333B055	0.033uF 50V	1	
	C2542	F1H1H333B055	0.033uF 50V	1	
	C2543	F1H1H333B055	0.033uF 50V	1	
	C2544	F1H1H333B055	0.033uF 50V	1	
	C2545	F1H1H333B055	0.033uF 50V	1	AKX77PH, AKX77PN
	C2546	F1H1H333B055	0.033uF 50V	1	AKX77PH, AKX77PN
	C2547	F1H1H333B055	0.033uF 50V	1	AKX77PH, AKX77PN
	C2548	F1H1H333B055	0.033uF 50V	1	AKX77PH, AKX77PN
	C2549	F1H1H333B055	0.033uF 50V	1	
	C2550	F1H1H333B055	0.033uF 50V	1	
	C2551	F1H1H333B055	0.033uF 50V	1	
	C2552	F1H1H333B055	0.033uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2561	F1K1H105A138	1uF 50V	1	AKX77PH, AKX77PN
	C2562	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2563	F1H1H104B047	0.1uF 50V	1	AKX77PH, AKX77PN
	C2564	F1K1H105A138	1uF 50V	1	AKX77PH, AKX77PN
	C2571	F1K1H105A138	1uF 50V	1	AKX77PH, AKX77PN
	C2572	F1K1H105A138	1uF 50V	1	AKX77PH, AKX77PN
	C2597	F1J1H2240017	0.22uF 50V	1	
	C2598	F1J1H2240017	0.22uF 50V	1	
	C2599	F1J1H2240017	0.22uF 50V	1	
	C2600	F1J1H2240017	0.22uF 50V	1	
	C2601	F1J1H2240017	0.22uF 50V	1	
	C2602	F1J1H2240017	0.22uF 50V	1	
	C2603	F1J1H2240017	0.22uF 50V	1	
	C2604	F1J1H2240017	0.22uF 50V	1	
	C2607	F1J1H2240017	0.22uF 50V	1	AKX77PH, AKX77PN
	C2608	F1J1H2240017	0.22uF 50V	1	AKX77PH, AKX77PN
	C2631	F1J1A106A043	10uF 10V	1	
	C2632	F1J1A106A043	10uF 10V	1	
	C2633	F1H1E105A153	1uF 25V	1	
	C2646	F1H1H103B047	0.01uF 50V	1	
	C2647	F1H1H103B047	0.01uF 50V	1	
	C2648	F1H1H103B047	0.01uF 50V	1	
	C2649	F1H1H103B047	0.01uF 50V	1	
	C2650	F1H1H103B047	0.01uF 50V	1	
	C2651	F1H1H103B047	0.01uF 50V	1	
	C2656	F1H1H103B047	0.01uF 50V	1	
	C2657	F1H1H103B047	0.01uF 50V	1	
	C2658	F1H1H103B047	0.01uF 50V	1	AKX77PH, AKX77PN
	C2659	F1H1H103B047	0.01uF 50V	1	AKX77PH, AKX77PN
	C2662	D0GBR00J0004	0 1/10W	1	
	C2679	D0GBR00J0004	0 1/10W	1	
	C2682	F1H1H102B047	1000pF 50V	1	AKX77PH, AKX77PN
	C2683	F1H1H102B047	1000pF 50V	1	AKX77PH, AKX77PN
	C2684	F1H1H102B047	1000pF 50V	1	
	C2685	F1H1H102B047	1000pF 50V	1	
	C2686	F1H1H102B047	1000pF 50V	1	
	C2692	F1H1H102B047	1000pF 50V	1	
	C2693	F1H1H102B047	1000pF 50V	1	
	C2694	F1H1H102B047	1000pF 50V	1	
	C2695	F1H1H102B047	1000pF 50V	1	
	C2701	F1J1C106A059	10uF 16V	1	
	C2706	F1K1H105A138	1uF 50V	1	
	C2707	F1K1H105A138	1uF 50V	1	
	C2708	F1H1H104B047	0.1uF 50V	1	
	C2709	F1H1H104B047	0.1uF 50V	1	
	C2710	F1J1C106A059	10uF 16V	1	
	C2711	F1H1H104B047	0.1uF 50V	1	
	C2712	F1H1H104B047	0.1uF 50V	1	
	C2713	F1H1H104B047	0.1uF 50V	1	
	C2714	F1H1H104B047	0.1uF 50V	1	
	C2715	F1H1H104B047	0.1uF 50V	1	
	C2716	F1H1H104B047	0.1uF 50V	1	
	C2721	F1K1H105A138	1uF 50V	1	
	C2722	F1K1H105A138	1uF 50V	1	
	C2723	F1H1H104B047	0.1uF 50V	1	
	C2724	F1H1H104B047	0.1uF 50V	1	
	C2744	F1K1H105A138	1uF 50V	1	
	C2745	F1K1H105A138	1uF 50V	1	
	C2746	F1K1H105A138	1uF 50V	1	
	C2747	F1K1H105A138	1uF 50V	1	
	C2750	ECQV1H474JL3	0.47uF 50V	1	
	C2751	ECQV1H474JL3	0.47uF 50V	1	
	C2752	ECQV1H474JL3	0.47uF 50V	1	
	C2753	ECQV1H474JL3	0.47uF 50V	1	
	C2754	ECQV1H474JL3	0.47uF 50V	1	AKX77PH, AKX77PN
	C3000	F1H1H104B047	0.1uF 50V	1	
	C3001	F1H1E105A153	1uF 25V	1	
	C3002	F1H1H104B047	0.1uF 50V	1	
	C3003	F1G1C104A077	0.1uF 16V	1	
	C3004	F1H1H104B047	0.1uF 50V	1	
	C3005	F1H1H104B047	0.1uF 50V	1	
	C3200	F1H1H473B047	0.047uF 50V	1	
	C3201	F1H1H473B047	0.047uF 50V	1	
	C3207	F1H1H473B047	0.047uF 50V	1	
	C3208	F1J1A106A043	10uF 10V	1	
	C3209	F1H1H473B047	0.047uF 50V	1	
	C3210	F1H1E105A153	1uF 25V	1	
	C3211	F1H1E105A153	1uF 25V	1	
	C3212	F2A1C100A234	10uF 16V	1	
	C3214	F2A1C100A234	10uF 16V	1	
	C3215	F1H1H103B047	0.01uF 50V	1	
	C3218	F1H1H180A230	18pF 50V	1	
	C3219	F1J1A106A043	10uF 10V	1	
	C3223	F1H1H470B052	47pF 50V	1	
	C3224	F1H1H470B052	47pF 50V	1	
	C3300	F2A1H1020067	1000uF 50V	1	
	C3302	F1H1H562B047	5600pF 50V	1	
	C3303	F1H1H103B047	0.01uF 50V	1	
	C3306	F1K1E106A078	10uF 25V	1	
	C3307	F2A0J102A247	1000uF 6.3V	1	
	C3308	F1H1H104B047	0.1uF 50V	1	
	C3309	F1H1H104B047	0.1uF 50V	1	
	C3310	F1H1H104B047	0.1uF 50V	1	
	C3351	F1H1H104B047	0.1uF 50V	1	
	C3402	F2A0J221B034	220uF 6.3V	1	
	C3403	F1H1E105A153	1uF 25V	1	
	C3404	F1H1E105A153	1uF 25V	1	
⚠	C5701	F0CAF104A105	0.1uF	1	
⚠	C5702	F0CAF104A105	0.1uF	1	AKX57PN, AKX77PH
⚠	C5702	F0CAF224A105	0.22uF	1	AKX77PN
⚠	C5703	F0CAF104A105	0.1uF	1	AKX57PN, AKX77PH
⚠	C5703	F0CAF224A105	0.22uF	1	AKX77PN
⚠	C5704	F1BAF471A013	470pF	1	
⚠	C5705	F1BAF471A013	470pF	1	
⚠	C5706	F1BAF471A013	470pF	1	
⚠	C5707	F1BAF471A013	470pF	1	
⚠	C5708	F1BAF471A013	470pF	1	
	C5709	F1H1H102B047	1000pF 50V	1	
	C5711	F2B2E5610014	560uF 250V	1	
	C5712	F2B2E5610014	560uF 250V	1	
	C5713	F0C3A4720001	4700pF 1000V	1	
	C5720	F1H1H101B052	100pF 50V	1	
	C5721	F1H1H221B047	220pF 50V	1	
	C5722	F1H1H102B047	1000pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5724	F2A1H5600009	56uF 50V	1	
	C5725	F1H1H104B047	0.1uF 50V	1	
	C5726	F1H1H104B047	0.1uF 50V	1	
	C5728	F1H1H102B047	1000pF 50V	1	
	C5730	F1H1E105A153	1uF 25V	1	
	C5737	F1B3D272A084	2700pF 2000V	1	
	C5790	F1K2J2220002	2200pF 630V	1	
	C5794	F1H1H102B047	1000pF 50V	1	
	C5795	F1K1H105A251	1uF 50V	1	
	C5796	F1H1H104B047	0.1uF 50V	1	
	C5798	F2A1E221B422	220uF 25V	1	
	C5800	D0GDR00J0004	0 1/8W	1	
	C5808	F2A1H472C089	4700uF 50V	1	AKX57PN
	C5808	F2A1H682C089	6800uF 50V	1	AKX77PH, AKX77PN
	C5812	F1H1H104B047	0.1uF 50V	1	
	C5813	F2A1J3310032	330uF 63V	1	
	C5817	F2A1HR10B411	0.10uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5818	F1H1H104B047	0.1uF 50V	1	
	C5826	D0GDR00J0004	0 1/8W	1	
	C5832	F1H1H104B047	0.1uF 50V	1	
	C5839	F1K2J1030001	0.01uF 630V	1	
	C5842	F1K2J1030001	0.01uF 630V	1	
	C5895	F1H1H104B047	0.1uF 50V	1	
	C5896	F1H1H104B047	0.1uF 50V	1	
	C5897	F1H1H103B047	0.01uF 50V	1	
	C5898	F1H1H104B047	0.1uF 50V	1	
	C5899	F2A1A221B161	220uF 10V	1	
	C5900	F1J1A106A043	10uF 10V	1	
	C6002	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	
	C6023	F2A1H470B412	47uF 50V	1	
	C6024	F2A1C101A115	100uF 16V	1	
	C6025	F1H1H104B047	0.1uF 50V	1	
	C6026	F2A1H220B411	22uF 50V	1	
	C6101	F1H1H101B052	100pF 50V	1	
	C6102	F1H1H101B052	100pF 50V	1	
	C6201	F1H1H101B052	100pF 50V	1	
	C6202	F1H1H101B052	100pF 50V	1	
	C6317	F1H1H104B047	0.1uF 50V	1	
	C6318	F1H1H331B052	330pF 50V	1	
	C6319	F1H1H331B052	330pF 50V	1	
	C6320	F1H1H103B047	0.01uF 50V	1	
	C6321	F1H1H103B047	0.01uF 50V	1	
	C6322	F1H1H104B047	0.1uF 50V	1	
	C6323	F1H1H391A889	390pF 50V	1	
	C6500	F1H1H101B052	100pF 50V	1	
	C6501	F1H1H102A219	1000pF 50V	1	
	C6502	F2A1C330B453	33uF 16V	1	
	C7035	F1J1A106A043	10uF 10V	1	
	C7231	F1H1C104A120	0.1uF 16V	1	
	C7232	F1H1C104A120	0.1uF 16V	1	
	C7233	F1H1C104A120	0.1uF 16V	1	
	C7234	F1H1C104A120	0.1uF 16V	1	
	C7235	F1H1C104A120	0.1uF 16V	1	
	C7236	F1J1A106A043	10uF 10V	1	
	C7237	F2A0J221B034	220uF 6.3V	1	BT
	C8007	F1H1A334A025	0.33uF 10V	1	
	C8008	F1H1H223A219	0.022uF 50V	1	
	C8009	F1H1H680A230	68pF 50V	1	
	C8010	F1G1A1040006	0.1uF 10V	1	
	C8011	F1H1C104A008	0.1uF 16V	1	
	C8012	F1G1A1040006	0.1uF 10V	1	
	C8013	F2A0J101A181	100uF 6.3V	1	
	C8014	F1H1H103A885	0.01uF 50V	1	
	C8015	F1G1H120A565	12pF 50V	1	
	C8016	F1G1H120A565	12pF 50V	1	
	C8017	F1J1A106A043	10uF 10V	1	
	C8018	F1H1A334A028	0.33uF 10V	1	
	C8019	F1H1H102A219	1000pF 50V	1	
	C8020	F1H1H681B047	680pF 50V	1	
	C8021	F1H1C823A178	0.082uF 16V	1	
	C8022	F1H0J4750005	4.7uF 6.3V	1	
	C8027	F1H1H102A219	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C8028	F1H1C104A008	0.1uF 16V	1	
	C8029	F1G1A1040006	0.1uF 10V	1	
	C8031	F1G1A1040006	0.1uF 10V	1	
	C8032	F1H1C104A008	0.1uF 16V	1	
	C8033	F1H1C104A008	0.1uF 16V	1	
	C8034	F1H1C104A008	0.1uF 16V	1	
	C8035	F1G1A1040006	0.1uF 10V	1	
	C8036	F1G1A1040006	0.1uF 10V	1	
	C8037	F1H1C104A008	0.1uF 16V	1	
	C8038	F1H1C104A008	0.1uF 16V	1	
	C8039	F1H1C104A008	0.1uF 16V	1	
	C8040	F1G1A1040006	0.1uF 10V	1	
	C8041	F1H1C104A008	0.1uF 16V	1	
	C8042	F1H1C104A008	0.1uF 16V	1	
	C8043	F1H1C104A008	0.1uF 16V	1	
	C8044	F1H0J4750005	4.7uF 6.3V	1	
	C8045	F1G1A1040006	0.1uF 10V	1	
	C8046	F1H1C104A008	0.1uF 16V	1	
	C8047	F1H1H153A885	0.015uF 50V	1	
	C8048	F1H1C104A008	0.1uF 16V	1	
	C8049	F1J1A106A043	10uF 10V	1	
	C8050	F1H1A105A025	1uF 10V	1	
	C8051	F1H1A105A004	1uF 10V	1	
	C8052	F1H1C104A120	0.1uF 16V	1	
	C8053	F1H1C104A120	0.1uF 16V	1	
	C8054	F1H1A105A004	1uF 10V	1	
	C8055	F1H1C104A120	0.1uF 16V	1	
	C8056	F1H1C104A120	0.1uF 16V	1	
	C8057	F1H1H103A885	0.01uF 50V	1	
	C8058	F1G1A1040006	0.1uF 10V	1	
	C8059	F1G1A1040006	0.1uF 10V	1	
	C8060	F1H1A105A025	1uF 10V	1	
	C8061	F1G1A1040006	0.1uF 10V	1	
	C8064	F1J1A106A043	10uF 10V	1	
	C8065	F1J1A106A043	10uF 10V	1	
	C8067	F1J1A106A043	10uF 10V	1	
	C8068	F1H1H332B047	3300pF 50V	1	
	C8069	F1H1H332B047	3300pF 50V	1	
	C8070	F1J1A106A043	10uF 10V	1	
	C8075	F1J1A106A043	10uF 10V	1	
	C8076	F1J1A106A043	10uF 10V	1	
	C8077	F1H1C104A120	0.1uF 16V	1	
	C8078	F1J1A106A043	10uF 10V	1	
	C8079	F1H1C104A008	0.1uF 16V	1	
	C8201	F1J1A106A043	10uF 10V	1	
	C8202	F1H1C104A008	0.1uF 16V	1	
	C8203	F1H1H103A885	0.01uF 50V	1	
	C8204	F1J1A106A043	10uF 10V	1	
	C8251	F1J1A106A043	10uF 10V	1	
	C8252	F1H1H103A885	0.01uF 50V	1	
	C8253	F1H1A154A107	0.15uF 10V	1	
	C8254	F1H1H153A885	0.015uF 50V	1	
	C8255	F1H1H182A219	1800pF 50V	1	
	C8256	F1H1H102A219	1000pF 50V	1	
	C8258	F1H1H122A219	1200pF 50V	1	
	C8259	F1J1A106A043	10uF 10V	1	
	C8260	F1H1H103A885	0.01uF 50V	1	
	C8261	F1H1A105A025	1uF 10V	1	
	C8262	F2A1A101B138	100uF 10V	1	
	C8263	D0GBR00J0004	0 1/10W	1	
	C8401	F1J1A106A043	10uF 10V	1	
	C8402	F2A0J101A181	100uF 6.3V	1	
	C8403	F1H1H103A885	0.01uF 50V	1	
	C8501	F1J1A106A043	10uF 10V	1	
	C8502	F1H1A105A025	1uF 10V	1	
	C8503	F1H1A105A025	1uF 10V	1	
	C8504	F1G1A1040006	0.1uF 10V	1	
	C8505	F1G1A1040006	0.1uF 10V	1	
	C8506	F1G1A1040006	0.1uF 10V	1	
	C8507	F1G1A1040006	0.1uF 10V	1	
	C8508	F1G1A1040006	0.1uF 10V	1	
	C8509	F1G1A1040006	0.1uF 10V	1	
	C8510	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C8511	F1G1A1040006	0.1uF 10V	1	
	C8512	F1G1A1040006	0.1uF 10V	1	
	C8513	F1H0J4750005	4.7uF 6.3V	1	
	C8514	F1H0J4750005	4.7uF 6.3V	1	