PSG1004040CE

Service Manual

CD Stereo System

Model No. SA-AKX70PH
SA-AKX70PN

Product Color: (K)...Black Type

Notes: Please refer to the original service manual for:
- **CD Mechanism Unit (DLS6C), Order No. MD0803034CE**
- **Speaker system SB-AKX70PN-K, Order No. PSG1004001CE**

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

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 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.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

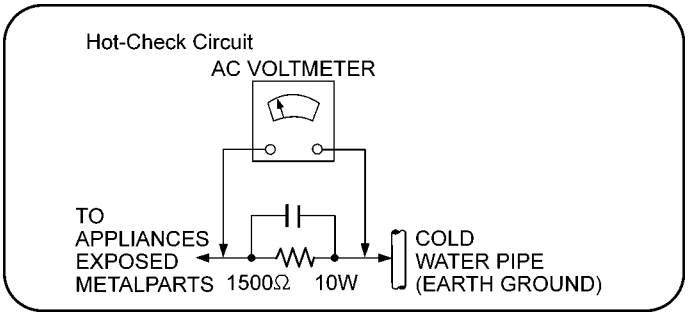


Figure 1

1.2. Before Use (For PH only)

Be sure to disconnect the mains cord before adjusting the voltage selector.
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. (If the power supply in your area is 110V ~ 127V or 220V ~ 240V, set to the “110V ~ 127V or 220V ~ 240V” position.)
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.)

1.3. 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: LITTELFUSE, INC, Type: 215, F1, T8AH, 250V) (For PH only)

1.4. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5701, 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 V, 60 Hz in NO SIGNAL mode at volume minimum should be ~ 850 mA. (PN)

Current consumption at AC 110~127 V / 220~240 V, 50/60 Hz in NO SIGNAL mode at volume minimum should be ~ 600 mA. (PH)

1.5. 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.

1.6. 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
⚠	6	REXX1030	1P RED WIRE (VOLTAGE-SMPS)	PH
⚠	7	REXX1031	1P BLACK WIRE (VOLTAGE-SMPS)	PH
⚠	13	RGRX1002H-A	REAR PANEL	PN
⚠	13	RGRX1002J-A	REAR PANEL	PH
⚠	37	RKMX1003-K1	TOP CABINET	
⚠	401	RAEX0190Z-V	TRAVERSE UNIT	
⚠	A2	K2CB2CB00021	AC CORD	PN
⚠	A2	K2CQ2CA00007	AC CORD	PH
⚠	A3	RQTX1092-1M	O/I BOOK (Sp/En)	PN
⚠	A3	RQTX1093-1M	O/I BOOK (Sp)	PH
⚠	PCB3	REPX0809D	SMPS P.C.B.	(RTL) PN
⚠	PCB3	REPX0809G	SMPS P.C.B.	(RTL) PH
⚠	PCB4	REPX0809G	VOLTAGE SELECTOR P.C.B.	(RTL) PH
⚠	DZ5701	ERZV10V511CS	ZNR	
⚠	S5701	K0ABCA000007	SW VOLTAGE SELECTOR	PH
⚠	L5703	G0B612H00002	LINE FILTER	PN
⚠	L5703	G0B932H00002	LINE FILTER	PH
⚠	T5701	ETS42AD4VGAD	TRANSFORMER	PN
⚠	T5701	G4DYZ0000049	TRANSFORMER	PH
⚠	T5751	ETS19AB2E6AG	SUB TRANSFORMER	
⚠	T6000	G4DYA0000214	SWITCHING TRANSFORMER	
⚠	PC5701	B3PBA0000402	PHOTO COUPLER	
⚠	PC5702	B3PBA0000402	PHOTO COUPLER	
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	
⚠	PC5799	B3PBA0000402	PHOTO COUPLER	
⚠	F1	K5D802APA008	FUSE	PN
⚠	F1	K5D802BNA005	FUSE	PH
⚠	TH5702	D4CAA2R20001	THERMISTOR	
⚠	TH5860	D4CC11040013	THERMISTOR	
⚠	P5701	K2AA2B000011	AC INLET	PH
⚠	P5701	K2AB2B000007	AC INLET	PN
⚠	C5701	F0CAF334A105	0.33uF	
⚠	C5703	F0CAF104A105	0.1uF	PH
⚠	C5703	F0CAF224A105	0.22uF	PN

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	C5704	F1BAF1020020	1000pF	
⚠	C5705	F1BAF1020020	1000pF	
⚠	C5706	F1BAF1020020	1000pF	PH
⚠	C5707	F1BAF1020020	1000pF	PH
⚠	C5708	F1BAF1020020	1000pF	

2 Warning

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

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as 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).

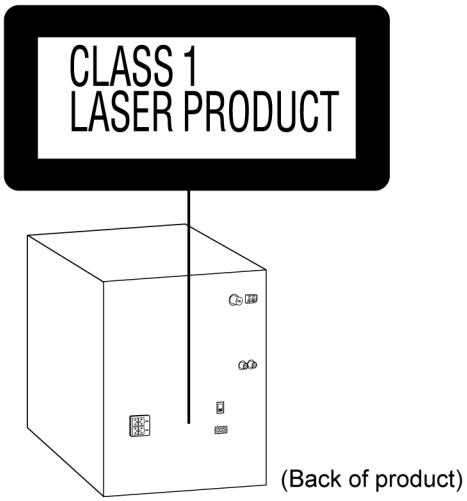
2.2. Precaution of Laser Diode

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

Caution:

This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wavelength: 785 nm (CD)
Maximum output radiation power from pickup: 100 μW/VDE
Laser radiation from the pickup unit is safety level, but be sure the followings:

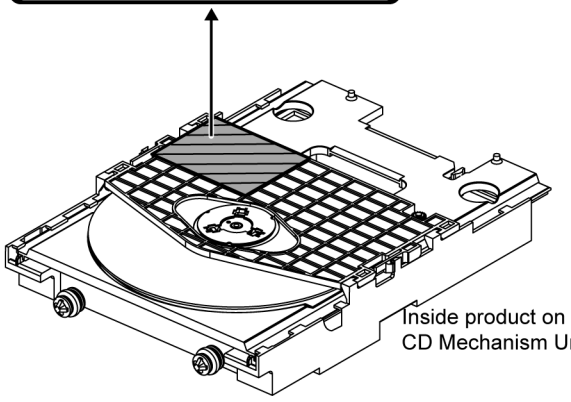
1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



(Back of product)

LASER CAUTION LABEL

CAUTION	– CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M
VARNING	– KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	– USYNLIG LASERSTRÅLING KLASSE 1M, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	– AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	– UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	– RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
PRECAUCIÓN	– RADIACIÓN LASER INVISIBLE DE CLASE 1M AL ESTAR ABIERTO. NO VEA DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS.
注意	– ここを開くと不可視レーザ光が出ます。 ビームを見たり、触れたりしないでください。
注意	– 打开时有不可见激光辐射，避免光束照射。 GB7241. 1-2001/3B 类 RQLXS0105



Inside product on
CD Mechanism Unit (DLS6C)

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%

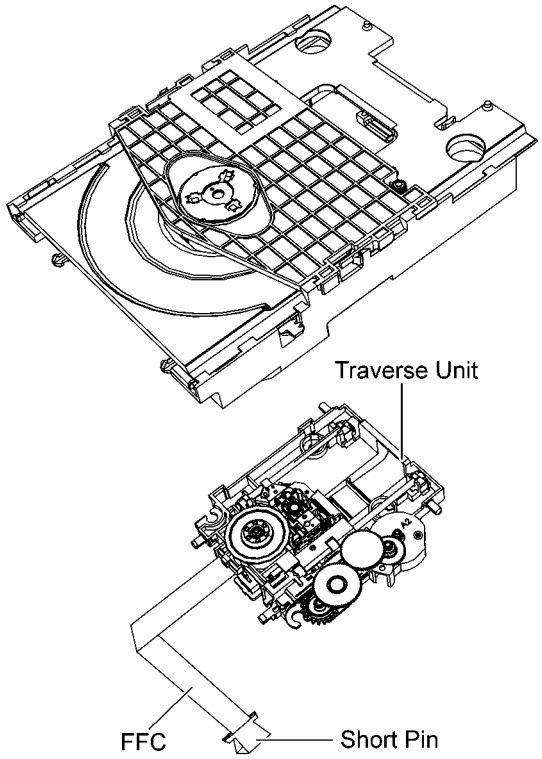
2.4. Handling Precautions for Traverse Unit

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

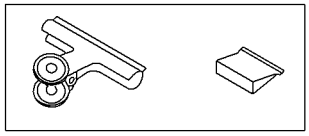
2.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit

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

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



[Caution]
Ground the cable with a clip or a short pin.



Clip or Short Pin

2.4.2. Grounding for electrostatic breakdown prevention

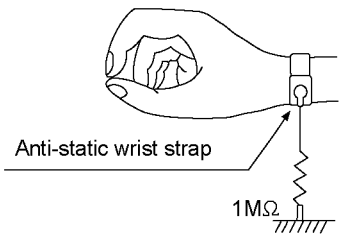
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

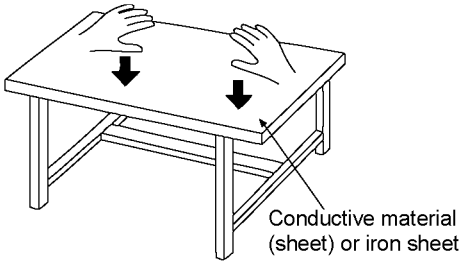
2.4.2.1. Worktable grounding

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

2.4.2.2. Human body grounding

1. Use the anti-static wrist strap to discharge the static electricity form your body.





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.

- **CD Mechanism Unit (DLS6C):**

1) This model uses CD Mechanism Unit (DLS6C).

- **Micro-processor:**

1) The following components are supplied as an assembled part.
   - Micro-processor IC, IC2003 (RFKWMAKX70PN)

- **Speaker System:**

1) This model uses Speaker System, SB-AKX70PN-K.

4 Specifications

■ **AMPLIFIER SECTION**

RMS output power stereo mode

Front Hi (both channels driven)
140 W per channel (4 Ω), 1 kHz, 10% THD

Front Low (both channels driven)
160 W per channel (3 Ω), 1 kHz, 10% THD

Subwoofer ch
250 W per channel (8 Ω), 100 Hz, 10% THD

Total RMS stereo mode power
850 W

PMPO output power (For PN only)
9400 W

■ **FM/AM TUNER, TERMINALS SECTION**

Preset station FM 30 stations
AM 15 stations

Frequency Modulation (FM)

Frequency range
For PH only
87.50 to 108.00 MHz (50 kHz step)
For PN only
87.9 to 107.9 MHz (200 kHz step)
87.5 to 108.0 MHz (100 kHz step)

Antenna terminal (s)
75 Ω (unbalanced)

Amplitude Modulation (AM)

Frequency range
For PH only
522 to 1629 kHz (9 kHz step)
520 to 1630 kHz (10 kHz step)
For PN only
520 to 1710 kHz (10 kHz step)

AUX Input
RCA pin jack

Headphone jack
Terminal Stereo, 3.5 mm jack
Output level (CD,1 KHz, -20dB) 32 Ω(Max)

Music port (front)
Sensitivity 100 mV, 4.7 kΩ
Terminal Stereo, 3.5 mm jack

Mic Jack
Sensitivity 0.7 mV, 1.1 kΩ
Terminal Mono, 3.5 mm jack (1 system)

■ **DISC SECTION**

Discs played (8 cm or 12 cm)
(1) CD-Audio (CD-DA)
(2) CD-R/RW (CD-DA, MP3* formatted disc)
(3) MP3*
*MPEG-1 layer 3,MPEG-2 Layer 3

Pick up
Wavelength 795 nm(CD)
Laser Power CLASS 1 (CD)

Audio output (Disc)
Number of channels 2 (FL, FR)
FL = Front left channel
FR = Front right channel

■ **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 / 192 kbps / 320 kbps
USB recording speed 1x,4x (CD only)
recording file format MP3 (*.mp3)

Memory section

Memory
Memory size 2 GB
Memory File format MP3 (*.mp3)

Memory recording
Bit Rate 128 kbps / 192 kbps / 320 kbps
Memory Recording speed 1x,4x, (CD only)
Recording file format MP3 (*.mp3)
Capacity of total song recoreded 510 song
(Use 128 kbps, approximately 1 song = 4 mins)

■ **GENERAL**

Power supply
For PH only
AC 110 to 127 V, 220 to 240 V, 50/60 HZ
For PN only
AC 120 V, 60 Hz

Power Consumption
For PH only
142 W
For PN only
119 W

Dimensions (W x H x D) 250 mm x 336 mm x 249 mm
Mass 3.6 kg
Operating temperature range 0 °C to +40 °C
Operating humidity range 35% to 80% RH (no condensation)

Power Consumption in standby mode
For PH only 0.3 W (Approximate)
For PN only 0.2 W (Approximate)

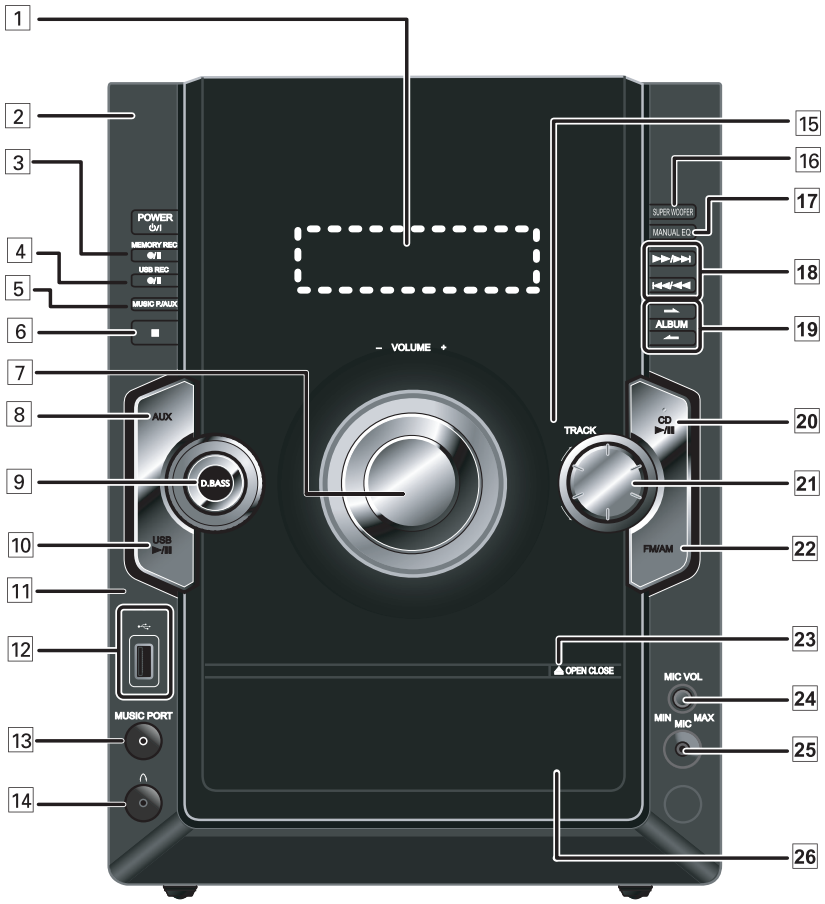
Notes
1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ System: SC-AKX70PN-K
Main Unit: SA-AKX70PN-K
Front Speakers: SB-AKX70PN-K

■ System: SC-AKX70PH-K
Main Unit: SA-AKX70PH-K
Front Speakers: SB-AKX70PN-K

5 Location of Controls and Components

5.1. Main Unit Key Button Operation



1 **Display Panel**

2 **Standby/on switch (⏻/I, POWER)**
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.

3 Memory recording or pause.

4 USB recording or pause

5 Music Port/AUX selection

6 [■]
Stop function

7 **Volume Control**

8 Memory play or pause

9 D.BASS Selection

10 **[USB,►/II]**
USB play or pause

11 USB recording indicator

12 **USB port**

13 Music Port Jack

14 Headphone jack ∩
Avoid listening for prolonged periods of time to prevent hearing damage.
Excessive sound pressure from earphones and headphones can couse hearing loss.
Plug type:∅3.5mm stereo (not included)

15 **Remote control signal sensor**

16 **Super Woofer** selection

17 **[MANUAL EQ]** selection

18 [⏮/ ◀◀][▶▶ / ⏭]
Track skip or search,
fast-forward or rewind,
tune or preset channel selection,
sound quality adjustment,
manual EQ setting (BASS & TREBLE)

19 **Album selection**

20 **[CD, ►/II]**
Disc play and pause

21 **[Track]**
Skip and play your desired track

22 **Tuner (FM/AM) Selection**

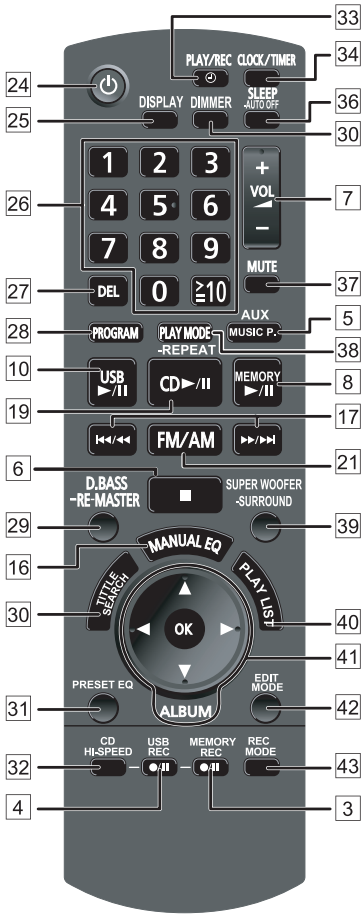
23 **[⏏, OPEN/CLOSE]**
Disc tray open or close

24 Microphone Volume Control

24 Microphone Jack

26 Disc tray

5.2. Remote Control Key Button Operation



3 Memory recording or pause

4 USB recording or pause

5 Music port / AUX selection

6 Stop playback

7 Volume control

8 Memory play or pause

10 USB play or pause

16 Manual EQ Selection

17 [⏮ / ◀◀][▶▶ / ⏭]
Track skip or search,
fast-forward or rewind,
tune or preset channel selection,
sound quality adjustment,
manual EQ setting (BASS & TREBLE)

19 Disc play and pause

21 Tuner (FM/AM) selection

24 **Standby/on switch (⏻/I, POWER)**
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.

25 Display function

26 Numberic selection

27 Delete function

28 Program function

29 D.Bass RE-MASTER selection

30 Title Search function

31 **Preset EQ**
Changing the sound quality

32 CD 2 USB high-speed recording function

33 Play timer or record timer setting

34 Clock or timer setting

35 Sleep timer / Auto off

36 **[DIMMER]**
To dim the display panel

37 Muting function

38 Play Model Function

39 Super woofer selection/ Surround selection

40 Play list function

41 Album selection

42 Edit mode selection

43 Recording Mode Selection

5.3. Media Information

NOTE about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

NOTE on MP3

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

Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

NOTE on CDs

- This unit can access up to 99 tracks.
- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

6 Self-Diagnostic and Special Mode Setting

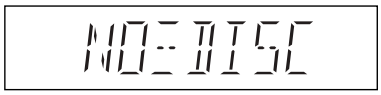
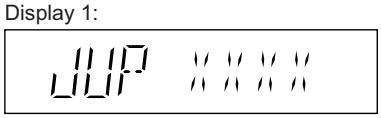
6.1. Cold-Start

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

6.2. Doctor Mode Table

6.2.1. Doctor Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode		1.In CD Mode: Press [■] button on main unit follow by [4] and [7] on remote control. 2.To exit, press [OK] button on remote control or press [POWER, ⏻ /I] button on main unit or remote control.
Micro-P Version Display	To check the firmware version for Jupiter & Microprocessor IC. Display 1 will display for 2 secs, followed by display 2.	Display 1:  Jupiter Micro-P Version Display 2:  Micro-processor Version	In Doctor Mode: 1.Press [2] button on remote control.

6.2.2. Doctor Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Cold Start	To active cold start upon next AC power up when reset start is execute the next time.	-- -- -- -- -- -- -- --	In Doctor Mode: 1. Press [DISPLAY] button on remote control.
Volume Setting Check	To check the volume setting of a main unit.	VOL 00 Volume Press [7]: VOLUME50 Press [8]: VOLUME35 Press [9]: VOLUME0 Press [PLAY MODE]: VOLUME30	In Doctor Mode: 1. Press [7],[8],[9], [PLAY MODE] button on remote control.
FL Display Check	To check the FL segment display All segment will light up while all LED blink at 0.5s,intervals.(if any)	M.EQ D.BASS TAG MONO ST RDS AUTO OFF MEMORY USB REC MP3 ALL 1-ALB 1-TR RND PGM SLEEP REC PLAY	In Doctor mode: 1. Press [1] button on remote control.
CD Open Check	To excute CD OPEN operation.	CD OPEN	In Doctor mode: 1. Press [DEL] button on remote control.
DLS6 Reliability Test (Loading)	To determine DLS6 Open/Close operation. In this mode, the tray will open & close. Note: Refer to Section 6.3 Fig 1 for process flow.	0000-0000 The counter will increment by one. When reach 9999 will change to 0000	In Doctor Mode: 1.Press [>10], follow by [1] and [1] buttons on remote control.

6.3. Reliability Test Mode (CD Mechanism Unit (DLS6C))

Below is the process flow chart of the aging test for the CD Mechanism Unit (DLS6C).

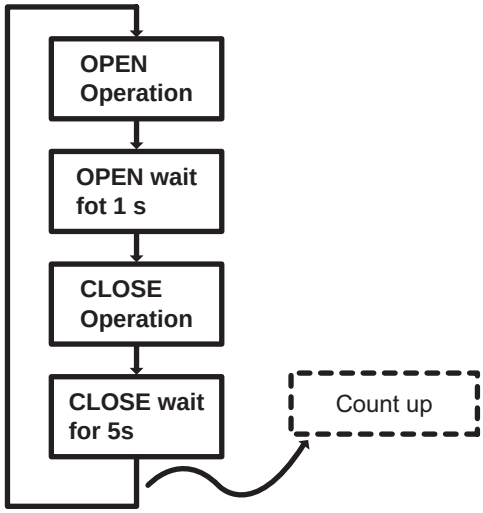
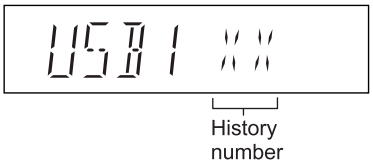
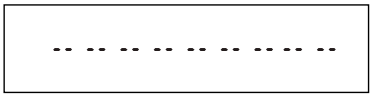


Fig. 1. Reliability Test (Loading)

6.4. Self-Diagnostic Mode

Mode Name	Item Description	FL Display	Key Operation Front Key
Service Mode	To enter into Service Mode		In CD Mode: 1.Press and hold [■-DEMO] button on main unit for 2 secs. 2.Do not release [■-DEMO] button, press & hold [▶▶/ ▶▶I] on the remote control for 2 secs. 3.To exit, press [POWER, ⏻/I] button on main unit.
Error Code History	Chacking the records for Error Code. If there's no error code.Display will remain as[T]		In Service Mode: 1.Press [1] button on remote control. 2.To clear history,press & hold [0] for 5 seconds or more
Software Display Version.	To check for following: 1)System Version.		In Service Mode: 1.Press[2] button on remote control.
	2)Jupiter Micro-processor Version.		2.Press[2] button on remote control.
	3) Opecon Version.		3.Press[2] button on remote control.
USB Error Code History	To check for USB error Codes.	 History number	In Service Mode: 1.Press[5] button on remote control. 2.To clear history,press & hold [0] for 5 seconds or more.
Cold Start	To reset to default setting.		In service Mode: 1.Press[3] button on remote control for 2 secs.

6.5. Self-Diagnostic Error Code Table

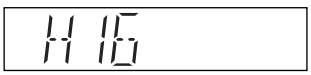
Self-Diagnostic Function (Refer Section 6.4. Self-Diagnostic Mode) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

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

6.5.1. 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, PCNT=HIGH, DCDET2=L after checking LSI.		Press [■-DEMO] on main unit for next error.
F76		DCDET1 = L (NG)		
F61-76		Both DCDET1 and DCDET2 □L□(NG)		

6.5.2. Mechanism Error Code Table (CD Mechanism Unit (DLS6C))

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F15	CD REST SW Abnormal	CD traverse position initial setting operation fail safe time is over (10 sec) waiting for REST SW to turn on.		Press [■/-DEMO] on main unit for next error.
F26	Communication between CD servo LSI and micro-p abnormal.	At the time of switching to CD function,SENSE = H shall be detected using DTMS system setting command. If the error is memorized when SENSE = L is not detected within fail safe timer time (20ms), [F26] shall be displayed simultaneously.This display shall be retained if the power is ON and at CD function. If this error occurs, CD operation afterwards shall not be executed as in the case of [NO DISC].	 	Press [■/-DEMO] on main unit for next error.
H15	CD Open SW Abnormal	During normal operation CD OPEN SW On fail to be detected with 3 sec.		Press [■/-DEMO] on main unit for next error.
H16	CD closing SW abnormal	During Closing operation,if "POS_SW_CEN" is not detected within 3 sec.		Press [■ /-DEMO]on main unit for next error.

7 Troubleshooting Guide

7.1. Troubleshooting Guide for F61 and/ or F76

This section illustrates the checking procedures when upon detecting the error of “F61” and “F76” after power up of the unit.It is for purpose of troubleshooting and chaking in SMPS,D-Amp & Main P.C.B..

Symptom	Checking Items		Possible Fault(s)		Remarks
Set cannot ON	1	AC Cord	1	Faulty AC Cord, Loose connection	Refer to section 7.2.1 Fig.1 SMPS P.C.B..
	2	AC Inlet, P5701	2	P5701 solder crack, dry joint.	
	3	Fuse, F1	3	Fuse, F1 Open	
	4	Photocoupler	4	PC5702/PC5799 solder crack.	
		PC5702, PC5799		Dry joint, short circuit, open circuit.	
	5	Switching IC, IC5701	5	IC5701 Faulty.	
	6	Switching IC, IC5799	6	IC5799 Faulty.	
Set can ON then F61	1	Speaker Output	1a	Faulty speaker unit, Loose connection, Short.	Refer to section 7.2.3 Fig 3 D-Amp P.C.B..
			1b	Check output IC (Pin 10 & 14) which have DC Voltage	
				at speaker output short to ± Vdd/Vss.	
	2	D-AMP circuit	2a	D-Amp IC5000, IC5200, IC5400 defective.	
				Check PWM output at pin 10, 14 of D-Amp IC.	
				Check + VDD/SS supply at pin 4 & 20 of D-Amp IC.	
				Check pin 1 (OSC) & pin 23 (MODE) of D-Amp IC.	
				Check pattern crack and solderability.	
Set can ON then F76	1	Transformer T5701	1a	Short circuit between Pin 14 and Pin 15.	Refer to section 7.2.1 Fig.1 SMPS P.C.B..
			1b	Short circuit between Pin 15 and Pin 16.	
			1c	Short circuit between Pin 16 and Pin 17.	
	2	DC-DC Circuit	2a	Check cable wire connection between connector	Refer to section 7.2.2 Fig.2 Main P.C.B..
				CN2014(At Main P.C.B) & connector CN5802	
				(At SMPS P.C.B)	
			2b	Voltage regulator IC (IC2010) & DC/DC Converter IC	
				(IC2011) faulty.	
	3	Photocoupler	3	PC5720 solder crack.	Refer to section 7.2.1 Fig.1 SMPS P.C.B..
		PC5720		dry joint, short circuit, open circuit.	
Set can ON working normally for some time then F76	1	Rectifier D5801	1a	Improper contact between D5801 to Heatsink	
		Rectifier D5802		Improper contact between D5802 to Heatsink	
	2	Thermistor TH5860	1b	Set trigger temperature protection.	

7.2. Part Location

7.2.1. SMPS P.C.B.

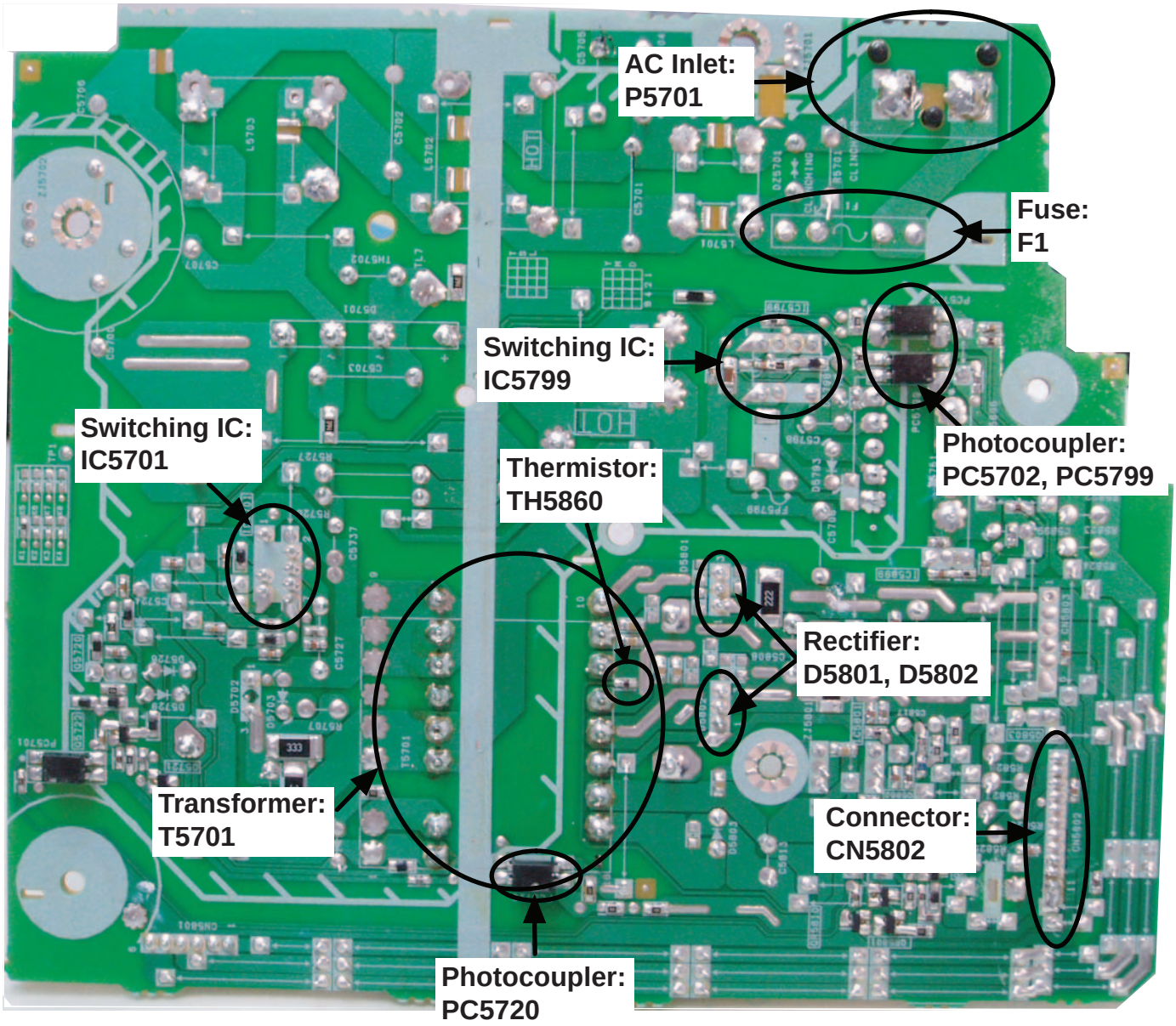


Fig. 1 SMPS P.C.B.

7.2.2. Main P.C.B.

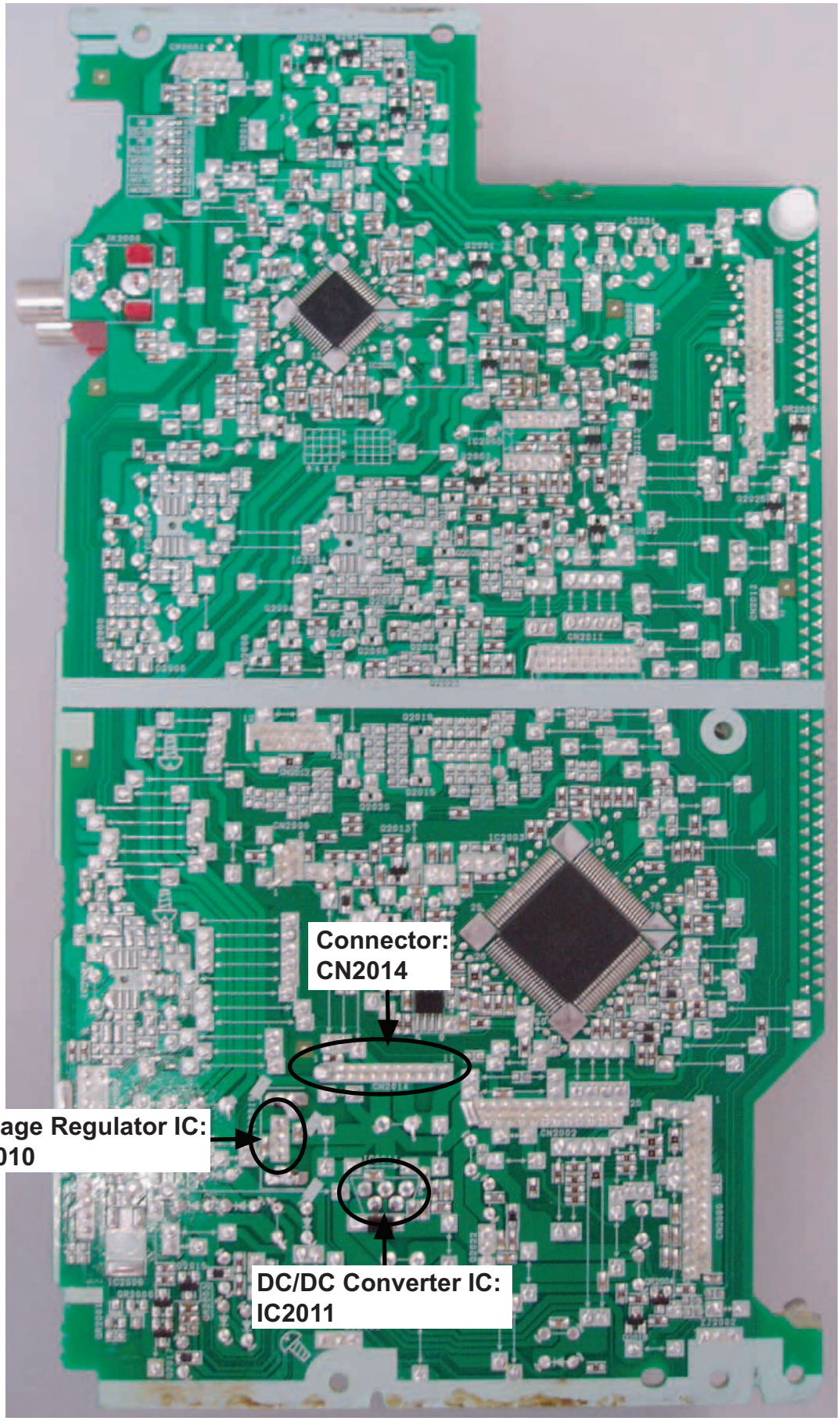


Fig. 2 Main P.C.B.

7.2.3. D-Amp P.C.B.

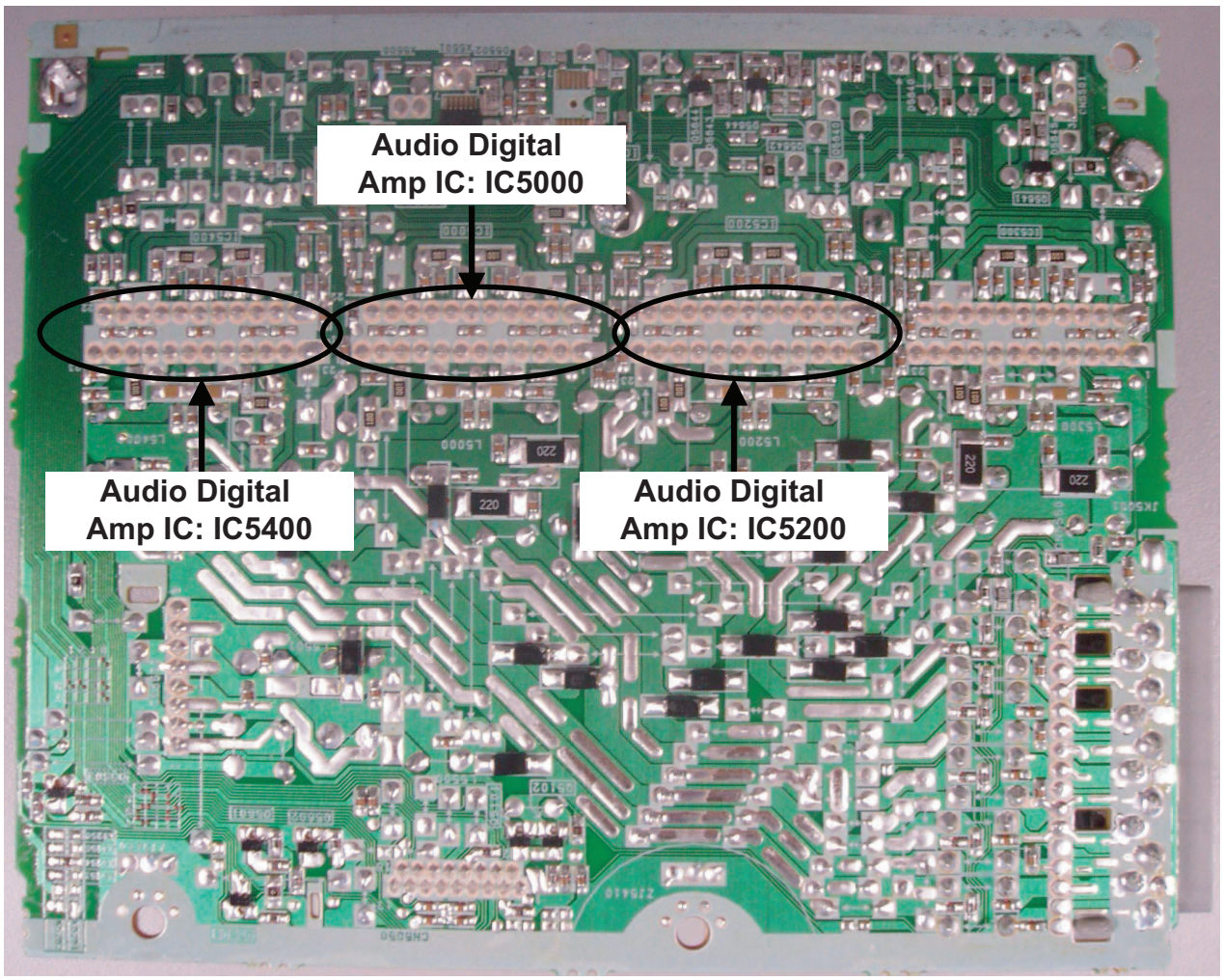


Fig. 3 D-Amp P.C.B.

7.3. D-Amp IC Operation & Control

D-AMP IC Operation & Control

1) D-AMP IC (C1AB00000497) was used for this model.
2) Three control pins (signal send from micro-processor IC) were used to control the D-AMP IC operation such as muting, standby and normal operation. They are described as below: -

No	Pin no	Signal name	Function
1	4	F_HOP	Frequency Hop control.
2	6	MODE_DA	Digital Amp On/Off control.
3	3	MUTE_F	Digital Amp Muting control

Table 1: Digital AMP Pin Control.

Here is detailed description of the three control pins for the D-AMP IC

A) **MODE_DA** & **MUTE_F** were used to switch the D-AMP IC in the following muting status:

- L(Low/OFF): Standby / OFF
- H (High/ON): Operating or Mute

Below is the logic for the two pins used for the control of the D-AMP IC.

No	MODE_DA	MUTE_F	Digital AMP IC mode status
1	L	X	OFF (0V)
2	H	H	Mute (2.5V)
3	H	L	Operating(5V)

Table 2: Digital AMP IC Mode Status.

Note: Standby/OFF condition of D.AMP IC is available / activated only during the following event: Switching of Frequency Hoping, power off and start up (when the unit is undergoing the transition from standby to normal operation mode)

B) **F_HOP** is used to control the D-AMP operation to avoid interference with AM source by controlling the frequency source used. It will switch from one frequency to the other, depending on the tuned AM frequency.

For 9 KHz Step

AM Band Frequency	F_HOP	Switching Frequency
522 ~ 558	L	301
567 ~ 639	H	350
648 ~ 855	L	301
864 ~ 945	H	350
954 ~ 1152	L	301
1161 ~ 1242	H	350
1251 ~ 1449	L	301
1458 ~ 1539	H	350
1548 ~ 1629	L	301

Table 3: F_HOP Control during 9 kHz Step

For 10 KHz Step

AM Band Frequency	F_HOP	Switching Frequency
520 ~ 560	L	301
570 ~640	H	350
650 ~ 860	L	301
870 ~ 950	H	350
960 ~ 1160	L	301

1170 ~ 1250	H	350
1260 ~ 1450	L	301
1460 ~ 1540	H	350
1550 ~ 1710	L	301

Table 4: F_HOP Control during 10 kHz Step

Note: During activating, the 3 control pins namely MUTE_F, MUTE_A and MODE_DA must be used to cover the “Pop” sound cause by F-HOP switching.

8 Service Fixture & Tools

8.1. Service Tools and Equipment

Prepare service tools before process service position.

Service Tools		Remarks
Main P.C.B. (CN2014) - SMPS P.C.B. (CN5802)	REXX0189 (11P Cable Wire)	

9 Disassembly and Assembly Instructions

Caution Note:

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

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

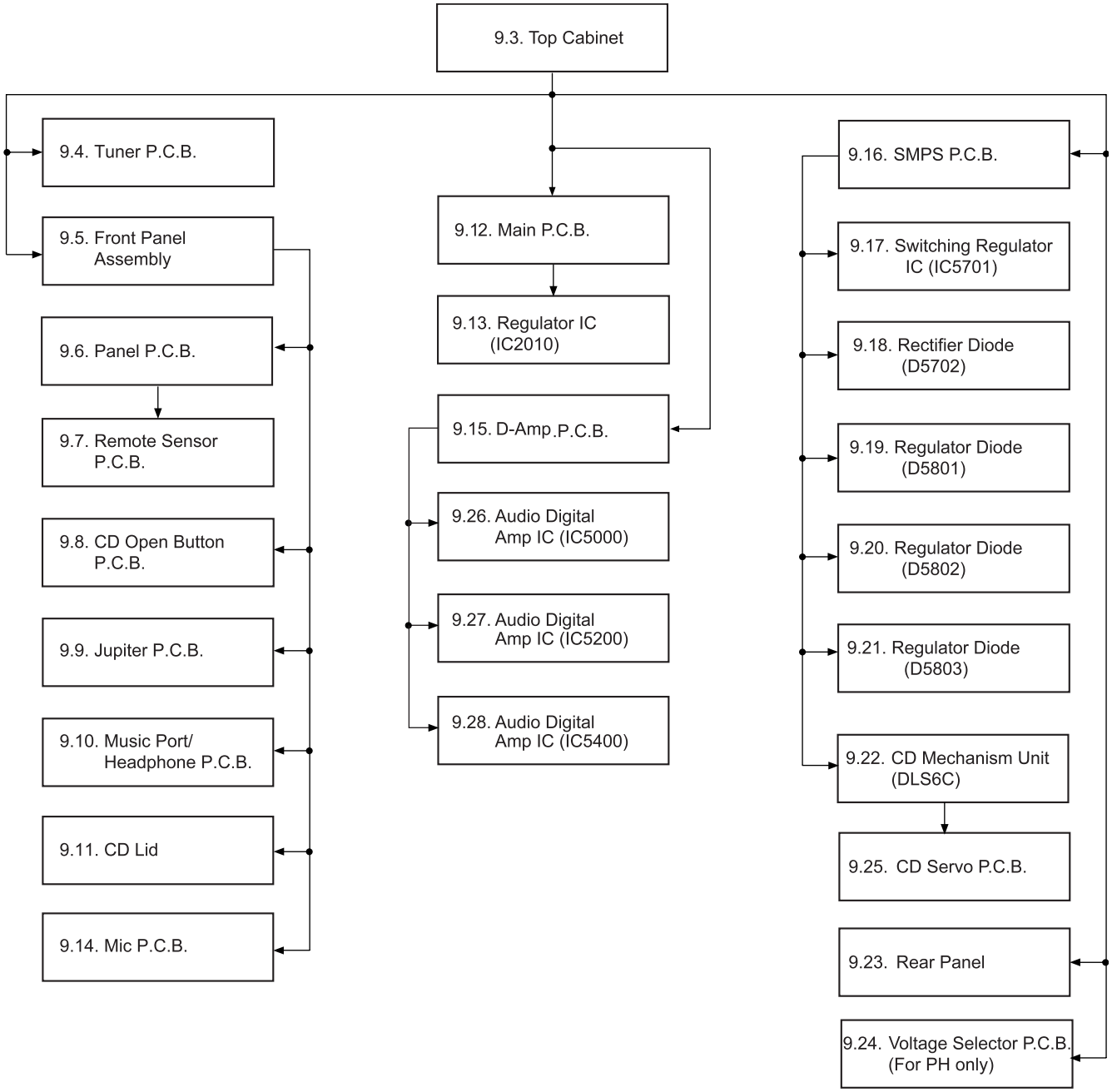
- **During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.**
- **During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.**
- **Select items from the following indexes when disassembly or replacement are required.**
- Disassembly of Top Cabinet
- Disassembly of Tuner P.C.B.
- Disassembly of Front Panel Assembly
- Disassembly of Panel P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of CD Open Button P.C.B.
- Disassembly of Jupiter P.C.B.
- Disassembly of Music Port/Headphone P.C.B.
- Disassembly of CD Lid
- Disassembly of Main P.C.B.
- Replacement of Regulator IC (IC2010)
- Disassembly of Mic P.C.B.
- Disassembly of D-Amp P.C.B.
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5702)
- Replacement of Regulator Diode (D5801)
- Replacement of Regulator Diode (D5802)
- Replacement of Regulator Diode (D5803)
- Disassembly of CD Mechanism Unit (DLS6C)
- Disassembly of CD Servo P.C.B.
- Disassembly of Rear Panel
- Disassembly of Voltage Selector P.C.B. (For PH only)
- Replacement of Audio Digital Amp IC (IC5000)
- Replacement of Audio Digital Amp IC (IC5200)
- Replacement of Audio Digital Amp IC (IC5400)

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

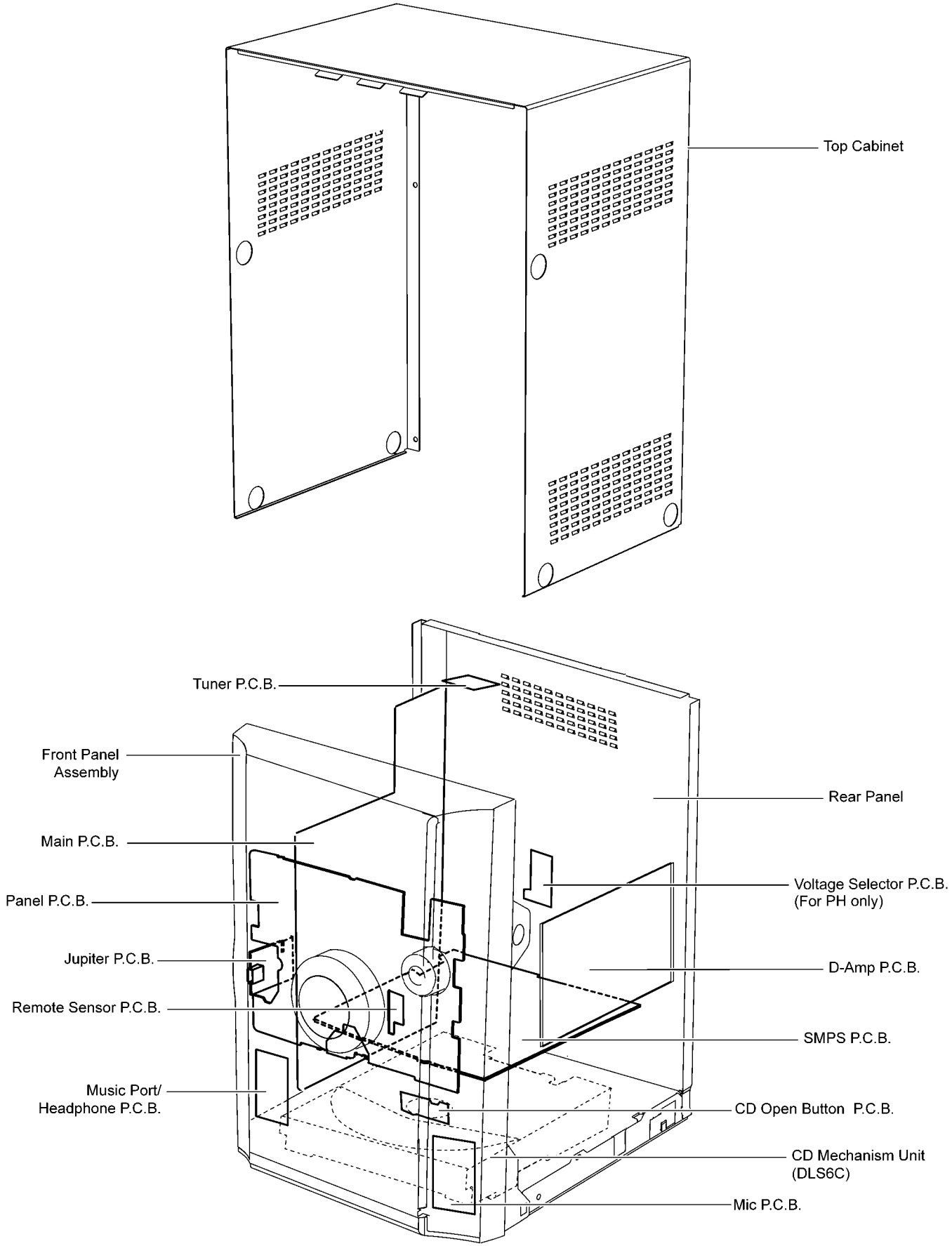
Below shown is part no. of different screw types used:

ⓐ :RHD30007-K2J	ⓔ :RHD26046-L
ⓑ :RHD30119-S	ⓕ :RHDX031008
ⓒ :RHD30111-31	ⓖ :RHDX30005-1
ⓓ :XTB3+10JFJ	ⓙ :XTW3+8TFJ

9.1. Disassembly Flow Chart

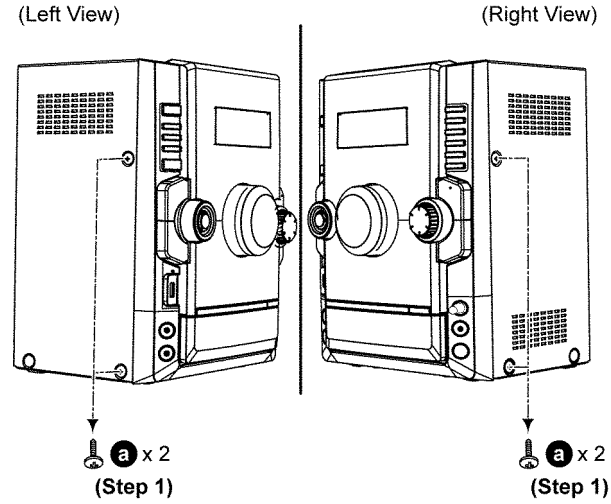


9.2. Main Components and P.C.B. Locations



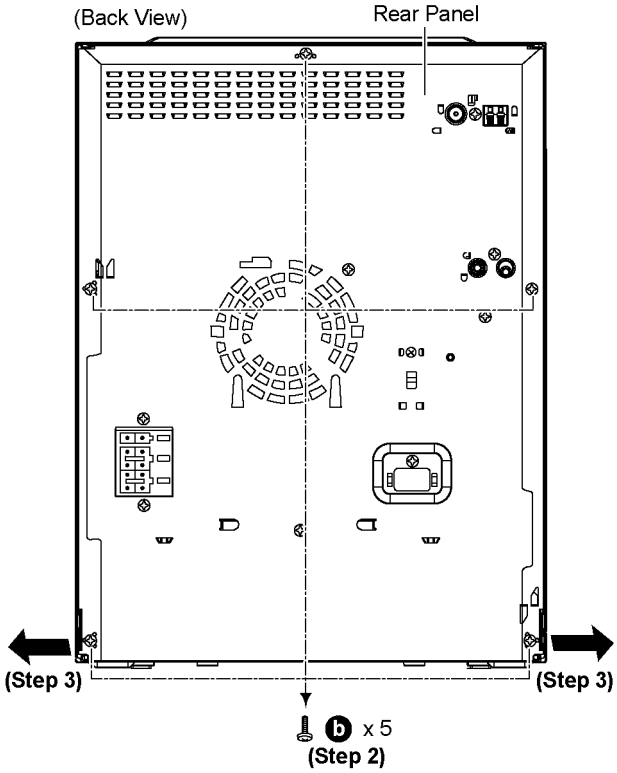
9.3. Disassembly of Top Cabinet

Step 1 Remove 2 screws on each side.



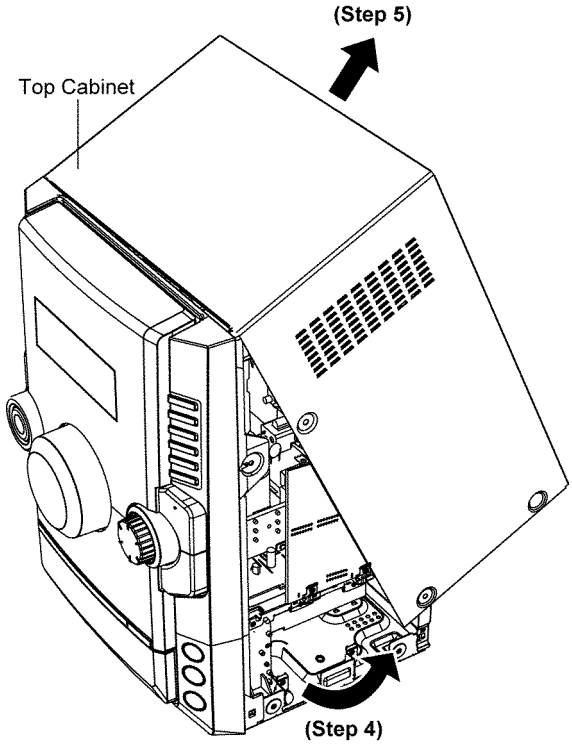
Step 2 Remove 5 screws.

Step 3 Slightly pull both side of Top Cabinet outwards as arrow shown.

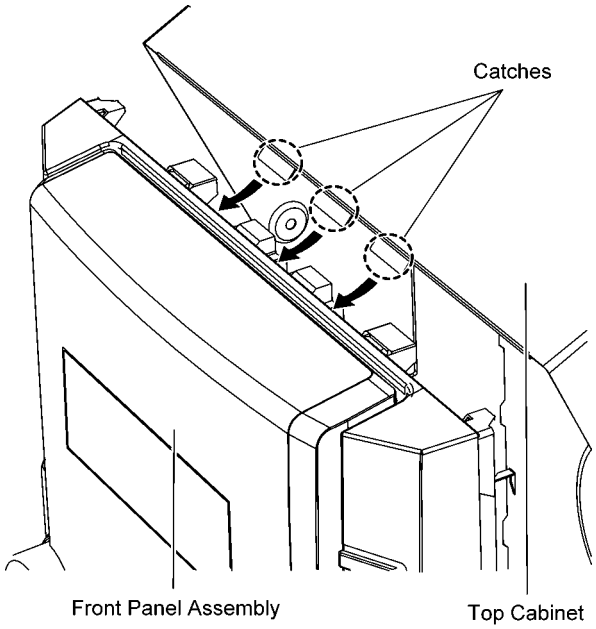


Step 4 Slightly lift up both side of Top Cabinet in an outward direction as shown.

Step 5 Remove Top Cabinet.



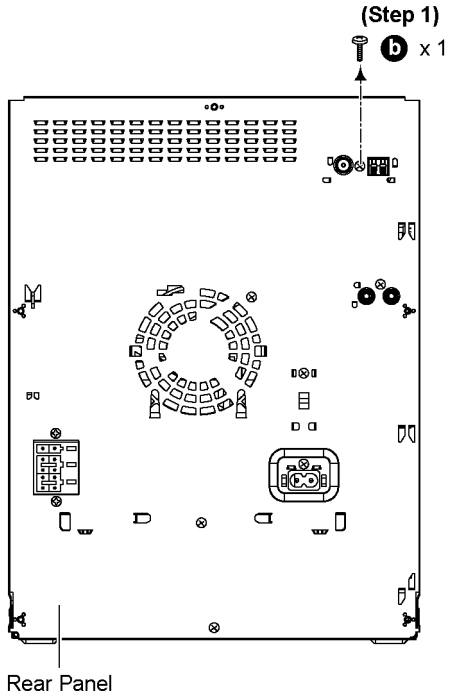
Caution: During assembling, ensure that the Top Cabinet catches are properly located into Front Panel Assembly as shown.



9.4. Disassembly of Tuner P.C.B.

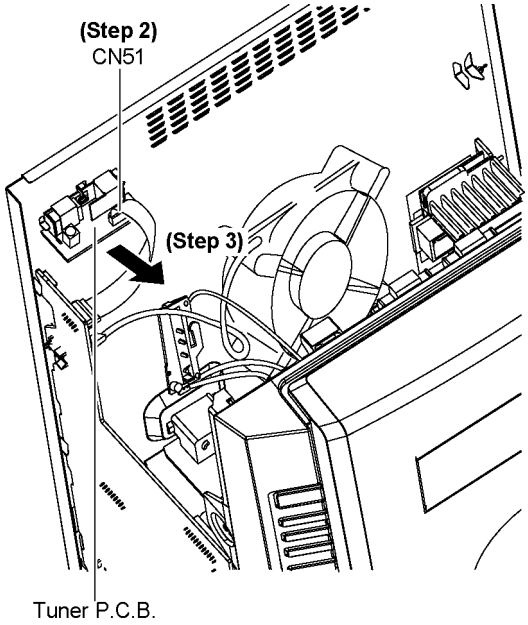
• **Refer to "Disassembly of Top Cabinet".**

Step 1 Remove 1 screw.



Step 2 Detach 9P FFC at the connector (CN51) on Tuner P.C.B..

Step 3 Remove Tuner P.C.B..



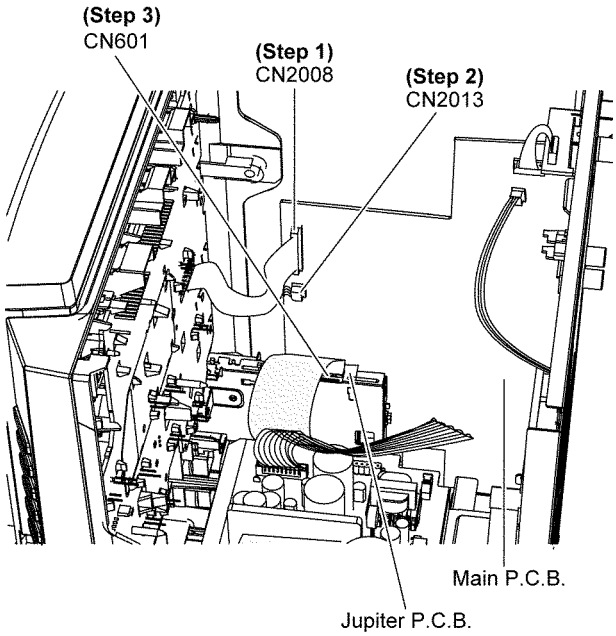
9.5. Disassembly of Front Panel Assembly

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

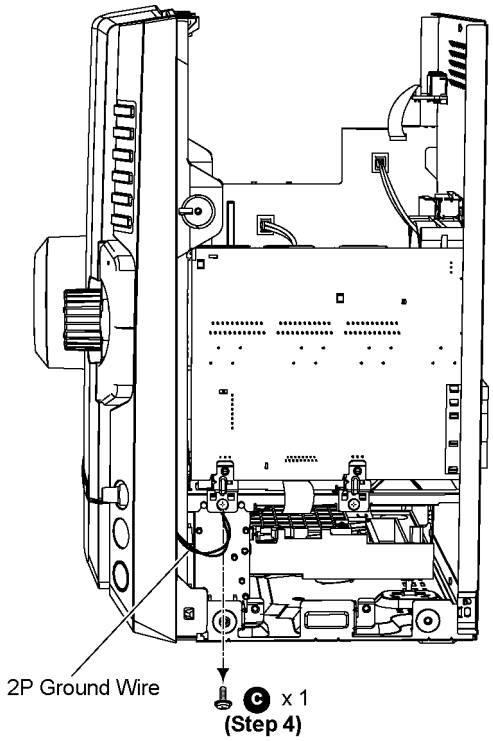
Step 1 Detach 30P FFC at the connector (CN2008) on Main P.C.B.

Step 2 Detach 2P Wire at the connector (CN2013) on Main P.C.B.

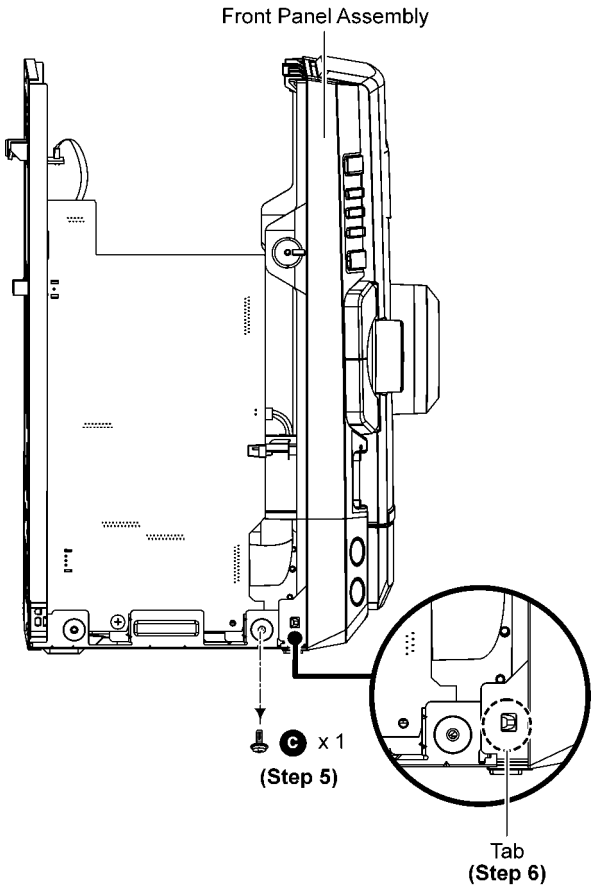
Step 3 Detach 30P FFC at the connector (CN601) on Jupiter P.C.B.



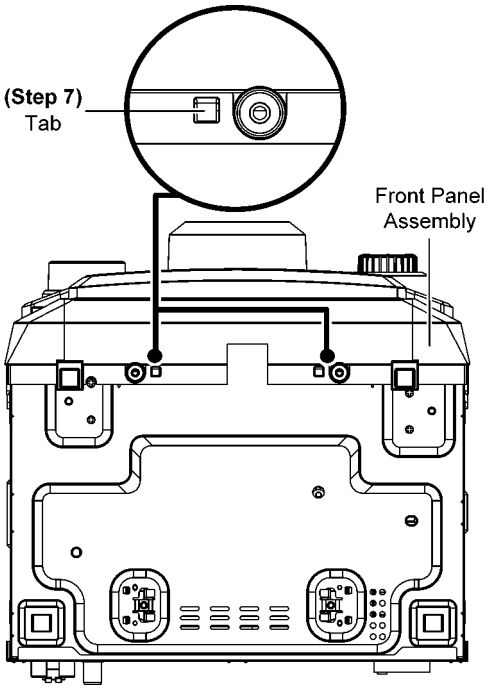
Step 4 Remove 1 screw.



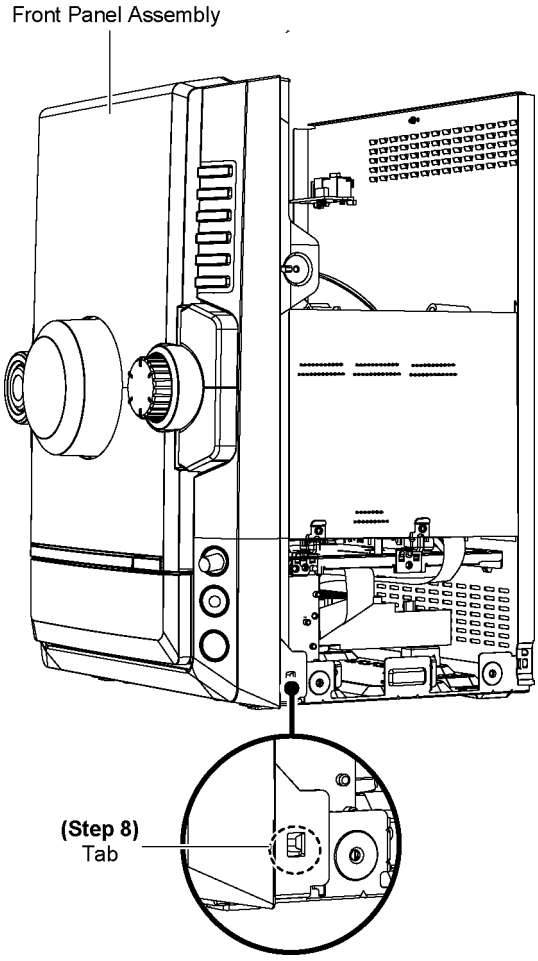
Step 5 Remove 1 screw.
Step 6 Release tab at left side of Front Panel Assembly.



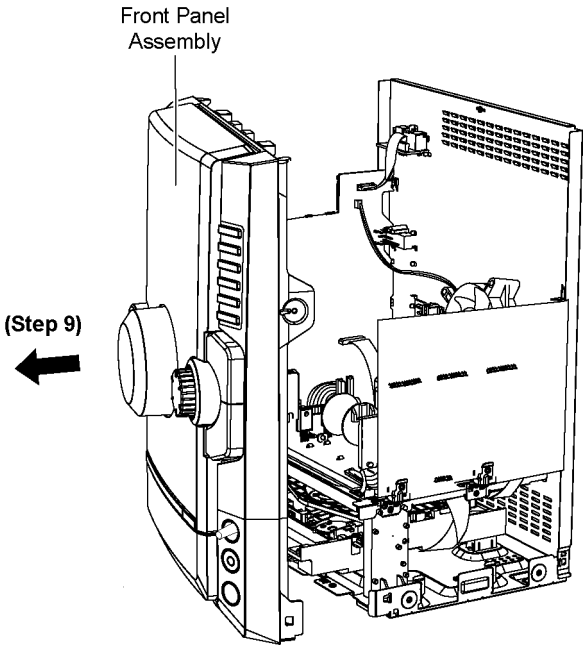
Step 7 Release tab at bottom.



Step 8 Release tab at right side.



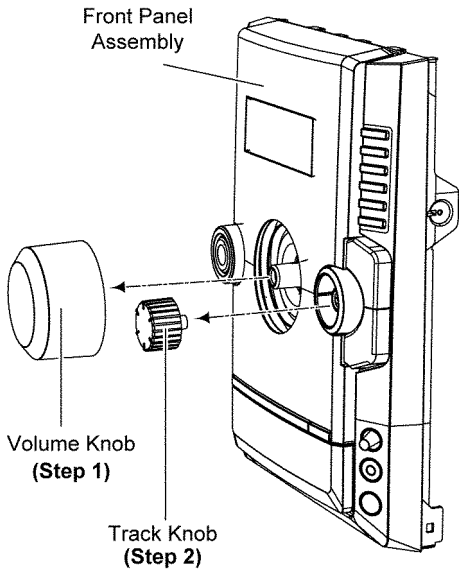
Step 9 Remove Front Panel Assembly.



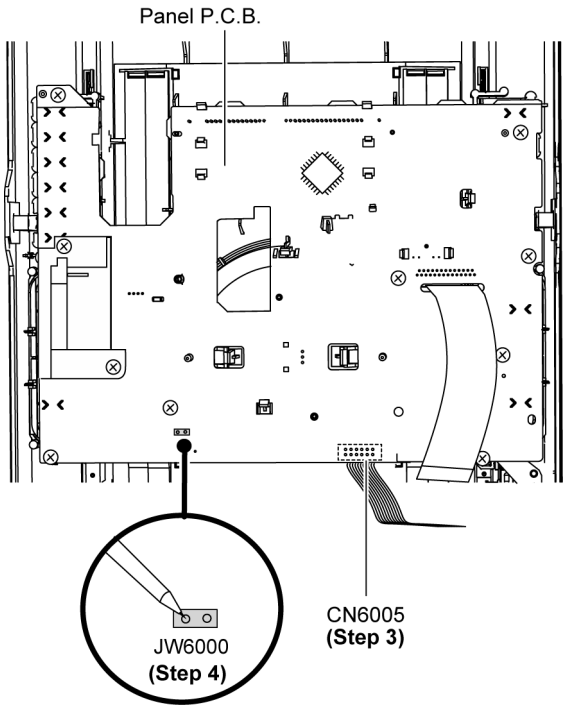
9.6. Disassembly of Panel P.C.B.

- **Refer to “Disassembly of Top Cabinet”.**
- **Refer to “Disassembly of Front Panel Assembly”.**

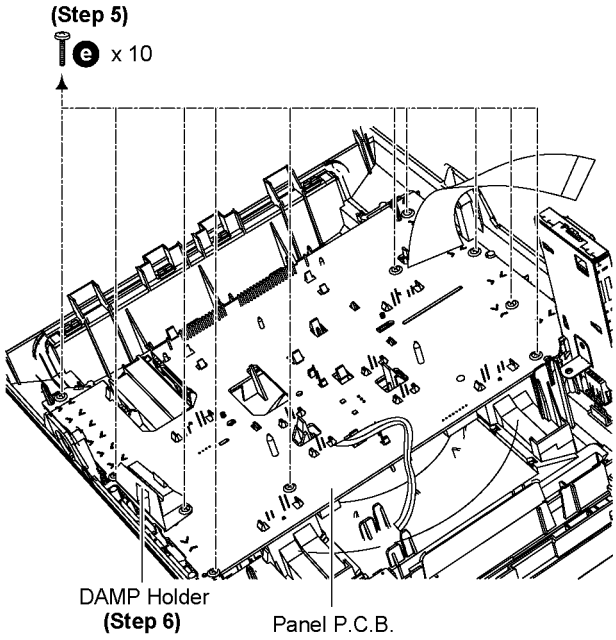
Step 1 Remove the Volume Knob.
Step 2 Remove the Track Knob.



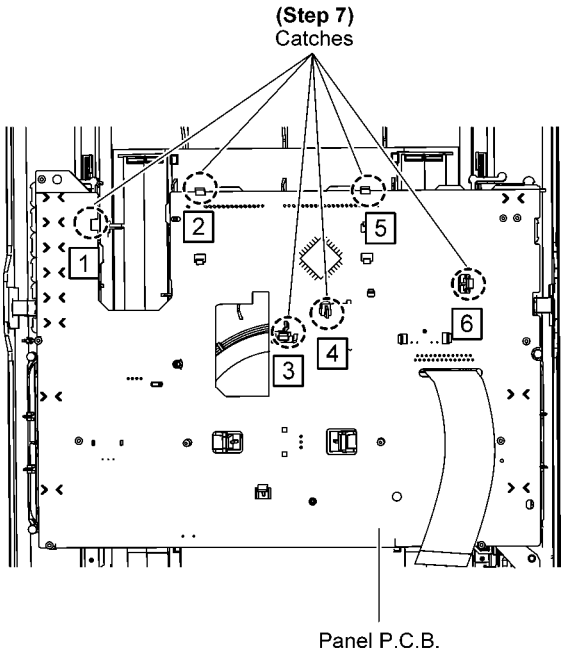
Step 3 Detach 8P Cable Wire at the connector (CN6005) on Panel P.C.B..
Step 4 Desolder 2 pins at (JW6000) on Panel P.C.B..



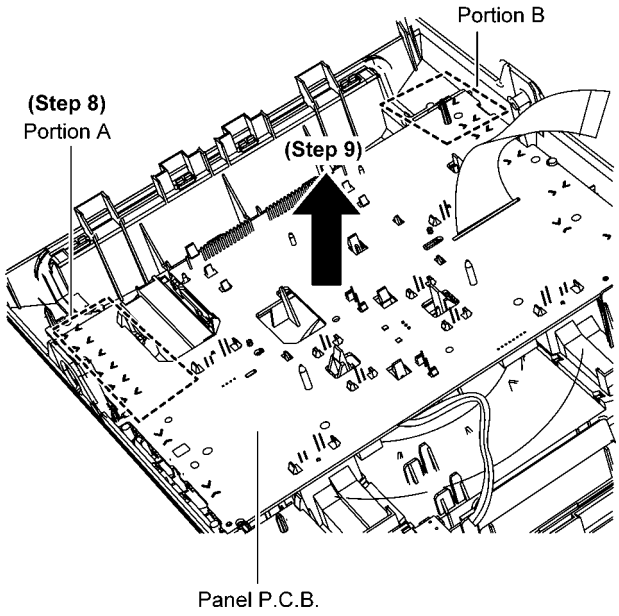
Step 5 Remove 10 screws.
Step 6 Remove DAMP Holder.



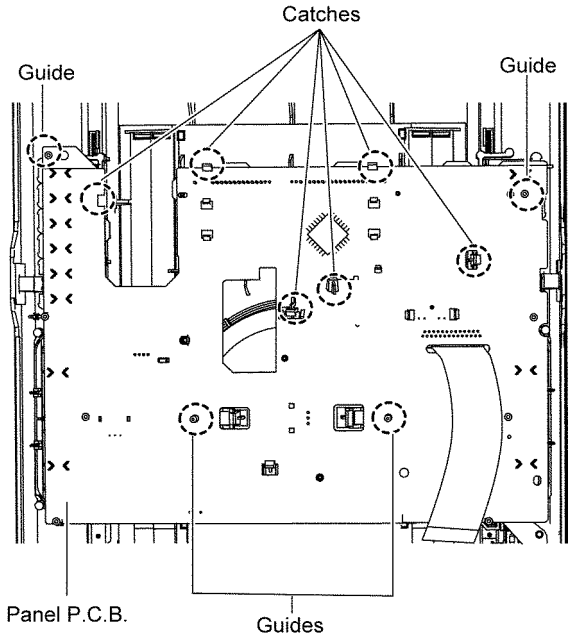
Step 7 Release catches by following the sequences (1-6).



Step 8 Slightly release portion A of panel P.C.B. from Front Panel Assembly.
Step 9 Remove Panel P.C.B..



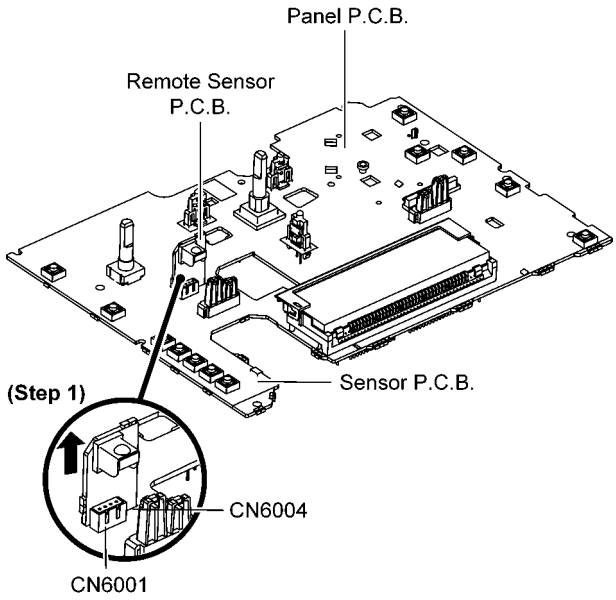
Caution: During assembling, ensure that Panel P.C.B. is seated properly through the Guides & fully catched.



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

- **Refer to “Disassembly of Top Cabinet Assembly”.**
- **Refer to “Disassembly of Front Panel Assembly”.**
- **Refer to “Disassembly of Panel P.C.B.”.**

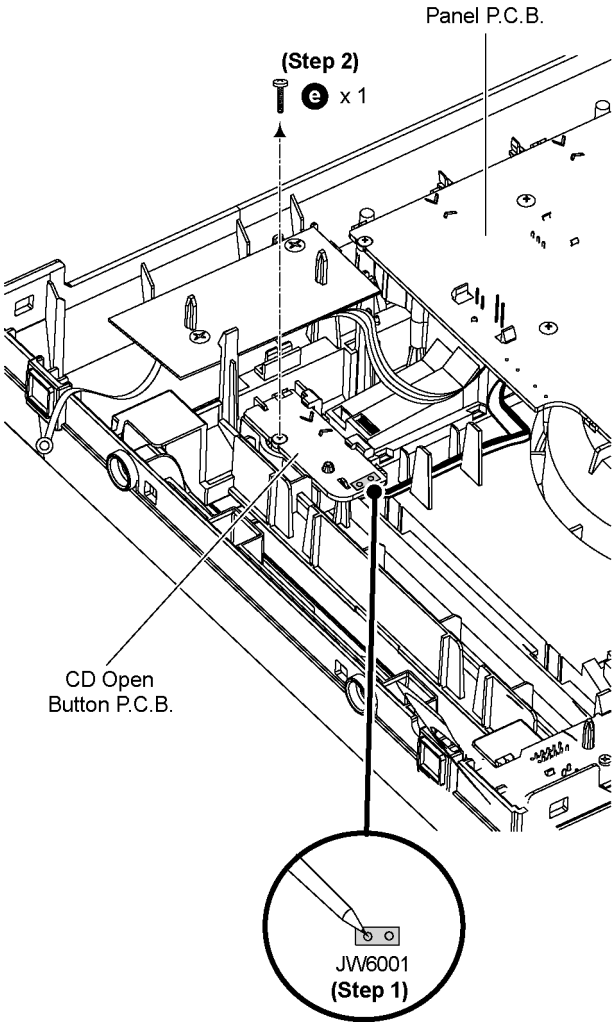
Step 1 Remove Remote Sensor P.C.B..
Caution: During assembling, ensure that Sensor P.C.B. is properly inserted & fully connected to Panel P.C.B..



9.8. Disassembly of CD Open Button P.C.B.

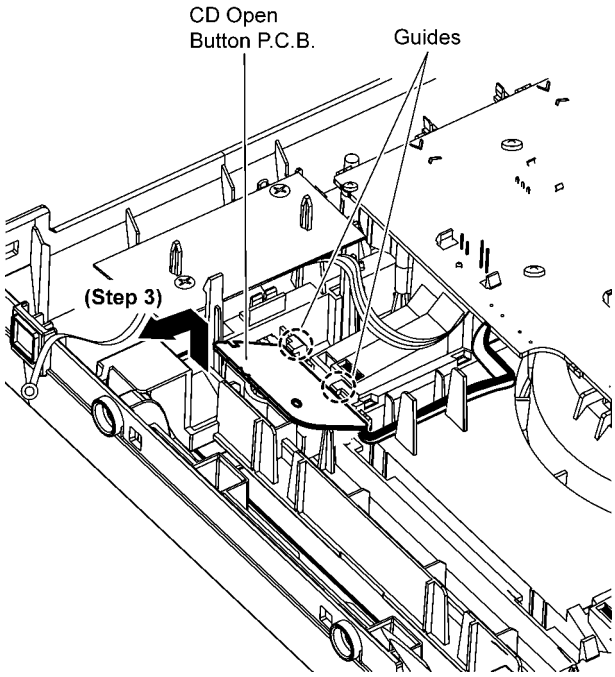
- **Refer to “Disassembly of Top Cabinet”.**
- **Refer to “Disassembly of Front Panel Assembly”.**

Step 1 Desolder 2 pins (JW6001) on CD Open Button P.C.B..
Step 2 Remove 1 screw.



Step 3 Lift up slightly and remove CD Open Button P.C.B. as arrow shown.

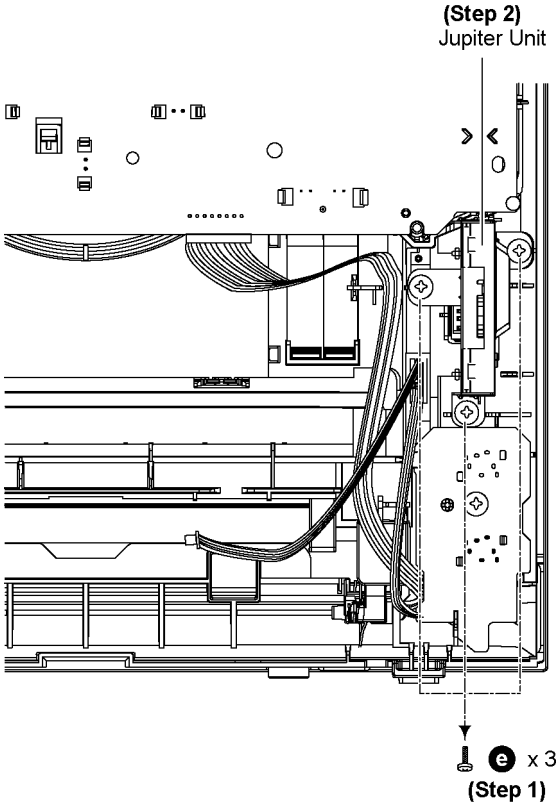
Caution: During assembling, ensure that CD Open Button P.C.B. is properly located and seated under the guides.



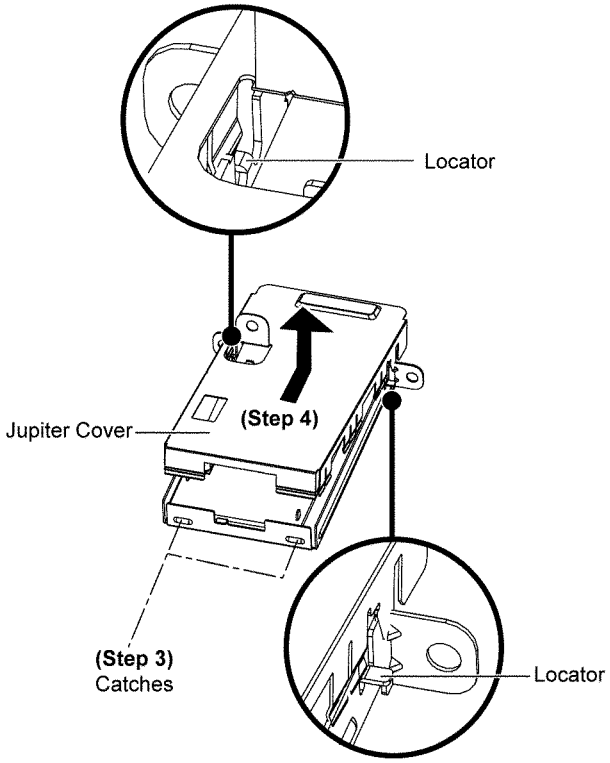
9.9. Disassembly of Jupiter P.C.B.

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

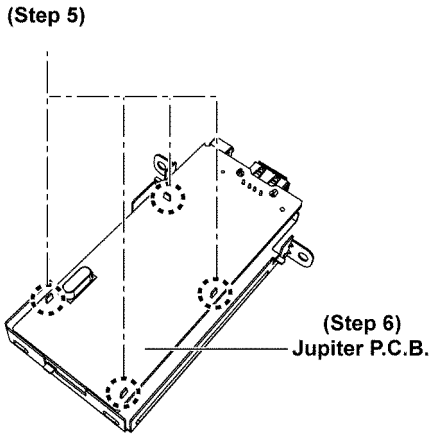
Step 1 Remove 3 screws.
Step 2 Remove Jupiter Unit.



Step 3 Release 2 catches.
Step 4 Slightly lift up the Jupiter Cover to release from 2 locators.



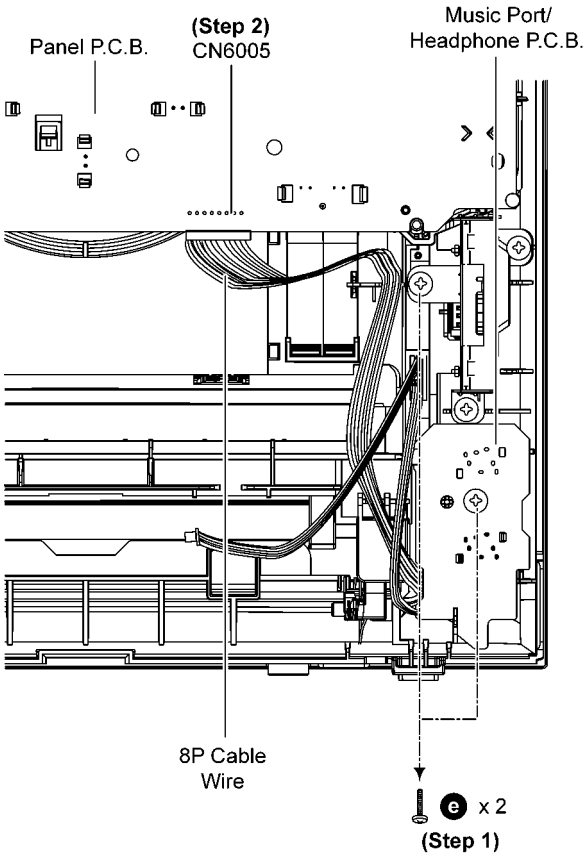
Step 5 Desolder 4 pins.
Step 6 Remove the Jupiter P.C.B..



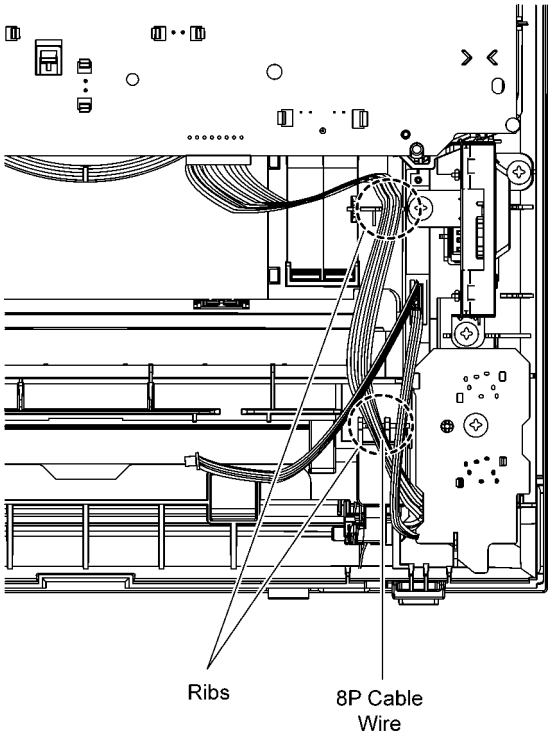
9.10. Disassembly of Music Port/ Headphone P.C.B.

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

Step 1 Remove 2 screws.
Step 2 Detach 8P Cable Wire at the connector (CN6005) on Panel P.C.B..



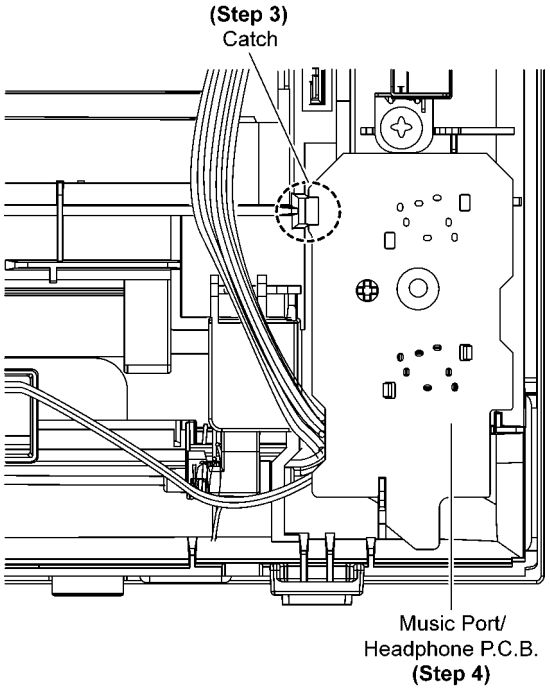
Caution: During assembling, ensure that 8P Cable wire is dressed into Ribs properly.



Step 3 Release 1 catch.

Step 4 Remove Music Port/Headphone P.C.B..

Caution: During assembling, ensure that Music Port/Headphone P.C.B. is properly located & fully catched onto Front Panel.

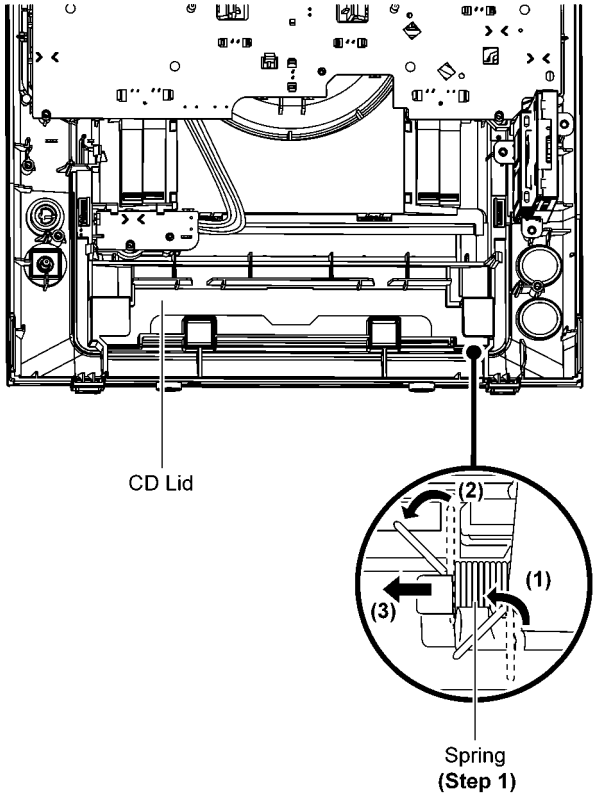


9.11. Disassembly of CD Lid

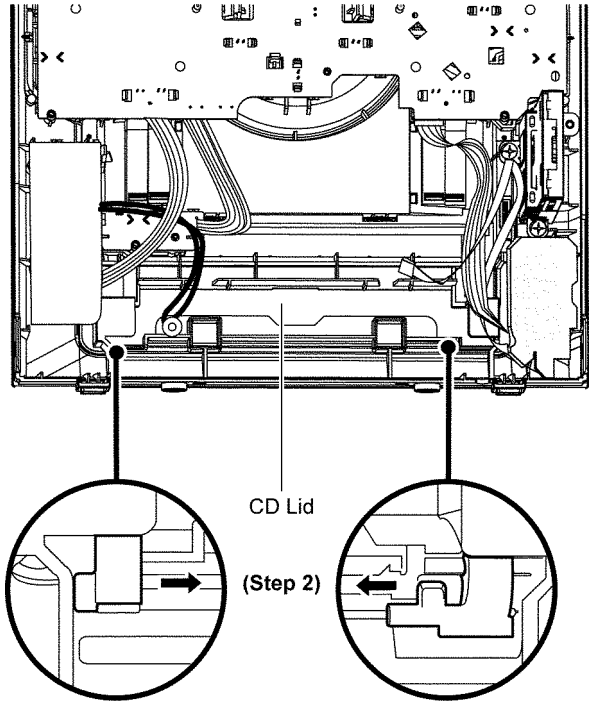
- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Assembly".**

Step 1 Remove the spring as arrow shown in order of sequence (1) to (3).

Caution: During assembling, ensure that the spring is assembly at right position.



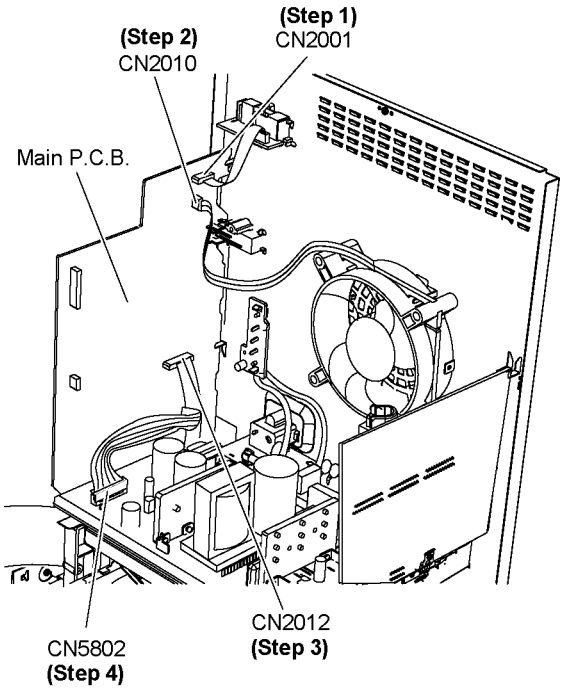
Step 2 Remove CD Lid as arrow shown.



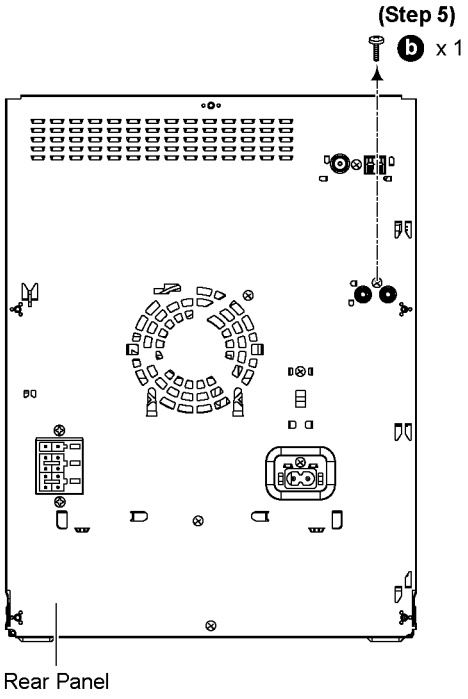
9.12. Disassembly of Main P.C.B.

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

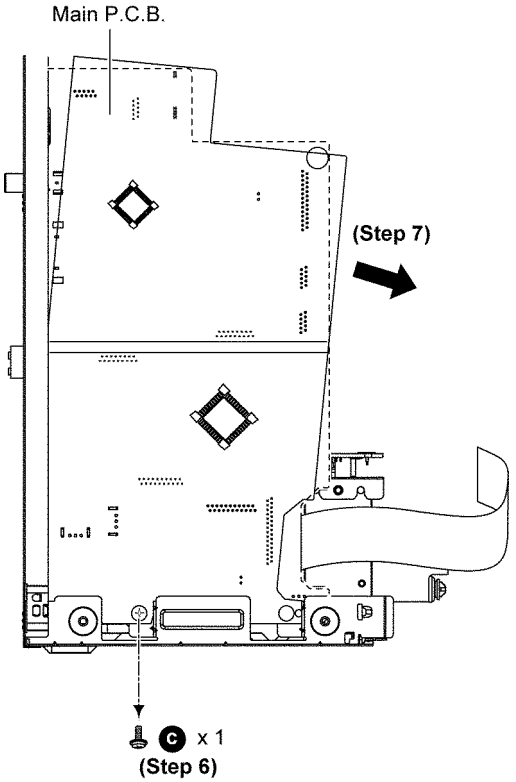
Step 1 Detach 9P FFC at the connector (CN2001) on Main P.C.B..
Step 2 Detach 2P Wire at the connector (CN2010) on Main P.C.B..
Step 3 Detach 12P FFC at the connecter (CN2012) on Main P.C.B..
Step 4 Detach 11P Cable Wire at the connecter (CN5802) on SMPS P.C.B..



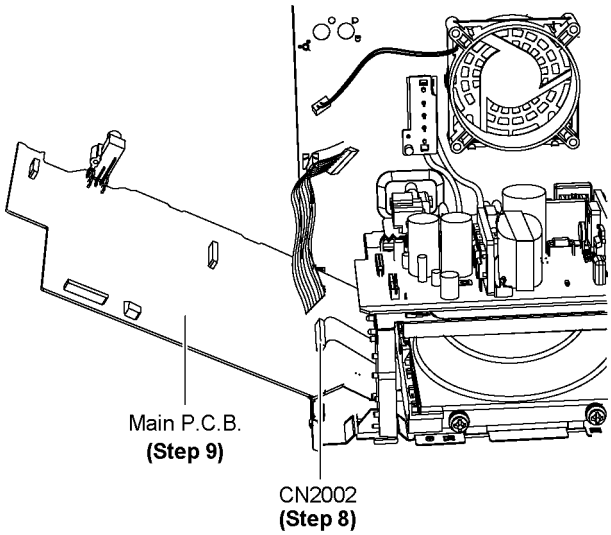
Step 5 Remove 1 screw.



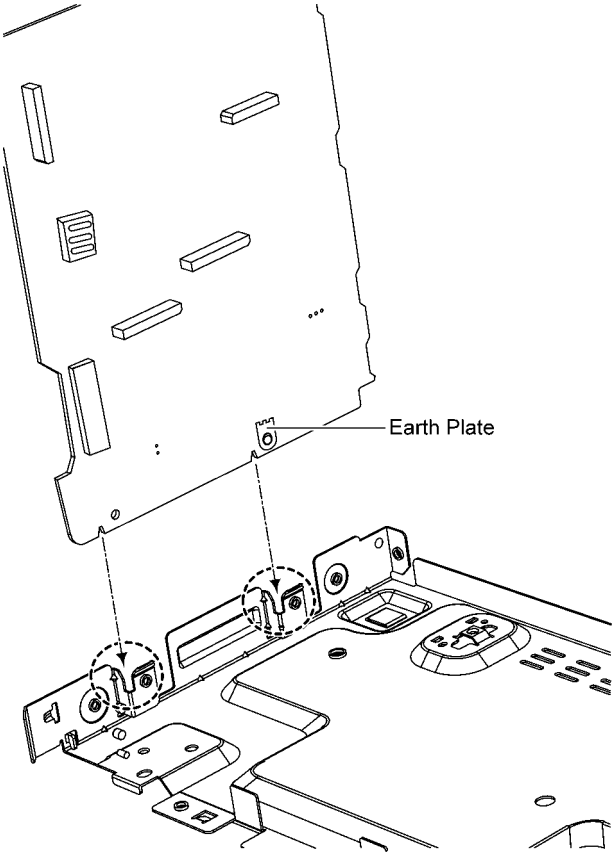
Step 6 Remove 1 screw.
Step 7 Detach Main P.C.B. from Rear Panel according to arrow shown.



Step 8 Detach 25P FFC at the connector (CN2002) on Main P.C.B..
Step 9 Remove Main P.C.B..



Caution: During assembling, ensure that earth plate is bended flat against the Main P.C.B. properly when inserted to locators.

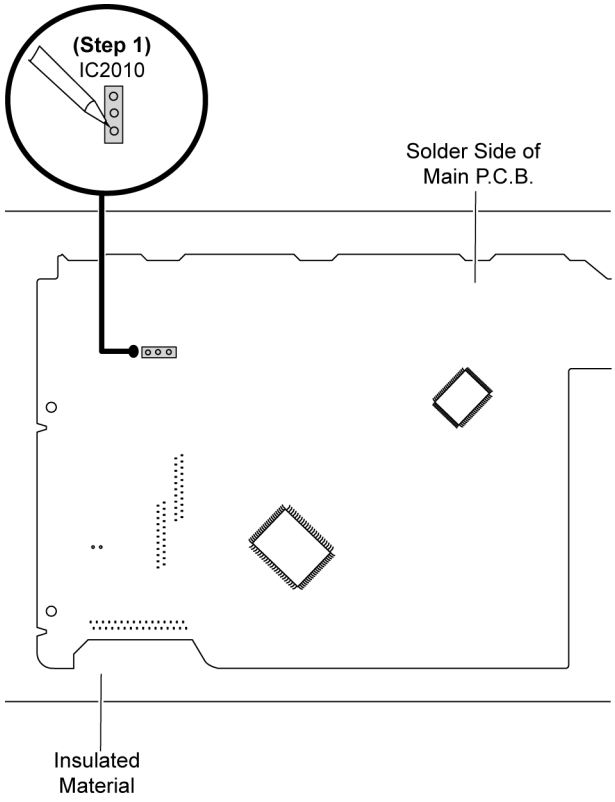


9.13. Replacement of Regulator IC (IC2010)

- **Refer to "Disassembly of Main P.C.B.".**

9.13.1. Disassembly of Regulator IC (IC2010)

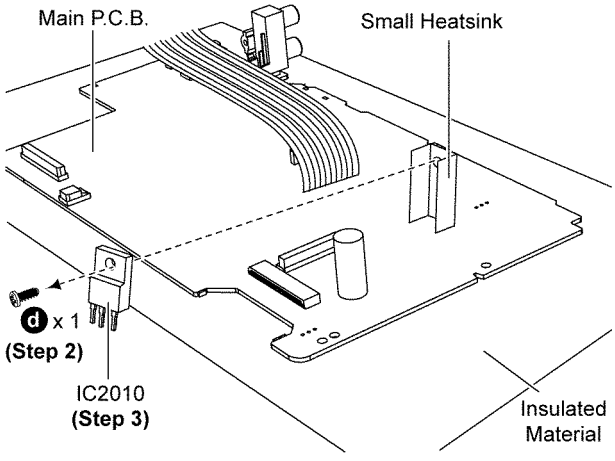
Step 1 Desolder pins of the Regulator IC (IC2010) on the solder side of Main P.C.B..



Step 2 Remove 1 screw.

Step 3 Remove the Regulator IC (IC2010) from the Main P.C.B..

Caution: Avoid touching the Small Heatsink due to its high temperature after prolong use. Touching it may lead to injuries.



9.13.2. Assembly of Regulator IC (IC2010)

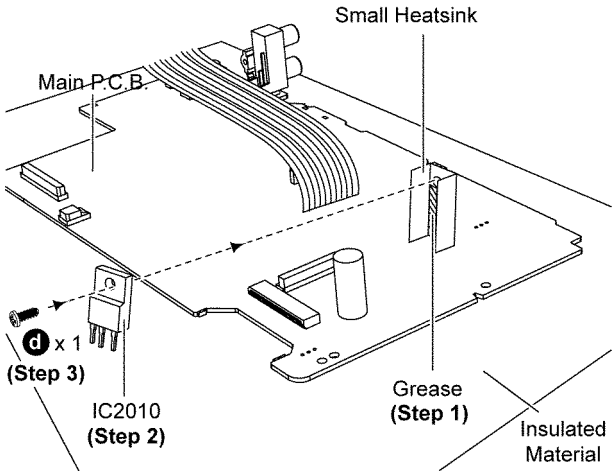
Step 1 Apply grease to the Small Heatsink.

Step 2 Mount the Regulator IC (IC2010) on Main P.C.B..

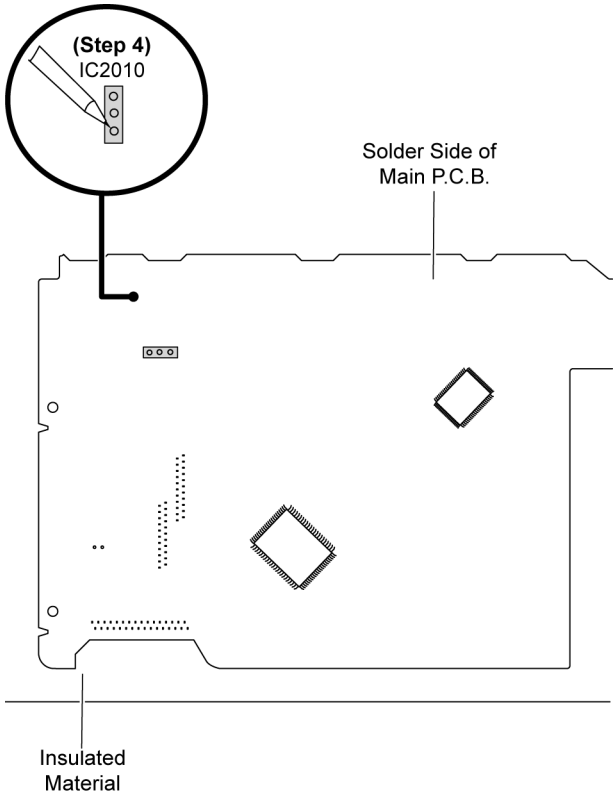
Caution: Ensure pins of the Regulator IC (IC2010) are properly seated on Main P.C.B..

Step 3 Screw the Regulator IC (IC2010) to the Small Heatsink.

Caution: Ensure the Regulator IC (IC2010) is tightly screwed to the Small Heatsink.



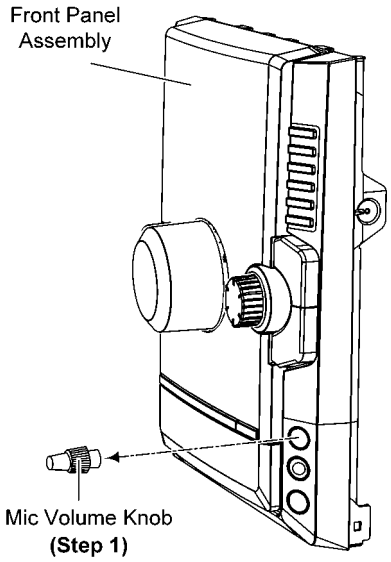
Step 4 Solder pins of the Regulator IC (IC2010) on the solder side of Main P.C.B..



9.14. Disassembly of Mic P.C.B.

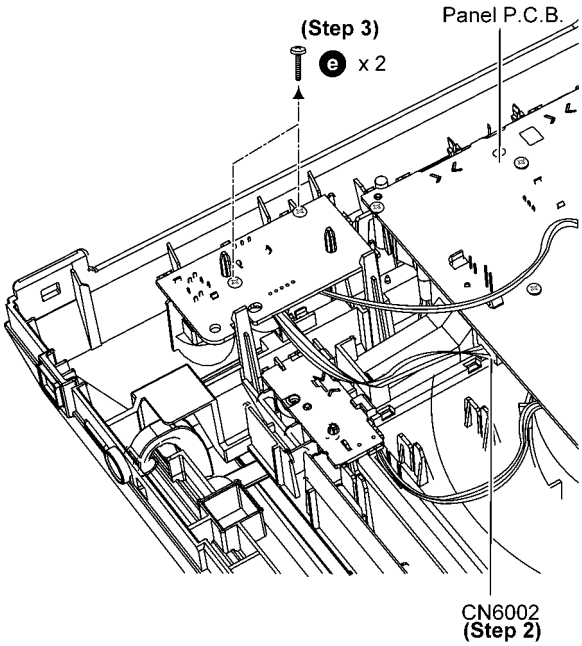
- **Refer to "Disassembly of Front Panel Assembly".**

Step 1 Remove Mic Volume Knob.



Step 2 Detach 5P cable wire at the connector (CN6002) on Panel P.C.B..

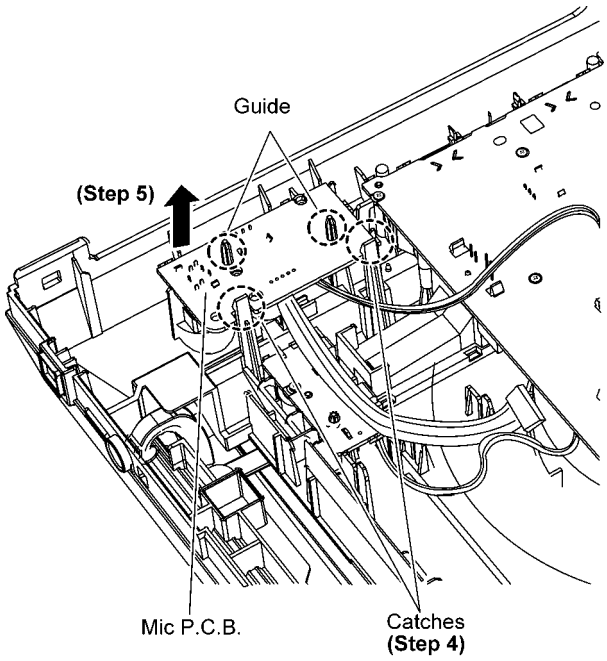
Step 3 Remove 2 screws.



Step 4 Release 2 catches.

Step 5 Lift up to remove Mic P.C.B..

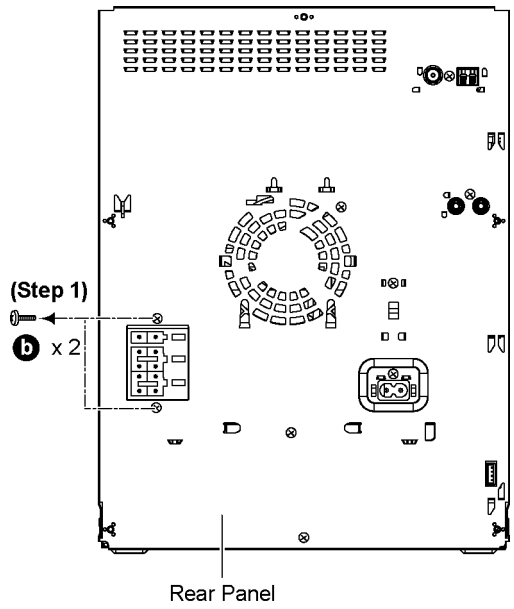
Caution: During assembling, ensure that Mic P.C.B. is seated properly through the guide & fully catched.



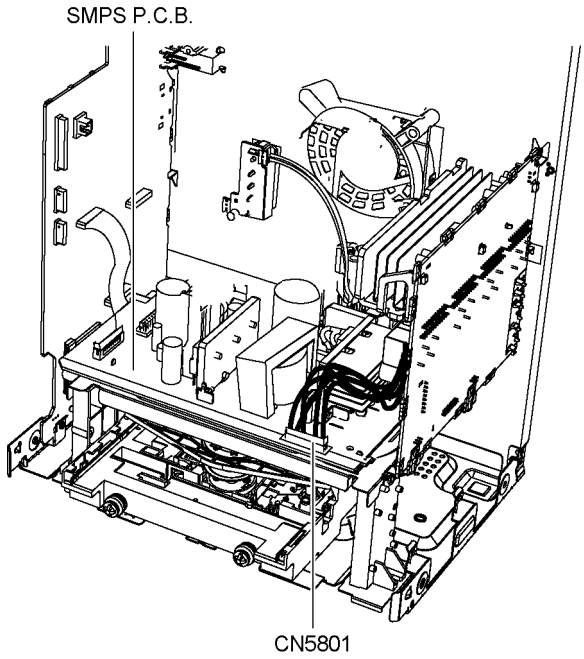
9.15. Disassembly of D-Amp P.C.B.

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

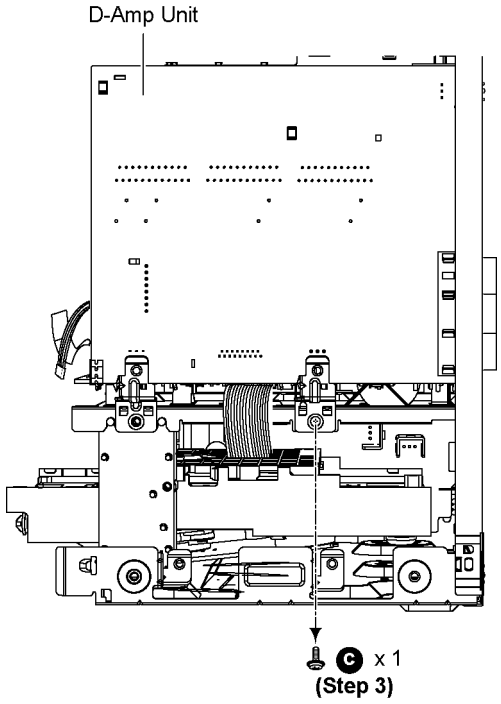
Step 1 Remove 2 screws.



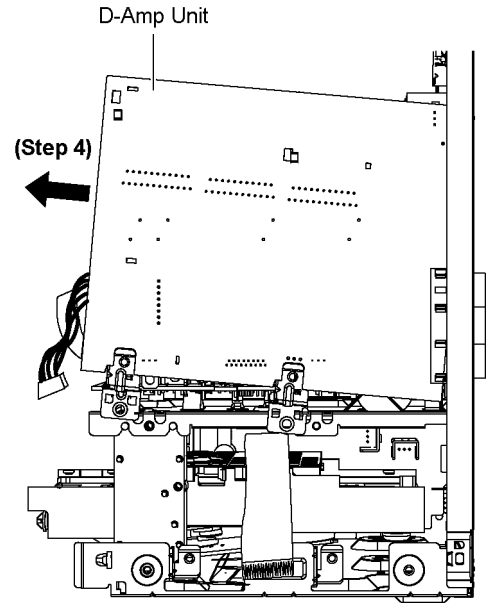
Step 2 Detach 6P Cable Wire at the connector (CN5801) on SMPS P.C.B..



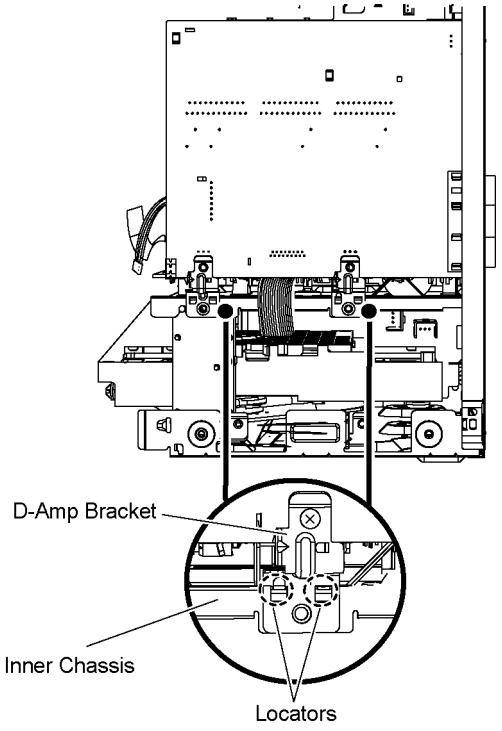
Step 3 Remove 1 screw.



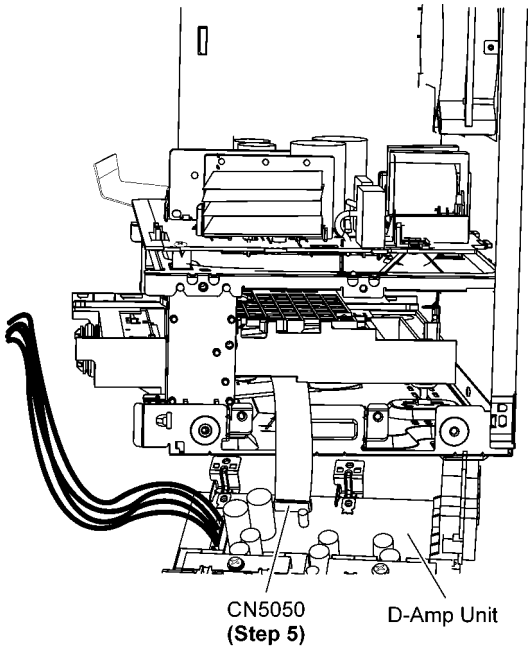
Step 4 Slightly lift up & remove D-Amp Unit as arrow shown.



Caution: During assembling, ensure that D-Amp Bracket is seated on the locator of Inner Chassis properly.



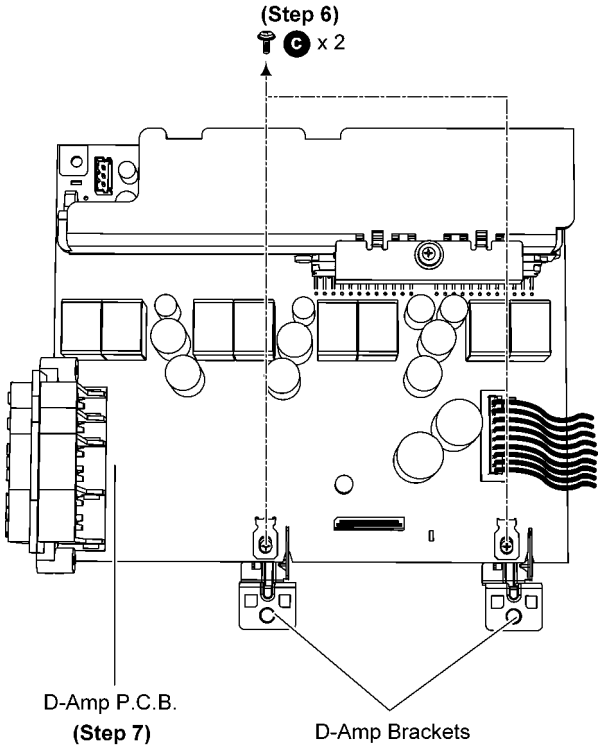
Step 5 Detach 17P FFC at the connector (CN5050) on D-Amp P.C.B..



Step 6 Remove 2 screws.

Step 7 Remove D-Amp P.C.B..

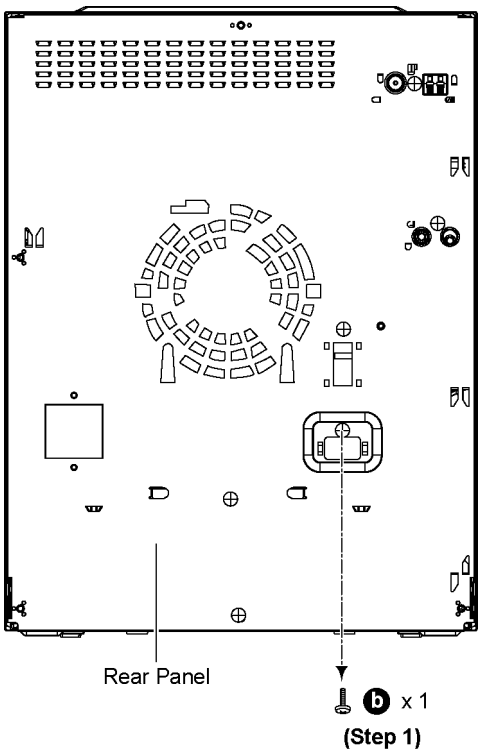
Caution: Keep the D-Amp Brackets in safe place, place it back during assembling.



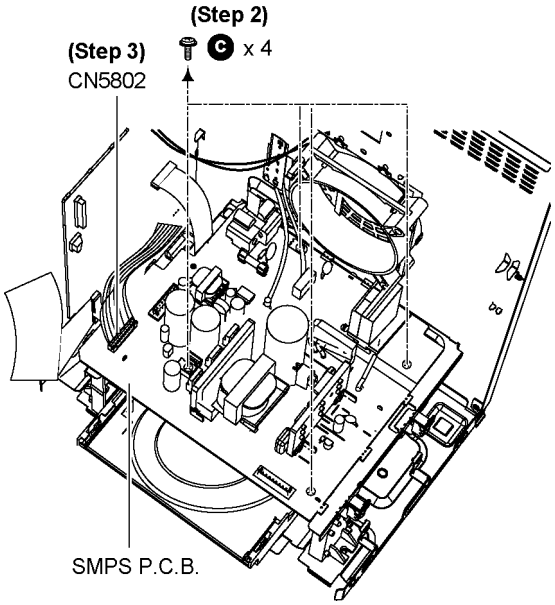
9.16. Disassembly of SMPS P.C.B.

- **Refer to “Disassembly of Top Cabinet.”.**
- **Refer to “Disassembly of Front Panel Assembly”.**
- **Refer to “Disassembly of D-Amp P.C.B.”.**

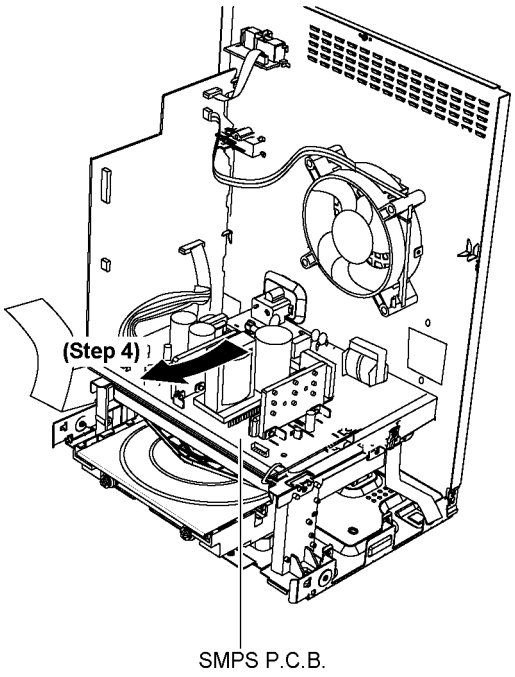
Step 1 Remove 1 screw.



Step 2 Remove 4 screws.
Step 3 Detach 11P cable wire at the connector (CN5802) on SMPS P.C.B..

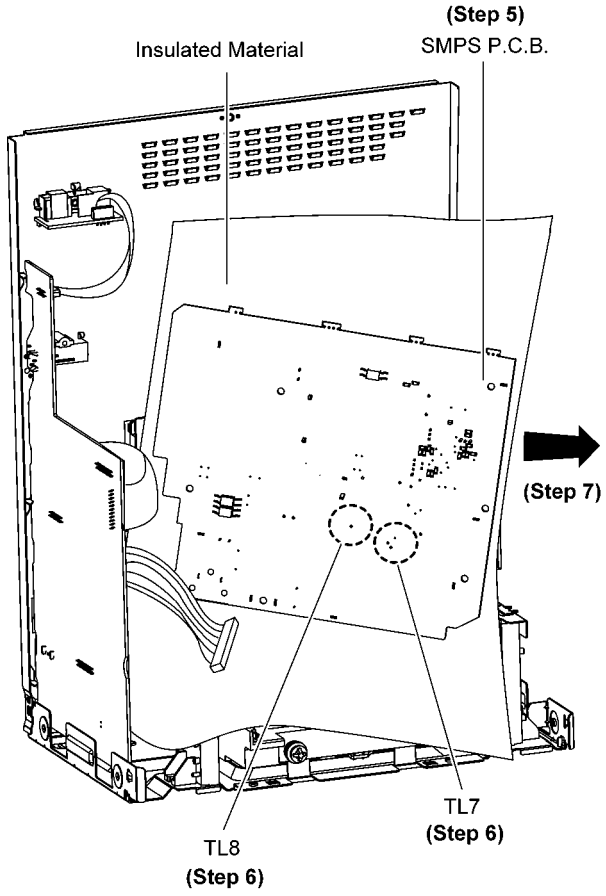


Step 4 Lift up to remove SMPS P.C.B..



- **For PH only**

Step 5 Flip the SMPS P.C.B. and position it according to diagram shown.
Caution: Insulated Material is required in order to insulated SMPS P.C.B. from other parts.
Step 6 Desolder 2 Wire pins, Black TL7 (Black), TL8 (Red) wires pin.
Step 7 Remove SMPS P.C.B..

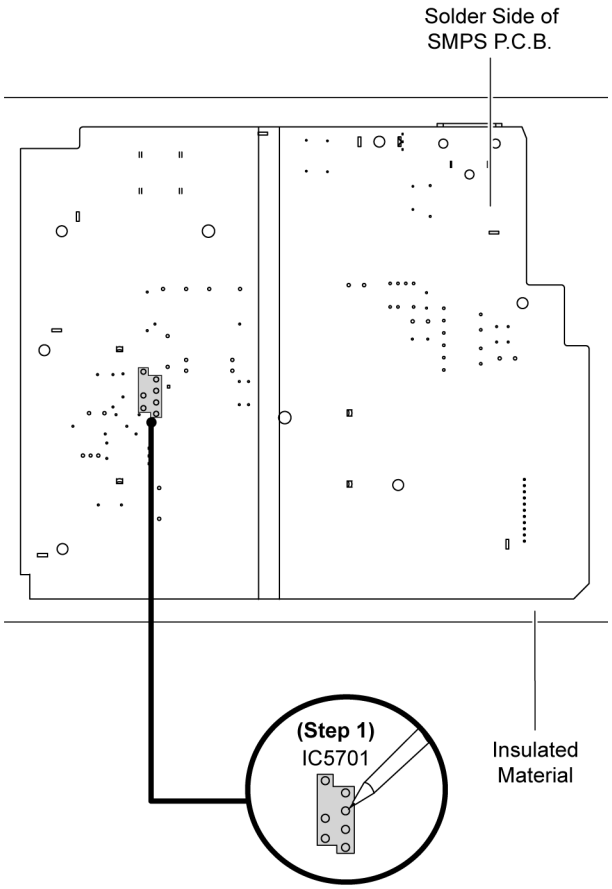


9.17. Replacement of Switching Regulator IC (IC5701)

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

9.17.1. Disassembly of Switching Regulator IC (IC5701)

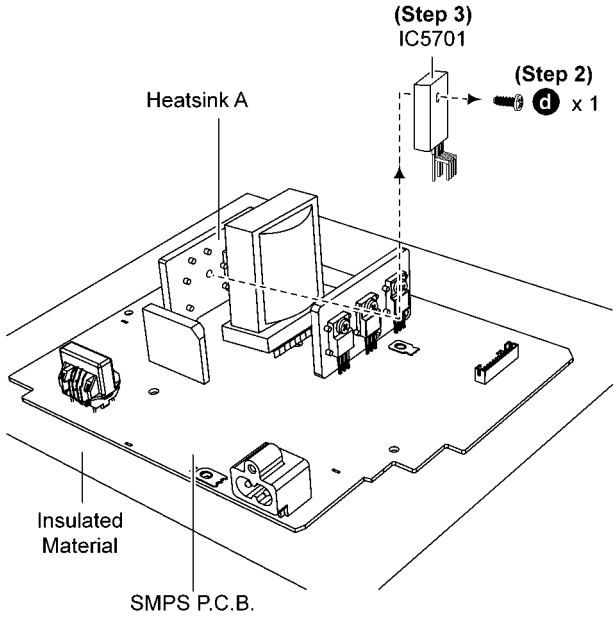
Step 1 Desolder pins of the Switching Regulator IC (IC5701) on the solder side of SMPS P.C.B..



Step 2 Remove 1 screw from the Switching Regulator IC (IC5701).

Step 3 Remove the Switching Regulator IC (IC5701) from the Heatsink A.

Caution: Avoid touching the Heatsink A due to its high temperature after porlonged use. Touching it may lead to injuries.



9.17.2. Assembly of Switching Regulator IC (IC5701)

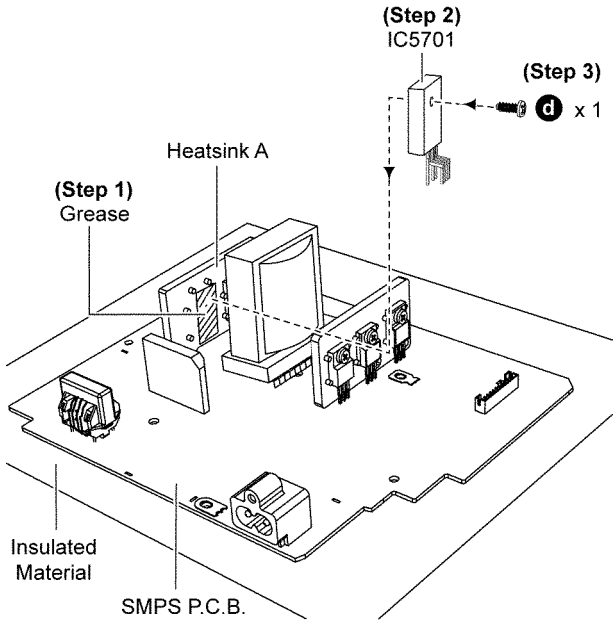
Step 1 Apply grease to the Heatsink A.

Step 2 Install the Switching Regulator IC (IC5701) to the SMPS P.C.B..

Caution: Ensure pins of the Switching Regulator IC (IC5701) are properly seated and soldered on SMPS P.C.B..

Step 3 Screw the Switching Regulator IC (IC5701) to the Heatsink A.

Caution: Ensure the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink A.



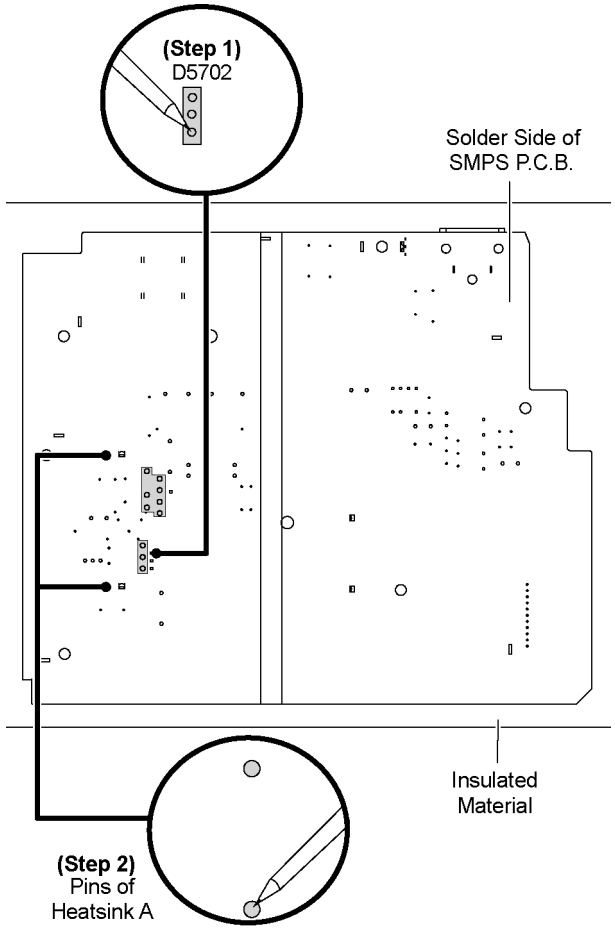
Step 4 Solder pins of the Switching Regulator IC (IC5701) on the solder side of SMPS P.C.B..

9.18. Replacement of Rectifier Diode (D5702)

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

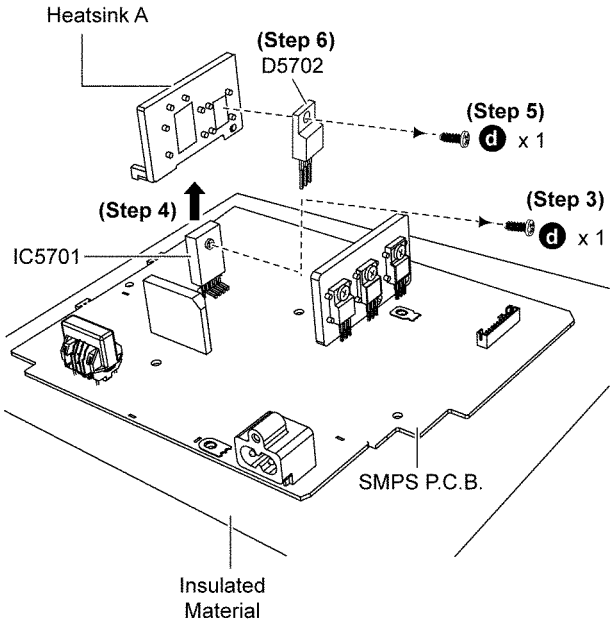
9.18.1. Disassembly of Rectifier Diode (D5702)

Step 1 Desolder pins of the Rectifier Diode (D5702) on the solder side of SMPS P.C.B.
Step 2 Desolder pins of the Heatsink A.



Step 3 Remove 1 screw from the Switching Regulator IC (IC5701).
Step 4 Remove the Heatsink A with Rectifier Diode (D5702).
Step 5 Remove 1 screw from the Rectifier Diode (D5702).
Step 6 Remove the Rectifier Diode (D5702) from the Heatsink A.

Caution: Avoid touching the Heatsink A due to its high temperature after prolonged use. Touching it may lead to injuries.



9.18.2. Assembly of Rectifier Diode (D5702)

Step 1 Apply grease to the Heatsink A.

Step 2 Screw the Rectifier Diode (D5702) to the Heatsink A.

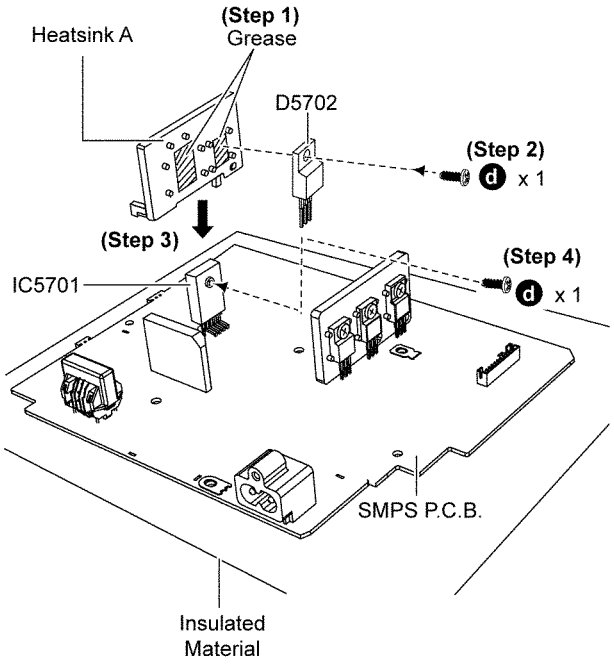
Caution: Ensure the Rectifier Diode (D5702) is tightly screwed to the Heatsink A.

Step 3 Install the Heatsink A with Rectifier Diode (D5702) on SMPS P.C.B. in the direction of arrow.

Caution: Ensure the Heatsink A with Rectifier Diode (D5702) are properly seated on SMPS P.C.B.

Step 4 Screw the Switching Regulator IC (IC5701) to the Heatsink A.

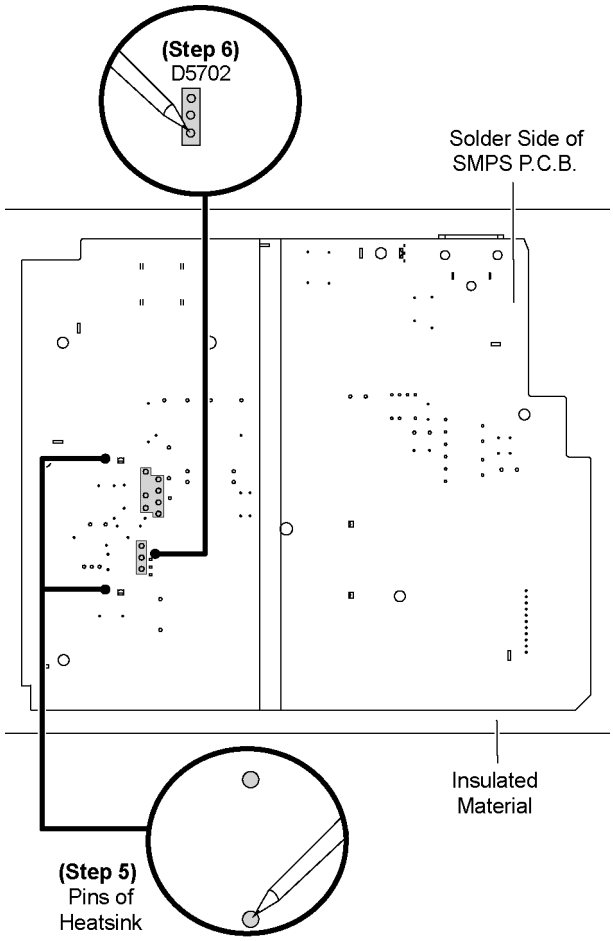
Caution: Ensure that Switching Regulator IC (IC5701) is tightly screwed to the Heatsink A.



Step 5 Solder pins of the Rectifier Diode (D5702) on the solder side of SMPS P.C.B..

Step 6 Solder pins of the Heatsink A on the solder side of SMPS P.C.B..

Caution: Ensure pins of the Rectifier Diode (D5702) are properly seated and soldered on SMPS P.C.B..

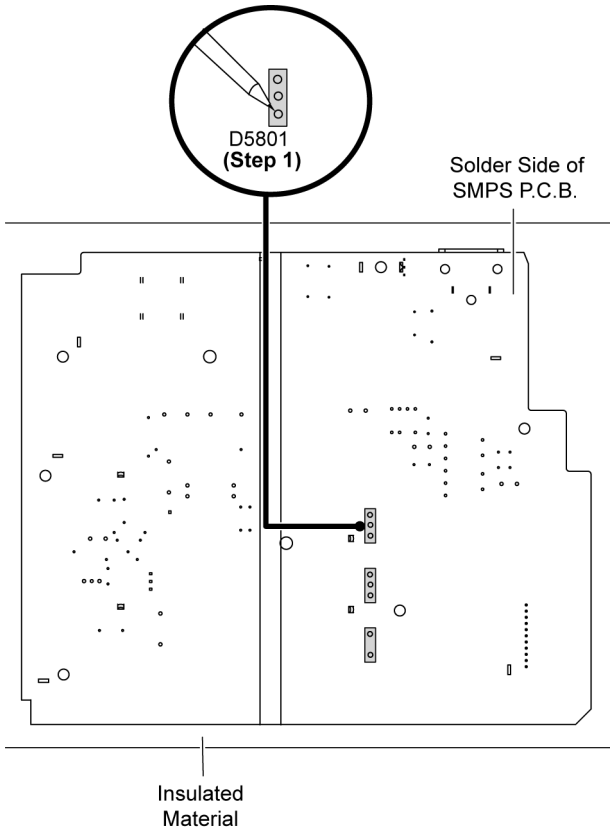


9.19. Replacement of Regulator Diode (D5801)

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

9.19.1. Disassembly of Regulator Diode (D5801)

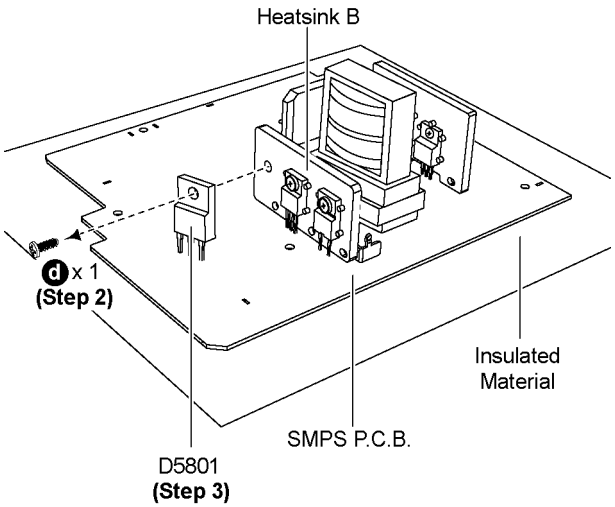
Step 1 Desolder pins of the Regulator Diode (D5801) on the solder side of SMPS P.C.B.



Step 2 Remove 1 screw from the Regulator Diode (D5801).

Step 3 Remove the Regulator Diode (D5801) from the SMPS P.C.B..

Caution: Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.



9.19.2. Assembly of Regulator Diode (D5801)

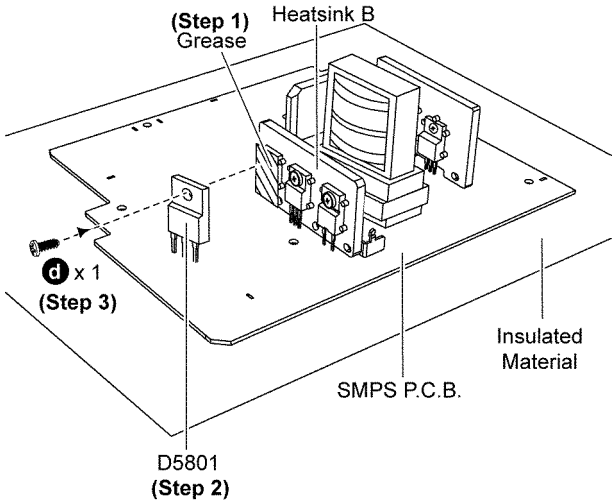
Step 1 Apply grease to the Heatsink B.

Step 2 Install the Regulator Diode (D5801) on SMPS P.C.B.

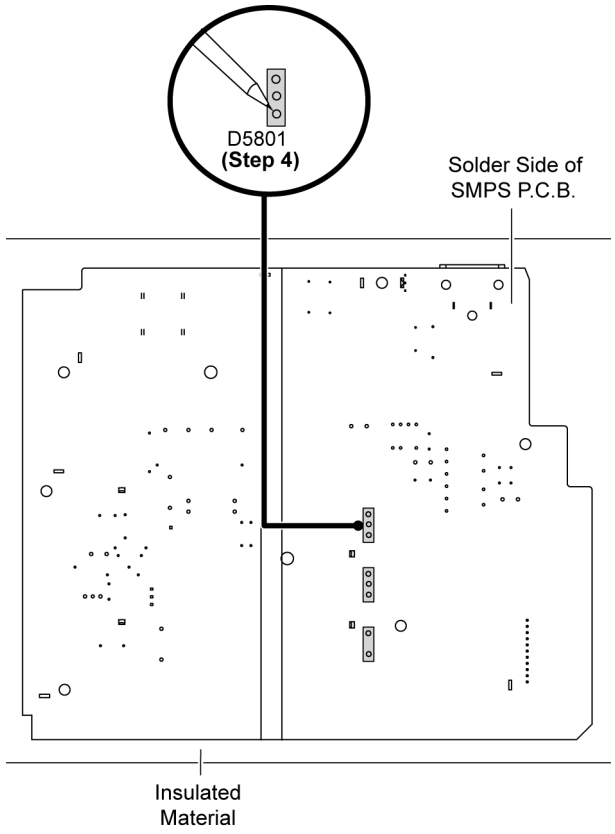
Caution: Ensure pins of the Regulator Diode (D5801) is properly seated on SMPS P.C.B.

Step 3 Screw the Regulator Diode (D5801) to the Heatsink B.

Caution: Ensure the Regulator Diode (D5801) is tightly screwed to the Heatsink B.



Step 4 Solder pins of the Regulator Diode (D5801) on the solder side of SMPS P.C.B..

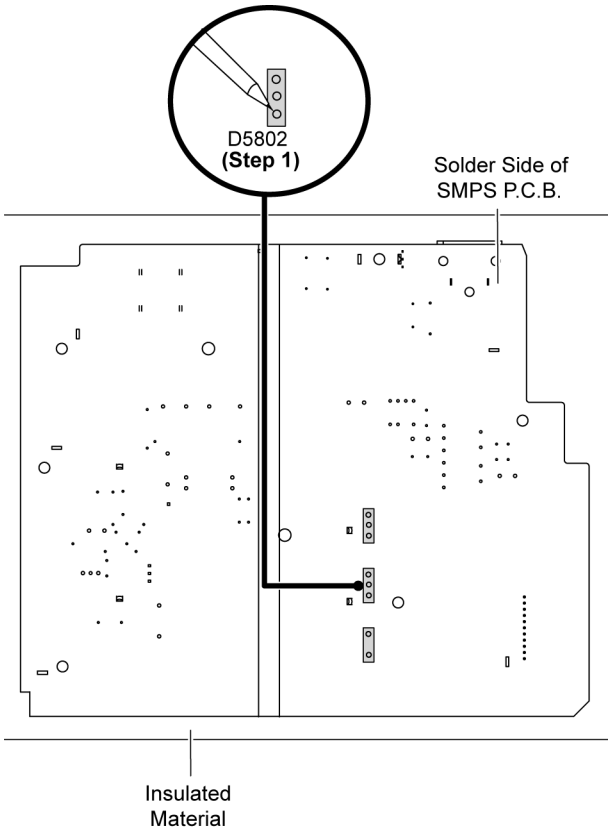


9.20. Replacement of Regulator Diode (D5802)

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

9.20.1. Disassembly of Regulator Diode (D5802)

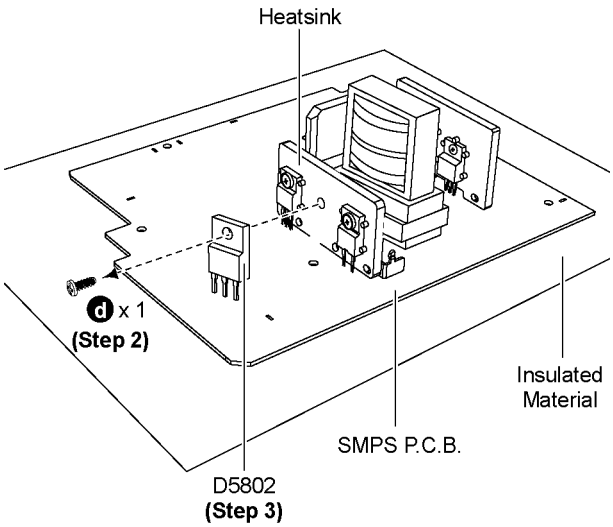
Step 1 Desolder pins of the Regulator Diode (D5802) on the solder side of SMPS P.C.B.



Step 2 Remove 1 screw from the Regulator Diode (D5802).

Step 3 Remove the Regulator Diode (D5802) from SMPS P.C.B..

Caution: Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.



9.20.2. Assembly of Regulator Diode (D5802)

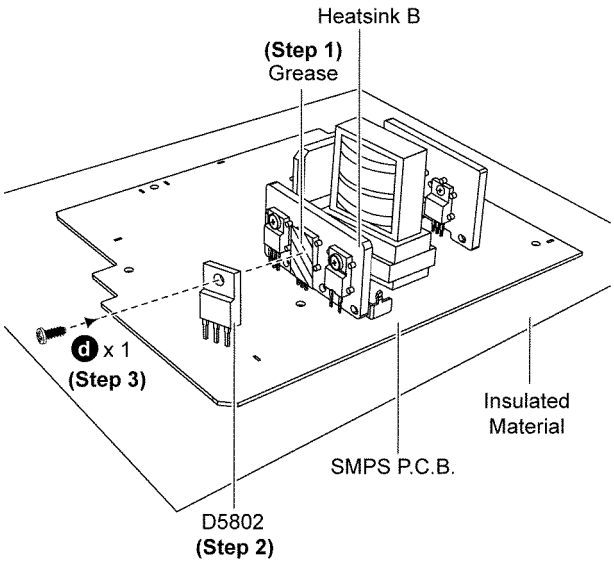
Step 1 Apply grease to the Heatsink B.

Step 2 Install the Regulator Diode (D5802) on SMPS P.C.B..

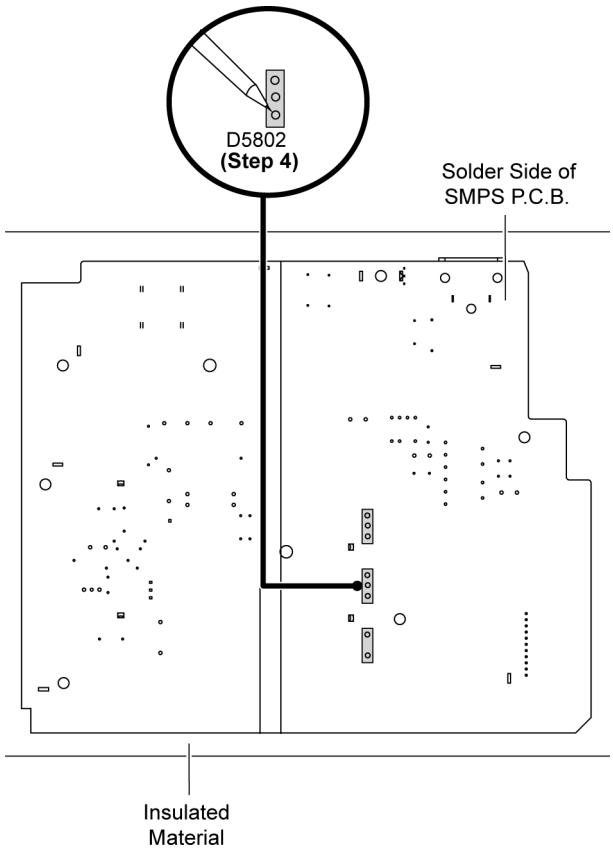
Caution: Ensure pins of the Regulator Diode (D5802) is properly seated on SMPS P.C.B.

Step 3 Screw the Regulator Diode (D5802) to the Heatsink B.

Caution: Ensure the Regulator Diode (D5802) is tightly screwed to the Heatsink B.



Step 4 Solder pins of the Regulator Diode (D5802) on the solder side of SMPS P.C.B..

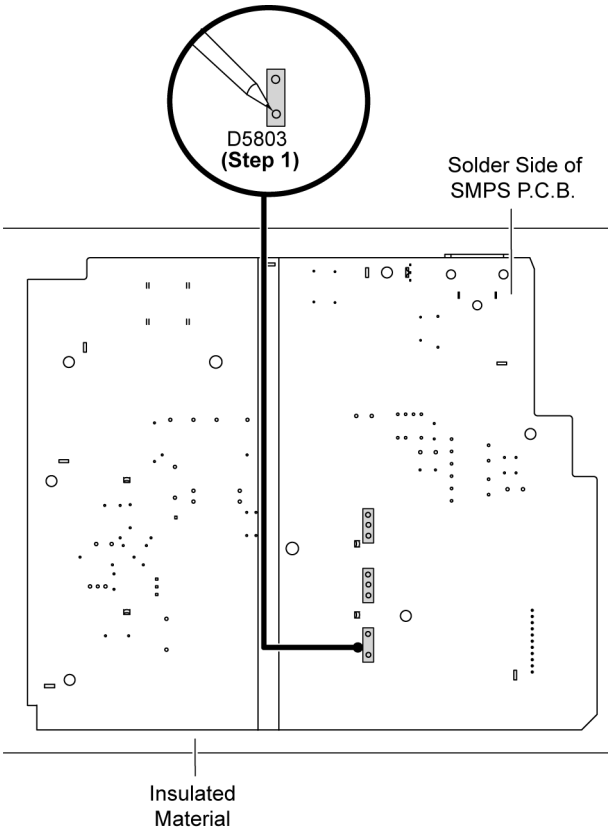


9.21. Replacement of Regulator Diode (D5803)

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

9.21.1. Disassembly of Regulator Diode (D5803)

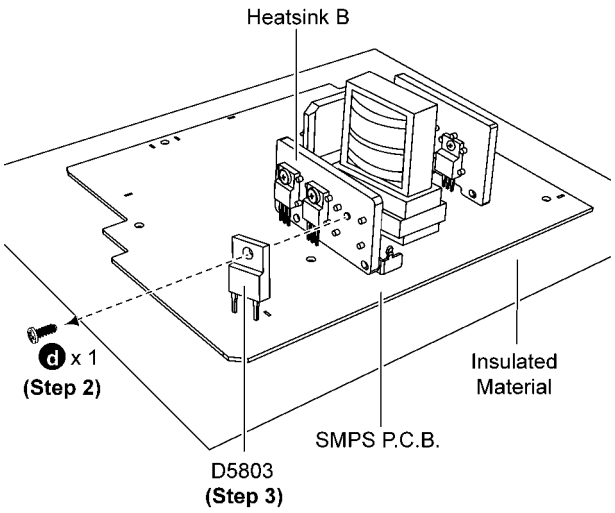
Step 1 Desolder pins of the Regulator Diode (D5803) on the solder side of SMPS P.C.B.



Step 2 Remove 1 screw from the Regulator Diode (D5803).

Step 3 Remove the Regulator Diode (D5803) from the SMPS P.C.B..

Caution: Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.



9.21.2. Assembly of Regulator Diode (D5803)

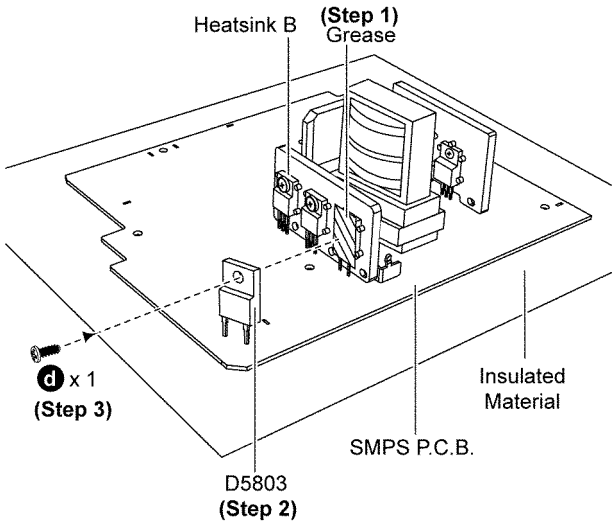
Step 1 Apply grease to the Heatsink B.

Step 2 Install Regulator Diode (D5803) on SMPS P.C.B.

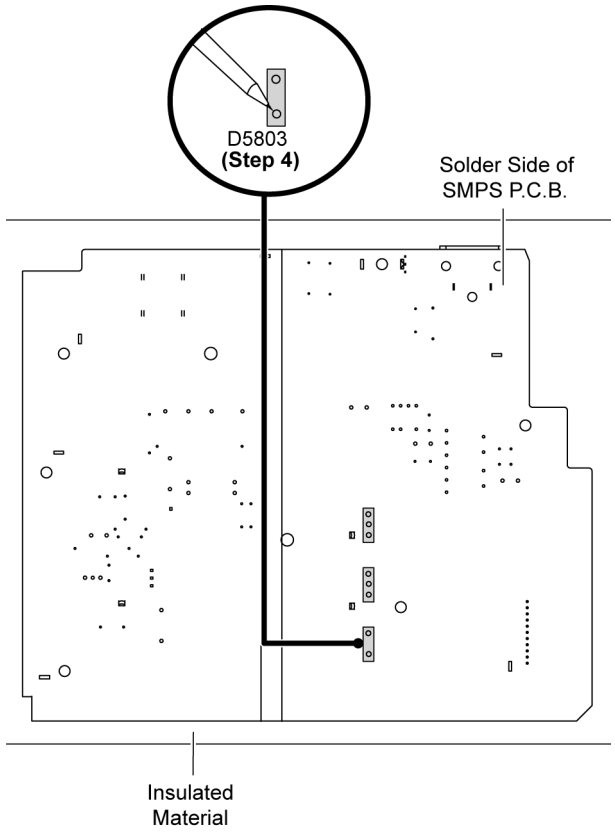
Caution: Ensure pins of the Regulator Diode (D5803) are properly seated on SMPS P.C.B.

Step 3 Screw the regulator diode (D5803) to the Heatsink B.

Caution: Ensure the Regulator Diode (D5803) is tightly screwed to the Heatsink B.



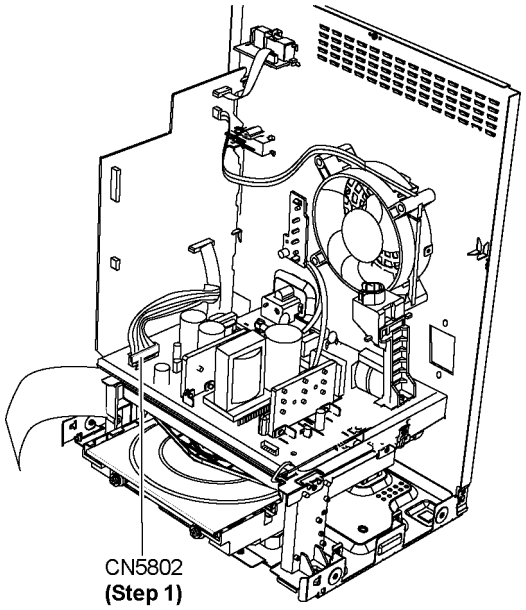
Step 4 Solder pins of the Regulator Diode (D5803) on the solder side of SMPS P.C.B.



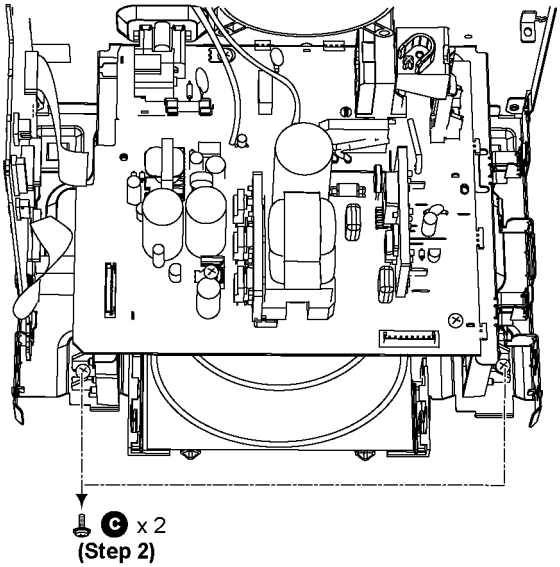
9.22. Disassembly of CD Mechanism Unit (DLS6C)

- **Refer to “Disassembly of Top Cabinet”.**
- **Refer to “Disassembly of Front Panel Assembly”.**
- **Refer to “Disassembly of D-Amp P.C.B.”.**

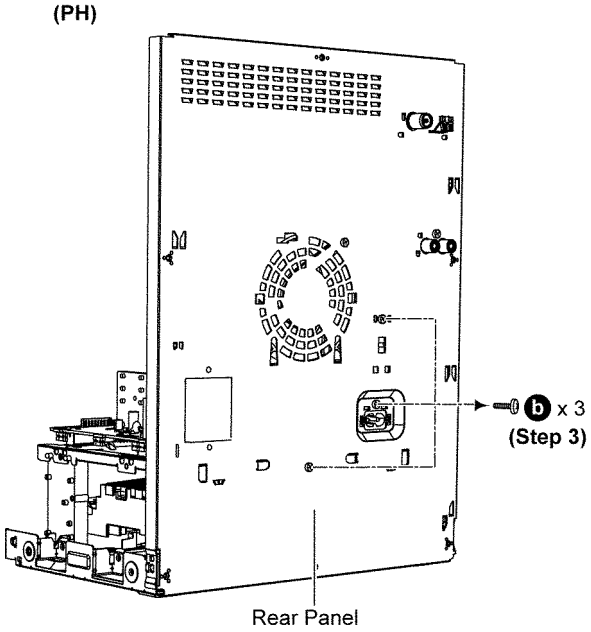
Step 1 Detach 11P Wire at the connector (CN5802) on SMPS P.C.B..



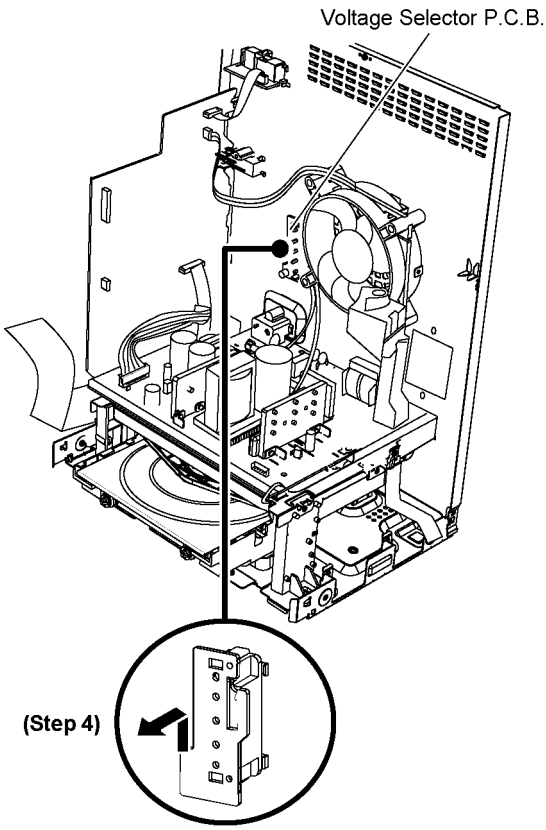
Step 2 Remove 2 screws.



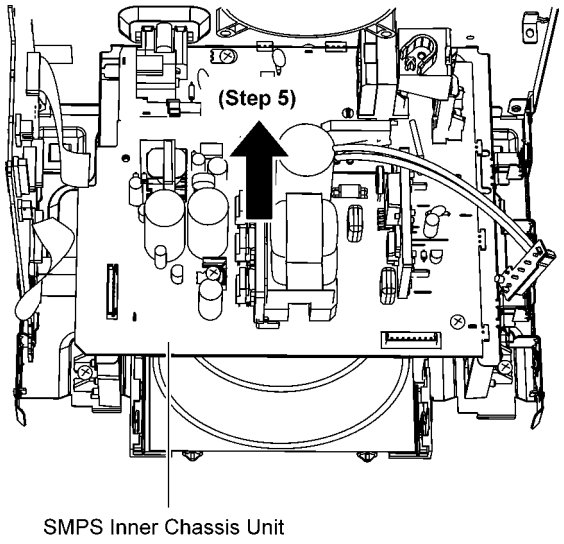
Step 3 Remove 3 screws (For PH only).
Step 3 Remove 2 screws (For PN only).



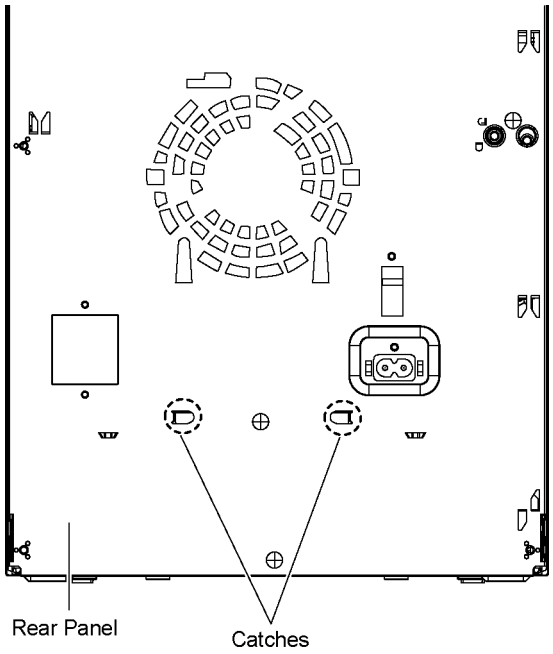
Step 4 Detach Voltage Selector P.C.B. from Rear Panel as arrow shown (For PH only).



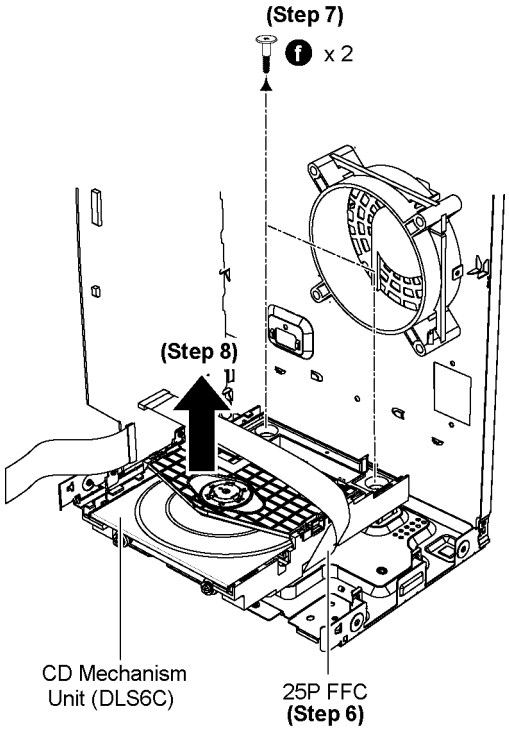
Step 5 Lift up SMPS Inner Chassis Unit.



Caution: During assembling, ensure that SMPS Inner Chassis is catched onto Rear Panel properly.



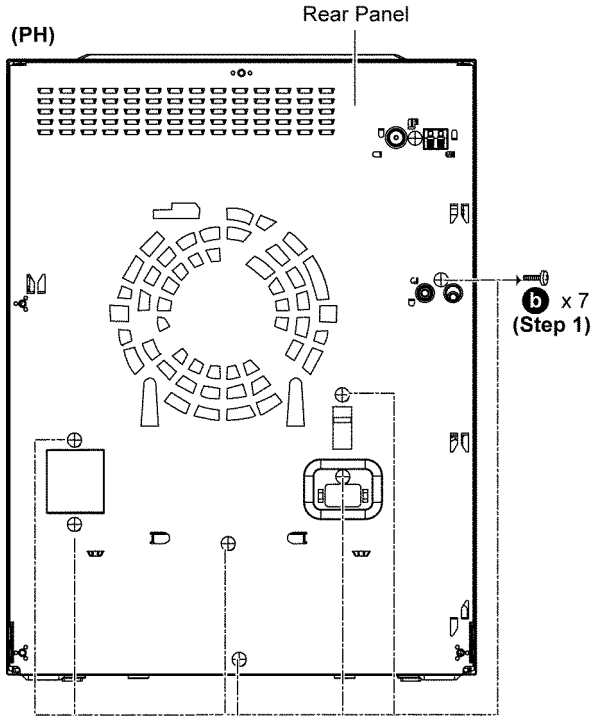
Step 6 Detach 25P FFC from CD Mechanism Unit (DLS6C).
Step 7 Remove 2 screws.
Step 8 Remove CD Mechanism Unit (DLS6C).



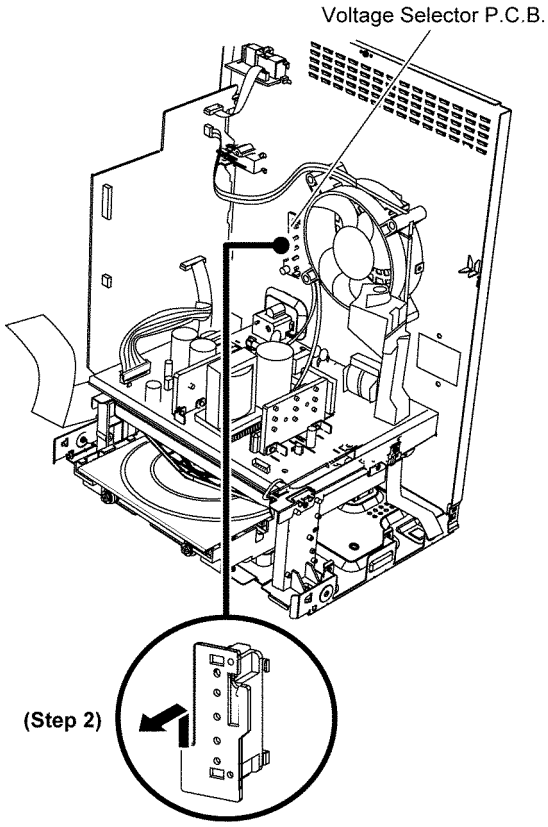
9.23. Disassembly of Rear Panel

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Tuner P.C.B.".**

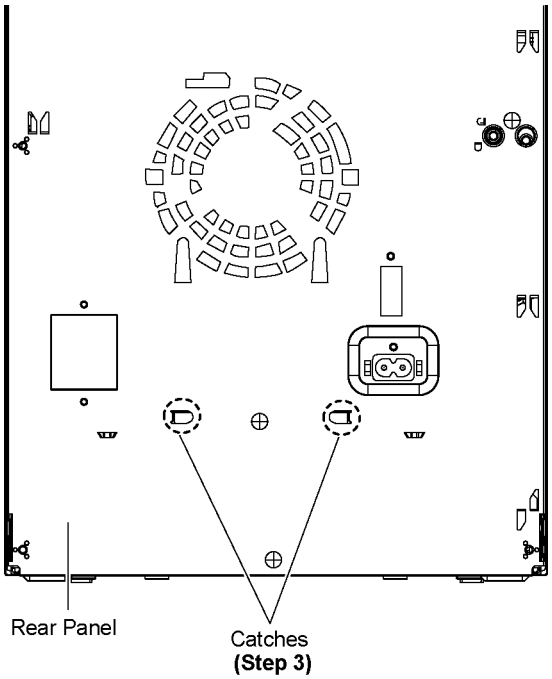
Step 1 Remove 7 screws (For PH only).
Step 1 Remove 6 screws (For PN only).



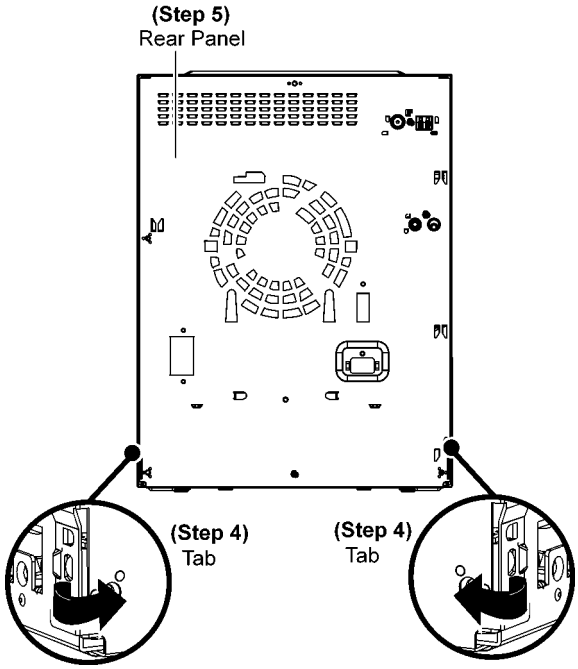
Step 2 Detach Voltage Selector P.C.B. from Rear Panel as arrow shown (For PH only).



Step 3 Lift up SMPS Inner Chassis Unit to release the catch between the SMPS Inner Chassis Unit & the Rear Panel.



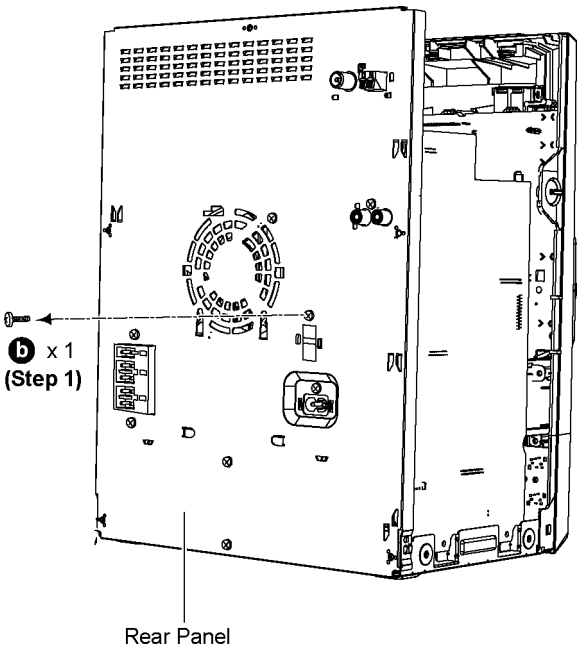
Step 4 Release 2 tabs.
Step 5 Remove Rear Panel.



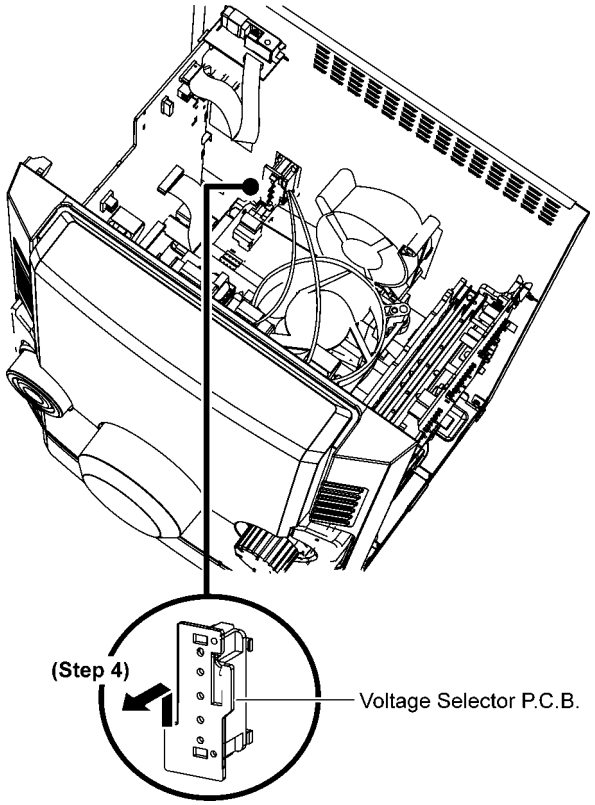
9.24. Disassembly of Voltage Selector P.C.B. (For PH only)

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

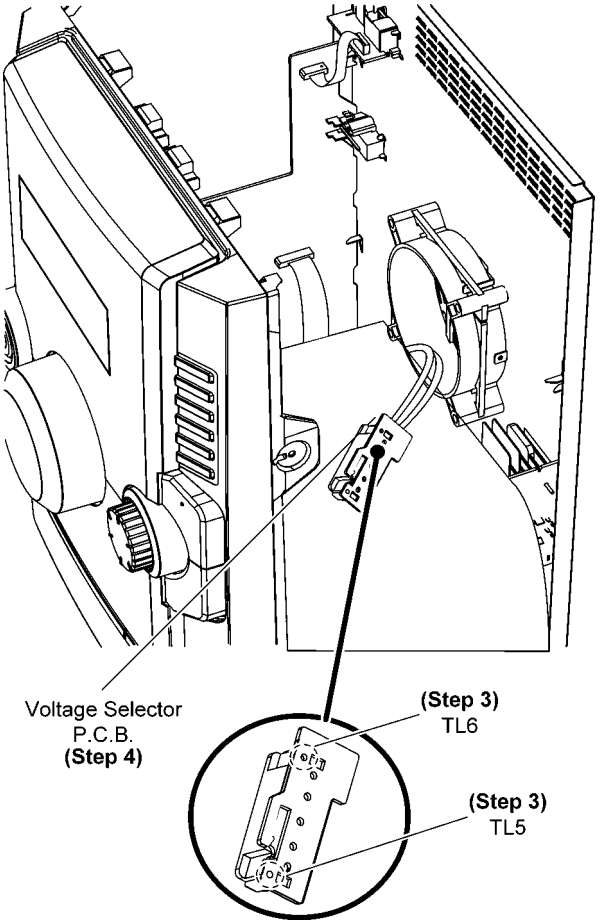
Step 1 Remove 1 screw.



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



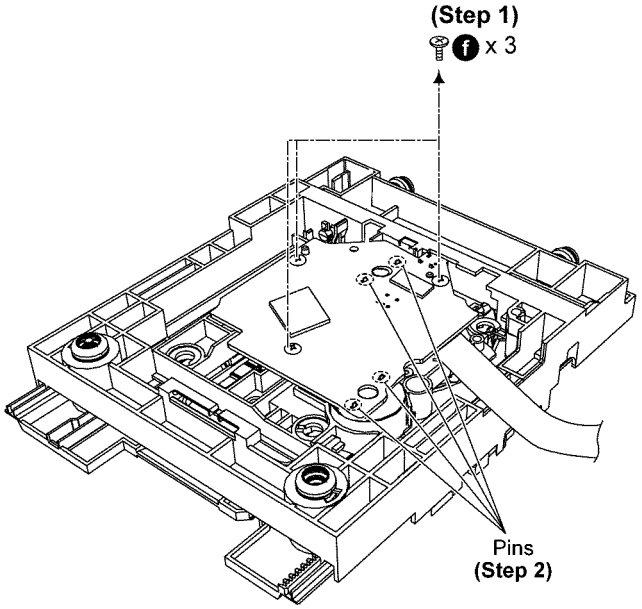
Step 3 Desolder 2 Wire pins, TL5 (Black), TL6 (Red) on the Voltage Selector P.C.B..
Step 4 Remove Voltage Selector P.C.B..



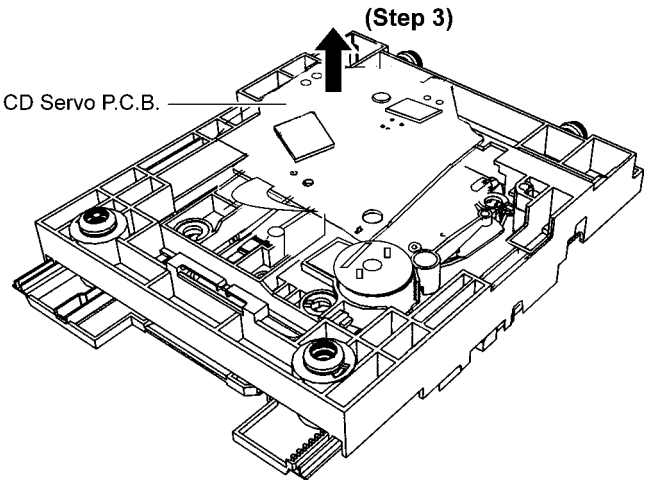
9.25. Disassembly of CD Servo P.C.B.

- **Refer to "Disassembly of CD Mechanism Unit (DLS6C)".**

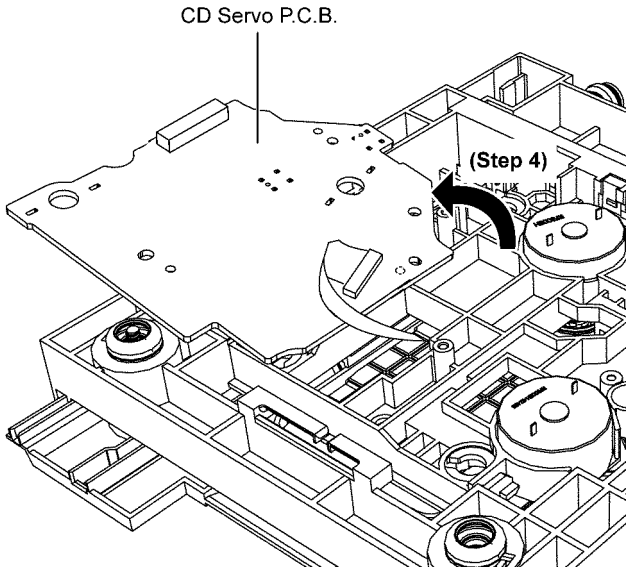
Step 1 Remove 3 screws.
Step 2 Desolder 4 pins.



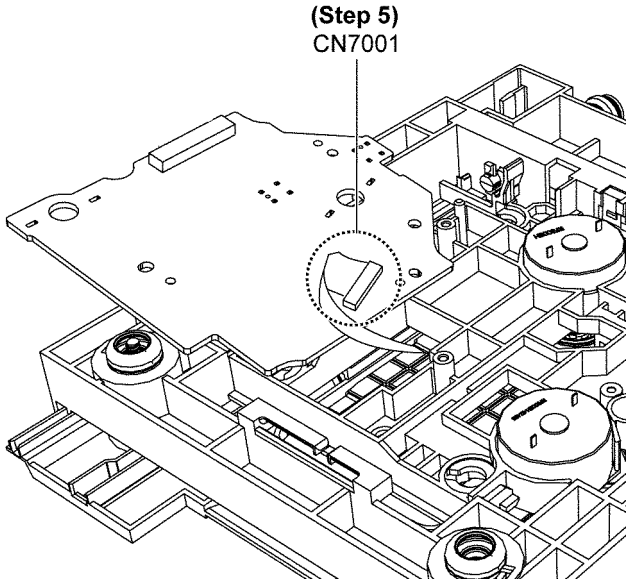
Step 3 Slightly lift up the CD Servo P.C.B.



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



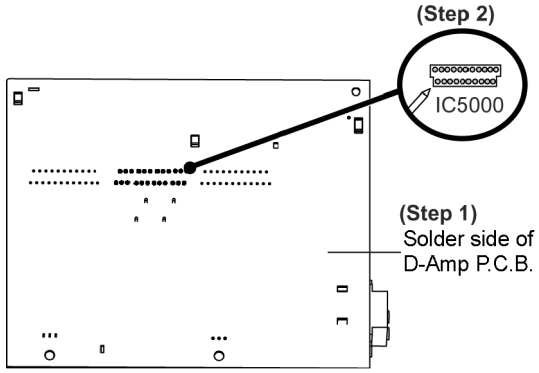
Step 5 Detach 16P FPC at the connector (CN7001) on CD Servo P.C.B.



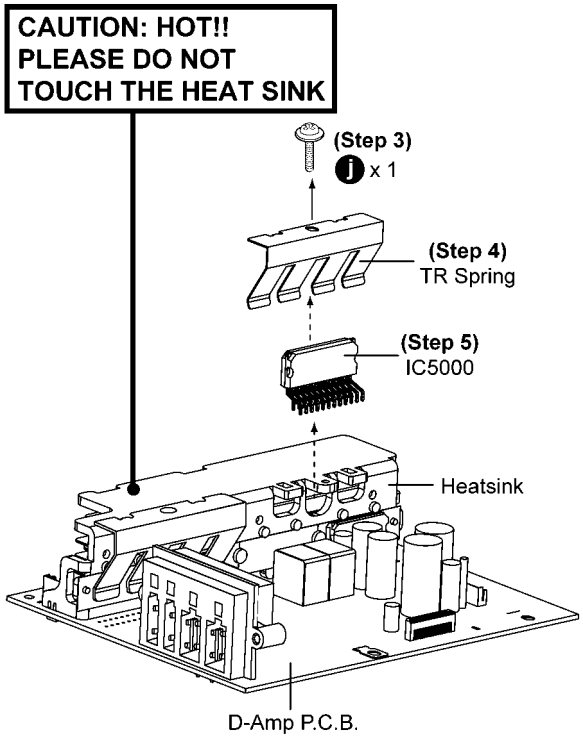
9.26. Replacement of Audio Digital Amp IC (IC5000)

- **Refer to "Disassembly of D-Amp P.C.B.".**

Step 1 Flip over D-Amp P.C.B..
Step 2 Desolder pins of the Audio Digital Amp IC (IC5000) on the solder side of D-Amp P.C.B..



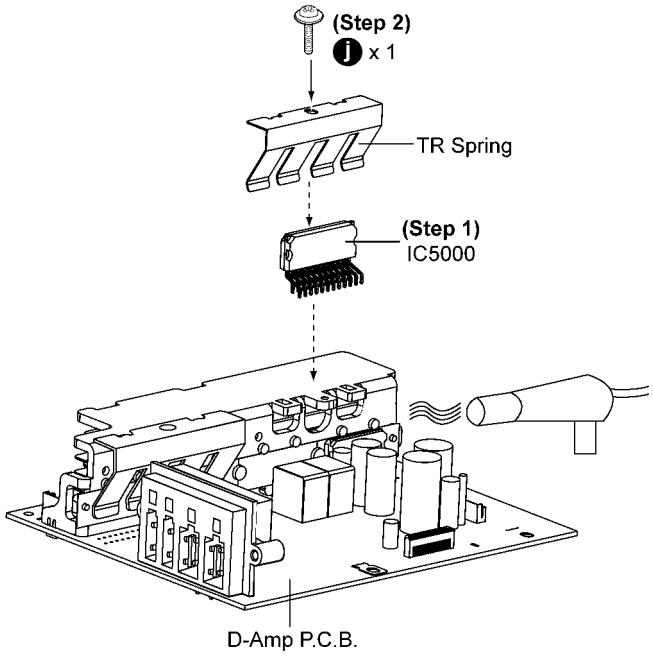
Step 3 Remove 1 screw.
Step 4 Remove TR Spring in the direction of arrow shown.
Step 5 Remove Audio Digital Amp IC (IC5000).
Caution: During replacement of the part, avoid touching the heatsink, it may lead to injuries.



9.26.1. Assembly of Audio Digital Amp IC (IC5000)

Step 1 Mount the Audio Digital Amp IC (IC5000) on to D-Amp P.C.B..
Step 2 Screw back TR Spring to hold the Audio Digital Amp IC (IC5000) onto the Heatsink.
Step 3 Solder the pins of Audio Digital Amp IC.
Step 4 Use a blower to remove the minute particles after the screwing of TR Spring.

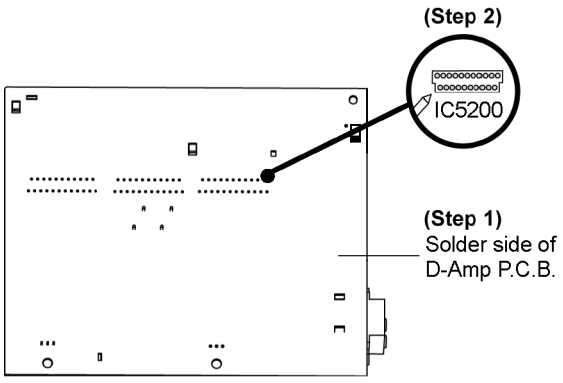
Caution: Ensure pins of the Audio Digital Amp IC (IC5000) are properly seated and soldered on D-Amp P.C.B..



9.27. Replacement of Audio Digital Amp IC (IC5200)

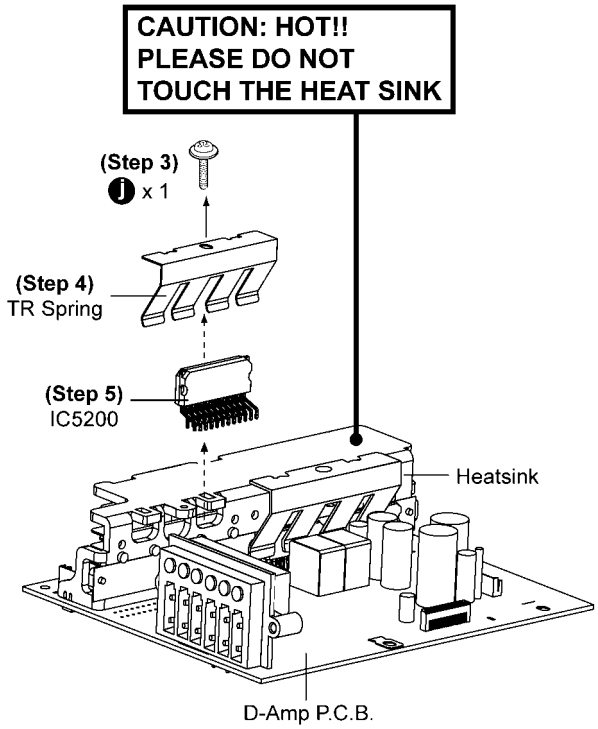
- **Refer to "Disassembly of D-Amp P.C.B.".**

Step 1 Flip over D-Amp P.C.B..
Step 2 Desolder pins of the Audio Digital Amp IC (IC5200) on the solder side of D-Amp P.C.B..



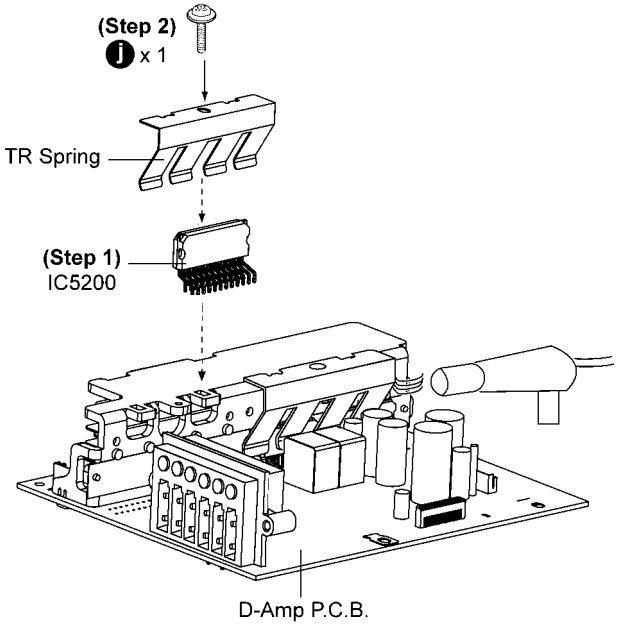
Step 3 Remove 1 screw.
Step 4 Remove TR Spring in the direction of arrow shown.
Step 5 Remove Audio Digital Amp IC (IC5200) from the heat sink unit.

Caution: During replacement of the part, avoid touching the heatsink, it may lead to injuries.



9.27.1. Assembly of Audio Digital Amp IC (IC5200)

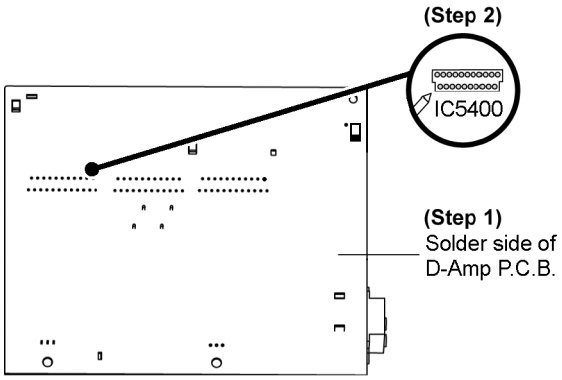
Step 1 Mount the Audio Digital Amp IC (IC5200) on to D-Amp P.C.B..
Step 2 Screw back TR Spring to hold the Audio Digital Amp IC (IC5200) onto the Heatsink Unit.
Step 3 Solder the pins of Audio Digital Amp IC.
Step 4 Use a blower to remove the minute particles after the screwing of TR Spring.
Caution: Ensure pins of the Audio Digital Amp IC (IC5200) are properly seated and soldered on D-Amp P.C.B..



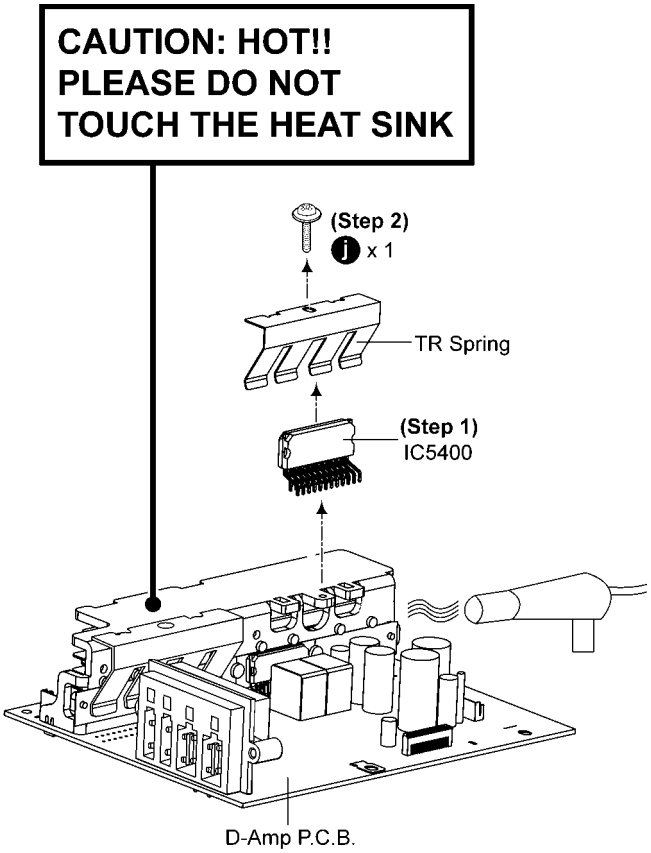
9.28. Replacement of Audio Digital Amp IC (IC5400)

- **Refer to "Disassembly of D-Amp P.C.B.".**

Step 1 Flip over D-Amp P.C.B..
Step 2 Desolder pins of the Audio Digital Amp IC (IC5400) on the solder side of D-Amp P.C.B..

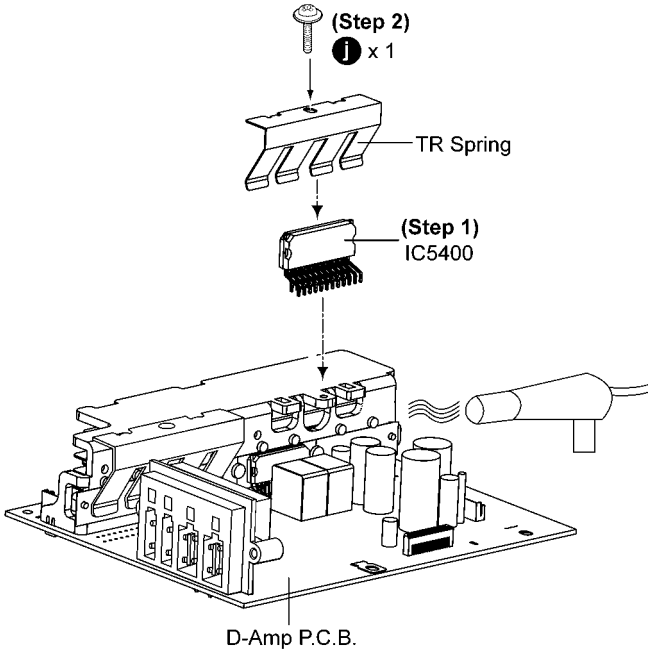


Step 3 Remove 1 screw.
Step 4 Remove TR Spring in the direction of arrow shown.
Step 5 Remove Audio Digital Amp IC (IC5400) from the heat sink unit.
Caution: During replacement of the part, avoid touching the heatsink, it may lead to injuries.



9.28.1. Assembly of Audio Digital Amp IC (IC5400)

Step 1 Mount the Audio Digital Amp IC (IC5400) on to D-Amp P.C.B..
Step 2 Screw back TR Spring to hold the Audio Digital Amp IC (IC5400) onto the Heatsink.
Step 3 Solder the pins of Audio Digital Amp IC.
Step 4 Use a blower to remove the minute particles after the screwing of TR Spring.
Caution: Ensure pins of the Audio Digital Amp IC (IC5400) are properly seated and soldered on D-Amp P.C.B..

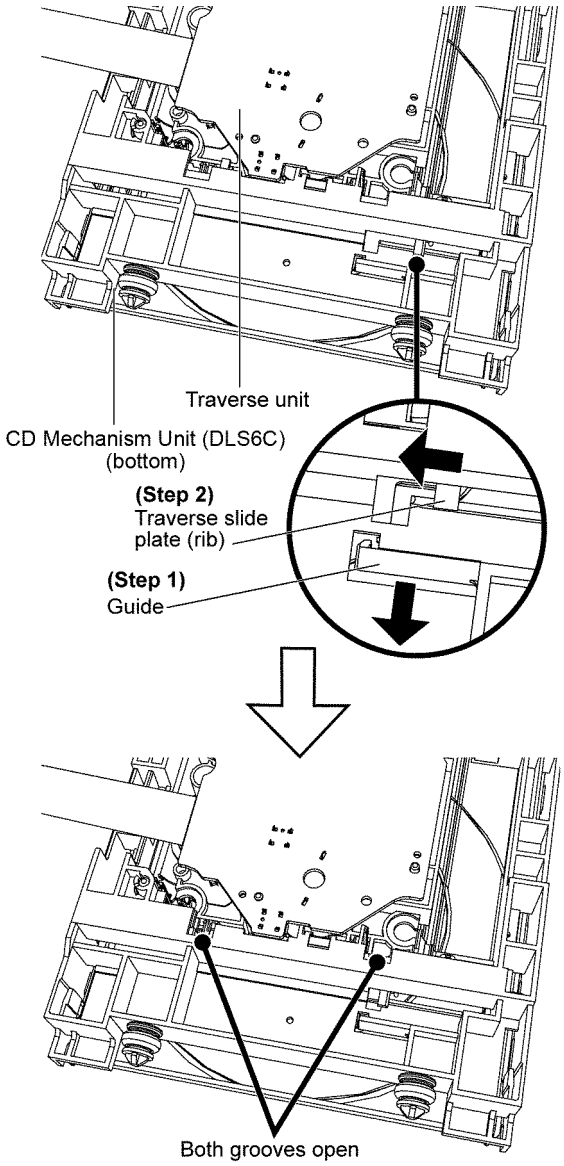


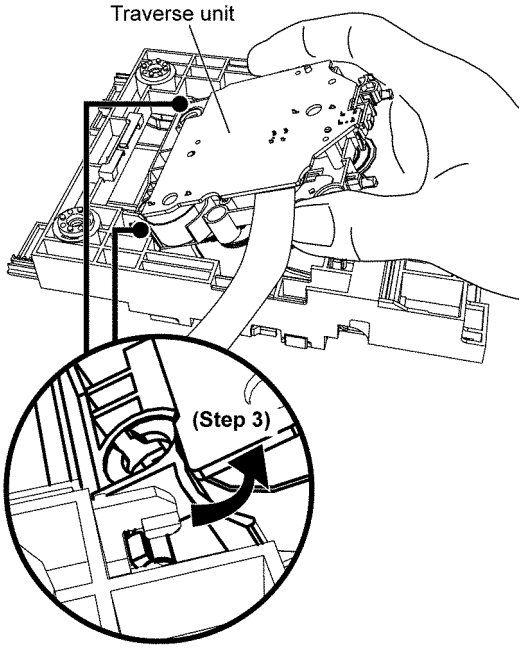
10 Replacement of Traverse Unit

10.1. Disassembling Procedures

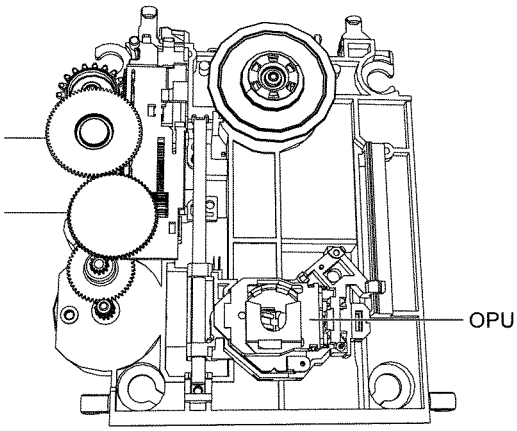
Step 1 Release the guide.

Step 2 Push the Traverse Slide Plate (rib), ensure both grooves are opened.





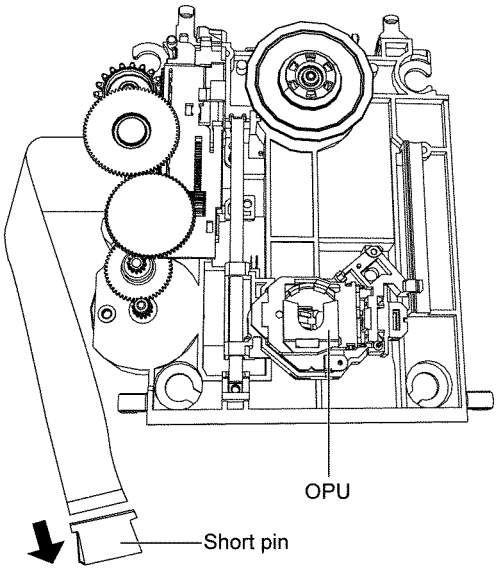
Caution: Ensure the OPU is face upwards, avoid touching the surface of the traverse unit.



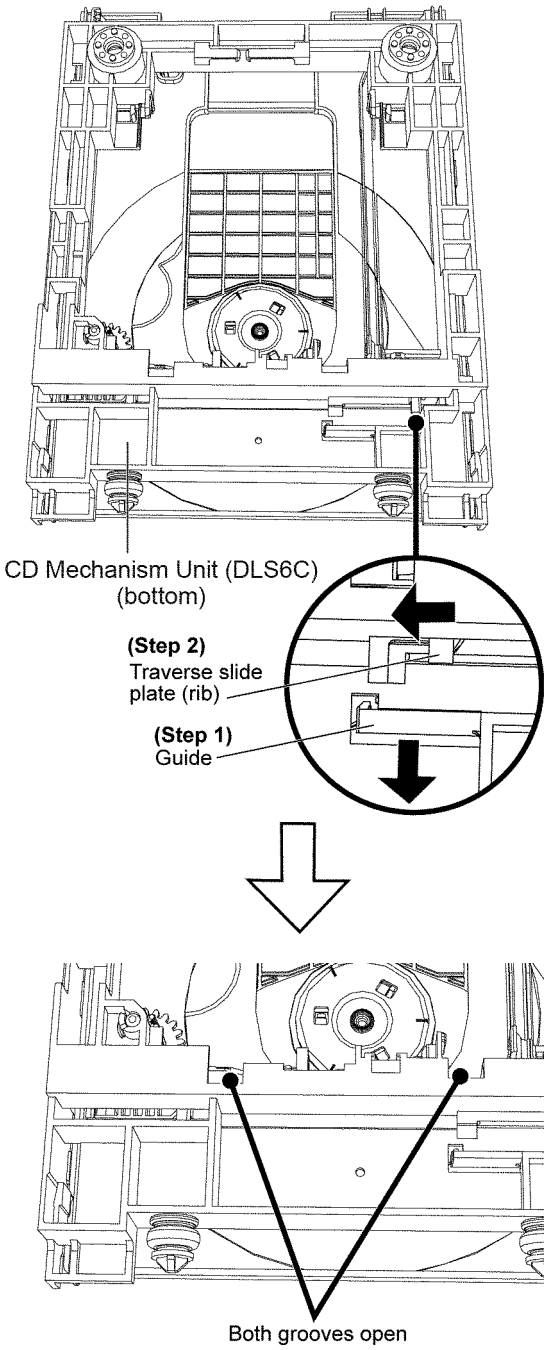
Step 3 Slide out the Traverse Unit as arrow shown.

10.2. Assembling Procedure

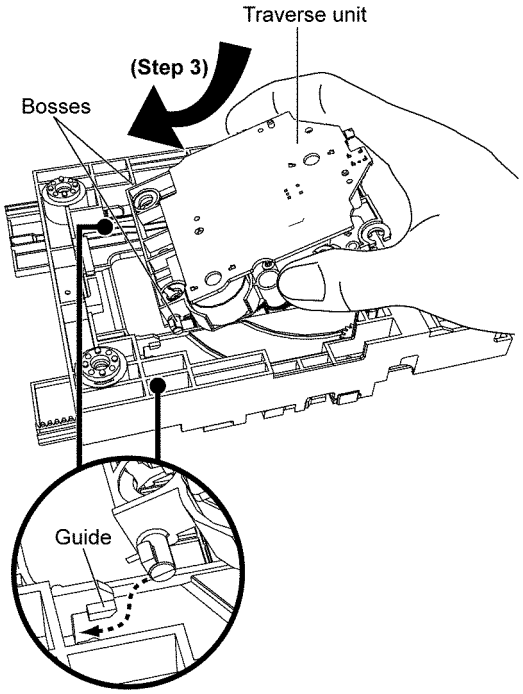
Caution: Removal of the short pin is necessary for replacement of new traverse unit.



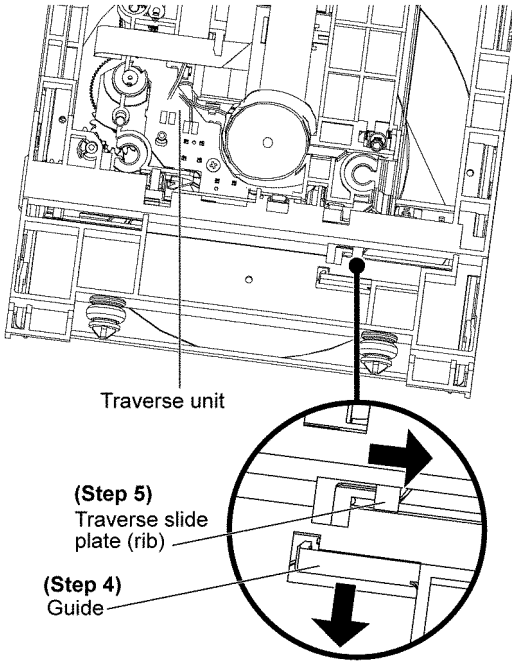
Step 1 Release the guide.
Step 2 Push the Traverse Slide Plate (rib), ensure both grooves are opened.



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



Step 4 Release the guide.
Step 5 Push the Traverse Slide Plate (rib) to lock the Traverse Unit in.

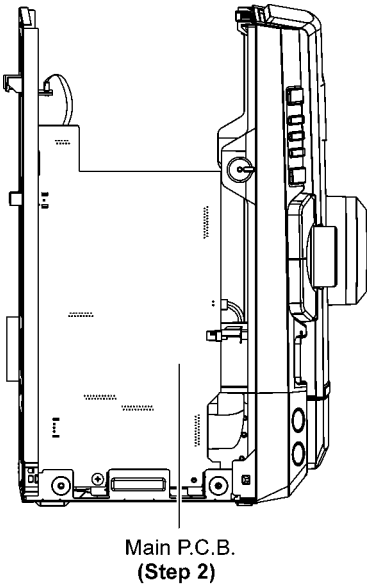


11 Service Position

Note: For description of the disassembly procedures, see the Section 9.

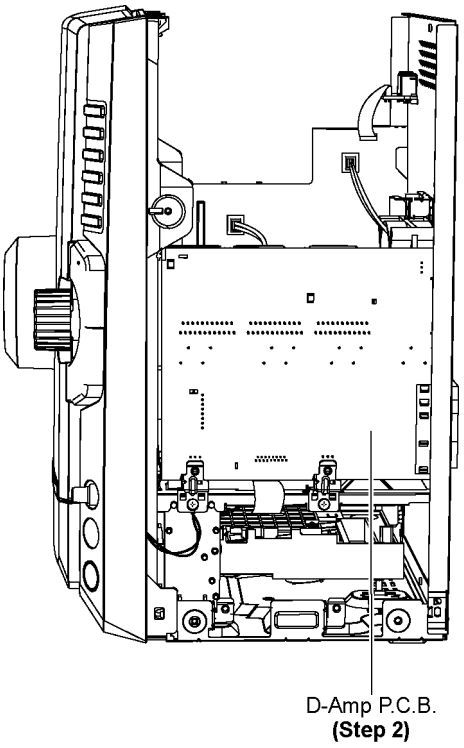
11.1. Checking and Repairing of Main P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Main P.C.B. can be checked & repaired at its original position.



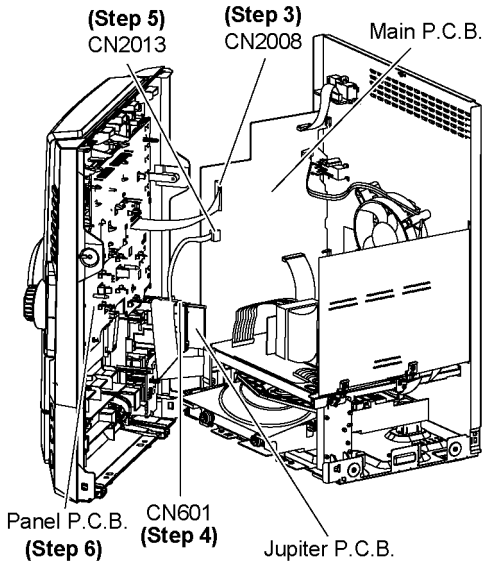
11.2. Checking and Repairing of D-Amp P.C.B.

Step 1 Remove Top Cabinet.
Step 2 D-Amp P.C.B. can be checked & repaired at its original position.



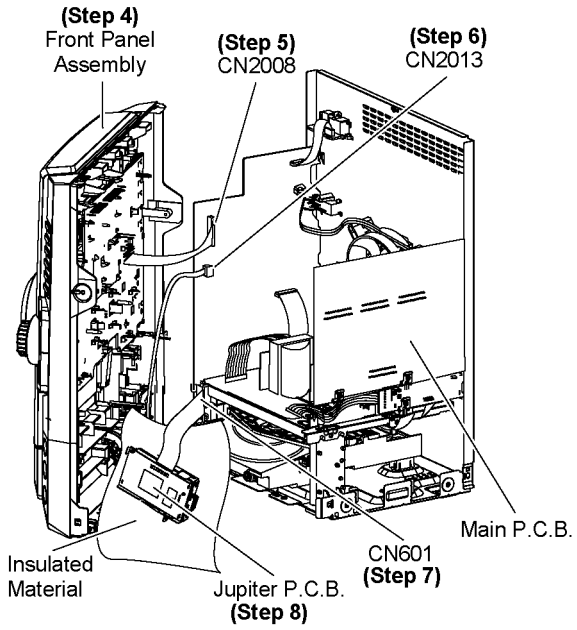
11.3. Checking and Repairing of Panel P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Assembly.
Step 3 Attach 30P FFC to the connector (CN2008) on Main P.C.B..
Step 4 Attach 30P FFC to the connector (CN601) on Jupiter P.C.B..
Step 5 Attach 2P Wire at the connector (CN2013) on Main .P.C.B..
Step 6 Panel P.C.B. can be checked and repaired as diagram shown.



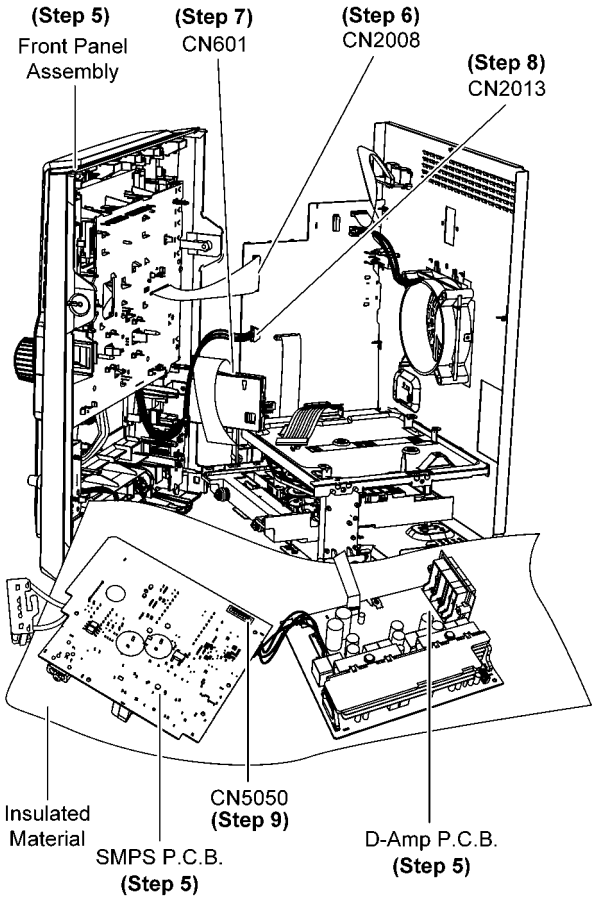
11.4. Checking and Repairing of Jupiter P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Assembly.
Step 3 Remove Jupiter P.C.B..
Step 4 Position Front Panel Assembly as diagram shown.
Step 5 Attach 30P FFC to the connector (CN2008) on Main P.C.B..
Step 6 Attach 2P Wire to the connector (CN2013) on Main P.C.B..
Step 7 Attach 30P FFC to the connector (CN601) on Jupiter P.C.B..
Caution: Insulated Material is required to insulate Jupiter P.C.B. from other parts.
Step 8 Jupiter P.C.B. can be checked and repaired as diagram shown.

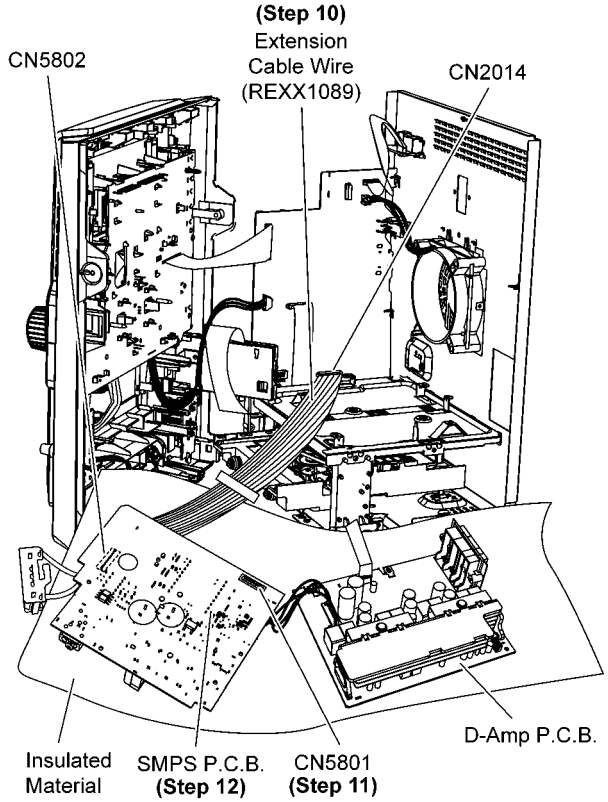


11.5. Checking and Repairing of SMPS P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Assembly.
Step 3 Remove D-Amp P.C.B..
Step 4 Remove SMPS P.C.B..
Step 5 Position Front Panel Assembly, SMPS P.C.B. & D-Amp P.C.B. as diagram shown.
Caution: Insulated Material is required to insulate SMPS P.C.B. from other parts.
Step 6 Attach 30P FFC to the connector (CN2008) on Main P.C.B..
Step 7 Attach 30P FFC to the connector (CN601) on Jupiter P.C.B..
Step 8 Attach 2P Wire to the connector (CN2013) on Main P.C.B..
Step 9 Attach 17P FFC to the connector (CN5050) on D-Amp P.C.B..



Step 10 Extend the Cable Wire with extension Cable Wire (REXX1089) (11P Cable Wire from CN2014 to CN5802).
Step 11 Connect 6P Cable Wire to the connector (CN5801) on SMPS P.C.B..
Step 12 SMPS P.C.B. can be checked & repaired as diagram shown.



12 Voltage & Waveform 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.

12.1. CD Servo P.C.B.

REF NO.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	3.5	1.5	0	0	0	1.7	1.7	1.4	1.7	1.8	1.7	1.7	1.7
STANDBY	0	0	0	0	0	0	0	3.5	1.5	0	0	0	1.7	1.7	1.4	1.7	1.8	1.7	1.7	1.7

REF NO.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	2.0	2.0	1.8	1.8	1.8	1.8	0.2	2.6	3.4	2.0	1.7	1.3	1.8	1.2	1.3	1.3	1.7	0	0
STANDBY	0	2.0	2.0	1.8	1.8	1.8	1.8	0.2	2.6	3.4	2.0	1.7	1.3	1.8	1.2	1.3	1.3	1.7	0	0

REF NO.	IC7001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	1.7	0.9	1.4	1.4	0.7	2.0	3.5	1.6	0	1.3	1.6	3.1	0.9	1.5	1.5	1.7	1.7	1.7	0
STANDBY	0	1.7	0.9	1.4	1.4	0.7	2.0	3.5	1.6	0	1.3	1.6	3.1	0.9	1.5	1.5	1.7	1.7	1.7	0

REF NO.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	1.5	3.5	0	0	0	3.4	3.4	3.4	0.1	0.1	0	0	1.7	3.5	3.4	0	0	0	0
STANDBY	0	1.5	3.5	0	0	0	3.4	3.4	3.4	0.1	0.1	0	0	1.7	3.5	3.4	0	0	0	0

REF NO.	IC7002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.6	0	1.6	0	0	0	0	0	0	7.7	4.4	3.5	3.6	3.6	3.5	3.8	3.7	3.6	7.7	0
STANDBY	1.7	0	1.7	3.3	0	0	0	0	0	7.7	4.0	4.0	3.6	3.6	3.6	3.6	3.6	3.6	7.7	0

REF NO.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	7.7	0	0	0	7.7	1.6	1.6	1.6	0	0										
STANDBY	7.7	0	0	0	7.7	1.7	1.7	1.7	0	0										

REF NO.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.1	2.0	2.4																	
STANDBY	3.4	0	3.4																	

SA-AKX70PH/PN CD SERVO P.C.B.

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

REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	4.2	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.6	4.6	0	3.2	3.3
STANDBY	0	4.4	4.5	4.4	4.5	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0	3.2	3.3

REF NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9.0	4.6	4.5	4.6	0.8	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.5	0	4.3
STANDBY	9.1	4.6	4.6	4.6	0.7	4.5	4.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0	4.6

REF NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	0	4.4	0	4.5	4.4	4.5	4.4	0	0	4.4	0	4.5								
STANDBY	0	4.6	0	4.6	4.6	4.6	4.6	0	0	4.6	0	4.6								

REF NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0	0	9.1												
STANDBY	0	0	0	0	0	0	0	9.1												

REF NO.	IC2003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.2	3.2	0.1	3.2	0	0	0	3.2	3.2	0	1.5	1.5	0	1.0	1.6	3.3	1.7	3.2	3.2
STANDBY	0	3.2	3.2	0.1	3.3	0	0	0	3.3	3.3	0	1.5	1.5	0	1.1	1.7	3.3	1.8	3.3	3.3

REF NO.	IC2003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.2	3.2	3.3	0	3.2	0	1.8	3.3	0	3.3	0	0	0	0	0	0	1.8	0	0	0
STANDBY	3.3	3.2	3.2	0	3.2	0	1.8	3.3	0	3.3	0	0	0	0	0	0	1.8	0	0	0

REF NO.	IC2003																			
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	0.3	3.2	3.2	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0.2	3.0	3.0	0	0	0	0	0	0	0

REF NO.	IC2003																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	0	0	0	0	3.3	0	3.3	0	0	0	3.3	3.3	3.4	3.3	0	0
STANDBY	0	0	0	0	0	0	0	0	3.3	0	3.2	0	0	0	3.2	3.2	3.3	3.2	0	3.2

REF NO.	IC2003																			
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	3.3	0	0	3.3	0	0	3.3	0	0	0	0	0.7	3.1	2.1	0	3.1	3.1	3.1
STANDBY	2.5	0	3.2	0	3.2	32.	0	0	3.2	0	0	0	0	0.8	3.2	2.2	0	3.2	3.2	3.2

REF NO.	IC2004																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0	0	12.0												
STANDBY	0	0	0	0	0	0	0	12.0												

SA-AKX70PH/PN MAIN P.C.B.

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

REF NO.	IC2005																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	6.0	6.0	6.0	0	5.8	5.8	5.8	11.7												
STANDBY	5.7	5.9	5.9	0	5.9	5.9	5.9	11.9												

REF NO.	IC2007																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0.9	0	3.3												
STANDBY	0	0	0	0	0	2.1	0	3.3												

REF NO.	IC2010																			
MODE	1	2	3																	
CD PLAY	16.3	0	12.1																	
STANDBY	16.3	0	12.1																	

REF NO.	IC2011																			
MODE	1	2	3	4	5															
CD PLAY	16.3	5.2	0	1.0	2.7															
STANDBY	16.4	5.2	0	1.0	2.7															

REF NO.	Q2000				Q2001				Q2002				Q2003				Q2004			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0		0	0	0		0	0	0		0	0	0		3.2	3.2	0	
STANDBY	0	0	0		0	0	0		0	0	0		0	0	0		3.2	3.2	0	

REF NO.	Q2005				Q2006				Q2007				Q2008				Q2009			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	3.2	3.3	0		3.2	3.2	0		0	0	12.0		0	0	12.0		0	11.5	3.3	
STANDBY	3.2	3.2	0		3.2	3.2	0		0	0	12.0		0	0	12.0		0	11.5	3.3	

REF NO.	Q2010				Q2011				Q2012							Q2013				
MODE	E	C	B		E	C	B		1	2	3	4	5	6		E	C	B		
CD PLAY	0	12.0	3.3		0	3.2	0		0	0	0	0	0	0		0	0	3.3		
STANDBY	0	12.0	3.3		0	3.2	0		0	0.7	0	0	0.7	0		0	0	3.3		

REF NO.	Q2014				Q2015				Q2016				Q2017				Q2018			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	3.3	3.3	0		0	12.0	0		0	12.0	0		0.3	3.2	0		4.3	5.2	5.0	
STANDBY	3.3	3.3	0		0	12.0	0		0	12.0	0		0.4	3.3	0		4.3	5.1	5.0	

REF NO.	Q2021				Q2022				Q2025				Q2027				Q2029			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	9.0	16.3	10.0		3.5	5.2	4.1		16.3	0	18.0		12.1	0	0		0	0	0.5	
STANDBY	9.0	16.3	10.0		3.5	5.2	4.2		16.5	0	18.0		11.9	0	0		0	0	0.5	

REF NO.	Q2033				Q2034				Q2035				Q2036								
MODE	E	C	B		E	C	B		E	C	B		1	2	3	4	5	6			
CD PLAY	0	3.0	0		0	0	0.6		0.2	6.9	-0.1		0	0	0	0	0	0			
STANDBY	0	3.1	0		0	0	0.6		0.2	7.1	-0.1		0	0.7	0	0	0.7	0			

SA-AKX70PH/PN MAIN P.C.B.

12.4. Jupiter P.C.B. (1/3)

REF NO.	IC503																			
MODE	1	2	3	4	5															
CD PLAY	5.2	0	0	0	0															
STANDBY	5.2	0	0	0	0															

REF NO.	IC551																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	0	0	0	2.6	0	5.2	3.4	0	1.3	1.7	1.7	1.7	3.3	3.4	0	0				
STANDBY	0	0	0	2.6	0	5.2	3.4	0	1.3	1.7	1.7	1.7	3.3	3.4	0	0				

REF NO.	IC552																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	1.7	1.7	0.9	1.7	3.3	0	0	5.2	5.2	0	0	2.6	0	5.2	0	0				
STANDBY	1.7	1.7	0.9	1.7	3.3	0	0	5.2	5.2	0	0	2.6	0	5.2	0	0				

REF NO.	IC701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	3.4	3.4	0	3.4	0.8	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	3.4	3.4	0	3.4	0.7	0	0	0	0	0

REF NO.	IC701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	3.4	0	3.4	3.4	0.7	3.4	0.7	3.4	0.7	3.4	0.7	3.4	3.4	0.7	3.4
STANDBY	0	0	0	0	0	3.4	0	3.4	3.4	0.5	3.4	0.7	3.4	0.7	3.4	0.7	3.4	3.4	0.7	3.4

REF NO.	IC701																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	0.8	3.4	0.8	3.4	0	0	0	0												
STANDBY	0.7	3.4	0.7	3.4	0	0	0	0												

REF NO.	IC751																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.4	1.5	3.4	1.5	1.5	0	1.5	1.6	3.4	1.4	1.7	0	1.4	3.4	3.3	3.4	3.4	3.4	3.4	0.1
STANDBY	3.4	1.5	3.4	1.5	1.5	0	1.5	1.6	3.4	1.4	1.7	0	1.4	3.4	3.3	3.4	3.4	3.4	3.4	0.1

REF NO.	IC751																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.4	0	0	0	0	0	3.4	0	0	0	0	0	0	0	0	0	3.4	1.6	3.3	0
STANDBY	0.4	0	0	0	0	0	3.4	0	0	0	0	0	0	0	0	0	3.4	1.6	3.3	0

REF NO.	IC751																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0	1.3	3.4	1.4	1.4	0	1.4	1.7	3.4	1.4	1.7	0	1.4	0						
STANDBY	0	1.3	3.4	1.4	1.4	0	1.4	1.7	3.4	1.4	1.7	0	1.4	0						

REF NO.	IC801																			
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	3.4	0	0	0	0	0	0	3.4	0	0	0	0	0	3.4	1.6
STANDBY	0	0	0	0	0	3.4	0	0	0	0	0	0	3.4	0	0	0	0	0	3.4	1.6

SA-AKX70PH/PN JUPITER P.C.B.

12.5. Jupiter P.C.B. (2/3)

REF NO.	IC801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	1.2	3.4	0	3.4	3.4	3.4	3.3	3.4	0	3.4	3.3	3.4	1.4	1.5	1.4	1.4	0	1.4	1.4
STANDBY	1.6	1.2	3.4	0	3.4	3.4	3.4	3.3	3.4	0	3.4	3.3	3.4	1.4	1.5	1.4	1.4	0	1.4	1.4

REF NO.	IC801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	1.4	1.3	1.2	3.4	1.4	1.5	1.4	1.5	0	1.4	1.4	1.4	1.4	3.4	3.4	0.7	0	3.4	0.7	0
STANDBY	1.4	1.3	1.2	3.4	1.4	1.5	1.4	1.5	0	1.4	1.4	1.4	1.4	3.4	3.4	0.7	0	3.4	0.7	0

REF NO.	IC801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	1.7	0	0	0	0	3.4	0	3.4	3.4	3.3	3.4	3.4	1.2	3.4	3.3	3.4	3.4	0.4	3.4
STANDBY	0	1.7	0	0	0	0	3.4	0	3.4	3.4	3.3	3.4	3.4	1.2	3.4	3.3	3.4	3.4	0.4	3.4

REF NO.	IC801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	3.3	3.4	3.4	0.9	0	0	0	0	0	0	0	0	0	3.4	0	1.2	0.3	0	0
STANDBY	0	3.3	3.4	3.4	0.9	0	0	0	0	0	0	0	0	0	3.4	0	1.2	0.3	0	0

REF NO.	IC801																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0	3.4	0	0	0	0	0	0	0	0	3.1	2.9	3.4	0	1.7	0	1.7	0.5	1.7	1.2
STANDBY	0	3.4	0	0	0	0	0	0	0	0	3.1	2.9	3.4	0	1.7	0	1.7	0.5	1.7	1.2

REF NO.	IC801																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	0.2	0	0	0	0	1.3	3.4	3.4	3.4	3.4	1.2	3.4	3.4	0	3.4	3.4	3.4	0	0	3.4
STANDBY	0.2	0	0	0	0	1.3	3.4	3.4	3.4	3.4	1.2	3.4	3.4	0	3.4	3.4	3.4	0	0	3.4

REF NO.	IC801																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	0	0	0	0	0	1.2	0	0	0	3.4	3.4	3.4	3.4	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	1.2	0	0	0	3.4	3.4	3.4	3.4	0	0	0	0	0	0	0

REF NO.	IC801																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	0	0	0	0	0	3.4	1.2	0	0	0	0	0	3.4	3.4	3.4	3.4	3.4	3.4	0	0
STANDBY	0	0	0	0	0	3.4	1.2	0	0	0	0	0	3.4	3.4	3.4	3.4	3.4	3.4	0	0

REF NO.	IC801																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	3.4	0	0	1.2	3.4	3.4	3.4	3.4	3.4	0	0	3.4	3.4	3.4	3.4	3.4	3.4	0	3.4	3.4
STANDBY	3.4	0	0	1.2	3.4	3.4	3.4	3.4	3.4	0	0	3.4	3.4	3.4	3.4	3.4	3.4	0	3.4	3.4

REF NO.	IC801																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
CD PLAY	0	1.2	1.6	1.6	0	1.2	0	0	0	3.4	0	0	1.2	0	0	3.4				
STANDBY	0	1.2	1.6	1.6	0	1.2	0	0	0	3.4	0	0	1.2	0	0	3.4				

SA-AKX70PH/PN JUPITER P.C.B.

12.6. Jupiter P.C.B. (3/3)

REF NO.	IC802																			
MODE	1	2	3	4	5															
CD PLAY	3.0	0	0	1.2	3.0															
STANDBY	3.0	0	0	1.2	3.0															

REF NO.	Q801																			
MODE	E	C	B																	
CD PLAY	0	3.9	0																	
STANDBY	0	3.9	0																	

SA-AKX70PH/PN JUPITER P.C.B.

12.7. 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	2.0	0	0	3.4	3.4	0	0	0.1	3.5	-14.4	-14.3	-18.2	-22.1	-20.2	-22.1	-18.2
STANDBY	0	0	0	0	2.0	0	0	3.4	3.4	0	0	0	3.5	-12.5	-16.3	-14.3	-22.1	-20.2	-22.1	-12.4

REF NO.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-12.4	-22.1	-22.1	-20.1	-14.2	-22.1	-18.2	-22.1	-24.1	-24.6	-22.5	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4
STANDBY	-12.4	-22.1	-22.1	-20.1	-12.2	-20.1	-13.3	-22.1	-24.1	-24.6	-22.5	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4

REF NO.	IC6000																			
MODE	41	42	43	44																
CD PLAY	-22.4	-22.4	3.5	0																
STANDBY	-22.4	-22.4	3.5	0																

REF NO.	Q6000				Q6001				Q6002				Q6003				Q6005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0.5	5.1		0	0	5.5		0	0	5.1		0	0.5	5.1		0	16.5	0	
STANDBY	0	0.5	5.1		0	0	5.5		0	0	5.1		0	0.5	5.1		0	16.7	0	

SA-AKX70PH/PN PANEL P.C.B.

12.8. D-Amp P.C.B.

REF NO.	IC5000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0	29.0	0	-29.0	-20.6	8.9	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0
STANDBY	2.5	0	0	29.0	0	-29.0	-20.6	9.0	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0

REF NO.	IC5000																			
MODE	21	22	23																	
CD PLAY	0	0	2.5																	
STANDBY	0	0	2.5																	

REF NO.	IC5200																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0	29.0	0	-29.0	-20.6	29.3	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0
STANDBY	2.5	0	0	29.0	0	-29.0	-20.6	29.3	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0

REF NO.	IC5200																			
MODE	21	22	23																	
CD PLAY	0	0	2.6																	
STANDBY	0	0	2.6																	

REF NO.	IC5400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0	29.0	0	-29.0	-20.6	29.3	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0
STANDBY	2.5	0	0	29.0	0	-29.0	-20.6	29.3	0	0	-29.3	0	-29.3	0	0	29.3	-29.0	-29.0	0	29.0

REF NO.	IC5400																			
MODE	21	22	23																	
CD PLAY	0	0	2.6																	
STANDBY	0	0	2.6																	

REF NO.	IC5500																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.2	4.9	0	2.7	2.2	0	2.5	2.6	2.6	2.5	2.5	2.6	5.2						
STANDBY	0	5.2	4.9	0	2.7	2.2	0	2.5	2.6	2.6	2.5	2.5	2.6	5.2						

REF NO.	Q5101				Q5102				Q5601				Q5603				Q5604			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	5.2	0		0	5.1	0		0	0	0.7		5.2	5.2	4.5		0	0	0.7	
STANDBY	0	5.2	0		0	5.2	0		0	0	0.7		5.2	5.2	4.5		0	0	0.7	

SA-AKX70PH/PN D-AMP P.C.B.

12.9. SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7													
CD PLAY	164.8	0	0	19.1	0.1	1.4	0.5													
STANDBY	164.8	0	0	19.1	0.1	1.4	0.5													

REF NO.	IC5799																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	5.9	1.0	2.3	11.0	164.2	0	0	0												
STANDBY	5.9	1.0	2.3	11.0	164.2	0	0	0												

REF NO.	IC5801																			
MODE	1	2	3																	
CD PLAY	12.2	2.0	3.0																	
STANDBY	12.2	2.0	3.0																	

REF NO.	IC5899																			
MODE	1	2	3																	
CD PLAY	2.3	2.5	0																	
STANDBY	2.3	2.5	0																	

REF NO.	Q5720				Q5721				Q5722				Q5803				Q5860			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	7.3	8.5	7.6		19.7	19.7	19.0		0	19.6	0.2		0	35.2	0		1.3	0	0.7	
STANDBY	7.4	8.6	7.7		19.7	19.7	19.0		0	19.6	0.2		0	35.2	0		1.3	0	0.7	

REF NO.	Q5861				Q5862				Q5898				QR5801				QR5802			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0.7		0	3.3	0		0	2.1	0.4		0	3.1	-3.0		0	3.3	6.6	
STANDBY	0	3.3	0		0	3.3	0		0	2.1	0.4		0	3.1	-2.9		0	3.3	6.6	

REF NO.	QR5810																			
MODE	E	C	B																	
CD PLAY	0	0.1	3.1																	
STANDBY	0	0.1	3.1																	

SA-AKX70PH/PN SMPS P.C.B.

12.10. Tuner P.C.B.

REF NO.	IC52																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	1.5	3.0	3.0	0	0	0	0	3.3	0	3.3	3.3	1.4	0.3	0.3	0.3	3.3	0	0	0
STANDBY	0	1.5	3.0	3.0	0	0	0	0	3.3	0	3.3	3.3	1.4	0.3	0.3	0.3	3.3	0	0	0

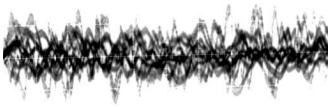
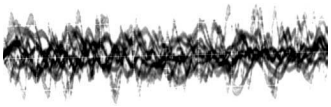
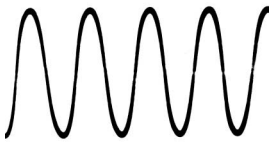
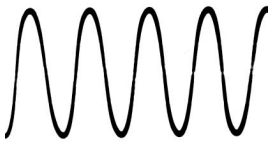
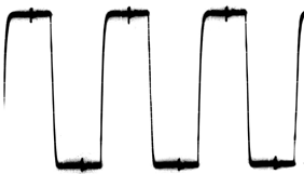
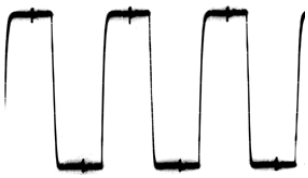
SA-AKX70PH/PN TUNER P.C.B.

12.11. Mic P.C.B.

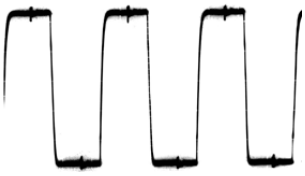
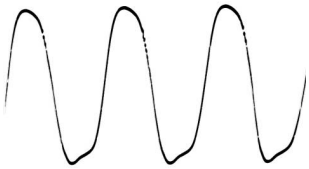
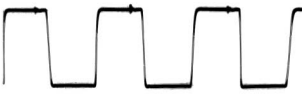
REF NO.	IC2000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	0	0	0	0	0	0	0	9.1	4.5	0	0	9.1	0						
STANDBY	0	0	0	0	0	0	0	0	9.1	4.5	0	0	9.1	0						

SA-AKX70PH/PN MIC P.C.B.

12.12. Waveform Table (1/2)

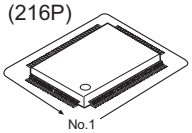
WF No. IC52-2,13,14 (TUNER)  0.1Vp-p(200usec/div)	WF No. IC2001-2,38 (PLAY)  4Vp-p(200usec/div)	WF No. IC2001-3,37 (TUNER)  0.2Vp-p(200usec/div)	WF No. IC2001-4,36 (PLAY)  1.3Vp-p(200usec/div)
WF No. IC2001-17,22 (PLAY)  2Vp-p(200usec/div)	WF No. IC2001-44,47 (PLAY)  2.4Vp-p(200usec/div)	WF No. IC2003-12 (PLAY)  3.6Vp-p(50nsec/div)	WF No. IC2003-13 (PLAY)  2.2Vp-p(50nsec/div)
WF No. IC2003-15 (PLAY)  1.4Vp-p(5usec/div)	WF No. IC2003-16 (PLAY)  2.8Vp-p(5usec/div)	WF No. IC2005-1 (PLAY)  1.8Vp-p(200usec/div)	WF No. IC2005-7 (PLAY)  2Vp-p(100usec/div)
WF No. IC5000-1 (PLAY)  5.6Vp-p(1usec/div)	WF No. IC5000-2 (PLAY)  0.84Vp-p(200usec/div)	WF No. IC5000-10,14 (PLAY)  80Vp-p(1usec/div)	WF No. IC5000-22 (PLAY)  0.84Vp-p(200usec/div)
WF No. IC5200-1 (PLAY)  5.6Vp-p(1usec/div)	WF No. IC5200-2 (PLAY)  0.84Vp-p(200usec/div)	WF No. IC5200-10,14 (PLAY)  80Vp-p(1usec/div)	WF No. IC5200-22 (PLAY)  0.84Vp-p(200usec/div)

12.13. Waveform Table (2/2)

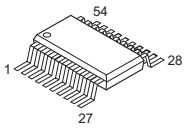
WF No. IC5400-1 (PLAY)  5.6Vp-p(1usec/div)	WF No. IC5400-2 (PLAY)  0.84Vp-p(200usec/div)	WF No. IC5400-10,14 (PLAY)  80Vp-p(1usec/div)	WF No. IC5400-22 (PLAY)  0.84Vp-p(200usec/div)
WF No. IC5500-4 (PLAY)  6.8Vp-p(5msec/div)	WF No. IC5500-6 (PLAY)  5.2Vp-p(500nsec/div)	WF No. IC5500-8 (PLAY)  5.6Vp-p(500nsec/div)	WF No. IC6000-5 (PLAY)  1.5Vp-p(1usec/div)
WF No. IC7001-49,52 (PLAY)  2.4Vp-p(100nsec/div)	WF No. IC7001-73 (PLAY)  4.8Vp-p(20nsec/div)	WF No. IC7001-74 (PLAY)  1.9Vp-p(20nsec/div)	

13 Illustration of ICs, Transistor and Diode

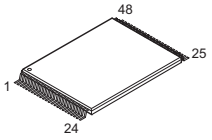
RFKWMAKX70PN (100P)
MN2WS0042NA (216P)



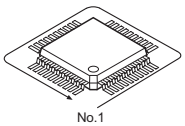
C3ABQG000097 (54P)

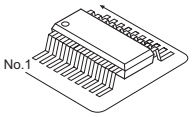


C3FBMG000041 (48P)



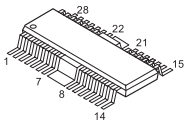
C0HBB0000057 (44P)
C1AB00003256 (52P)
MN6627553PA (80P)



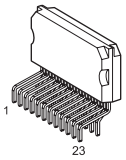


C1AB00003130 (14P)
C0ABBB000230 (8P)
C3EBFY000006 (8P)
C0JBAB000902 (14P)
C0FBAK000026 (16P)
C0FBBY000027 (16P)

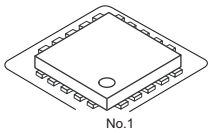
BA5948FPE2 (28P)



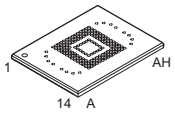
C1BA00000497 (23P)



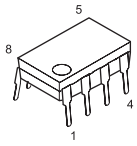
VUEALLPT031 (20P)



C3FBXY000016



C0AABB000125 (8P)



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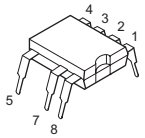

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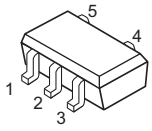

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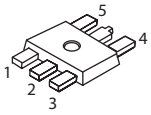

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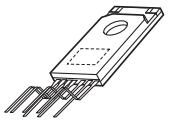
C5HACYY00005 (7P)



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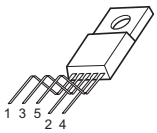

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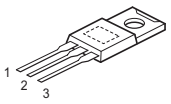

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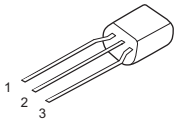

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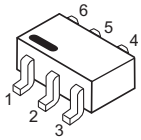

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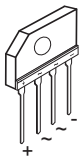

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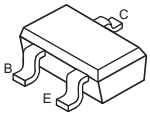

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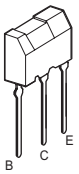

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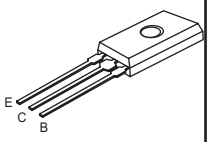

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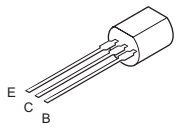

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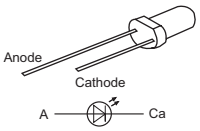

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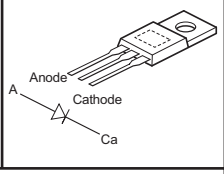

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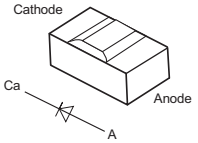

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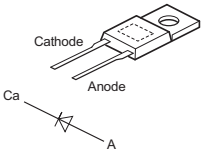

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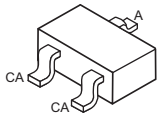

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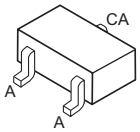

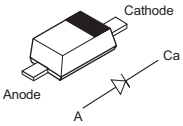

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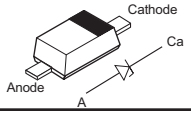

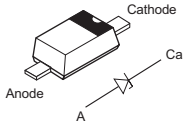

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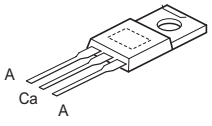

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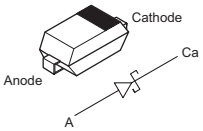

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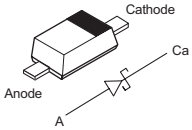

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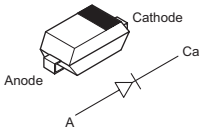

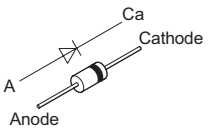

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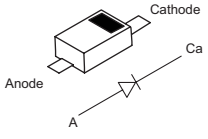
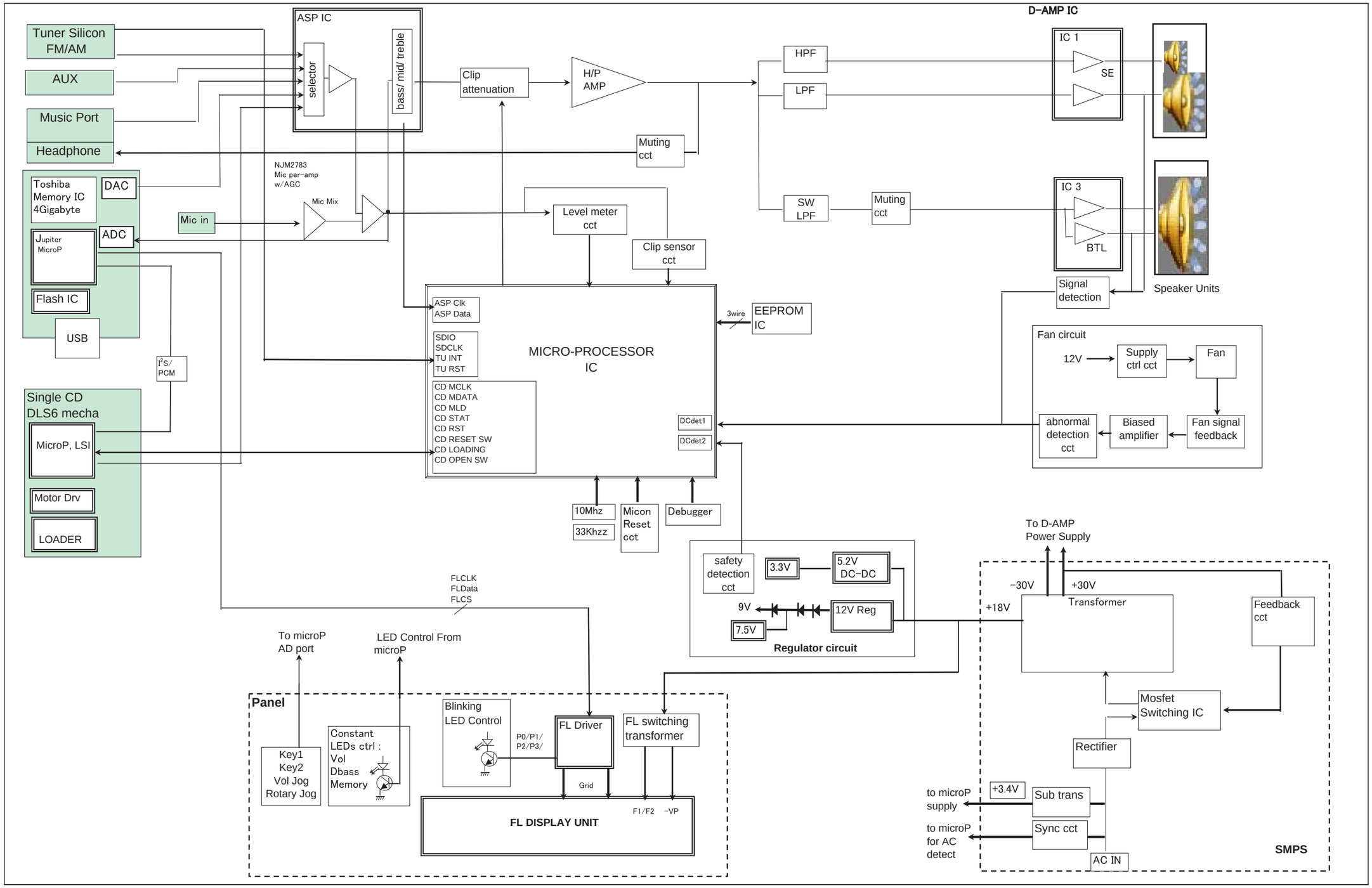


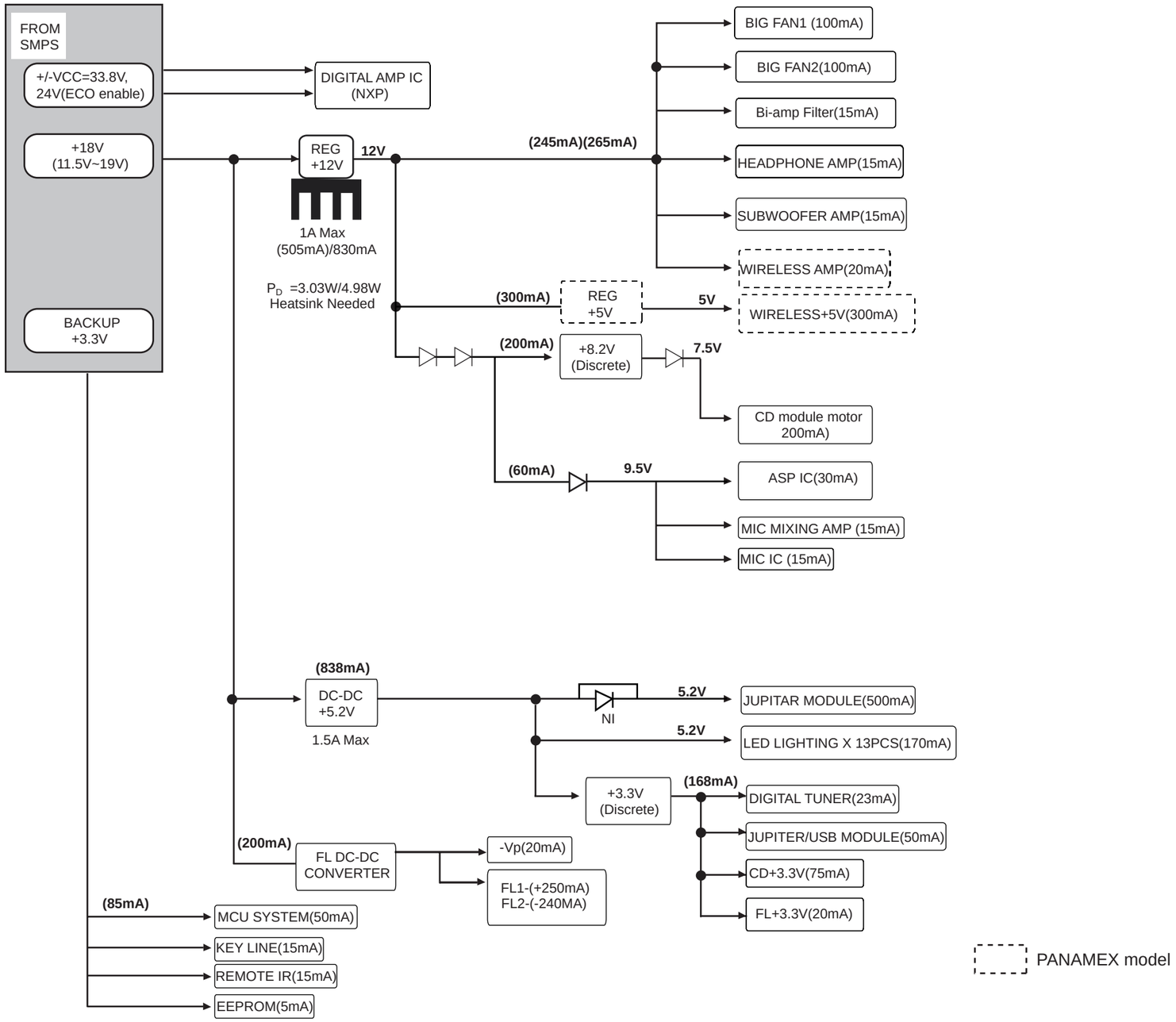
14 Simplified Block Diagram

14.1. Overall Simplified Block Diagram



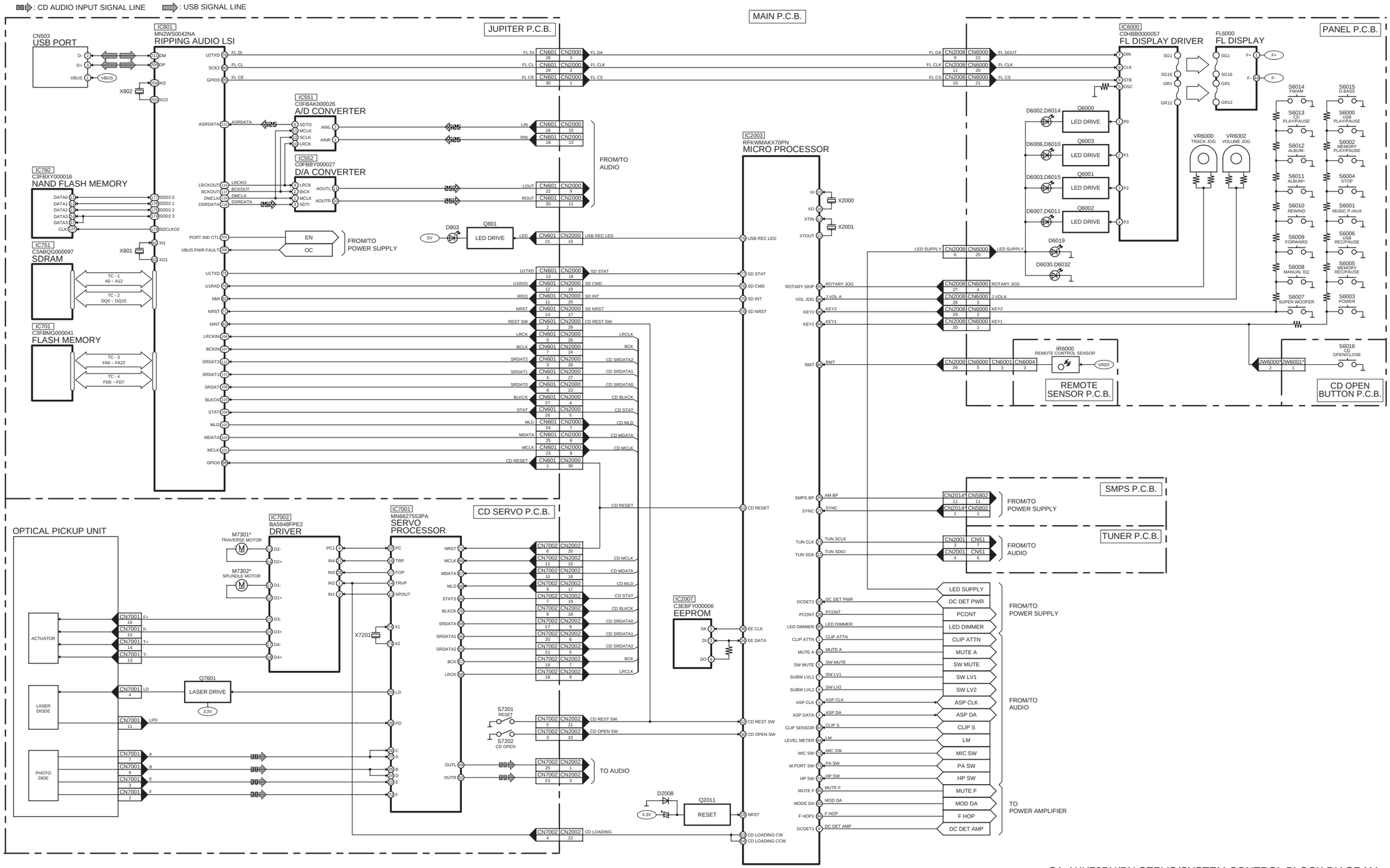
14.2. D-Amp Block Diagram

Block Connection Diagram



15 Block Diagram

15.1. Servo/System Control



SA-AKX70PH/PN SERVO/SYSTEM CONTROL BLOCK DIAGRAM

15.2. IC Terminal Chart (Servo/System Control)

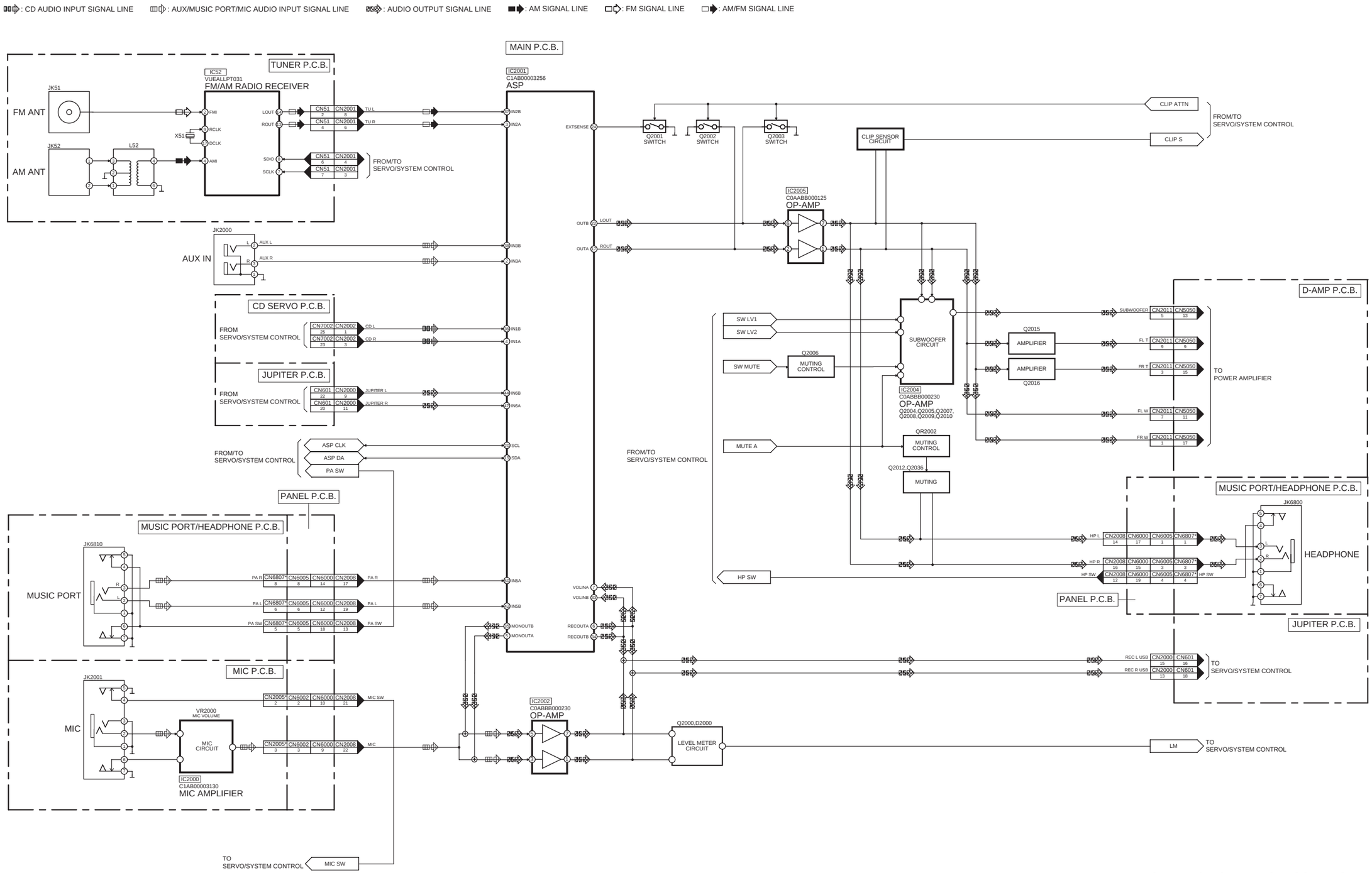
TC	IC751 / SDRAM		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
1	A0	23	A0	5	SDRA0
	A1	24	A1	4	SDRA1
	A2	25	A2	3	SDRA2
	A3	26	A3	2	SDRA3
	A4	29	A4	7	SDRA4
	A5	30	A5	8	SDRA5
	A6	31	A6	9	SDRA6
	A7	32	A7	10	SDRA7
	A8	33	A8	15	SDRA8
	A9	34	A9	16	SDRA9
	A10	22	A10	11	SDRA10
	A11	35	A11	17	SDRA11
	A12	36	A12	18	SDRA12

TC	IC751 / SDRAM		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
2	DQ0	2	DQ0	48	SDRD0
	DQ1	4	DQ1	47	SDRD1
	DQ2	5	DQ2	46	SDRD2
	DQ3	7	DQ3	45	SDRD3
	DQ4	8	DQ4	37	SDRD4
	DQ5	10	DQ5	36	SDRD5
	DQ6	11	DQ6	35	SDRD6
	DQ7	13	DQ7	34	SDRD7
	DQ8	42	DQ8	39	SDRD8
	DQ9	44	DQ9	40	SDRD9
	DQ10	45	DQ10	41	SDRD10
	DQ11	47	DQ11	42	SDRD11
	DQ12	48	DQ12	50	SDRD12
	DQ13	50	DQ13	51	SDRD13
	DQ14	51	DQ14	52	SDRD14
	DQ15	53	DQ15	53	SDRD15

TC	IC701 / FLASH MEMORY		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
3	DQ15	45	FA0	154	HIR0
	A0	25	FA1	155	HIR1
	A1	24	FA2	156	HIR2
	A2	23	FA3	158	HIB0
	A3	22	FA4	149	NHINT
	A4	21	FA5	165	DACK1
	A5	20	FA6	164	DRQ1
	A6	19	FA7	162	DACK2
	A7	18	FA8	161	DRQ2
	A8	8	FA9	159	GPIO5
	A9	7	FA10	160	GPIO4
	A10	6	FA11	168	RCVCLK
	A11	5	FA12	169	RCVSTART
	A12	4	FA13	170	RCVDATA
	A13	3	FA14	171	RCVWAIT
	A14	2	FA15	138	HID8
	A15	1	FA16	139	HID9
	A16	48	FA17	142	HID10
	A17	17	FA18	143	HID11
	A18	16	FA19	144	HID12
	A19	9	FA20	145	HID13
	A20	10	FA21	147	HID14
	A21	13	FA22	148	HID15

TC	IC701 / FLASH MEMORY		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
4	DQ0	29	FD0	128	HID0
	DQ1	31	FD1	129	HID1
	DQ2	33	FD2	130	HID2
	DQ3	35	FD3	132	HID3
	DQ4	38	FD4	133	HID4
	DQ5	40	FD5	135	HID5
	DQ6	42	FD6	136	HID6
	DQ7	44	FD7	137	HID7

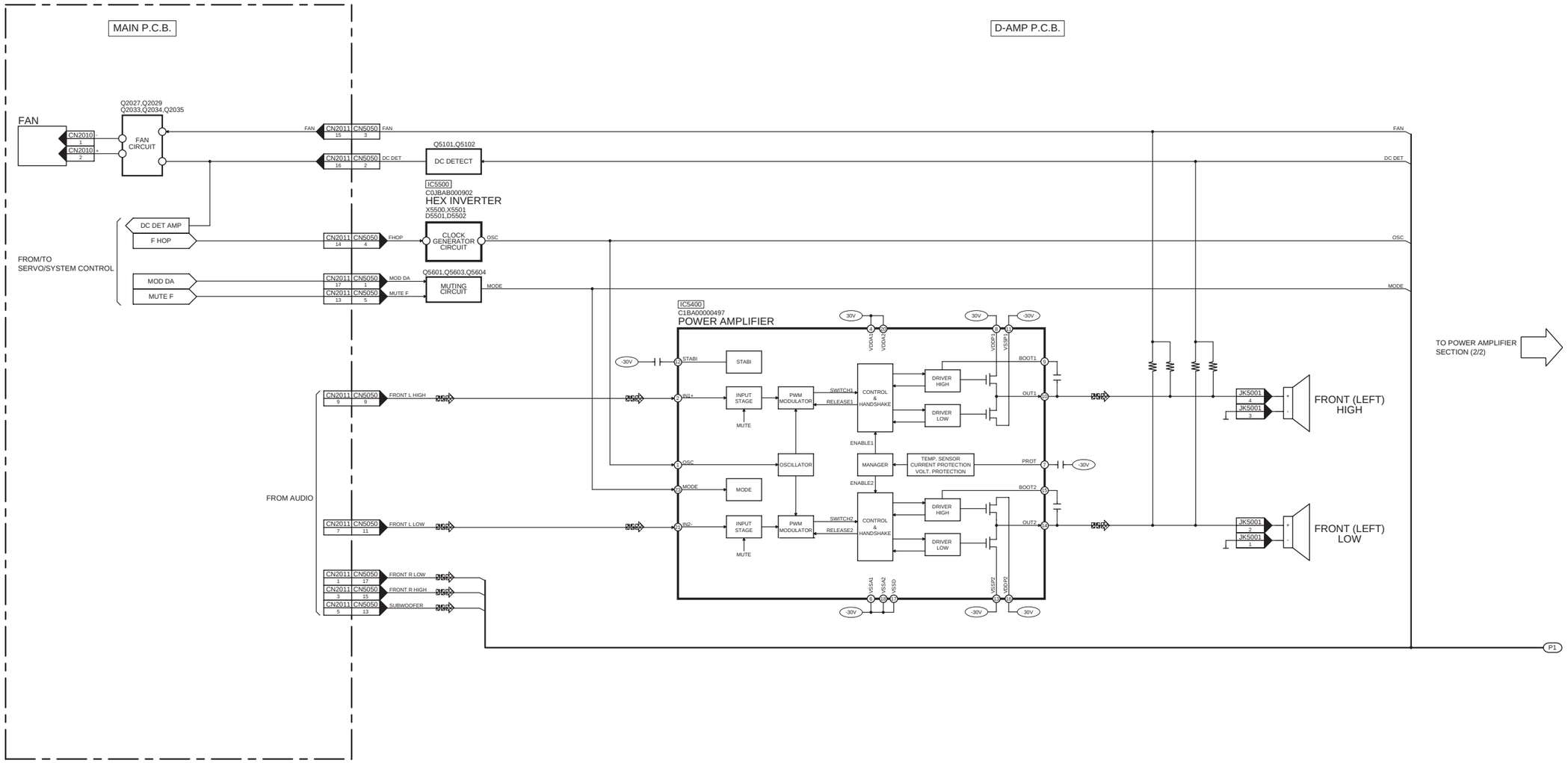
15.3. Audio



SA-AKX70PH/PN AUDIO BLOCK DIAGRAM

15.4. Power Amplifier

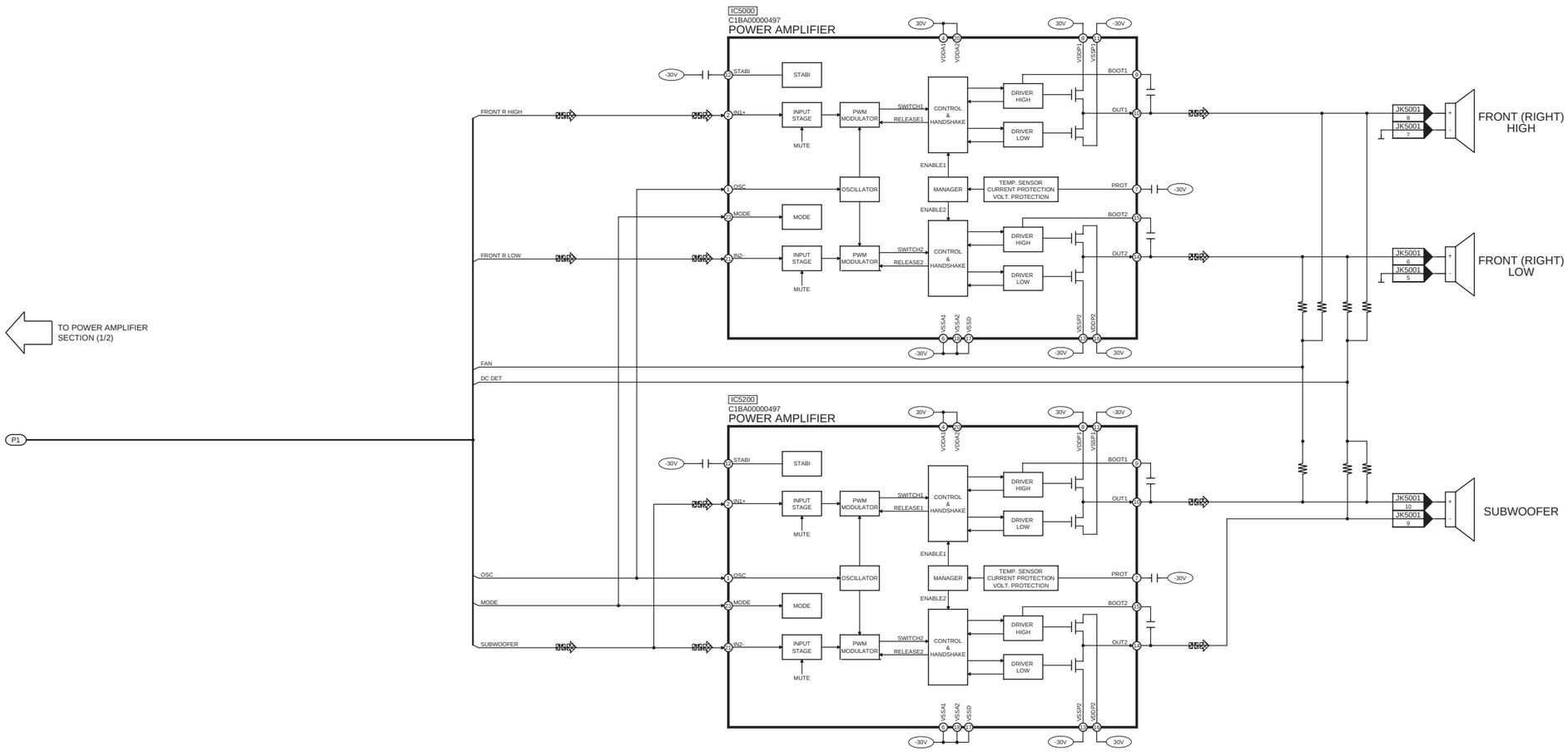
: AUDIO OUTPUT SIGNAL LINE



SA-AKX70PH/PN POWER AMPLIFIER (1/2) BLOCK DIAGRAM

: AUDIO OUTPUT SIGNAL LINE

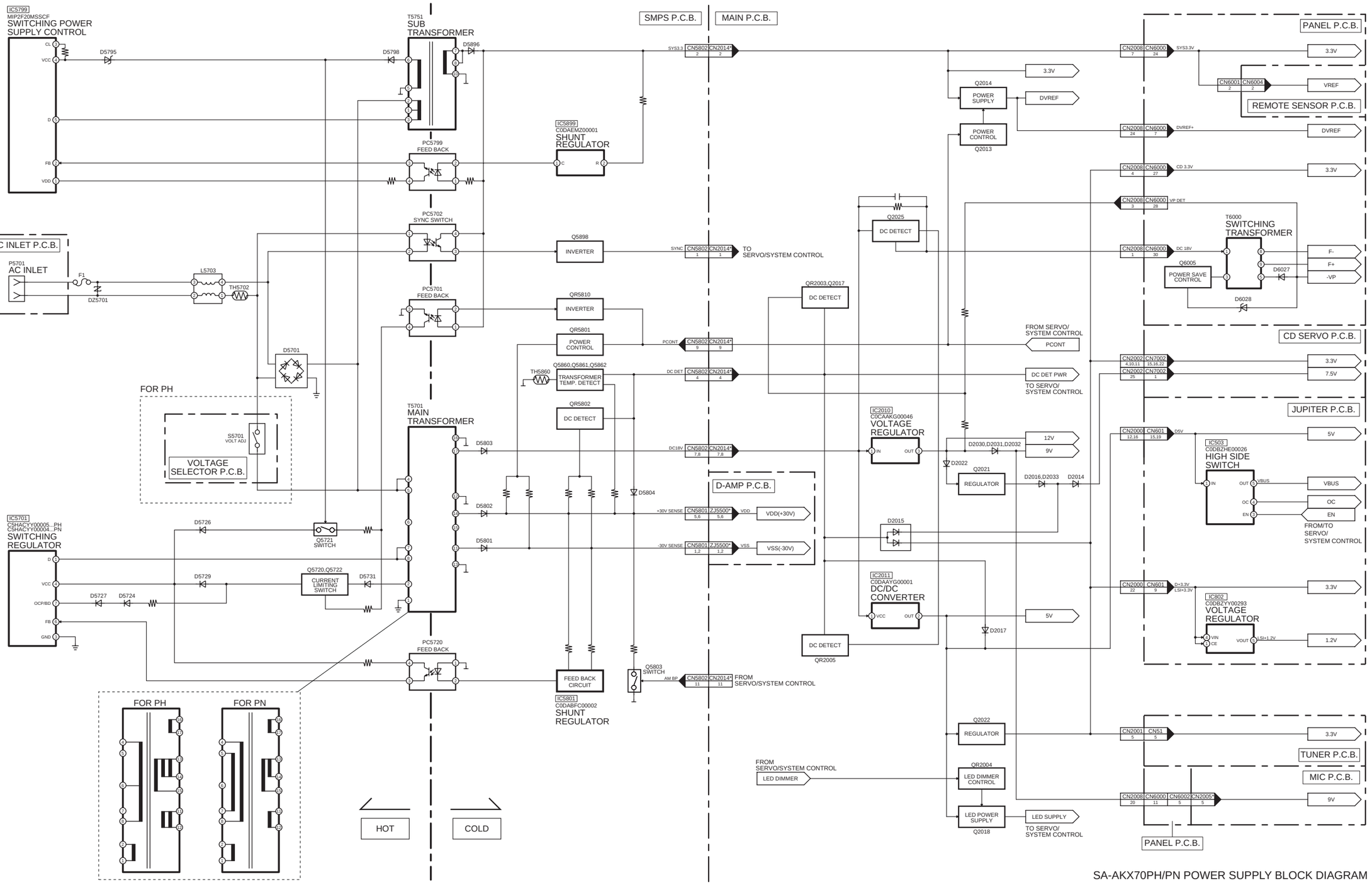
D-AMP P.C.B.



TO POWER AMPLIFIER SECTION (1/2)

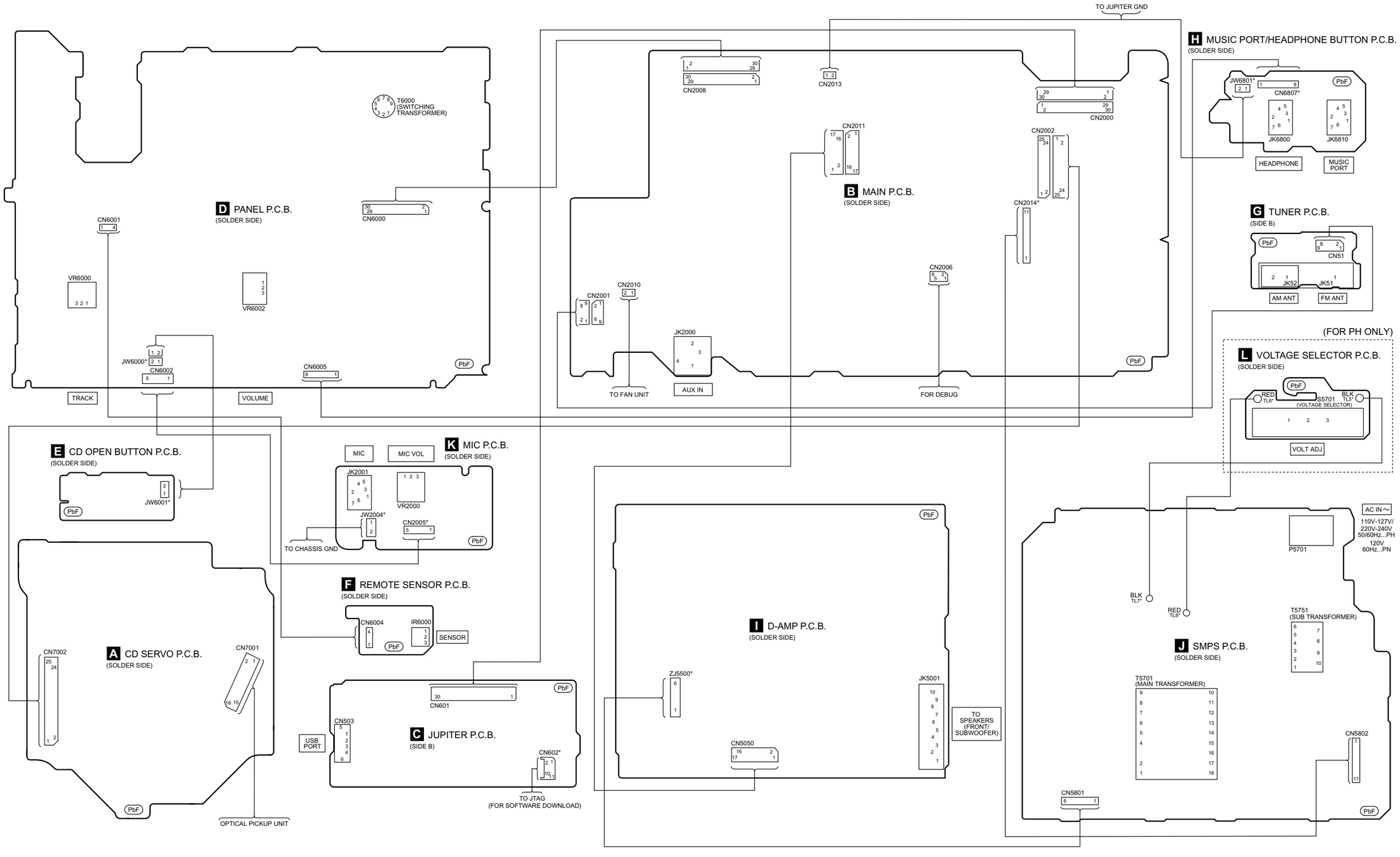
SA-AKX70PH/PN POWER AMPLIFIER (2/2) BLOCK DIAGRAM

15.5. Power Supply



SA-AKX70PH/PN POWER SUPPLY BLOCK DIAGRAM

16 Wiring Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN WIRING DIAGRAM

17 Schematic Diagram Notes

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

Notes:

S5701:	Voltage ADJ switch (For PH only).
S6000:	USB Play/Pause (USB ▶/▮▮) switch.
S6001:	Music P./Aux switch.
S6002:	Memory Play/Pause (Memory ▶/▮▮) switch.
S6003:	Power switch (⏻/|).
S6004:	Stop (■) switch.
S6005:	Memory Rec/Pause (Memory ●/▮▮) switch.
S6006:	USB Rec/Pause (USB ●/▮▮) switch.
S6007:	Super Woofer switch.
S6008:	Manual EQ switch.
S6009:	Forward (▶▶/▶▶|) switch.
S6010:	Rewind (|◀◀/◀◀) switch.
S6011:	Album + switch.
S6012:	Album - switch.
S6013:	CD Play/Pause (CD ▶/▮▮) switch.
S6014:	FM/AM switch.
S6015:	D.BASS switch.
S6016:	CD Open/Close switch (⏏).
S7201:	Reset switch.
S7202:	CD Open switch.
VR2000:	Mic Volume Jog.
VR6000:	Track Jog.
VR6002:	Volume 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:
  For PN only:
  C5701, C5703, C5704, C5705, C5708
  For PH only:
  C5701, 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.

- *****

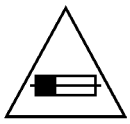
  REF IS FOR INDICATION ONLY.

- Voltage and signal line

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

- For PH only

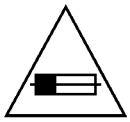
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T8AH 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

- For PN only

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 8A 125V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

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

18 Schematic Diagram

18.1. CD Servo Circuit

SCHEMATIC DIAGRAM - 1

A CD SERVO CIRCUIT

—— : +B SIGNAL LINE ▮▮▮▶ : CD AUDIO INPUT SIGNAL LINE

IC7001
MN6627553PA
SERVO PROCESSOR

IC7002
BA5948FPE2
DRIVER

Q7601
B1ADCF000001
LASER DRIVE

CN7001

CN7002

TO OPTICAL PICKUP UNIT

TO **B** MAIN CIRCUIT (CN2002) IN SCHEMATIC DIAGRAM - 3

M7301* TRAVERSE MOTOR

M7302* SPLINDLE MOTOR

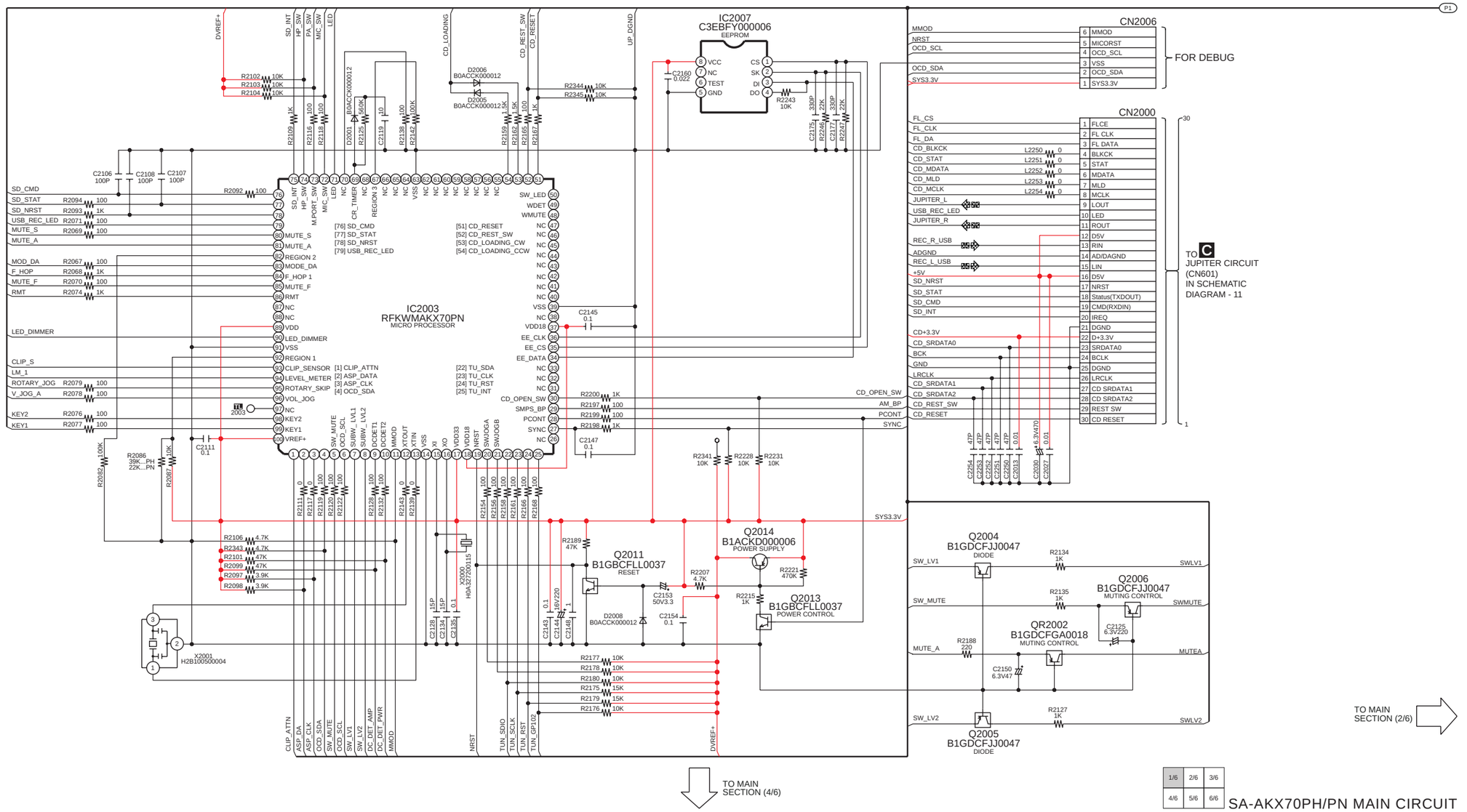
SA-AKX70PH/PN CD SERVO CIRCUIT

18.2. Main Circuit

SCHEMATIC DIAGRAM - 2

B MAIN CIRCUIT

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



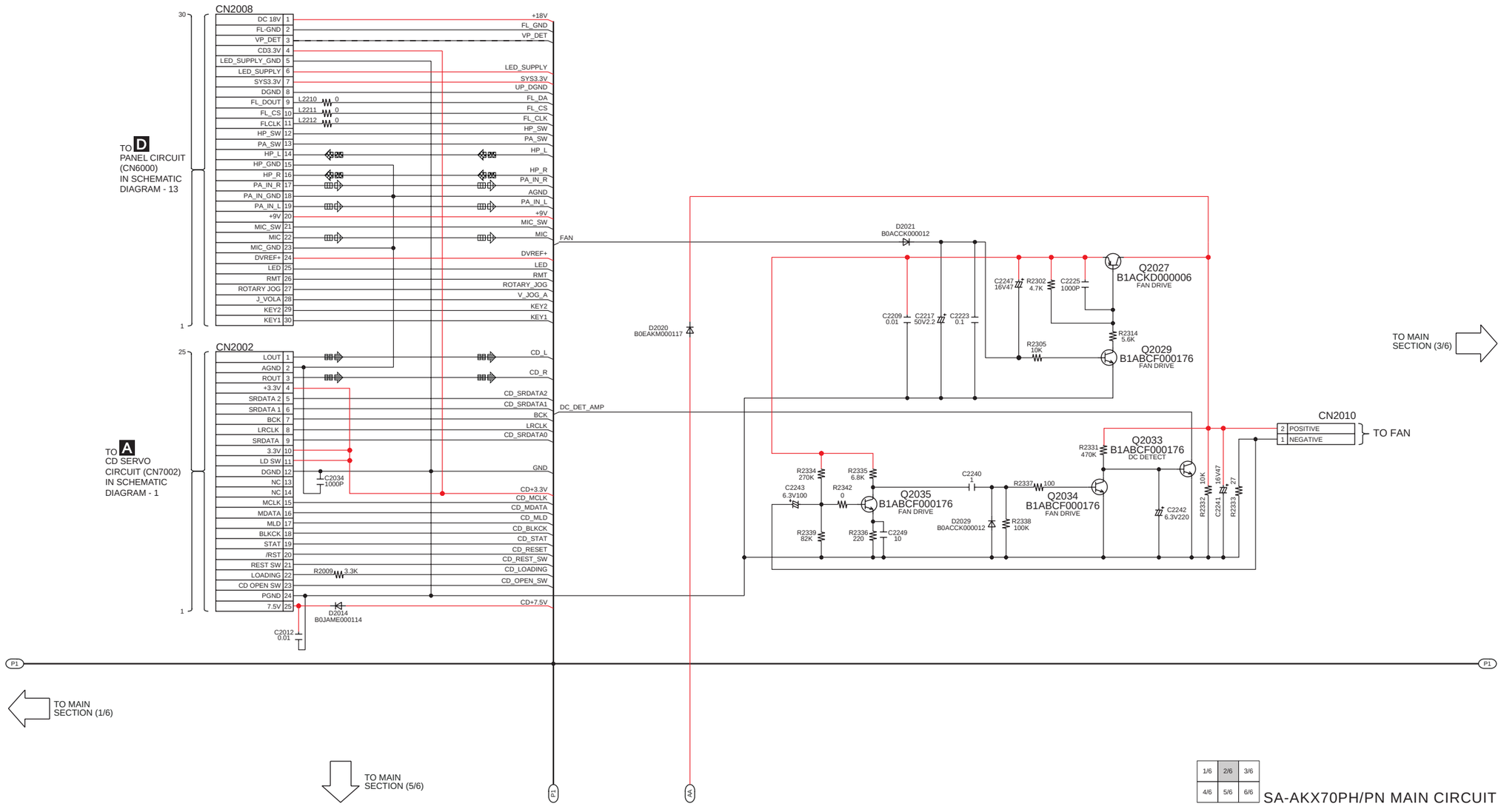
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX70PH/PN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 3

B MAIN CIRCUIT

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



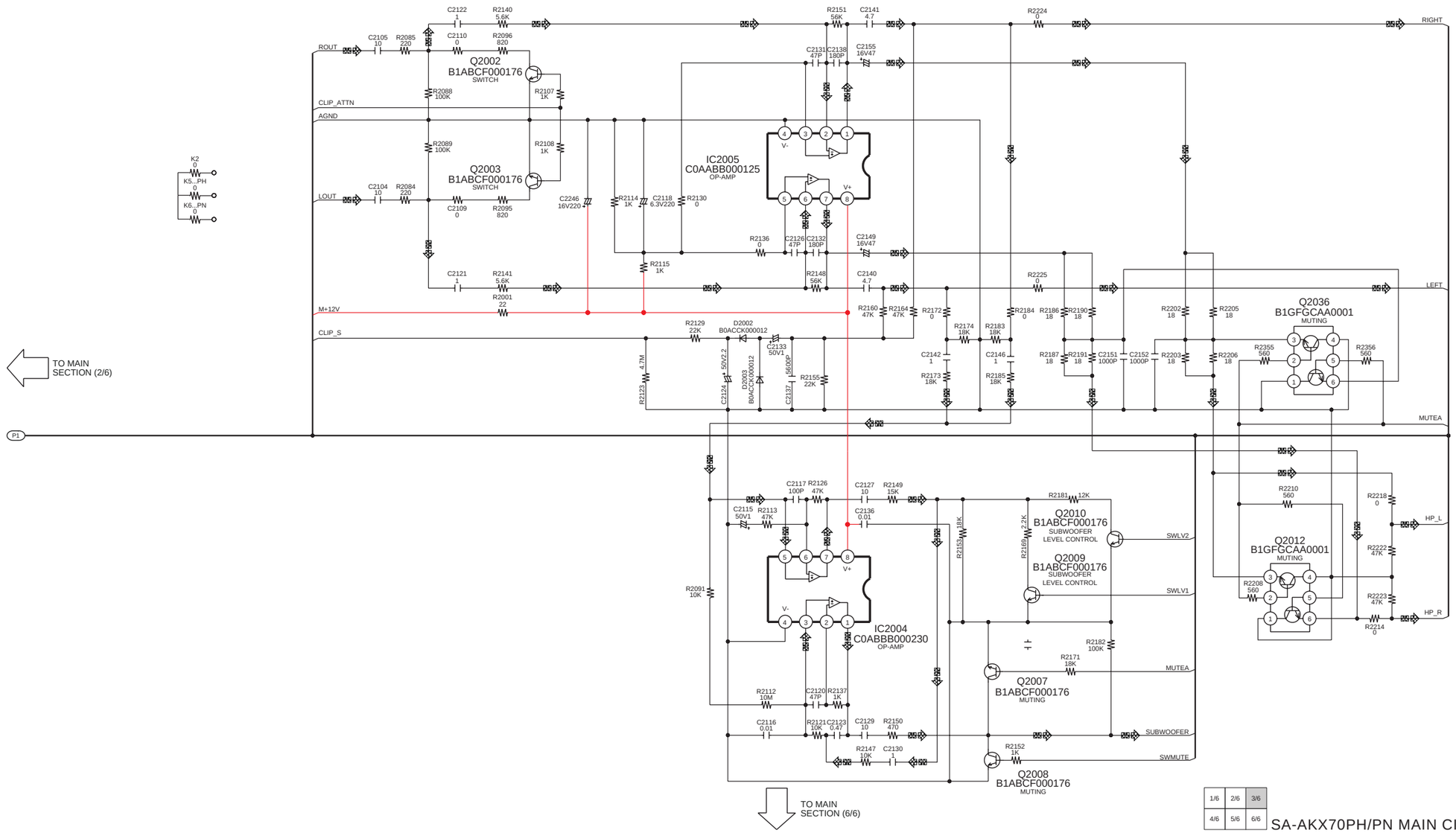
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX70PH/PN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 4

B MAIN CIRCUIT

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



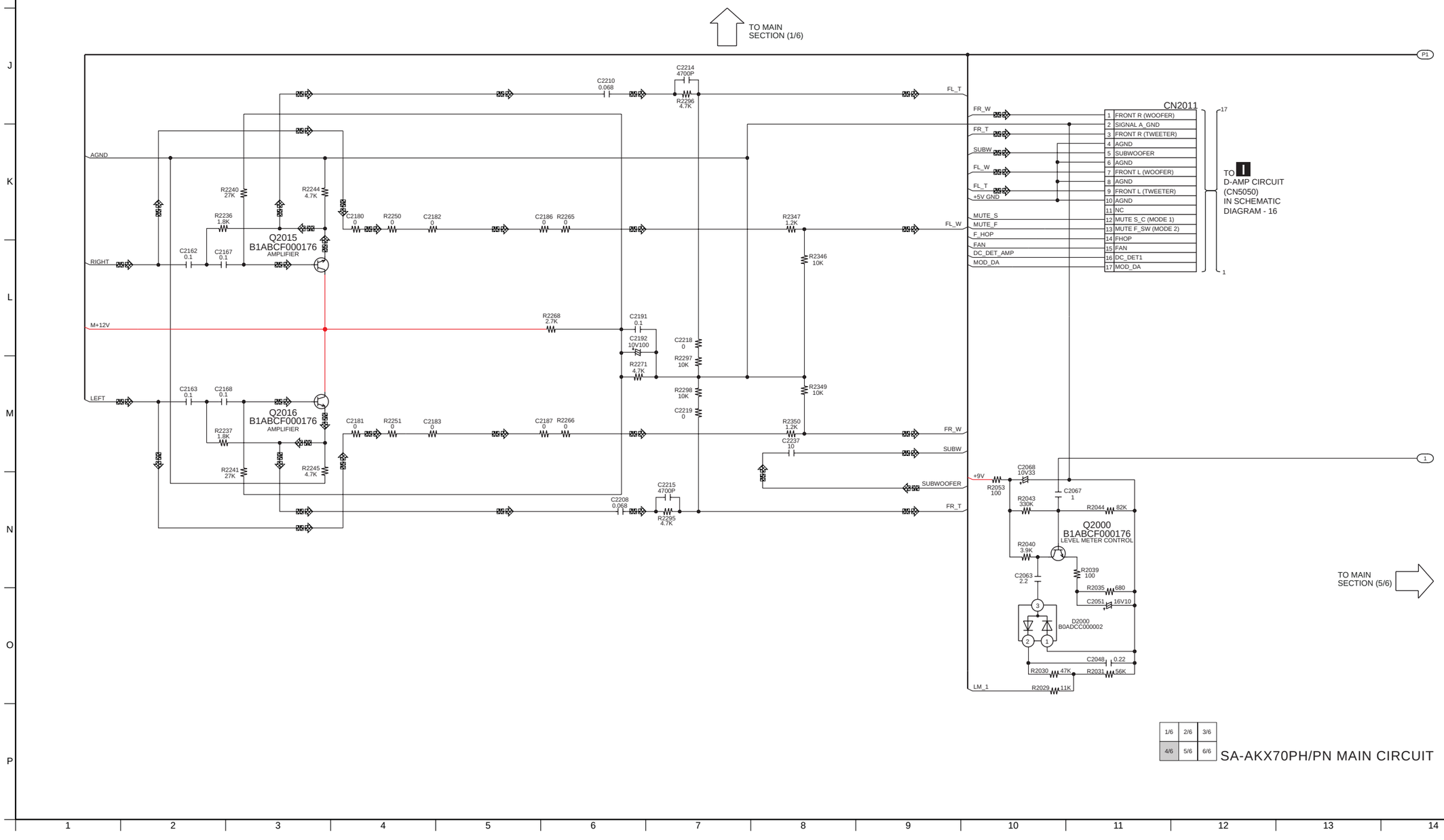
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX70PH/PN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 5

B MAIN CIRCUIT

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



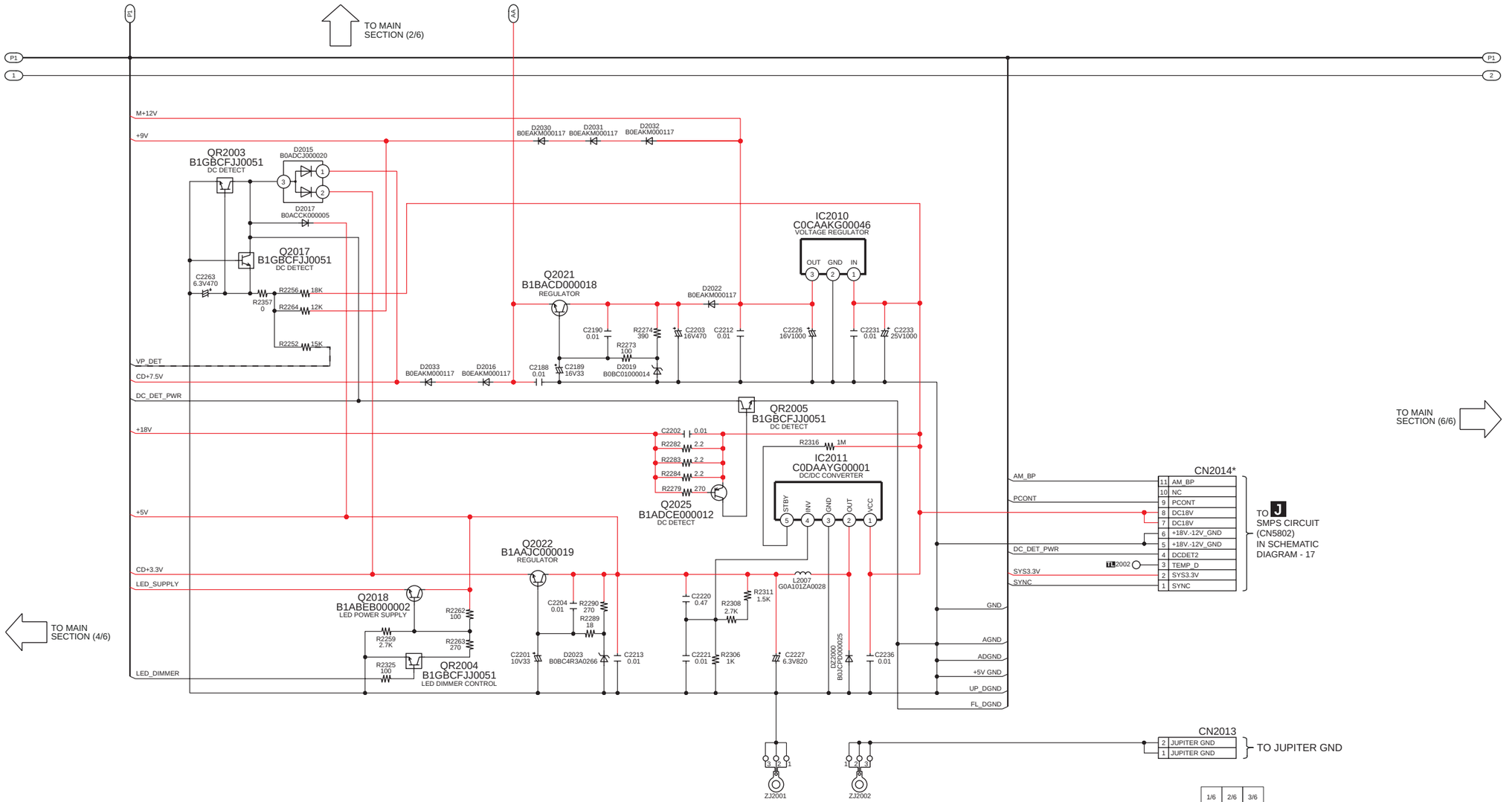
1/6	2/6	3/6
4/6	5/6	6/6

SA-AKX70PH/PN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 6

B MAIN CIRCUIT

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



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

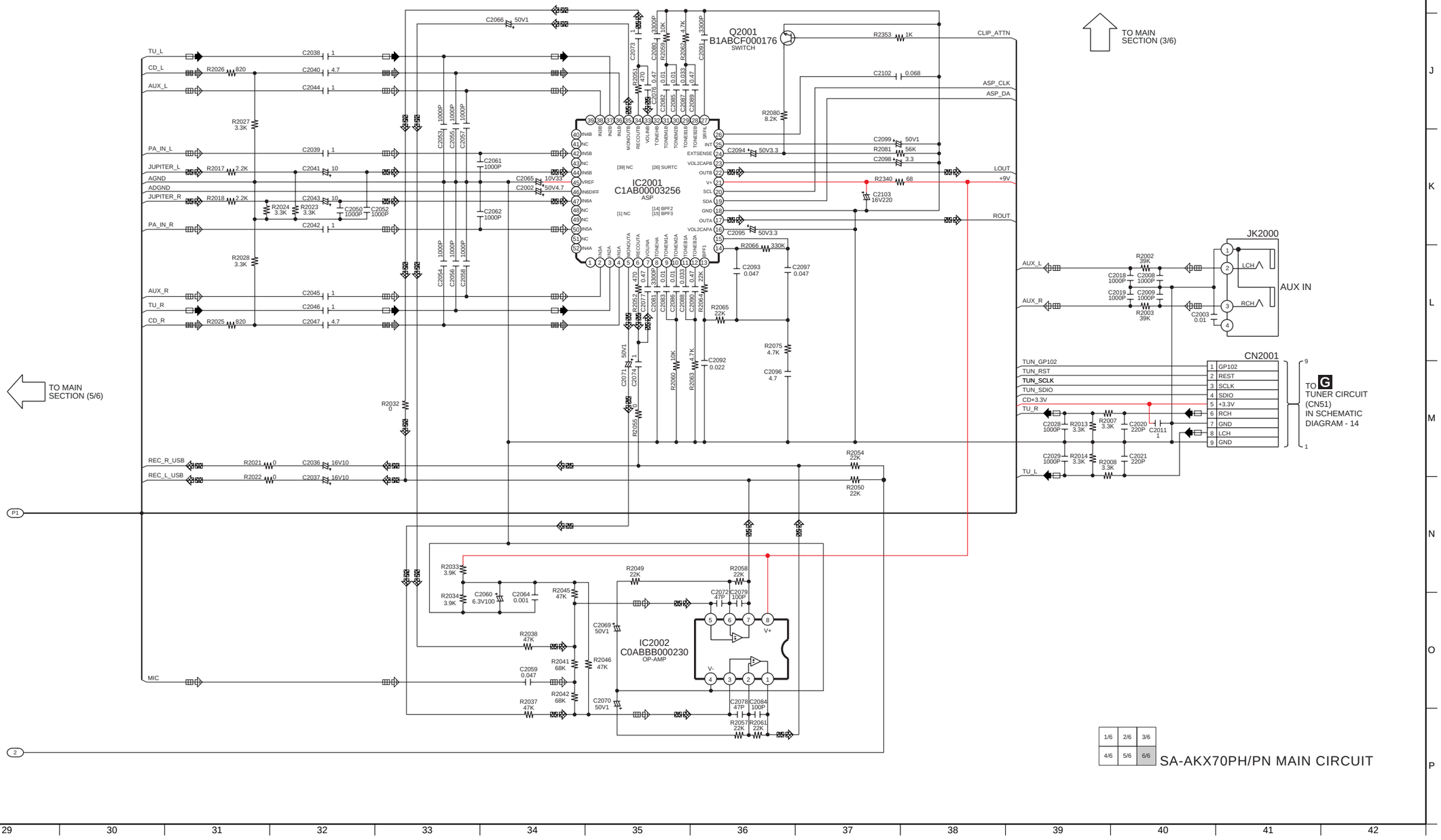
SA-AKX70PH/PN MAIN CIRCUIT

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

SCHEMATIC DIAGRAM - 7

B MAIN CIRCUIT

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



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

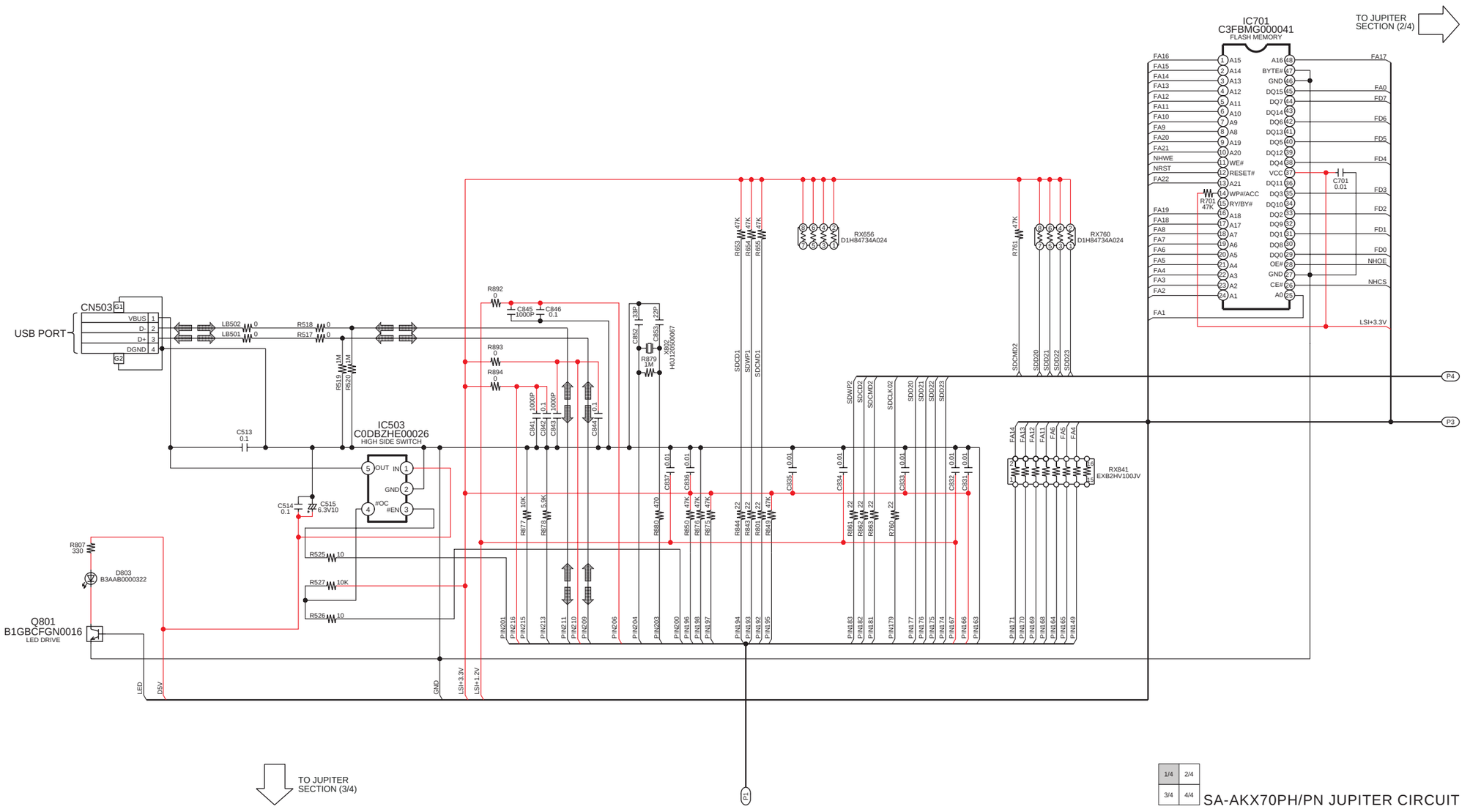
SA-AKX70PH/PN MAIN CIRCUIT

18.3. Jupiter Circuit

SCHEMATIC DIAGRAM - 8

C JUPITER CIRCUIT

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



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

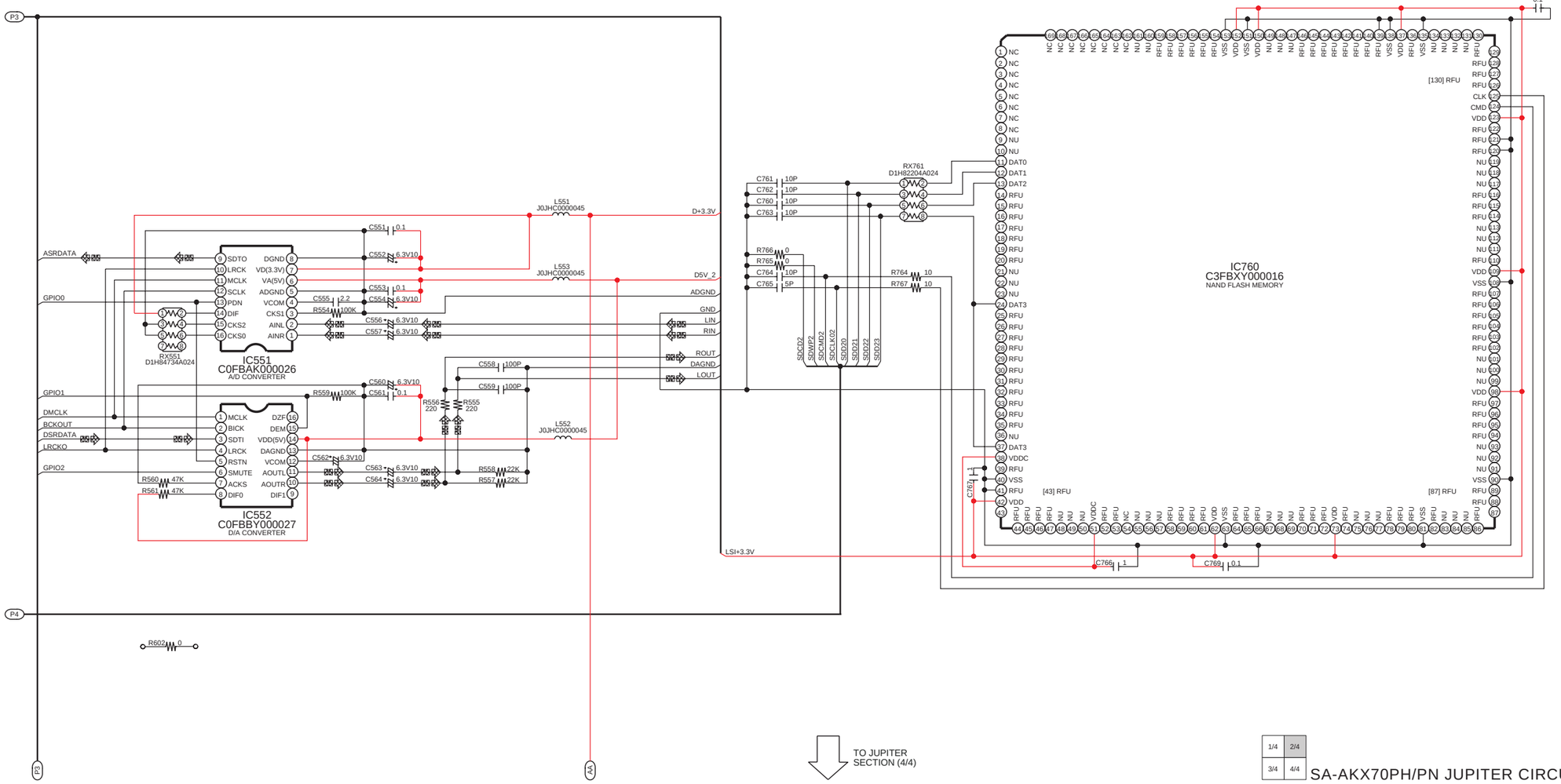
SA-AKX70PH/PN JUPITER CIRCUIT

SCHEMATIC DIAGRAM - 9

C JUPITER CIRCUIT

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

TO JUPITER SECTION (1/4)



TO JUPITER SECTION (4/4)

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

SA-AKX70PH/PN JUPITER CIRCUIT

SCHEMATIC DIAGRAM - 10

C JUPITER CIRCUIT

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

TO JUPITER SECTION (1/4)

IC801
MN2WS0042NA
RIPPING AUDIO LSI

IC751
C3ABQG000097
SDRAM

TO JUPITER SECTION (4/4)

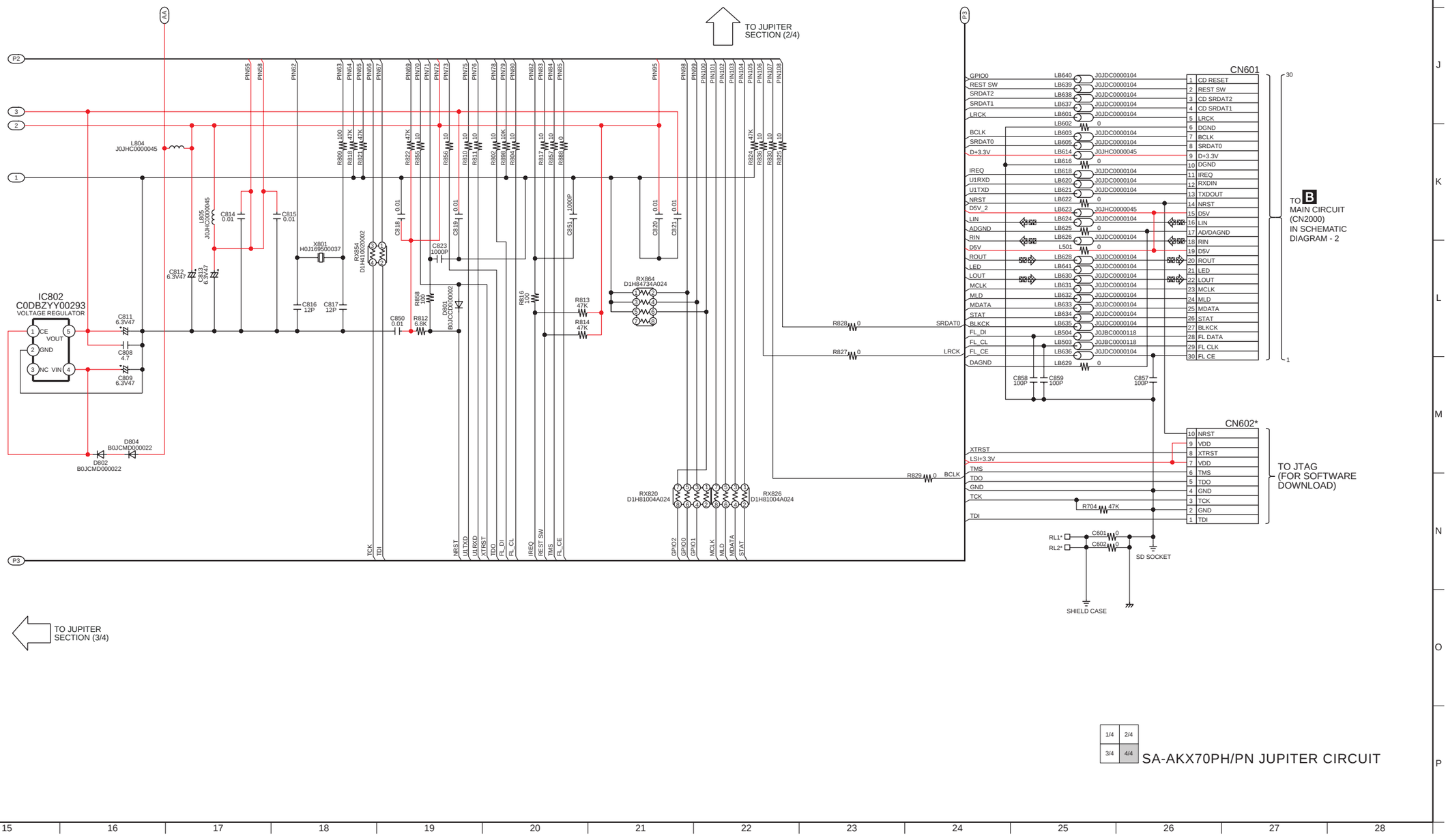
1/4	2/4
3/4	4/4

SA-AKX70PH/PN JUPITER CIRCUIT

SCHEMATIC DIAGRAM - 11

C JUPITER CIRCUIT

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



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

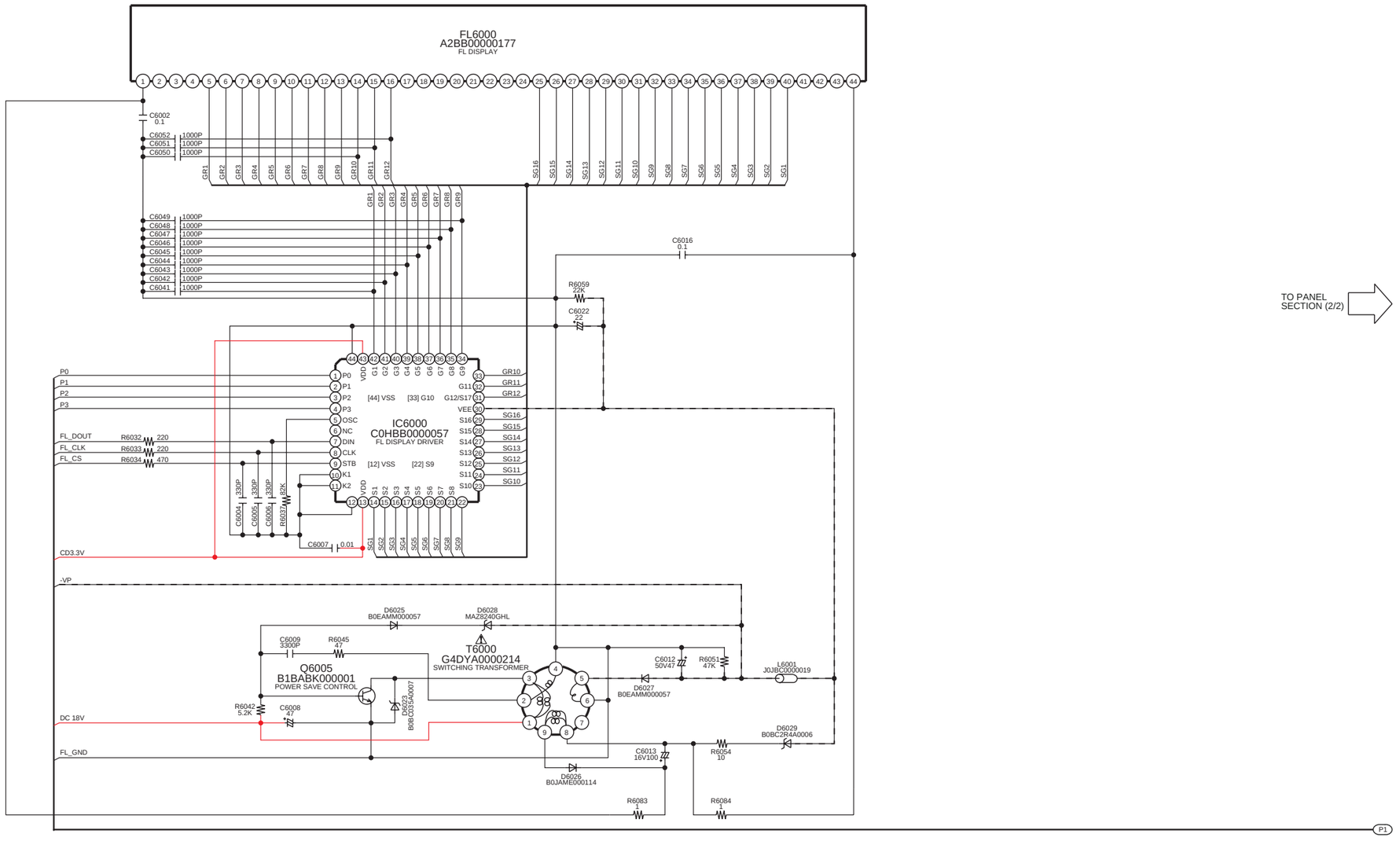
SA-AKX70PH/PN JUPITER CIRCUIT

18.4. Panel Circuit

SCHEMATIC DIAGRAM - 12

D PANEL CIRCUIT

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



1/2 2/2 SA-AKX70PH/PN PANEL CIRCUIT

SCHEMATIC DIAGRAM - 13

D PANEL CIRCUIT

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

P1

SYS3.3V KEY1 KEY2

R6028 10K
R6023 10K

R6016 1.2K, R6017 1.5K, R6018 2.2K, R6019 3.3K, R6020 4.7K, R6021 6.8K, R6022 15K

S6007 SUPER WOOFER, S6008 MANUAL EQ, S6009 FORWARD, S6010 REWIND, S6011 ALBUM+, S6012 ALBUM-, S6013 CD PLAY/PAUSE, S6014 FM/AM

TO E
CD OPEN BUTTON CIRCUIT (JW6001*) IN SCHEMATIC DIAGRAM - 14

JW6000*
2 DGND
1 KEY1

R6001 1.2K, R6002 1.5K, R6003 2.2K, R6004 3.3K, R6005 4.7K, R6006 6.8K, R6007 15K

S6003 POWER, S6005 MEMORY REC/PAUSE, S6006 USB REC/PAUSE, S6001 MUSIC P./AUX, S6004 STOP, S6002 MEMORY PLAY/PAUSE, S6000 USB PLAY/PAUSE

KEY1_A

TO PANEL SECTION (1/2)

D6002 B3AEA0000131, D6006 B3AEA0000131, D6010 B3AEA0000131, D6014 B3AEA0000131

R6009 68, R6012 68, R6024 68, R6029 68

Q6000 B1GBCFJN0033 LED DRIVE
Q6003 B1GBCFJN0033 LED DRIVE

P1
LED_SUPPLY_GND
P0

D6003 B3AEA0000131, D6007 B3AEA0000131, D6011 B3AEA0000131, D6015 B3AEA0000131

R6008 68, R6013 68, R6025 68, R6030 68, C6003 1000P

D6019 B3AEA0000127

R6039 68
R6068 0

Q6001 B1GBCFJN0033 LED DRIVE
Q6002 B1GBCFJN0033 LED DRIVE

P3
P2

R6067 0, R6071 0, R6072 0

R6060 68, R6062 68

D6030 B3AEA0000127, D6027 B3AEA0000127

KEY1
KEY2
J_VOLA
ROTARY_JOG

DVREF+
MIC_GND
MIC
MIC_SW
+9V
PA_IN_L
PA_IN_GND
PA_IN_R
HP_R
HP_GND
HP_L
PA_SW
HP_SW
FL_CLK
FL_CS
FL_DOUT

SYS3.3V
LED_SUPPLY_GND
CD3.3V
-VP
FL_GND
DC 18V

CN6000

1	KEY1
2	KEY2
3	J_VOLA
4	ROTARY JOG
5	RMT
6	LED
7	DVREF+
8	MIC_GND
9	MIC
10	MIC_SW
11	+9V
12	PA_IN_L
13	PA_IN_GND
14	PA_IN_R
15	HP_R
16	HP_GND
17	HP_L
18	PA_SW
19	HP_SW
20	FL_CLK
21	FL_CS
22	FL_DOUT
23	DGND
24	SYS3.3V
25	LED_SUPPLY
26	LED SUPPLY_GND
27	CD3.3V
28	VP_DET
29	FL_GND
30	DC 18V

TO B
MAIN CIRCUIT (CN2008) IN SCHEMATIC DIAGRAM - 3

VR6002 EVEKE2F3524B VOLUME JOG
VR6000 K9AA012Y0004 TRACK JOG

C6019 100P, C6017 100P
R6058 12K, R6057 22K
C6023 1000P, R6056 10K
C6010 100P, C6011 100P
R6049 22K, R6048 12K, R6050 10K
S6015 D.BASS
R6055 47K

J_VOLA, DVREF+, ROTARY_JOG, KEY1_A

CN6001

1	DGND
2	VREF+
3	RMT
4	NC

TO F
REMOTE SENSOR CIRCUIT (CN6004) IN SCHEMATIC DIAGRAM - 14

CN6002

1	DGND
2	MIC_SW
3	MIC
4	MIC_GND
5	+9V

TO K
MIC CIRCUIT (CN2005*) IN SCHEMATIC DIAGRAM - 19

MIC_SW
MIC
MIC_GND
+9V

R6076 3.3K, R6075 3.3K
R6077 15K
R6078 15K

PA_IN_R
PA_IN_GND
PA_IN_L
PA_SW
HP_SW
HP_R
HP_GND
HP_L

CN6005

8	PA_IN_R
7	PA_IN_GND
6	PA_IN_L
5	PA_SW
4	HP_SW
3	HP_R
2	HP_GND
1	HP_L

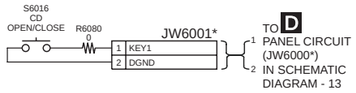
TO H
MUSIC PORT/ HEADPHONE CIRCUIT (CN6807*) IN SCHEMATIC DIAGRAM - 14

1/2 2/2 SA-AKX70PH/PN PANEL CIRCUIT

18.5. CD Open Button, Remote Sensor, Tuner & Music Port/Headphone Circuit

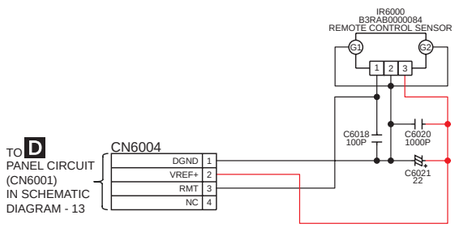
SCHEMATIC DIAGRAM - 14

E CD OPEN BUTTON CIRCUIT



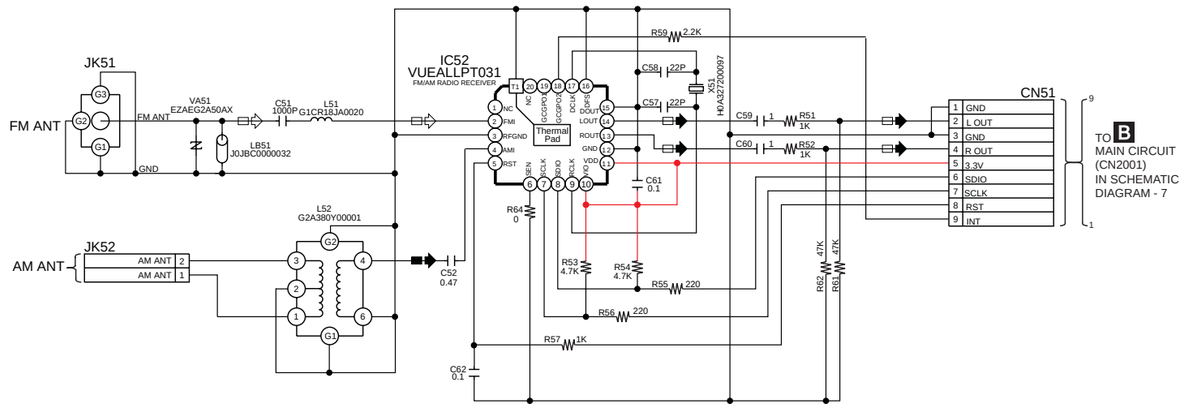
F REMOTE SENSOR CIRCUIT

—— : +B SIGNAL LINE



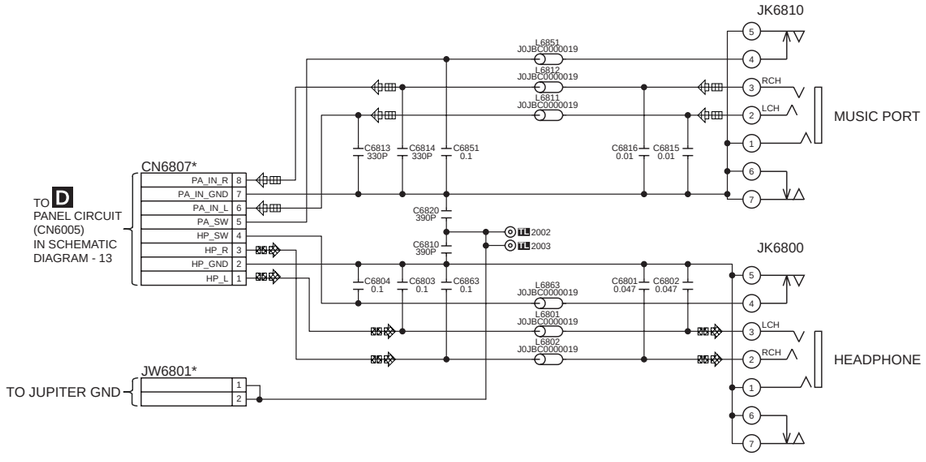
G TUNER CIRCUIT

—— : +B SIGNAL LINE ■▶ : AM SIGNAL LINE □▷ : FM SIGNAL LINE □▶ : AM/FM SIGNAL LINE



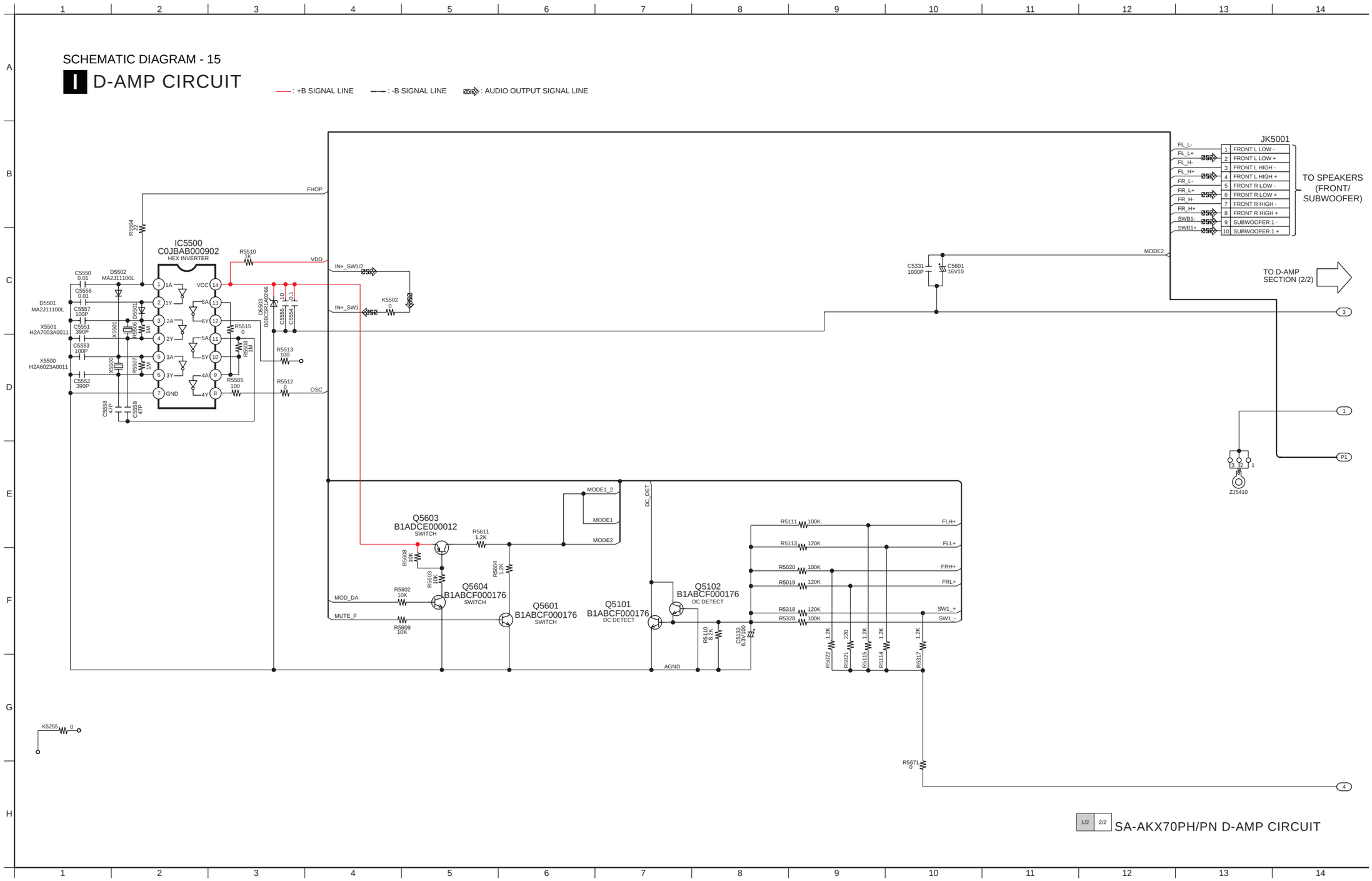
H MUSIC PORT/HEADPHONE CIRCUIT

□▷ : MUSIC PORT AUDIO INPUT SIGNAL LINE ■▶ : AUDIO OUTPUT SIGNAL LINE



SA-AKX70PH/PN CD OPEN BUTTON / REMOTE SENSOR / TUNER / MUSIC PORT/HEADPHONE CIRCUIT

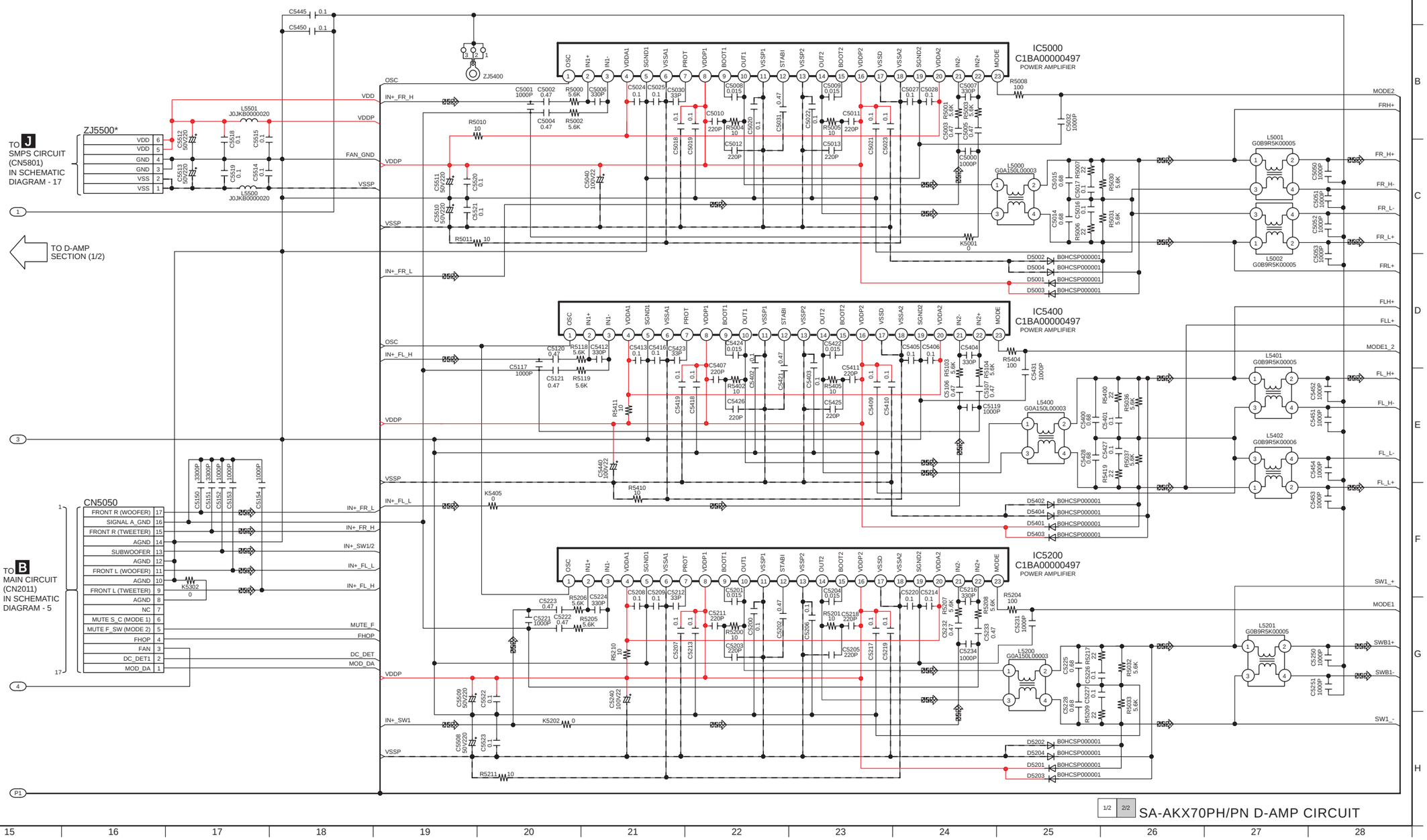
18.6. D-Amp Circuit



SCHEMATIC DIAGRAM - 16

I D-AMP CIRCUIT

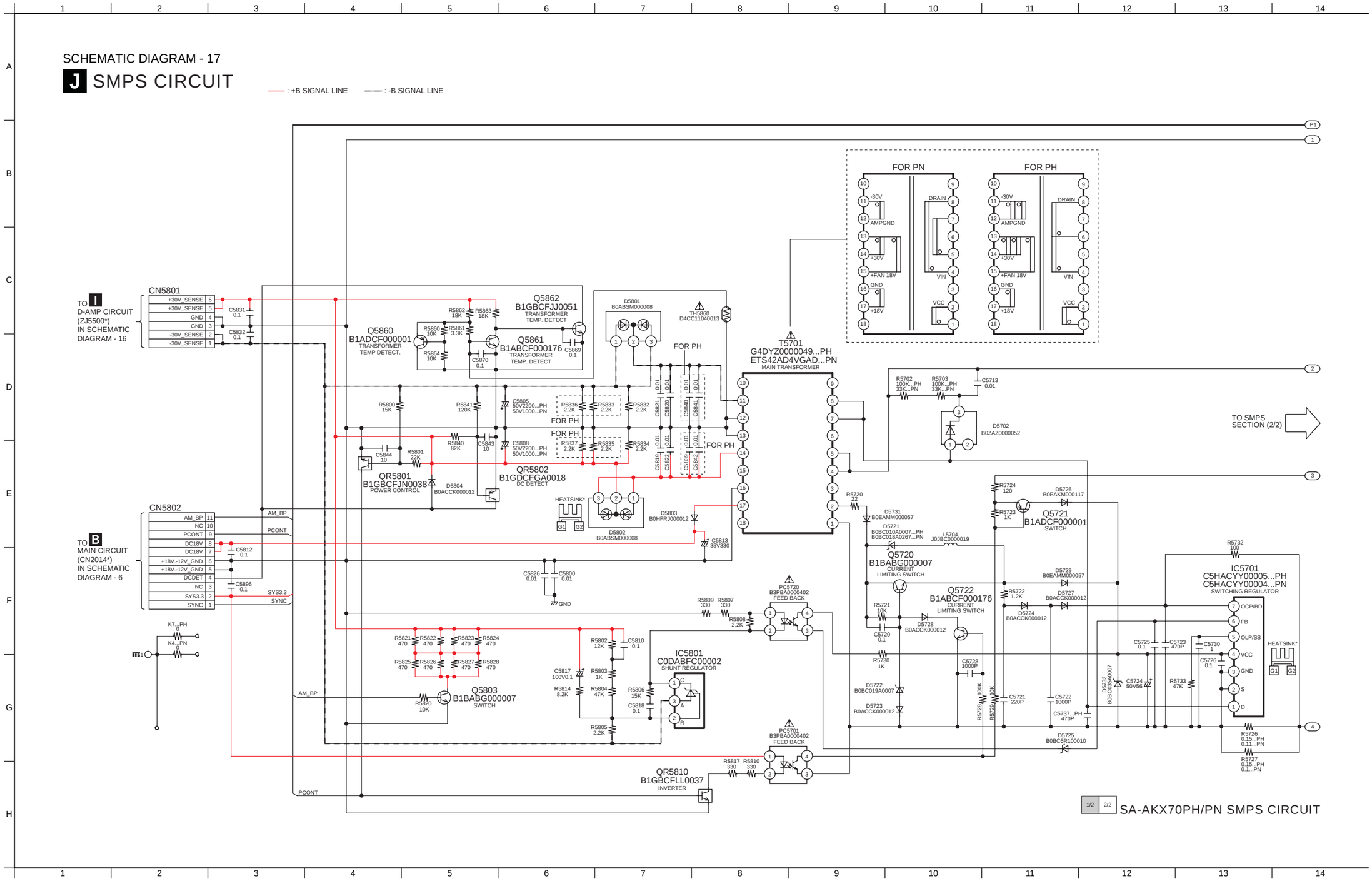
—— : +B SIGNAL LINE　—— : -B SIGNAL LINE　▷◁ : AUDIO OUTPUT SIGNAL LINE



1/2 | 2/2

SA-AKX70PH/PN D-AMP CIRCUIT

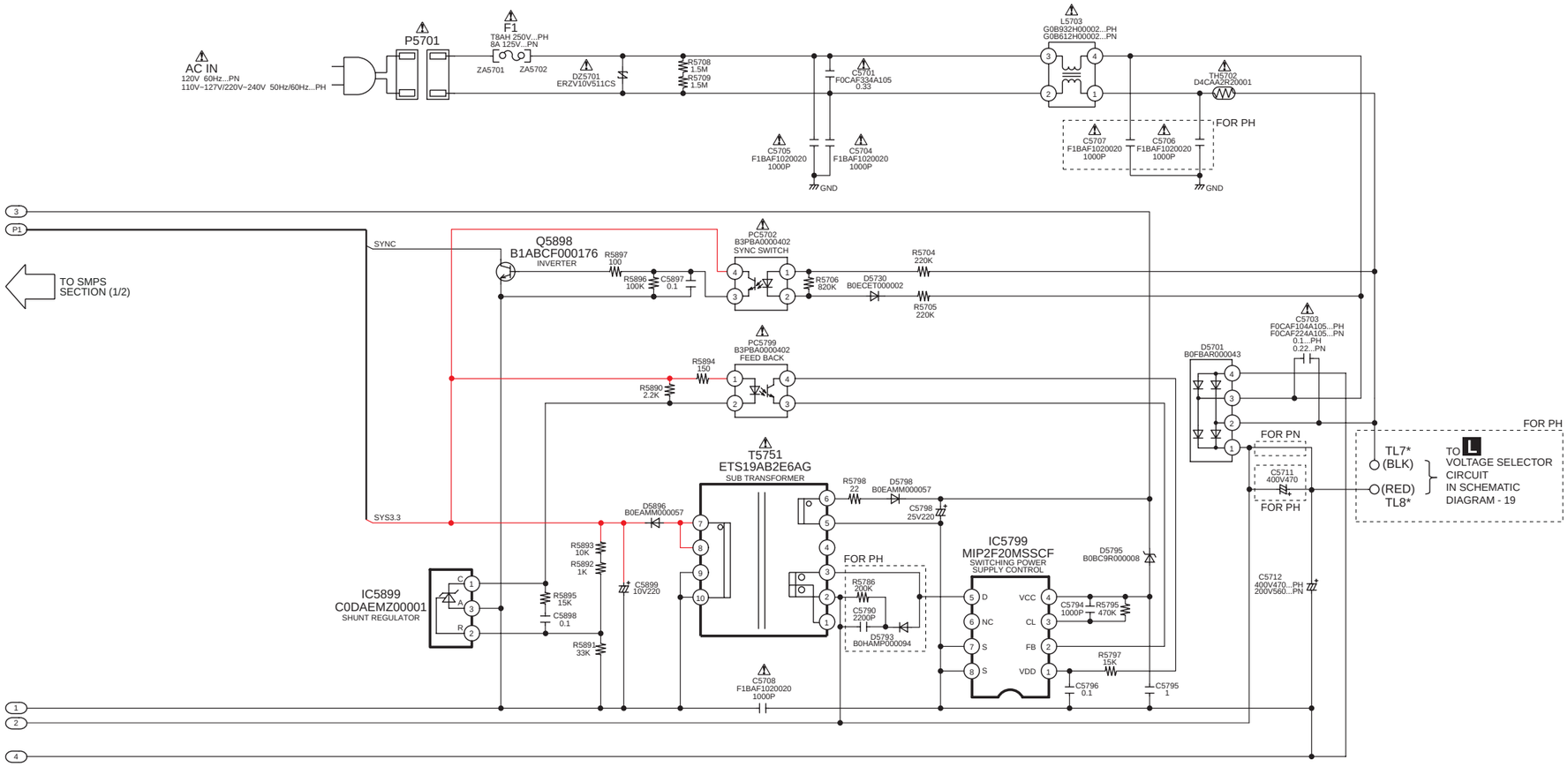
18.7. SMPS Circuit



SCHEMATIC DIAGRAM - 18

J SMPS CIRCUIT

—— : +B SIGNAL LINE —— : -B SIGNAL LINE



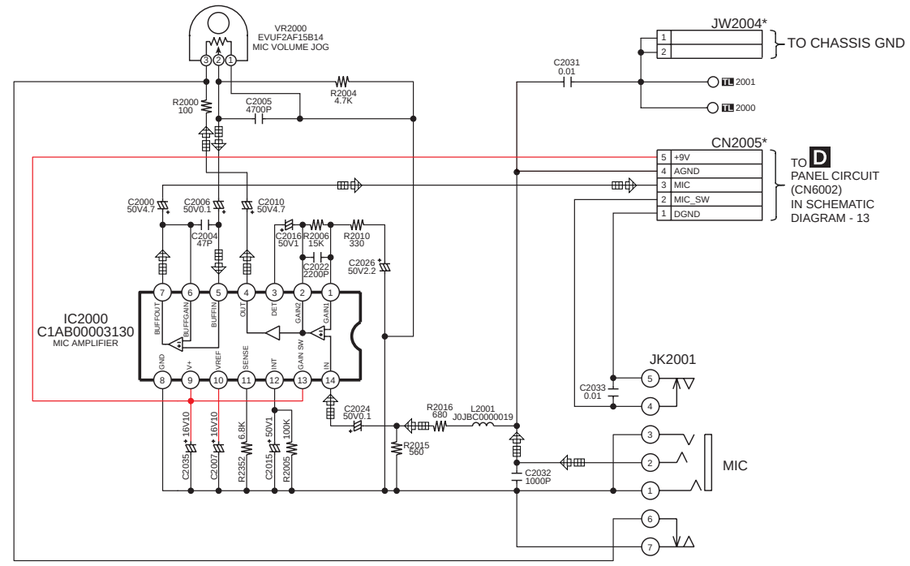
1/2 2/2 SA-AKX70PH/PN SMPS CIRCUIT

18.8. Mic & Voltage Selector Circuit (For PH Only)

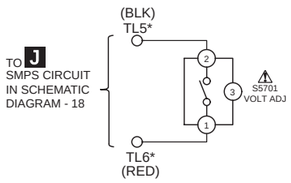
SCHEMATIC DIAGRAM - 19

K MIC CIRCUIT

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



L VOLTAGE SELECTOR CIRCUIT(FOR PH ONLY)

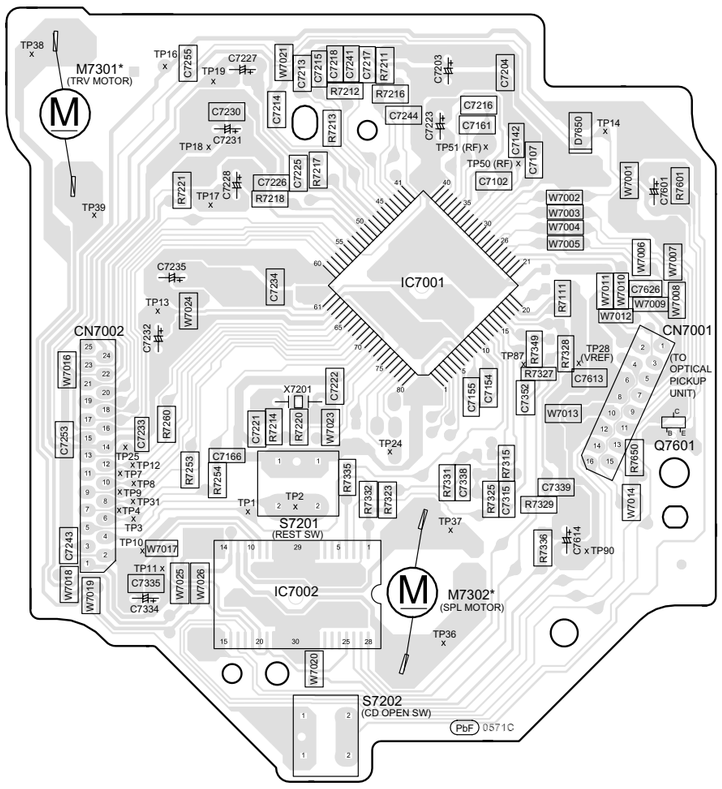


SA-AKX70PH/PN MIC / VOLTAGE SELECTOR CIRCUIT

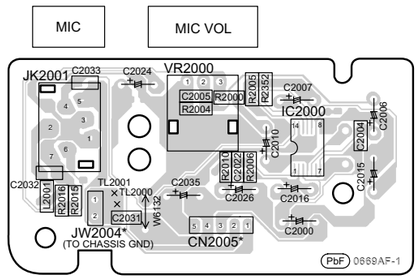
19 Printed Circuit Board

19.1. CD Servo, Mic & Voltage Selector P.C.B. (For PH Only)

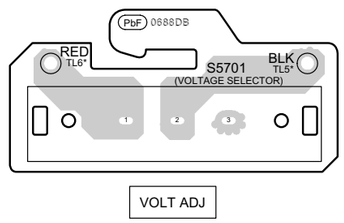
A CD SERVO P.C.B. (REPX0739A)



K MIC P.C.B. (REPX0815CF...PH)
(REPX0815BF...PN)



L VOLTAGE SELECTOR P.C.B. (REPX0809G...PH)

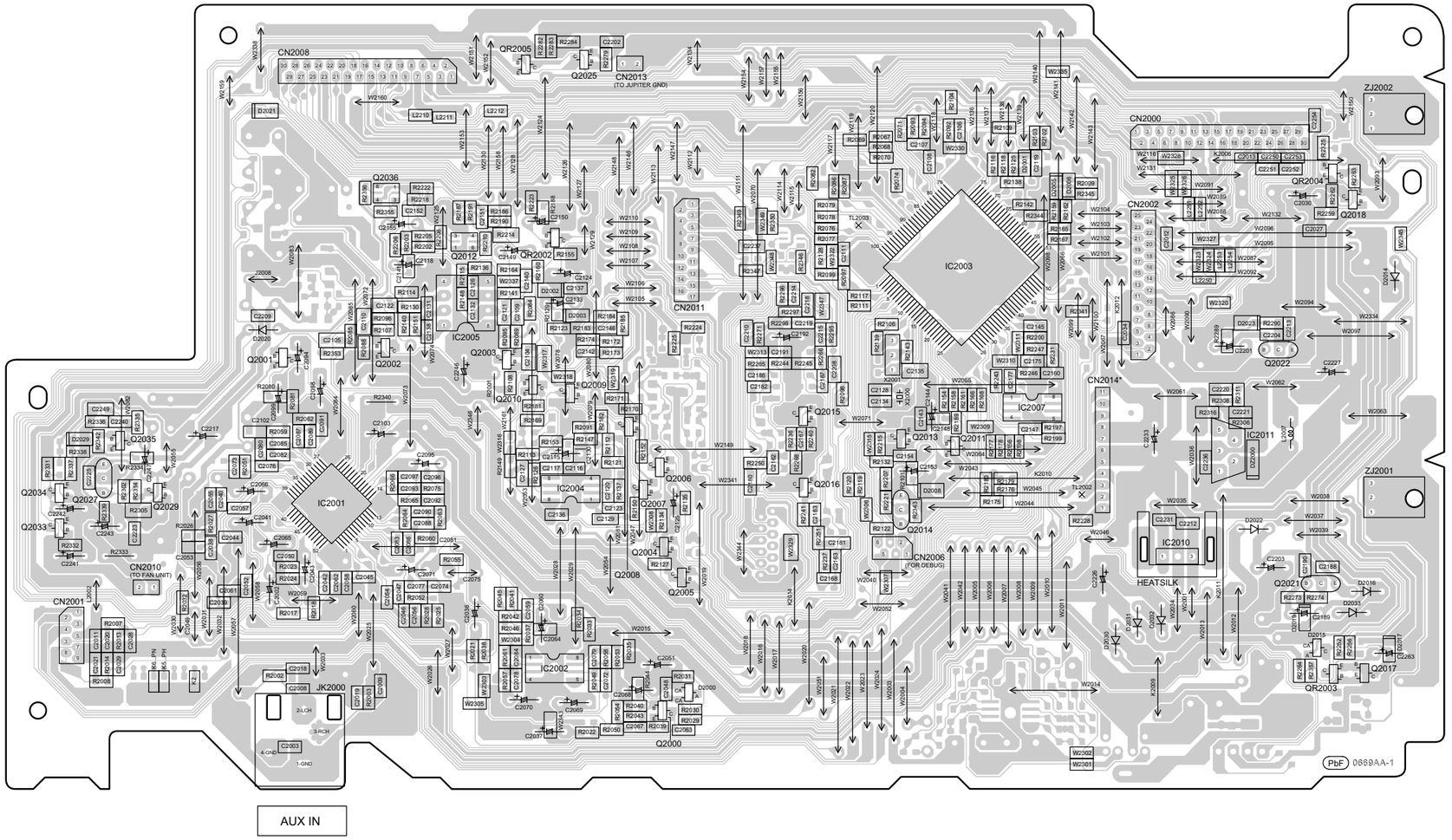


NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
CD SERVO / MIC / VOLTAGE SELECTOR P.C.B.

19.2. Main P.C.B.

B MAIN P.C.B. (REPX0815CA...PH)
(REPX0815BA...PN)

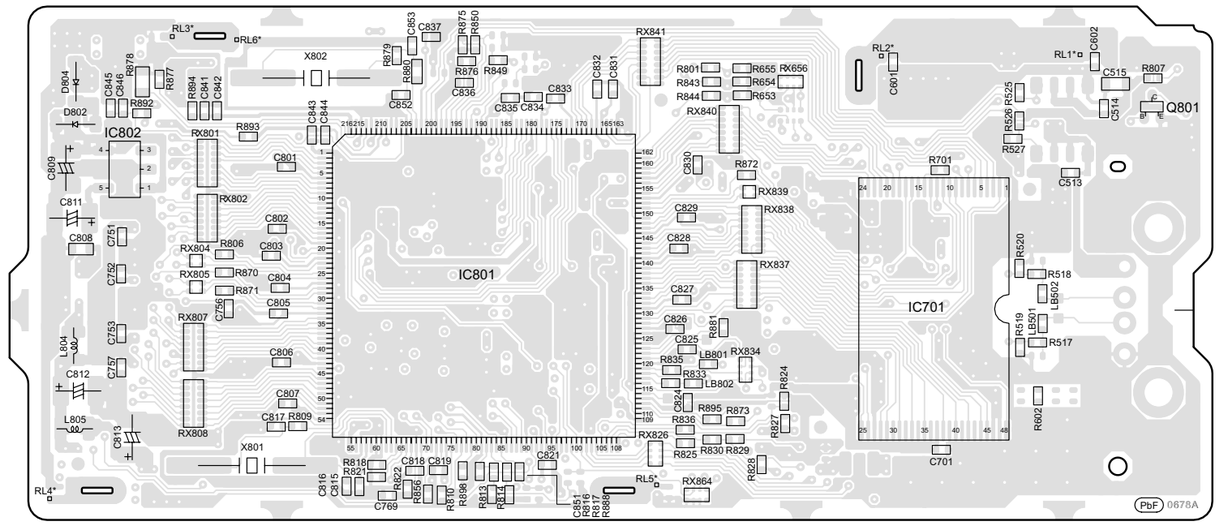


NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
MAIN P.C.B.

19.3. Jupiter P.C.B.

C JUPITER P.C.B. (REPX0823B)



(SIDE A)

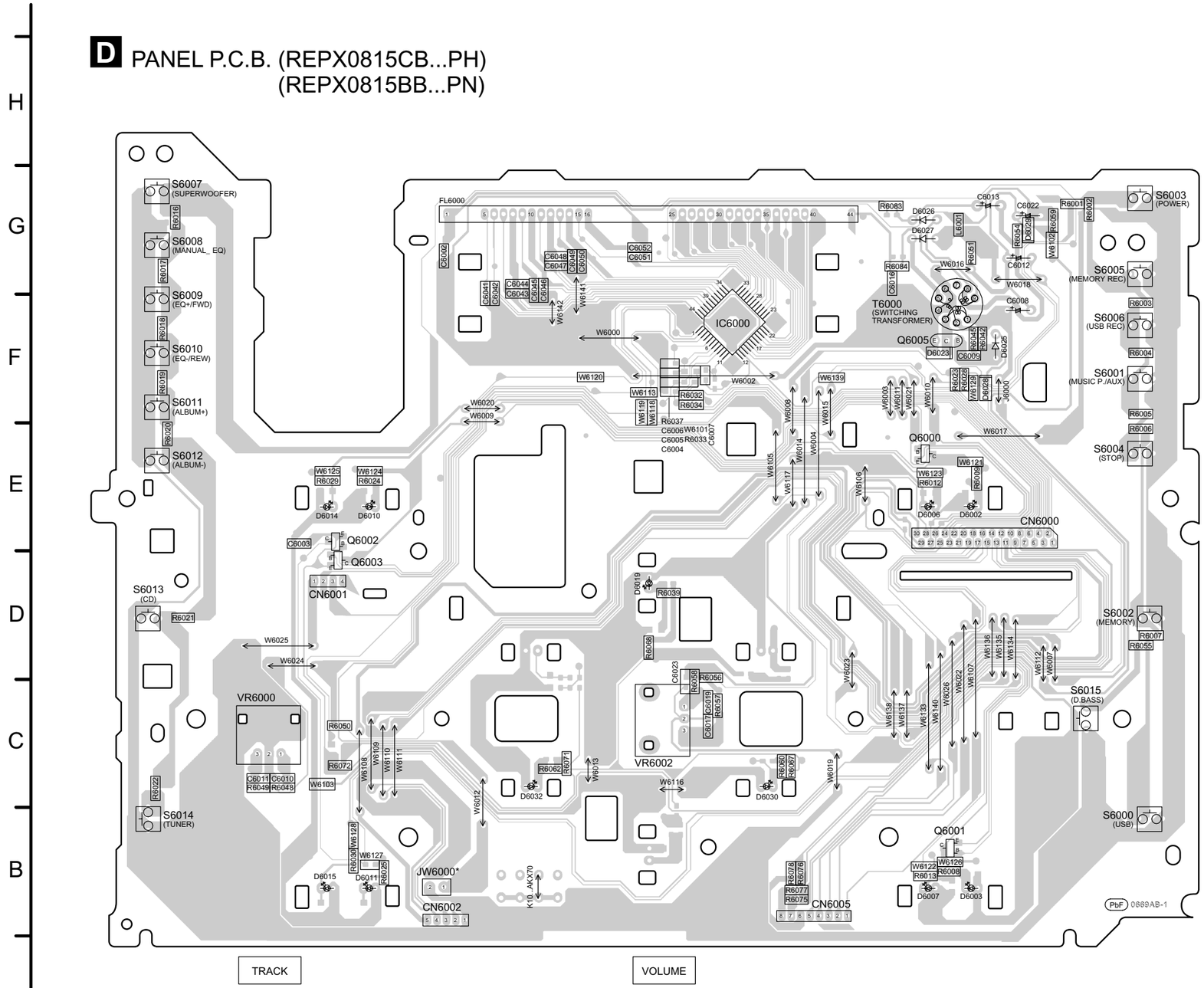
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
JUPITER P.C.B.

19.4. Panel P.C.B.

D PANEL P.C.B. (REPX0815CB...PH)
(REPX0815BB...PN)

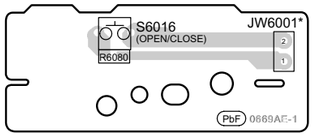


NOTE: " * " REF IS FOR INDICATION ONLY.

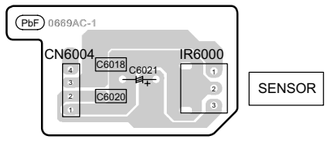
SA-AKX70PH/PN
PANEL P.C.B.

19.5. CD Open Button, Remote Sensor, Tuner & Music Port/Headphone P.C.B.

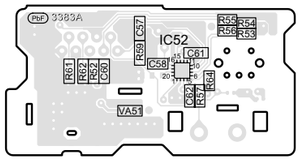
E CD OPEN BUTTON P.C.B. (REPX0815CB...PH)
(REPX0815BB...PN)



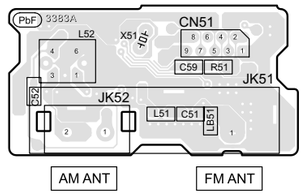
F REMOTE SENSOR P.C.B. (REPX0815CC...PH)
(REPX0815BC...PN)



G TUNER P.C.B. (REP4557A)

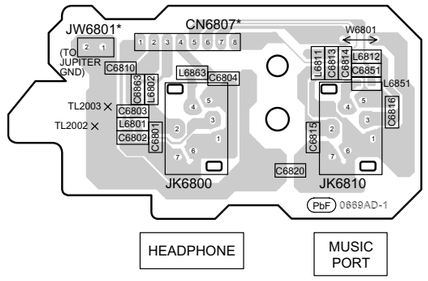


(SIDE A)



(SIDE B)

H MUSIC PORT/HEADPHONE P.C.B. (REPX0815CD...PH)
(REPX0815BD...PN)

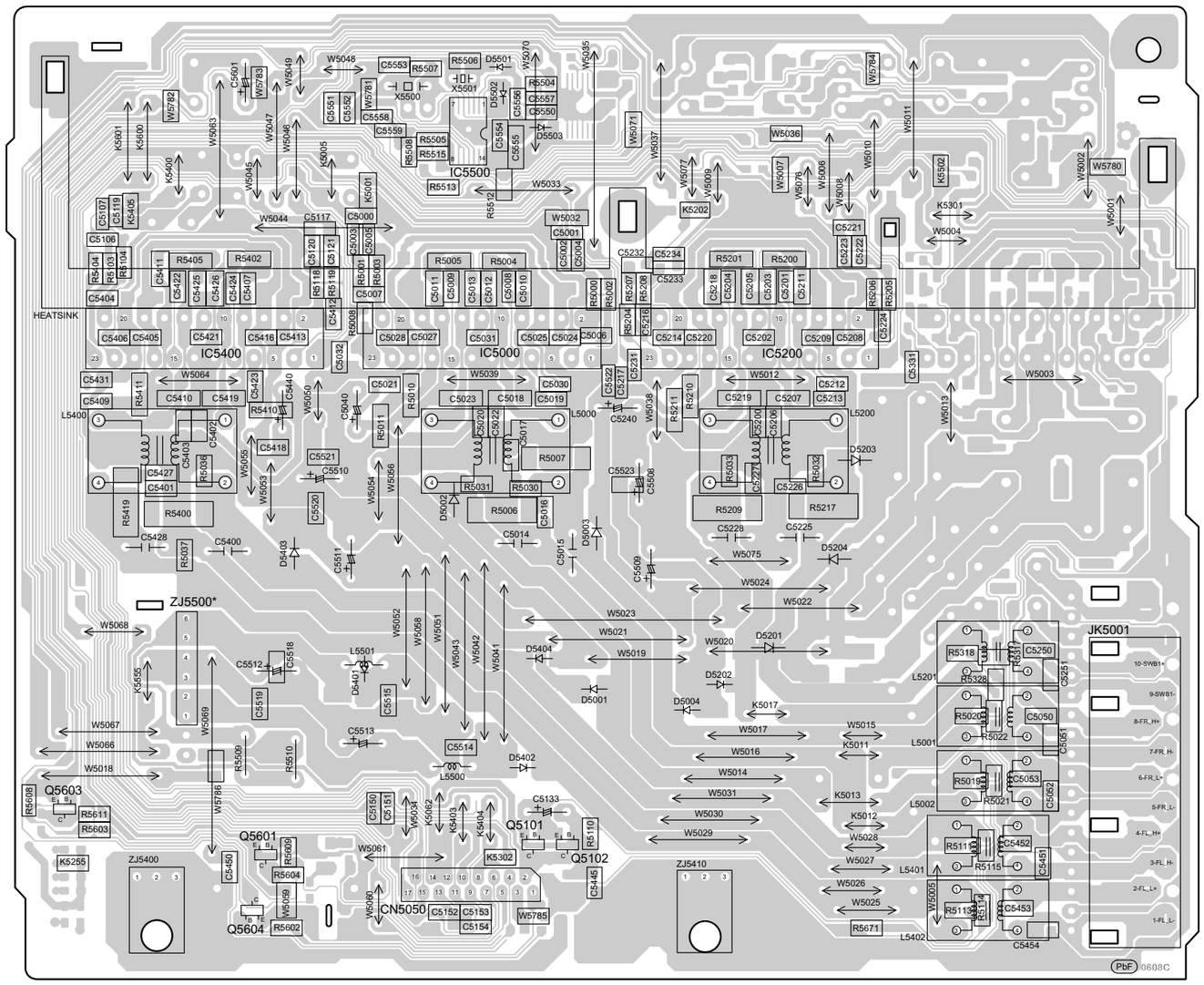


NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
CD OPEN BUTTON / REMOTE SENSOR / TUNER / MUSIC PORT/HEADPHONE P.C.B.

19.6. D-Amp P.C.B.

D-AMP P.C.B. (REPX0821C)



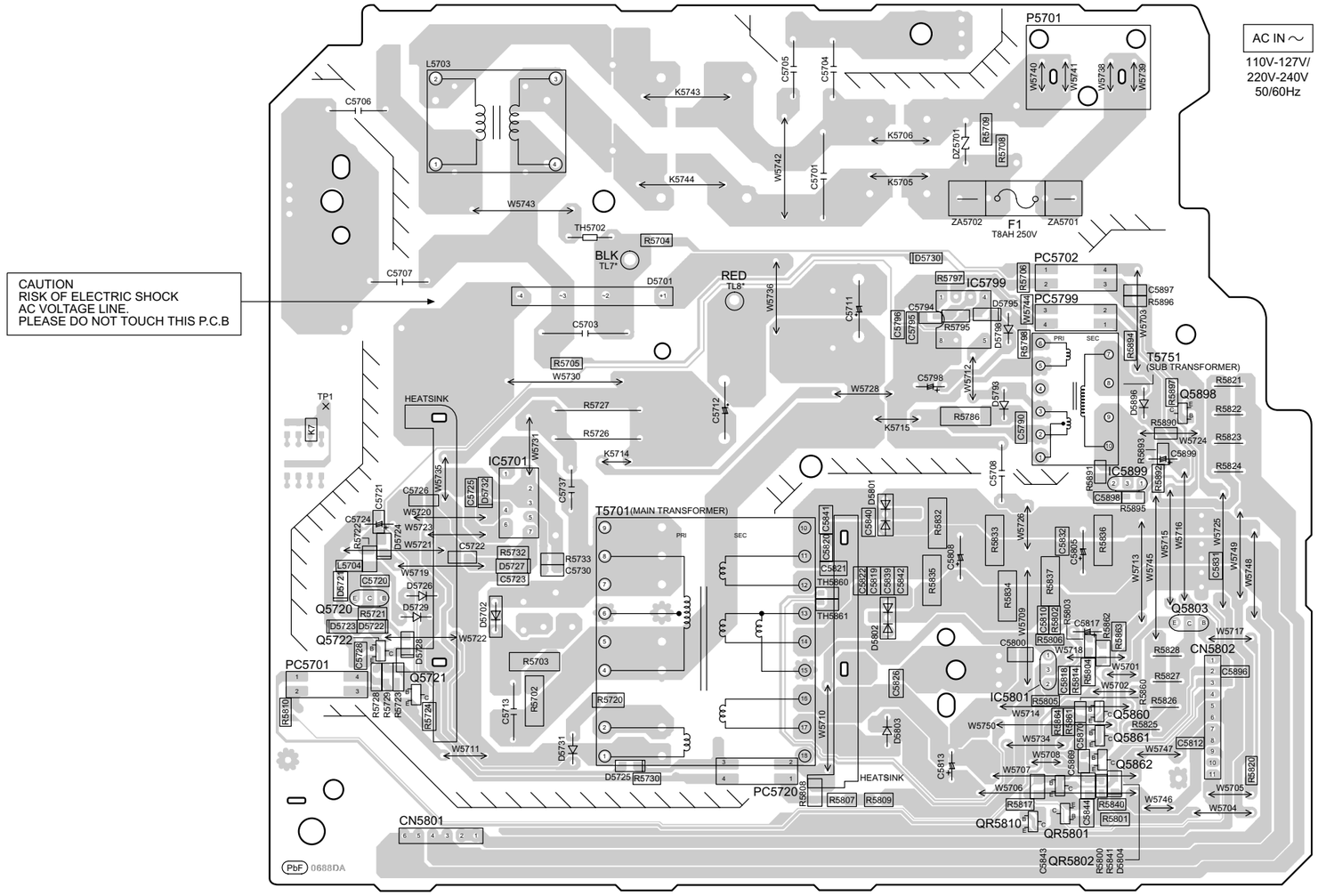
TO SPEAKERS (FRONT/ SUBWOOFER)

NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
D-AMP P.C.B.

19.7. SMPS P.C.B. (For PH Only)

J SMPS P.C.B. (REPX0809G...PH)

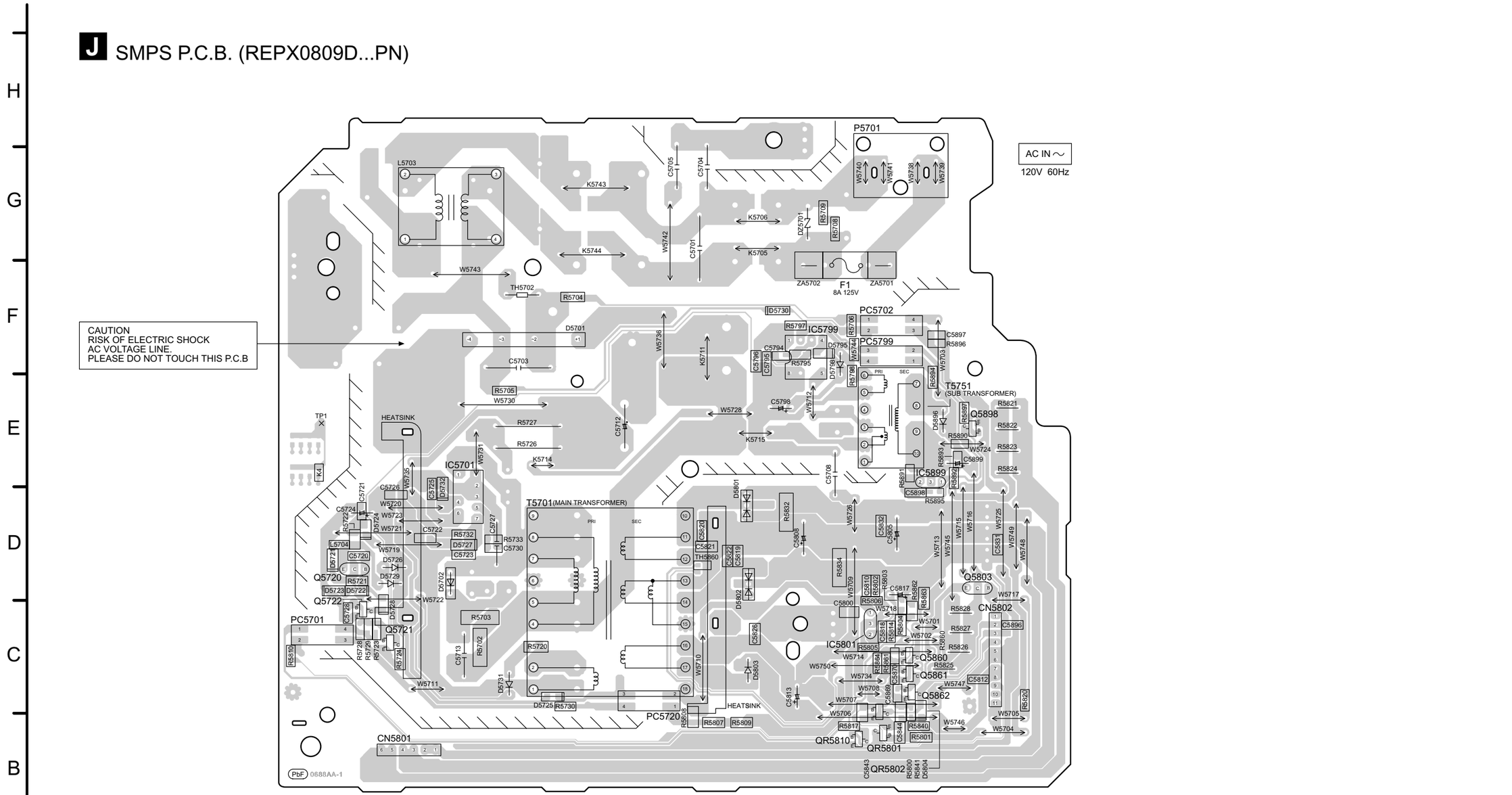


NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX70PH/PN
SMPS P.C.B.

19.8. SMPS P.C.B. (For PN Only)

J SMPS P.C.B. (REPX0809D...PN)



SA-AKX70PH/PN
SMPS P.C.B.

20 Terminal Function of ICs

20.1. IC2003 (RFKWMAKX70PN): IC MICRO-PROCESSOR

Pin No.	Terminal Name	I/O	Function
1	CLIP_ATTN	O	To level down output to reduce distortion
2	ASP_DATA	O	ASP Communication line
3	ASP_CLK	O	ASP Communication line
4	OCD_SDA	O	Flashing of Micro-P communication line
5	SW_MUTE	O	Super woofer mute
6	OCD_SCL	O	Flashing of Micro-P communication line
7	SUBW_LVL1	O	Super woofer Level 1
8	SUBW_LVL2	O	Super woofer Level 2
9	DCDET1	I	Detect of DAmp faulty (F61)
10	DCDET2	I	Detect of Power Supply & SMPS faulty (F76)
11	MMOD	I	Flashing of Micro-P communication line
12	XTOUT	O	Resonator Oscillation . 10Mhz
13	XTIN	I	Resonator Oscillation . 10Mhz
14	VSS	-	Ground
15	XI	I	crystal clk Oscillation .32.7khz
16	XO	O	crystal clk Oscillation .32.7khz
17	VDD33	-	3.3V supply
18	VDD18	-	1.8V supply
19	NRST	I	Reset for Micro-P for programme initialize
20	SWJOGA	I	Not used
21	SWJOGB	I	Not used
22	TU_SDA	O	Tuner communication line
23	TU_CLK	O	Tuner communication line
24	TU_RST	O	Tuner communication line
25	TU_INT	I	Tuner communication line
26	NC	-	No Connection
27	SYNC	I	Pulse wave from SMPS to detect of AC plug in or out
28	PCONT	O	To switch on all power supply.
29	SMPS_BP	O	To shift SMPS switching freq from interference
30	CD_OPEN_SW	I	To detect Open SW
31	NC	-	No Connection
32	NC	-	No Connection
33	NC	-	No Connection
34	EE_DATA	O	EEPROM communication line
35	EE_CS	O	EEPROM communication line
36	EE_CLK	O	EEPROM communication line
37	VDD18	-	1.8V Supply
38	NC	-	No Connection
39	VSS	-	Ground
40	NC	-	No Connection
41	NC	-	No Connection
42	NC	-	No Connection
43	NC	-	No Connection
44	NC	-	No Connection
45	NC	-	No Connection
46	NC	-	No Connection
47	NC	-	No Connection
48	WMUTE	O	Not used
49	WDET	I	Not used
50	SW_LED	O	Not used
51	CD_RESET	O	CD Reset pin
52	CD_REST_SW	I	To detect CD Reset SW
53	CD_LOADING_CW	O	CD loading clockwise
54	CD_LOADING_CCW	O	CD loading coounter clockwise
55	NC	-	No Connection
56	NC	-	No Connection
57	NC	-	No Connection
58	NC	-	No Connection
59	NC	-	No Connection
60	NC	-	No Connection
61	NC	-	No Connection
62	NC	-	No Connection
63	VSS	-	Ground
64	NC	-	No Connection
65	NC	-	No Connection
66	NC	-	No Connection
67	REGION3	I	Country region setting
68	NC	-	No Connection
69	CR_TIMER	I	CR timer pin
70	NC	-	No Connection
71	LED	O	LED Dimmer
72	MIC_SW	I	MIC Switch
73	M.PORT_SW	I	To detect of MPort Jack connectivity . Active Hi
74	HP_SW	I	To detect of Headphone Jack connectivity . Active Hi
75	SD_INT	O	Jupiter and CD Communication line interrupt
76	SD_CMD	O	Jupiter & CD Communication line UART (TX)
77	SD_STAT	I	Jupiter & CD Communication line UART (RX)
78	SD_NRST	O	Jupiter & CD Communication line NRST
79	USB_REC_LED	O	To activate LED blinking effect when USB recording
80	MUTE_S	O	Not used
81	MUTE_A	O	Muting Control
82	REGION2	I	Country region setting
83	MODE_DA	O	To activate DAmp. Active Hi
84	F_HOP1	O	To shift DAmp switching freq from interference to AM freq
85	MUTE_F	O	To mute DAmp for speaker output muting
86	RMT	I	Remote controller detection communication line
87	NC	-	No Connection
88	NC	-	No Connection
89	VDD	-	3.3V Supply
90	LED_DIMMER	O	Dim down the LED when dimmer on . Active Lo
91	VSS	-	Ground
92	REGION1	I	Country region setting
93	CLIP_SENSOR	I	To detect signal & distortion by level adjustment
94	LEVEL_METER	-	No connection
95	ROTARY_SKIP	I	To detect rotary pulse for track search
96	VOL_JOG	I	To detect vol jog for volume control
97	NC	-	No Connection
98	KEY2	I	To detect Manual EQ/FF/RWD/ Album+/-/CD/AM/FM/button
99	KEY1	I	To detect Power/Memory/USB/ MPort/Stop/DBass button
100	VREF+	-	3.3V Supply

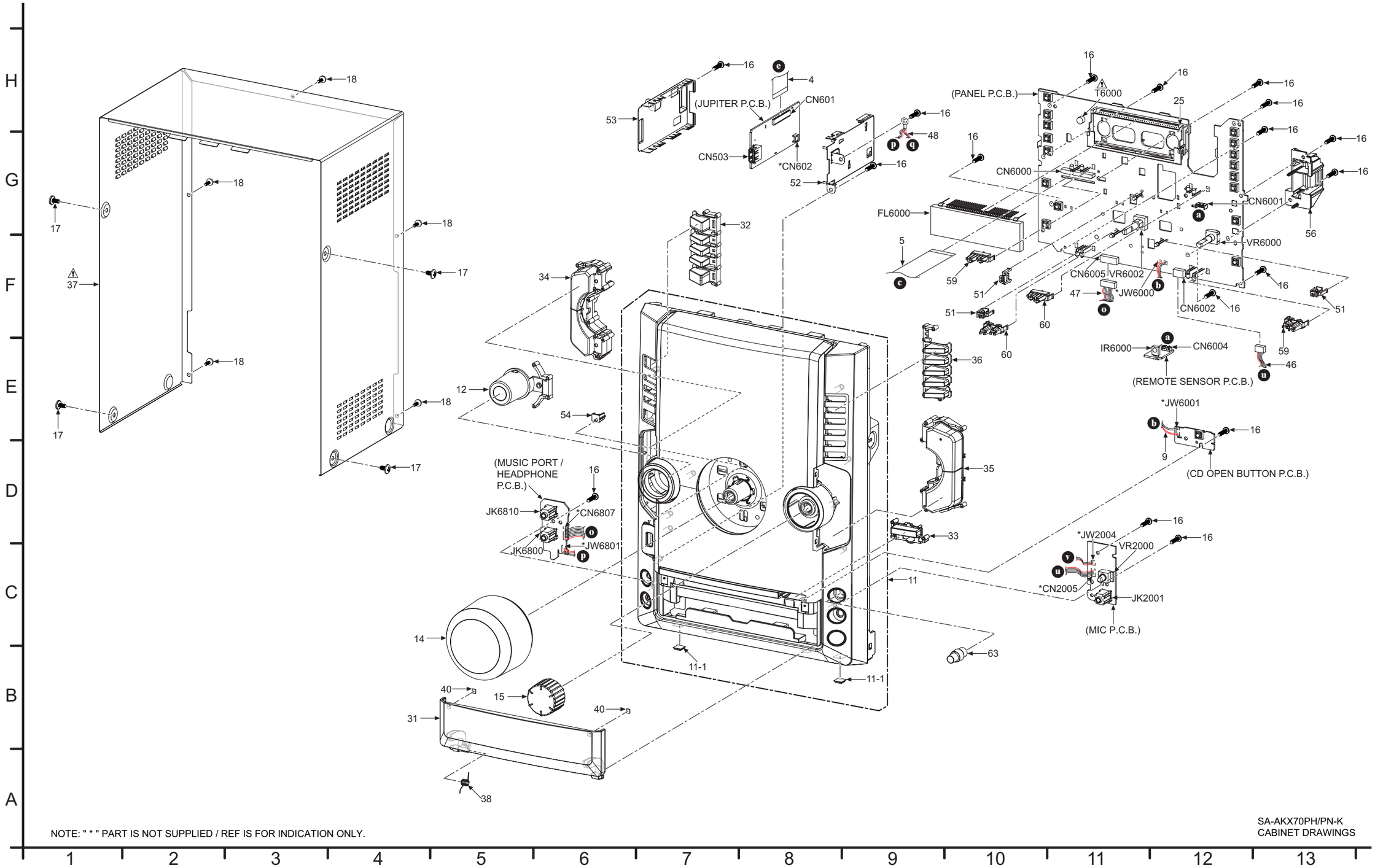
20.2. IC6901(C0HBB0000057): IC FL Driver

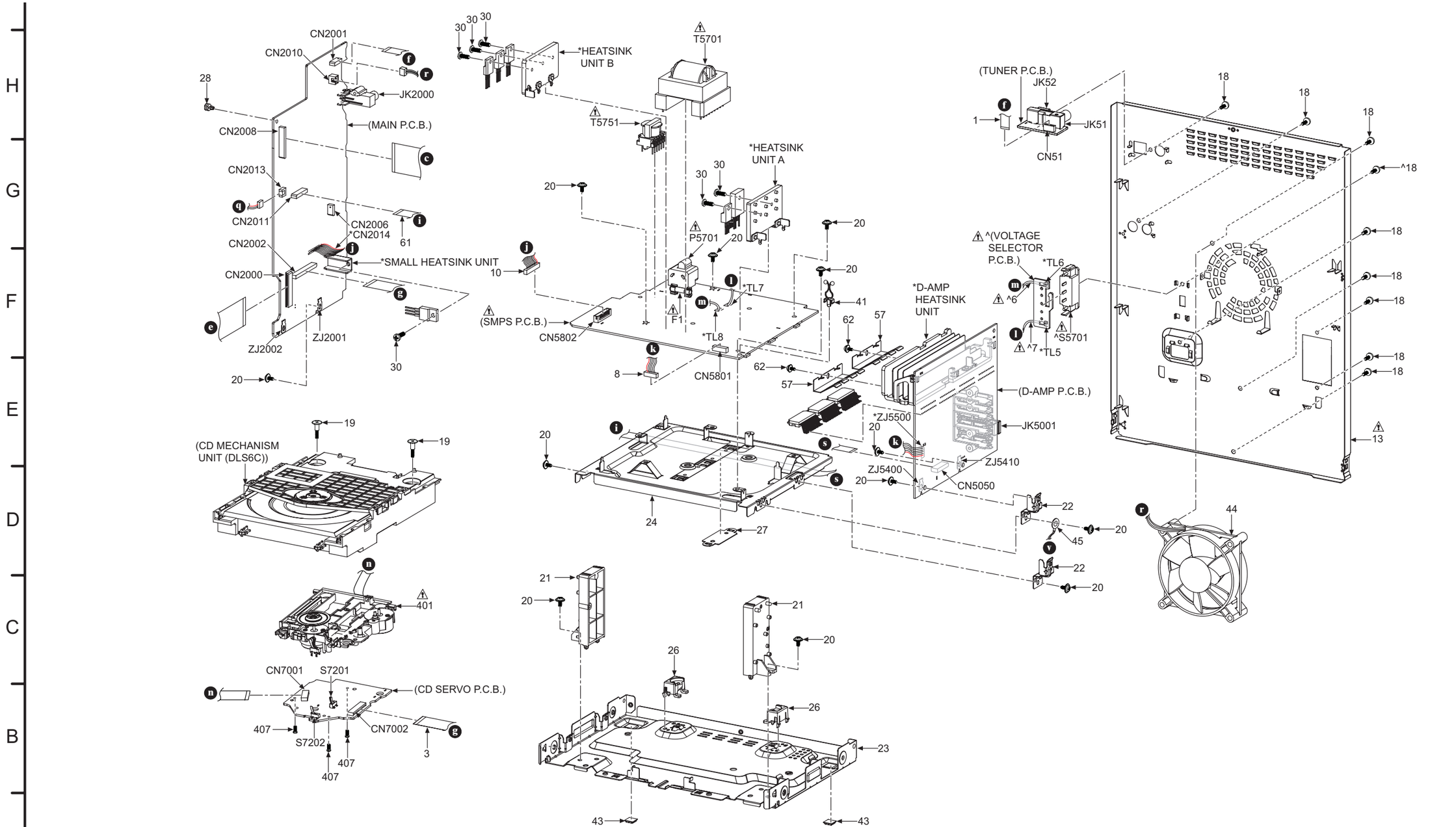
Pin No.	Terminal Name	I/O	Function
1	P0	-	No Connection
2	P1	-	No Connection
3	P2	-	No Connection
4	P3	-	No Connection
5	OSC	I	Oscillator Input
6	NC	-	No Connection
7	DIN	I	Data Input
8	CLK	I	Clock Input
9	STB	I	Serial Interface Strobe
10	K1	-	Key Data Input 1 (No Connection)
11	K2	-	Key Data Input 2 (No Connection)
12	VSS	-	GND
13	VDD	-	Power Supply (+5V)
14	S1	O	Segment Output 18
15	S2	O	Segment Output 17
16	S3	O	Segment Output 16
17	S4	O	Segment Output 15
18	S5	O	Segment Output 14
19	S6	O	Segment Output 13
20	S7	O	Segment Output 12
21	S8	O	Segment Output 11
22	S9	O	Segment Output 10
23	S10	O	Segment Output 9
24	S11	O	Segment Output 8
25	S12	O	Segment Output 7
26	S13	O	Segment Output 6
27	S14	O	Segment Output 5
28	S15	O	Segment Output 4
29	S16	O	Segment Output 3
30	VEE	-	Voltage Supply
31	G12	O	Segment Output 2
32	G11	O	Segment Output 1
33	G10	O	Grid Segment Output 1
34	G9	O	Grid Segment Output 2
35	G8	O	Grid Segment Output 3
36	G7	O	Grid Segment Output 4
37	G6	O	Grid Segment Output5
38	G5	O	Grid Segment Output 6
39	G4	O	Grid Segment Output7
40	G3	O	Grid Segment Output 8
41	G2	O	Grid Segment Output 9
42	G1	O	Grid Segment Output 10
43	VDD	-	Voltage Supply (+5V)
44	VSS	-	GND

21 Exploded View and Replacement Parts List

21.1. Exploded View and Mechanical replacement Part List

21.1.1. Cabinet Parts Location

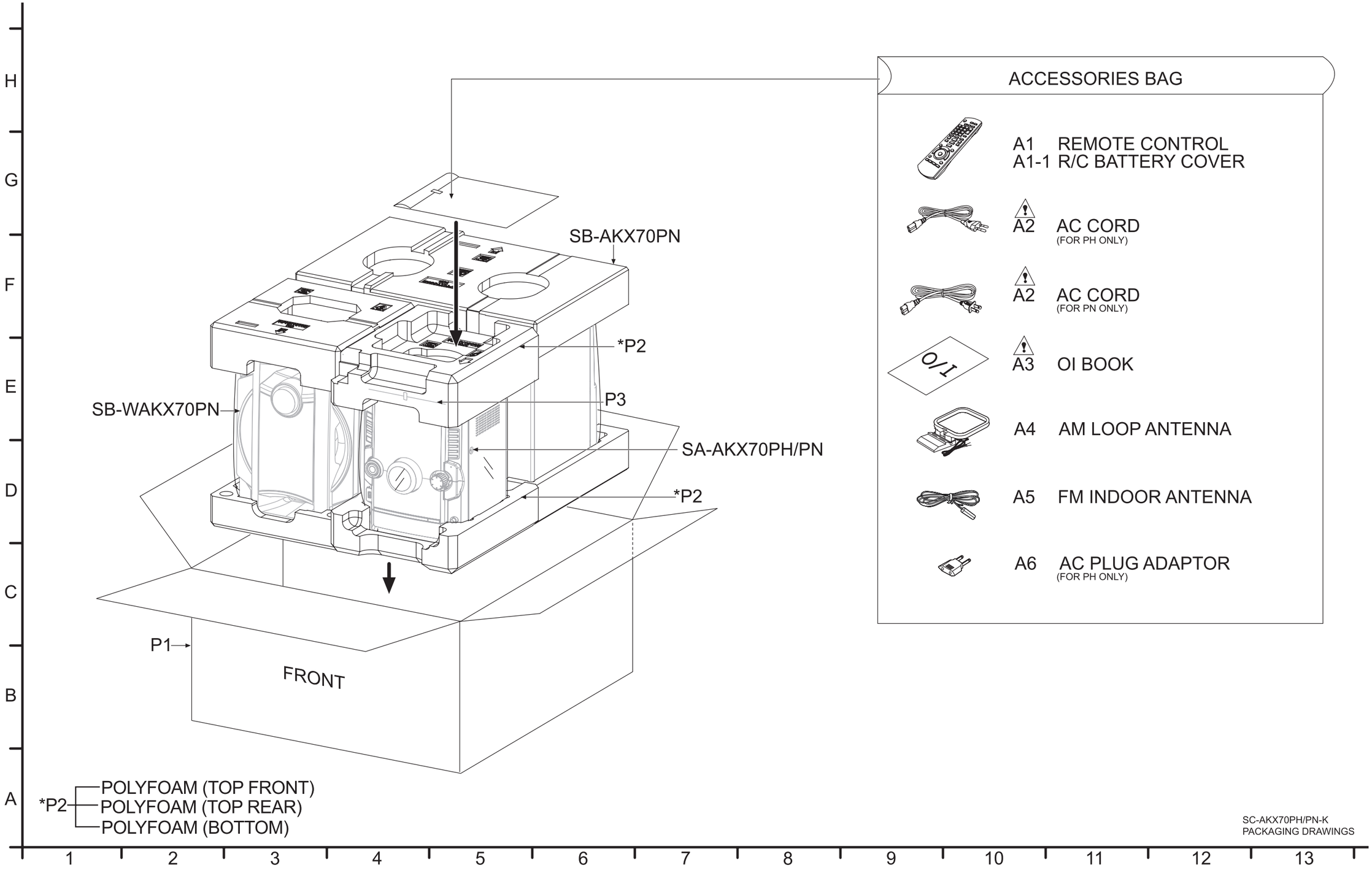




NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.
" ^ " PART IS FOR PH ONLY.

SA-AKX70PH/PN-K
CABINET DRAWINGS

21.1.2. Packaging



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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REEX1001	9P FFC (MAIN-TUNER)	1	
	3	REEX1162-J	25P FFC (MAIN-CD)	1	
	4	REEX1164	30P FFC (MAIN-JUPITER)	1	
	5	REEX1165	32P FFC (MAIN-PANEL)	1	
⚠	6	REXX1030	1P RED WIRE (VOLTAGE-SMPS)	1	PH
⚠	7	REXX1031	1P BLACK WIRE (VOLTAGE-SMPS)	1	PH
	8	REXX1087	6P CABLE WIRE (DAMP-SMPS)	1	
	9	REXX1076	2P CABLE WIRE (PANEL-CD OPEN BUTTON)	1	
	10	REXX1089	11P CABLE WIRE (SMPS-MAIN)	1	
	11	RFKGAKX70PHK	FRONT PANEL ASS'Y	1	
	11-1	RKAX0042-K	LEG CUSHION	2	
	12	RYPX0321J-S	D-BASS BUTTON UNIT	1	
⚠	13	RGRX1002H-A	REAR PANEL	1	PN
⚠	13	RGRX1002J-A	REAR PANEL	1	PH
	14	RYQX1018-S	VOLUME KNOB ASS'Y	1	
	15	RGWX0113-S	SKIP KNOB	1	
	16	RHD26046-L	SCREW	17	
	17	RHD30007-K2J	SCREW	4	
	18	RHD30119-S	SCREW	14	PH

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	18	RHD30119-S	SCREW	13	PN
	19	RHDX031008	SCREW	2	
	20	RHDX30005-1	SCREW	12	
	21	RMAX0333-2	CHASSIS SUPPORT	2	
	22	RMAX1002	D-AMP BRACKET	2	
	23	RMKX1005	BOTTOM CHASSIS	1	
	24	RMKX1006	INNER CHASSIS	1	
	25	RMNV0079-1	FL HOLDER	1	
	26	RMQX0382-2	MECHA HOLDER	2	
	27	RMQX1041-Q	SUPPORT SHEET	1	
	28	RMR0502A-W	PCB SUPPORT	1	
	30	XTB3+10JFJ	SCREW	6	
	31	RGKX1030B-K1	CD LID	1	
	32	RGUX1007A-K	POWER BUTTON	1	
	33	RGUX1009-K1	CD OPEN BUTTON	1	
	34	RGUX1010A-S1	MAIN CONTROL BUTTON L	1	
	35	RGUX1011-S1	MAIN CONTROL BUTTON R	1	
	36	RGUX1016A-K	MANUAL EQ BUTTON	1	
⚠	37	RKMX1003-K1	TOP CABINET	1	
	38	RMBX1002	CD LID OPEN SPRING	1	
	40	RMGX0033	CUSHION RUBBER	2	
	41	RMNX1025	WIRE HOLDER	1	
	43	RKAX0042-K	LEG CUSHION	2	
	44	L6FALEFH0030	FAN UNIT ASS'Y	1	
	45	REXX1028	2P GROUNDING WIRE (D-AMP-MIC)	1	
	46	REXX1086	5P CABLE WIRE (MIC-PANEL)	1	
	47	REXX1088	8P CABLE WIRE (PANEL-MUSIC PORT/HEADPHONE)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	48	REXX1090	2P CABLE WIRE (MUSIC PORT/ HEADPHONE-SD SHIELD PLATE A)	1	
	51	RMNX0151	LED HOLDER	3	
	52	RSCX0207A-1	SD SHIELD PLATE A	1	
	53	RSCX0208B	SD SHIELD PLATE B	1	
	54	RGLX1005-Q	USB REC LIGHT PIECE	1	
	56	RMAX1004-1	D-AMP HOLDER	1	
	57	RMC0465	TR SPRING	2	
	59	RMNX1006	LED HOLDER L	2	
	60	RMNX1007	LED HOLDER R	2	
	61	REEX1123	17P FFC (MAIN-DAMP)	1	
	62	XTW3+8TFJ	SCREW	2	
	63	RGWX0056-1K1	MIC VOL KNOB	1	
			TRAVERSE DECK		
⚠	401	RAEX0190Z-V	TRAVERSE UNIT	1	
	407	XTN2+6GFJ	SCREW	3	
			PACKING MATERI-ALS		
	P1	RPGX3262	PACKING CASE	1	PN
	P1	RPGX3263	PACKING CASE	1	PH
	P2	RPNX1012	POLYFOAM	1	
	P3	RPFX0198	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB000503	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CB2CB00021	AC CORD	1	PN
⚠	A2	K2CQ2CA00007	AC CORD	1	PH
⚠	A3	RQTX1092-1M	O/I BOOK (Sp/En)	1	PN
⚠	A3	RQTX1093-1M	O/I BOOK (Sp)	1	PH
	A4	N1DYYYY00010	AM LOOP ANTENNA	1	
	A5	RSAX0002	FM INDOOR ANTENNA	1	
	A6	K2DAYYY00002	AC PLUG ADAPTOR	1	PH

21.2. Electrical 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".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	REP4557A	TUNER P.C.B.	1	(RTL)
	PCB2	REPX0739A	CD SERVO P.C.B.	1	(RTL)
⚠	PCB3	REPX0809D	SMPS P.C.B.	1	(RTL) PN
⚠	PCB3	REPX0809G	SMPS P.C.B.	1	(RTL) PH
⚠	PCB4	REPX0809G	VOLTAGE SELECTOR P.C.B.	1	(RTL) PH
	PCB5	REPX0815BA	MAIN P.C.B.	1	(RTL) PN
	PCB5	REPX0815CA	MAIN P.C.B.	1	(RTL) PH
	PCB6	REPX0815BB	PANEL P.C.B.	1	(RTL) PN
	PCB6	REPX0815CB	PANEL P.C.B.	1	(RTL) PH
	PCB7	REPX0815BC	REMOTE SENSOR P.C.B.	1	(RTL) PN
	PCB7	REPX0815CC	REMOTE SENSOR P.C.B.	1	(RTL) PH
	PCB8	REPX0815BD	MUSIC PORT/HEADPHONE P.C.B.	1	(RTL) PN
	PCB8	REPX0815CD	MUSIC PORT/HEADPHONE P.C.B.	1	(RTL) PH
	PCB9	REPX0815BB	CD OPEN BUTTON P.C.B.	1	(RTL) PN
	PCB9	REPX0815CB	CD OPEN BUTTON P.C.B.	1	(RTL) PH
	PCB10	REPX0822A	D-AMP P.C.B.	1	(RTL)
	PCB11	REPX0823B	JUPITER P.C.B.	1	
	PCB12	REPX0815BF	MIC P.C.B.	1	(RTL) PN
	PCB12	REPX0815CF	MIC P.C.B.	1	(RTL) PH
			INTEGRATED CIRCUITS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC52	VUEALLPT031	IC	1	
	IC503	C0DBZHE00026	IC	1	
	IC551	C0FBAK000026	IC	1	
	IC552	C0FBBY000027	IC	1	
	IC701	C3FBMG000041	IC	1	
	IC751	C3ABQG000097	IC	1	
	IC760	C3FBXY000016	IC	1	
	IC801	MN2WS0042NA	IC	1	
	IC802	C0DBZYY00293	IC	1	
	IC2000	C1AB00003130	IC	1	
	IC2001	C1AB00003256	IC	1	
	IC2002	C0ABBB000230	IC	1	
	IC2003	RFKWMAKX70PN	IC	1	
	IC2004	C0ABBB000230	IC	1	
	IC2005	C0AABB000125	IC	1	
	IC2007	C3EBFY000006	IC	1	
	IC2010	C0CAAKG00046	IC	1	
	IC2011	C0DAAYG00001	IC	1	
	IC5000	C1BA00000497	IC	1	
	IC5200	C1BA00000497	IC	1	
	IC5400	C1BA00000497	IC	1	
	IC5500	C0JBAB000902	IC	1	
	IC5701	C5HACYY00004	IC	1	PN
	IC5701	C5HACYY00005	IC	1	PH
	IC5799	MIP2F20MSSCF	IC	1	
	IC5801	C0DABFC00002	IC	1	
	IC5899	C0DAEMZ00001	IC	1	
	IC6000	C0HBB0000057	IC	1	
	IC7001	MN6627553PA	IC	1	
	IC7002	BA5948FPE2	IC	1	
			TRANSISTORS		
	Q801	B1GBCFGN0016	TRANSISTOR	1	
	Q2000	B1ABCF000176	TRANSISTOR	1	
	Q2001	B1ABCF000176	TRANSISTOR	1	
	Q2002	B1ABCF000176	TRANSISTOR	1	
	Q2003	B1ABCF000176	TRANSISTOR	1	
	Q2004	B1GDCFJJ0047	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q2005	B1GDCFJJ0047	TRANSISTOR	1	
	Q2006	B1GDCFJJ0047	TRANSISTOR	1	
	Q2007	B1ABCF000176	TRANSISTOR	1	
	Q2008	B1ABCF000176	TRANSISTOR	1	
	Q2009	B1ABCF000176	TRANSISTOR	1	
	Q2010	B1ABCF000176	TRANSISTOR	1	
	Q2011	B1GBCFLL0037	TRANSISTOR	1	
	Q2012	B1GFGCAA0001	TRANSISTOR	1	
	Q2013	B1GBCFLL0037	TRANSISTOR	1	
	Q2014	B1ACKD000006	TRANSISTOR	1	
	Q2015	B1ABCF000176	TRANSISTOR	1	
	Q2016	B1ABCF000176	TRANSISTOR	1	
	Q2017	B1GBCFJJ0051	TRANSISTOR	1	
	Q2018	B1ABEB000002	TRANSISTOR	1	
	Q2021	B1BACD000018	TRANSISTOR	1	
	Q2022	B1AAJC000019	TRANSISTOR	1	
	Q2025	B1ADCE000012	TRANSISTOR	1	
	Q2027	B1ACKD000006	TRANSISTOR	1	
	Q2029	B1ABCF000176	TRANSISTOR	1	
	Q2033	B1ABCF000176	TRANSISTOR	1	
	Q2034	B1ABCF000176	TRANSISTOR	1	
	Q2035	B1ABCF000176	TRANSISTOR	1	
	Q2036	B1GFGCAA0001	TRANSISTOR	1	
	Q5101	B1ABCF000176	TRANSISTOR	1	
	Q5102	B1ABCF000176	TRANSISTOR	1	
	Q5601	B1ABCF000176	TRANSISTOR	1	
	Q5603	B1ADCE000012	TRANSISTOR	1	
	Q5604	B1ABCF000176	TRANSISTOR	1	
	Q5720	B1BABG000007	TRANSISTOR	1	
	Q5721	B1ADCF000001	TRANSISTOR	1	
	Q5722	B1ABCF000176	TRANSISTOR	1	
	Q5803	B1BABG000007	TRANSISTOR	1	
	Q5860	B1ADCF000001	TRANSISTOR	1	
	Q5861	B1ABCF000176	TRANSISTOR	1	
	Q5862	B1GBCFJJ0051	TRANSISTOR	1	
	Q5898	B1ABCF000176	TRANSISTOR	1	
	Q6000	B1GBCFJN0033	TRANSISTOR	1	
	Q6001	B1GBCFJN0033	TRANSISTOR	1	
	Q6002	B1GBCFJN0033	TRANSISTOR	1	
	Q6003	B1GBCFJN0033	TRANSISTOR	1	
	Q6005	B1BABK000001	TRANSISTOR	1	
	Q7601	B1ADCF000001	TRANSISTOR	1	
	QR2002	B1GDCFGA0018	TRANSISTOR	1	
	QR2003	B1GBCFJJ0051	TRANSISTOR	1	
	QR2004	B1GBCFJJ0051	TRANSISTOR	1	
	QR2005	B1GBCFJJ0051	TRANSISTOR	1	
	QR5801	B1GBCFJN0038	TRANSISTOR	1	
	QR5802	B1GDCFGA0018	TRANSISTOR	1	
	QR5810	B1GBCFLL0037	TRANSISTOR	1	
			DIODES		
	D801	B0JCCD000002	DIODE	1	
	D802	B0JCMD000022	DIODE	1	
	D803	B3AAB0000322	DIODE	1	
	D804	B0JCMD000022	DIODE	1	
	D2000	B0ADCC000002	DIODE	1	
	D2001	B0ACCK000012	DIODE	1	
	D2002	B0ACCK000012	DIODE	1	
	D2003	B0ACCK000012	DIODE	1	
	D2005	B0ACCK000012	DIODE	1	
	D2006	B0ACCK000012	DIODE	1	
	D2008	B0ACCK000012	DIODE	1	
	D2014	B0JAME000114	DIODE	1	
	D2015	B0ADCJ000020	DIODE	1	
	D2016	B0EAKM000117	DIODE	1	
	D2017	B0ACCK000005	DIODE	1	
	D2019	B0BC01000014	DIODE	1	
	D2020	B0EAKM000117	DIODE	1	
	D2021	B0ACCK000012	DIODE	1	
	D2022	B0EAKM000117	DIODE	1	
	D2023	B0BC4R3A0266	DIODE	1	
	D2029	B0ACCK000012	DIODE	1	
	D2030	B0EAKM000117	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D2031	B0EAKM000117	DIODE	1	
	D2032	B0EAKM000117	DIODE	1	
	D2033	B0EAKM000117	DIODE	1	
	D5001	B0HCSP000001	DIODE	1	
	D5002	B0HCSP000001	DIODE	1	
	D5003	B0HCSP000001	DIODE	1	
	D5004	B0HCSP000001	DIODE	1	
	D5201	B0HCSP000001	DIODE	1	
	D5202	B0HCSP000001	DIODE	1	
	D5203	B0HCSP000001	DIODE	1	
	D5204	B0HCSP000001	DIODE	1	
	D5401	B0HCSP000001	DIODE	1	
	D5402	B0HCSP000001	DIODE	1	
	D5403	B0HCSP000001	DIODE	1	
	D5404	B0HCSP000001	DIODE	1	
	D5501	MA2J1110GL	DIODE	1	
	D5502	MA2J1110GL	DIODE	1	
	D5503	B0BC5R1A0266	DIODE	1	
	D5701	B0FBAR000043	DIODE	1	
	D5702	B0ZAZ0000052	DIODE	1	
	D5721	B0BC010A0007	DIODE	1	PH
	D5721	B0BC018A0267	DIODE	1	PN
	D5722	B0BC019A0007	DIODE	1	
	D5723	B0ACCK000012	DIODE	1	
	D5724	B0ACCK000012	DIODE	1	
	D5725	B0BC6R100010	DIODE	1	
	D5726	B0EAKM000117	DIODE	1	
	D5727	B0ACCK000012	DIODE	1	
	D5728	B0ACCK000012	DIODE	1	
	D5729	B0EAMM000057	DIODE	1	
	D5730	B0ECET000002	DIODE	1	
	D5731	B0EAMM000057	DIODE	1	
	D5732	B0BC035A0007	DIODE	1	
	D5793	B0HAMP000094	DIODE	1	PH
	D5795	B0BC9R000008	DIODE	1	
	D5798	B0EAMM000057	DIODE	1	
	D5801	B0ABSM000008	DIODE	1	
	D5802	B0ABSM000008	DIODE	1	
	D5803	B0HFRJ000012	DIODE	1	
	D5804	B0ACCK000012	DIODE	1	
	D5896	B0EAMM000057	DIODE	1	
	D6002	B3AEA0000131	DIODE	1	
	D6003	B3AEA0000131	DIODE	1	
	D6006	B3AEA0000131	DIODE	1	
	D6007	B3AEA0000131	DIODE	1	
	D6010	B3AEA0000131	DIODE	1	
	D6011	B3AEA0000131	DIODE	1	
	D6014	B3AEA0000131	DIODE	1	
	D6015	B3AEA0000131	DIODE	1	
	D6019	B3AEA0000127	DIODE	1	
	D6023	B0BC035A0007	DIODE	1	
	D6025	B0EAMM000057	DIODE	1	
	D6026	B0JAME000114	DIODE	1	
	D6027	B0EAMM000057	DIODE	1	
	D6028	MAZ8240GHL	DIODE	1	
	D6029	B0BC2R4A0006	DIODE	1	
	D6030	B3AEA0000127	DIODE	1	
	D6032	B3AEA0000127	DIODE	1	
	D7650	MAZ8056GML	DIODE	1	
	DZ2000	B0JCPD000025	DIODE	1	
⚠	DZ5701	ERZV10V511CS	ZNR	1	
			VARISTOR		
	VA51	EZAEG2A50AX	ESD SUPRESSOR	1	
			VARIABLE RESISTORS		
	VR2000	EVUF2AF15B14	MIC JOG	1	
	VR6000	K9AA012Y0004	TRACK JOG	1	
	VR6002	EVEKE2F3524B	VOLUME JOG	1	
			SWITCHES		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	S5701	K0ABCA000007	SW VOLTAGE SELECTOR	1	PH
	S6000	EVQ21405RJ	SW USB PLAY/ PAUSE	1	
	S6001	EVQ21405RJ	SW MUSIC PORT/ AUX	1	
	S6002	EVQ21405RJ	SW MEMORY PLAY/ PAUSE	1	
	S6003	EVQ21405RJ	SW POWER	1	
	S6004	EVQ21405RJ	SW STOP	1	
	S6005	EVQ21405RJ	SW MEMORY REC/ PAUSE	1	
	S6006	EVQ21405RJ	SW USB REC/PAUSE	1	
	S6007	EVQ21405RJ	SW SUPER WOOFER	1	
	S6008	EVQ21405RJ	SW MANUAL EQ	1	
	S6009	EVQ21405RJ	SW FORWARD	1	
	S6010	EVQ21405RJ	SW REWIND	1	
	S6011	EVQ21405RJ	SW ABLUM+	1	
	S6012	EVQ21405RJ	SW ABLUM-	1	
	S6013	EVQ21405RJ	SW CD PLAY/PAUSE	1	
	S6014	EVQ21405RJ	SW FM/AM	1	
	S6015	EVQ21405RJ	SW D.BASS	1	
	S6016	EVQ21405RJ	SW CD OPEN/CLOSE	1	
	S7201	RSH1A045-1A	SW RESET	1	
	S7202	RSH1A045-1A	SW CD OPEN	1	
			CONNECTORS		
	CN51	K1MN09AA0003	9P CONNECTOR	1	
	CN503	K1FY104B0011	USB CONNECTOR	1	
	CN601	K1MY30BA0046	30P CONNECTOR	1	
	CN2000	K1MN30BA0005	30P CONNECTOR	1	
	CN2001	K1MN09AA0003	9P CONNECTOR	1	
	CN2002	K1MN25AA0004	25P CONNECTOR	1	
	CN2006	K1MY06AA0124	6P CONNECTOR	1	
	CN2008	K1MN30AA0004	30P CONNECTOR	1	
	CN2010	K1KA02AA0186	2P CONNECTOR	1	
	CN2011	K1MN17AA0004	17P CONNECTOR	1	
	CN2013	K1KA02BA0125	2P CONNECTOR	1	
	CN5050	K1MN17AA0004	17P CONNECTOR	1	
	CN5801	K1KA06AA0180	6P CONNECTOR	1	
	CN5802	K1KA11AA0194	11P CONNECTOR	1	
	CN6000	K1MN30AA0004	30P CONNECTOR	1	
	CN6001	K1KA04AA0031	4P CONNECTOR	1	
	CN6002	K1KA05BA0061	5P CONNECTOR	1	
	CN6004	K1KB04A00046	4P CONNECTOR	1	
	CN6005	K1KA08BA0061	8P CONNECTOR	1	
	CN7001	K1MN16B00154	16P CONNECTOR	1	
	CN7002	K1MN25B00019	25P CONNECTOR	1	
			COILS AND INDUCTORS		
	L51	G1CR18JA0020	INDUCTOR	1	
	L52	G2A380Y00001	COIL	1	
	L551	J0JHC0000045	INDUCTOR	1	
	L552	J0JHC0000045	INDUCTOR	1	
	L553	J0JHC0000045	INDUCTOR	1	
	L804	J0JHC0000045	INDUCTOR	1	
	L805	J0JHC0000045	INDUCTOR	1	
	L2001	J0JBC0000019	INDUCTOR	1	
	L2007	G0A101ZA0028	CHOKE COIL	1	
	L5000	G0A150L00003	CHOKE COIL	1	
	L5001	G0B9R5K00005	LINE FILTER	1	
	L5002	G0B9R5K00006	LINE FILTER	1	
	L5200	G0A150L00003	CHOKE COIL	1	
	L5201	G0B9R5K00005	LINE FILTER	1	
	L5400	G0A150L00003	CHOKE COIL	1	
	L5401	G0B9R5K00005	LINE FILTER	1	
	L5402	G0B9R5K00006	LINE FILTER	1	
	L5500	J0JKB0000020	INDUCTOR	1	
	L5501	J0JKB0000020	INDUCTOR	1	
⚠	L5703	G0B612H00002	LINE FILTER	1	PN
⚠	L5703	G0B932H00002	LINE FILTER	1	PH
	L5704	J0JBC0000019	INDUCTOR	1	
	L6001	J0JBC0000019	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L6801	J0JBC0000019	INDUCTOR	1	
	L6802	J0JBC0000019	INDUCTOR	1	
	L6811	J0JBC0000019	INDUCTOR	1	
	L6812	J0JBC0000019	INDUCTOR	1	
	L6851	J0JBC0000019	INDUCTOR	1	
	L6863	J0JBC0000019	INDUCTOR	1	
	LB51	J0JBC0000032	INDUCTOR	1	
	LB503	J0JBC0000118	INDUCTOR	1	
	LB504	J0JBC0000118	INDUCTOR	1	
	LB601	J0JDC0000104	INDUCTOR	1	
	LB603	J0JDC0000104	INDUCTOR	1	
	LB605	J0JDC0000104	INDUCTOR	1	
	LB614	J0JHC0000045	INDUCTOR	1	
	LB618	J0JDC0000104	INDUCTOR	1	
	LB620	J0JDC0000104	INDUCTOR	1	
	LB621	J0JDC0000104	INDUCTOR	1	
	LB623	J0JHC0000045	INDUCTOR	1	
	LB624	J0JDC0000104	INDUCTOR	1	
	LB626	J0JDC0000104	INDUCTOR	1	
	LB628	J0JDC0000104	INDUCTOR	1	
	LB630	J0JDC0000104	INDUCTOR	1	
	LB631	J0JDC0000104	INDUCTOR	1	
	LB632	J0JDC0000104	INDUCTOR	1	
	LB633	J0JDC0000104	INDUCTOR	1	
	LB634	J0JDC0000104	INDUCTOR	1	
	LB635	J0JDC0000104	INDUCTOR	1	
	LB636	J0JDC0000104	INDUCTOR	1	
	LB637	J0JDC0000104	INDUCTOR	1	
	LB638	J0JDC0000104	INDUCTOR	1	
	LB639	J0JDC0000104	INDUCTOR	1	
	LB640	J0JDC0000104	INDUCTOR	1	
	LB641	J0JDC0000104	INDUCTOR	1	
	LB801	J0JCC0000407	INDUCTOR	1	
	LB802	J0JCC0000407	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	ETS42AD4VGAD	TRANSFORMER	1	PN
⚠	T5701	G4DYZ0000049	TRANSFORMER	1	PH
⚠	T5751	ETS19AB2E6AG	SUB TRANSFORMER	1	
⚠	T6000	G4DYA0000214	SWITCHING TRANSFORMER	1	
			PHOTO COUPLERS		
⚠	PC5701	B3PBA0000402	PHOTO COUPLER	1	
⚠	PC5702	B3PBA0000402	PHOTO COUPLER	1	
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	1	
⚠	PC5799	B3PBA0000402	PHOTO COUPLER	1	
			EARTH PLATES		
	ZJ2001	K9ZZ00001279	EARTH PLATE	1	
	ZJ2002	K9ZZ00001279	EARTH PLATE	1	
	ZJ5400	K4CZ01000027	TERMINAL	1	
	ZJ5410	K4CZ01000027	TERMINAL	1	
			OSCILLATORS		
	X51	H0A327200097	CRYSTAL OSCILLATOR	1	
	X801	H0J169500037	CRYSTAL OSCILLATOR	1	
	X802	H0J120500067	CRYSTAL OSCILLATOR	1	
	X2000	H0A327200115	CRYSTAL OSCILLATOR	1	
	X2001	H2B100500004	CRYSTAL OSCILLATOR	1	
	X5500	H2A6023A0011	CRYSTAL OSCILLATOR	1	
	X5501	H2A7003A0011	CRYSTAL OSCILLATOR	1	
	X7201	H0H169500013	CRYSTAL OSCILLATOR	1	
			FL DISPLAY		
	FL6000	A2BB00000177	LCD DISPLAY	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			COMPONENT COMBI-NATION		
	IR6000	B3RAB0000084	REMOTE CONTROL SENSOR	1	
			FUSES		
⚠	F1	K5D802APA008	FUSE	1	PN
⚠	F1	K5D802BNA005	FUSE	1	PH
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			THERMISTORS		
⚠	TH5702	D4CAA2R20001	THERMISTOR	1	
⚠	TH5860	D4CC11040013	THERMISTOR	1	
			JACKS		
	JK51	K4ZZ02000103	JK FM ANT	1	
	JK52	K4AC02B00042	JK AM ANT	1	
	JK2000	K2HA204B0153	JK AUX	1	
	JK2001	K2HC103A0031	JK MIC	1	
	JK5001	K4AL10B00001	JK SPEAKER	1	
	JK6800	K2HC103A0031	JK HEADPHONE	1	
	JK6810	K2HC1YYA0002	JK MUSIC PORT	1	
⚠	P5701	K2AA2B000011	AC INLET	1	PH
⚠	P5701	K2AB2B000007	AC INLET	1	PN
			CHIP JUMPERS		
	K2	D0GBR00JA008	0 1/16W	1	
	K4	D0GBR00JA008	0 1/16W	1	PN
	K5	D0GBR00JA008	0 1/16W	1	PH
	K6	D0GBR00JA008	0 1/16W	1	PN
	K7	D0GBR00JA008	0 1/16W	1	PH
	K5001	D0GDR00JA017	0 1/10W	1	
	K5202	D0GBR00JA008	0 1/16W	1	
	K5255	D0GBR00JA008	0 1/16W	1	
	K5302	D0GBR00JA008	0 1/16W	1	
	K5405	D0GDR00JA017	0 1/10W	1	
	K5502	D0GBR00JA008	0 1/16W	1	
	L501	D0GDR00JA017	0 1/10W	1	
	LB501	ERJ2GE0R00X	0 1/16W	1	
	LB502	ERJ2GE0R00X	0 1/16W	1	
	LB602	D0GBR00JA008	0 1/16W	1	
	LB616	D0GBR00JA008	0 1/16W	1	
	LB622	ERJ2GE0R00X	0 1/16W	1	
	LB625	D0GBR00JA008	0 1/16W	1	
	LB629	D0GBR00JA008	0 1/16W	1	
	L2210	D0GBR00JA008	0 1/16W	1	
	L2211	D0GBR00JA008	0 1/16W	1	
	L2212	D0GBR00JA008	0 1/16W	1	
	L2250	D0GBR00JA008	0 1/16W	1	
	L2251	D0GBR00JA008	0 1/16W	1	
	L2252	D0GBR00JA008	0 1/16W	1	
	L2253	D0GBR00JA008	0 1/16W	1	
	L2254	D0GBR00JA008	0 1/16W	1	
	W2301	D0GBR00JA008	0 1/16W	1	
	W2302	D0GBR00JA008	0 1/16W	1	
	W2303	D0GBR00JA008	0 1/16W	1	
	W2304	D0GBR00JA008	0 1/16W	1	
	W2305	D0GBR00JA008	0 1/16W	1	
	W2306	D0GBR00JA008	0 1/16W	1	
	W2307	D0GBR00JA008	0 1/16W	1	
	W2308	D0GBR00JA008	0 1/16W	1	
	W2309	D0GDR00JA017	0 1/10W	1	
	W2310	D0GDR00JA017	0 1/10W	1	
	W2311	D0GBR00JA008	0 1/16W	1	
	W2313	D0GBR00JA008	0 1/16W	1	
	W2315	D0GBR00JA008	0 1/16W	1	
	W2316	D0GBR00JA008	0 1/16W	1	
	W2317	D0GDR00JA017	0 1/10W	1	
	W2318	D0GBR00JA008	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W2319	D0GBR00JA008	0 1/16W	1	
	W2320	D0GBR00JA008	0 1/16W	1	
	W2322	D0GBR00JA008	0 1/16W	1	
	W2323	D0GBR00JA008	0 1/16W	1	
	W2324	D0GBR00JA008	0 1/16W	1	
	W2325	D0GDR00JA017	0 1/10W	1	
	W2326	D0GDR00JA017	0 1/10W	1	
	W2327	D0GDR00JA017	0 1/10W	1	
	W2328	D0GDR00JA017	0 1/10W	1	
	W2329	D0GDR00JA017	0 1/10W	1	
	W2330	D0GBR00JA008	0 1/16W	1	
	W2335	D0GBR00JA008	0 1/16W	1	
	W2337	D0GBR00JA008	0 1/16W	1	
	W2343	D0GDR00JA017	0 1/10W	1	
	W2345	D0GBR00JA008	0 1/16W	1	
	W2347	D0GDR00JA017	0 1/10W	1	
	W2348	D0GBR00JA008	0 1/16W	1	
	W2349	D0GDR00JA017	0 1/10W	1	
	W5007	D0GDR00JA017	0 1/10W	1	
	W5032	D0GFR00JA017	0 1/8W	1	
	W5036	D0GBR00JA008	0 1/16W	1	
	W5059	D0GDR00JA017	0 1/10W	1	
	W5071	D0GDR00JA017	0 1/10W	1	
	W5744	D0GBR00JA008	0 1/16W	1	
	W5780	D0GDR00JA017	0 1/10W	1	
	W5781	D0GBR00JA008	0 1/16W	1	
	W5782	D0GBR00JA008	0 1/16W	1	
	W5783	D0GBR00JA008	0 1/16W	1	
	W5784	D0GBR00JA008	0 1/16W	1	
	W5785	D0GBR00JA008	0 1/16W	1	
	W5786	D0GDR00JA017	0 1/10W	1	
	W6101	D0GDR00JA017	0 1/10W	1	
	W6102	D0GDR00JA017	0 1/10W	1	
	W6103	D0GDR00JA017	0 1/10W	1	
	W6113	D0GBR00JA008	0 1/16W	1	
	W6118	D0GBR00JA008	0 1/16W	1	
	W6119	D0GDR00JA017	0 1/10W	1	
	W6120	D0GBR00JA008	0 1/16W	1	
	W6121	D0GBR00JA008	0 1/16W	1	
	W6122	D0GBR00JA008	0 1/16W	1	
	W6123	D0GBR00JA008	0 1/16W	1	
	W6124	D0GBR00JA008	0 1/16W	1	
	W6125	D0GBR00JA008	0 1/16W	1	
	W6126	D0GBR00JA008	0 1/16W	1	
	W6127	D0GBR00JA008	0 1/16W	1	
	W6128	D0GBR00JA008	0 1/16W	1	
	W6129	D0GBR00JA008	0 1/16W	1	
	W6139	D0GBR00JA008	0 1/16W	1	
	W7001	D0GDR00JA017	0 1/10W	1	
	W7002	D0GBR00JA008	0 1/16W	1	
	W7003	D0GBR00JA008	0 1/16W	1	
	W7004	D0GBR00JA008	0 1/16W	1	
	W7005	D0GBR00JA008	0 1/16W	1	
	W7006	D0GBR00JA008	0 1/16W	1	
	W7007	D0GDR00JA017	0 1/10W	1	
	W7008	D0GBR00JA008	0 1/16W	1	
	W7009	D0GBR00JA008	0 1/16W	1	
	W7010	D0GBR00JA008	0 1/16W	1	
	W7011	D0GBR00JA008	0 1/16W	1	
	W7012	D0GBR00JA008	0 1/16W	1	
	W7013	D0GBR00JA008	0 1/16W	1	
	W7014	D0GBR00JA008	0 1/16W	1	
	W7016	D0GBR00JA008	0 1/16W	1	
	W7017	D0GBR00JA008	0 1/16W	1	
	W7018	D0GBR00JA008	0 1/16W	1	
	W7019	D0GBR00JA008	0 1/16W	1	
	W7020	D0GBR00JA008	0 1/16W	1	
	W7021	D0GBR00JA008	0 1/16W	1	
	W7023	D0GBR00JA008	0 1/16W	1	
	W7024	D0GBR00JA008	0 1/16W	1	
	W7025	D0GDR00JA017	0 1/10W	1	
	W7026	D0GDR00JA017	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			RESISTORS		
	R51	D0GB102JA008	1K 1/16W	1	
	R52	D0GB102JA008	1K 1/16W	1	
	R53	D0GA472JA023	4.7K 1/16W	1	
	R54	D0GA472JA023	4.7K 1/16W	1	
	R55	D0GA221JA023	220 1/16W	1	
	R56	D0GB221JA007	220 1/10W	1	
	R57	D0GA102JA023	1K 1/16W	1	
	R59	D0GB222JA008	2.2K 1/16W	1	
	R61	D0GB473JA008	47K 1/16W	1	
	R62	D0GB473JA008	47K 1/16W	1	
	R64	D0GBR00JA008	0 1/16W	1	
	R517	ERJ2GE0R00X	0 1/16W	1	
	R518	ERJ2GE0R00X	0 1/16W	1	
	R519	D0GA105JA023	1M 1/16W	1	
	R520	D0GA105JA023	1M 1/16W	1	
	R525	D0GA100JA023	10 1/16W	1	
	R526	D0GA100JA023	10 1/16W	1	
	R527	D0GA103JA023	10K 1/16W	1	
	R554	D0GA104JA023	100K 1/16W	1	
	R555	D0GA221JA023	220 1/16W	1	
	R556	D0GA221JA023	220 1/16W	1	
	R557	D0GA223JA023	22K 1/16W	1	
	R558	D0GA223JA023	22K 1/16W	1	
	R559	D0GA104JA023	100K 1/16W	1	
	R560	D0GA473JA023	47K 1/16W	1	
	R561	D0GA473JA023	47K 1/16W	1	
	R602	ERJ2GE0R00X	0 1/16W	1	
	R653	D0GA473JA023	47K 1/16W	1	
	R654	D0GA473JA023	47K 1/16W	1	
	R655	D0GA473JA023	47K 1/16W	1	
	R701	D0GA473JA023	47K 1/16W	1	
	R704	D0GA473JA023	47K 1/16W	1	
	R760	D0GA220JA023	22 1/16W	1	
	R761	D0GA473JA023	47K 1/16W	1	
	R764	D0GA100JA023	10 1/16W	1	
	R765	ERJ2GE0R00X	0 1/16W	1	
	R766	ERJ2GE0R00X	0 1/16W	1	
	R767	D0GA100JA023	10 1/16W	1	
	R801	D0GA220JA023	22 1/16W	1	
	R802	D0GA100JA023	10 1/16W	1	
	R803	D0GA100JA023	10 1/16W	1	
	R804	D0GA100JA023	10 1/16W	1	
	R806	D0GA100JA023	10 1/16W	1	
	R807	D0GA331JA023	330 1/16W	1	
	R809	D0GA101JA023	100 1/16W	1	
	R810	D0GA100JA023	10 1/16W	1	
	R811	D0GA100JA023	10 1/16W	1	
	R812	D0GA682JA023	6.8K 1/16W	1	
	R813	D0GA473JA023	47K 1/16W	1	
	R814	D0GA473JA023	47K 1/16W	1	
	R816	D0GA101JA023	100 1/16W	1	
	R817	D0GA100JA023	10 1/16W	1	
	R818	D0GA473JA023	47K 1/16W	1	
	R821	D0GA473JA023	47K 1/16W	1	
	R822	D0GA473JA023	47K 1/16W	1	
	R824	D0GA473JA023	47K 1/16W	1	
	R825	D0GA100JA023	10 1/16W	1	
	R827	ERJ2GE0R00X	0 1/16W	1	
	R828	ERJ2GE0R00X	0 1/16W	1	
	R829	ERJ2GE0R00X	0 1/16W	1	
	R830	D0GA100JA023	10 1/16W	1	
	R833	D0GA102JA023	1K 1/16W	1	
	R835	D0GA331JA023	330 1/16W	1	
	R836	D0GA100JA023	10 1/16W	1	
	R843	D0GA220JA023	22 1/16W	1	
	R844	D0GA220JA023	22 1/16W	1	
	R849	D0GA473JA023	47K 1/16W	1	
	R850	D0GA473JA023	47K 1/16W	1	
	R855	D0GA100JA023	10 1/16W	1	
	R856	D0GA100JA023	10 1/16W	1	
	R857	D0GA100JA023	10 1/16W	1	
	R858	D0GA101JA023	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R861	D0GA220JA023	22 1/16W	1	
	R862	D0GA220JA023	22 1/16W	1	
	R863	D0GA220JA023	22 1/16W	1	
	R870	D0GA100JA023	10 1/16W	1	
	R871	D0GA100JA023	10 1/16W	1	
	R872	D0GA100JA023	10 1/16W	1	
	R873	ERJ2GE0R00X	0 1/16W	1	
	R875	D0GA473JA023	47K 1/16W	1	
	R876	D0GA473JA023	47K 1/16W	1	
	R877	D0GA103JA023	10K 1/16W	1	
	R878	D1BD5901A030	5.9K 1/10W	1	
	R879	D0GA105JA023	1M 1/16W	1	
	R880	D0GB471JA008	470 1/16W	1	
	R881	D0GA473JA023	47K 1/16W	1	
	R888	ERJ2GE0R00X	0 1/16W	1	
	R892	ERJ2GE0R00X	0 1/16W	1	
	R893	ERJ2GE0R00X	0 1/16W	1	
	R894	ERJ2GE0R00X	0 1/16W	1	
	R895	ERJ2GE0R00X	0 1/16W	1	
	R898	D0GA103JA023	10K 1/16W	1	
	R2000	D0GB101JA008	100 1/16W	1	
	R2001	D0AF220JA039	22 1/2W	1	
	R2002	D0GB393JA008	39K 1/16W	1	
	R2003	D0GB393JA008	39K 1/16W	1	
	R2004	D0GB472JA008	4.7K 1/16W	1	
	R2005	D0GB104JA008	100K 1/16W	1	
	R2006	D0GB153JA008	15K 1/16W	1	
	R2007	D0GB332JA008	3.3K 1/16W	1	
	R2008	D0GB332JA008	3.3K 1/16W	1	
	R2009	D0GB332JA008	3.3K 1/16W	1	
	R2010	D0GB331JA008	330 1/16W	1	
	R2013	D0GB332JA008	3.3K 1/16W	1	
	R2014	D0GB332JA008	3.3K 1/16W	1	
	R2015	D0GB561JA008	560 1/16W	1	
	R2016	D0GB681JA008	680 1/16W	1	
	R2017	D0GB222JA008	2.2K 1/16W	1	
	R2018	D0GB222JA008	2.2K 1/16W	1	
	R2021	D0GBR00JA008	0 1/16W	1	
	R2022	D0GBR00JA008	0 1/16W	1	
	R2023	D0GB332JA008	3.3K 1/16W	1	
	R2024	D0GB332JA008	3.3K 1/16W	1	
	R2025	D0GB821JA008	820 1/16W	1	
	R2026	D0GB821JA008	820 1/16W	1	
	R2027	D0GB332JA008	3.3K 1/16W	1	
	R2028	D0GB332JA008	3.3K 1/16W	1	
	R2029	D0GB102JA008	1K 1/16W	1	
	R2030	D0GB473JA008	47K 1/16W	1	
	R2031	D0GB563JA008	56K 1/16W	1	
	R2032	D0GBR00JA008	0 1/16W	1	
	R2033	D0GB392JA008	3.9K 1/16W	1	
	R2034	D0GB392JA008	3.9K 1/16W	1	
	R2035	D0GB681JA008	680 1/16W	1	
	R2037	D0GB473JA008	47K 1/16W	1	
	R2038	D0GB473JA008	47K 1/16W	1	
	R2039	D0GB101JA008	100 1/16W	1	
	R2040	D0GB392JA008	3.9K 1/16W	1	
	R2041	D0GB683JA008	68K 1/16W	1	
	R2042	D0GB683JA008	68K 1/16W	1	
	R2043	D0GB334JA008	330K 1/16W	1	
	R2044	D0GB823JA008	82K 1/16W	1	
	R2045	D0GB473JA008	47K 1/16W	1	
	R2046	D0GB473JA008	47K 1/16W	1	
	R2049	D0GB223JA008	22K 1/16W	1	
	R2050	D0GB223JA008	22K 1/16W	1	
	R2051	D0GB471JA008	470 1/16W	1	
	R2052	D0GB471JA008	470 1/16W	1	
	R2053	D0GB101JA008	100 1/16W	1	
	R2054	D0GB223JA008	22K 1/16W	1	
	R2055	D0GBR00JA008	0 1/16W	1	
	R2057	D0GB223JA008	22K 1/16W	1	
	R2058	D0GB223JA008	22K 1/16W	1	
	R2059	D0GB103JA008	10K 1/16W	1	
	R2060	D0GB103JA008	10K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R2061	D0GB223JA008	22K	1/16W	1	
	R2062	D0GB472JA008	4.7K	1/16W	1	
	R2063	D0GB472JA008	4.7K	1/16W	1	
	R2064	D0GB223JA008	22K	1/16W	1	
	R2065	D0GB223JA008	22K	1/16W	1	
	R2066	D0GB334JA008	330K	1/16W	1	
	R2067	D0GB101JA008	100	1/16W	1	
	R2068	D0GB102JA008	1K	1/16W	1	
	R2069	D0GB101JA008	100	1/16W	1	
	R2070	D0GB101JA008	100	1/16W	1	
	R2071	D0GB101JA008	100	1/16W	1	
	R2074	D0GB102JA008	1K	1/16W	1	
	R2075	D0GB472JA008	4.7K	1/16W	1	
	R2076	D0GB101JA008	100	1/16W	1	
	R2077	D0GB101JA008	100	1/16W	1	
	R2078	D0GB101JA008	100	1/16W	1	
	R2079	D0GB101JA008	100	1/16W	1	
	R2080	D0GB822JA008	8.2K	1/16W	1	
	R2081	D0GB563JA008	56K	1/16W	1	
	R2082	D0GB104JA008	100K	1/16W	1	
	R2084	D0GB221JA007	220	1/10W	1	
	R2085	D0GB221JA007	220	1/10W	1	
	R2086	D0GB223JA008	22K	1/16W	1	PN
	R2086	D0GB393JA008	39K	1/16W	1	PH
	R2087	D0GB103JA008	10K	1/16W	1	
	R2088	D0GB104JA008	100K	1/16W	1	
	R2089	D0GB104JA008	100K	1/16W	1	
	R2091	D0GB103JA008	10K	1/16W	1	
	R2092	D0GB101JA008	100	1/16W	1	
	R2093	D0GB102JA008	1K	1/16W	1	
	R2094	D0GB101JA008	100	1/16W	1	
	R2095	D0GB821JA008	820	1/16W	1	
	R2096	D0GB821JA008	820	1/16W	1	
	R2097	D0GB392JA008	3.9K	1/16W	1	
	R2098	D0GB392JA008	3.9K	1/16W	1	
	R2099	D0GB473JA008	47K	1/16W	1	
	R2101	D0GB473JA008	47K	1/16W	1	
	R2102	D0GB103JA008	10K	1/16W	1	
	R2103	D0GB103JA008	10K	1/16W	1	
	R2104	D0GB103JA008	10K	1/16W	1	
	R2106	D0GB472JA008	4.7K	1/16W	1	
	R2107	D0GB102JA008	1K	1/16W	1	
	R2108	D0GB102JA008	1K	1/16W	1	
	R2109	D0GB102JA008	1K	1/16W	1	
	R2111	D0GBR00JA008	0	1/16W	1	
	R2112	D0GB106JA008	10M	1/16W	1	
	R2113	D0GB473JA008	47K	1/16W	1	
	R2114	D0GB102JA008	1K	1/16W	1	
	R2115	D0GB102JA008	1K	1/16W	1	
	R2116	D0GB101JA008	100	1/16W	1	
	R2117	D0GBR00JA008	0	1/16W	1	
	R2118	D0GB101JA008	100	1/16W	1	
	R2119	D0GB101JA008	100	1/16W	1	
	R2120	D0GB101JA008	100	1/16W	1	
	R2121	D0GB103JA008	10K	1/16W	1	
	R2122	D0GB101JA008	100	1/16W	1	
	R2123	D0GB475JA008	4.7M	1/16W	1	
	R2125	D0GB564JA008	560K	1/16W	1	
	R2126	D0GB473JA008	47K	1/16W	1	
	R2127	D0GB102JA008	1K	1/16W	1	
	R2128	D0GB101JA008	100	1/16W	1	
	R2129	D0GB223JA008	22K	1/16W	1	
	R2130	D0GBR00JA008	0	1/16W	1	
	R2132	D0GB101JA008	100	1/16W	1	
	R2134	D0GB102JA008	1K	1/16W	1	
	R2135	D0GB102JA008	1K	1/16W	1	
	R2136	D0GBR00JA008	0	1/16W	1	
	R2137	D0GB102JA008	1K	1/16W	1	
	R2138	D0GB101JA008	100	1/16W	1	
	R2139	D0GBR00JA008	0	1/16W	1	
	R2140	D0GB562JA008	5.6K	1/16W	1	
	R2141	D0GB562JA008	5.6K	1/16W	1	
	R2142	D0GB104JA008	100K	1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R2143	D0GBR00JA008	0	1/16W	1	
	R2147	D0GB103JA008	10K	1/16W	1	
	R2148	D0GB563JA008	56K	1/16W	1	
	R2149	D0GB153JA008	15K	1/16W	1	
	R2150	D0GB471JA008	470	1/16W	1	
	R2151	D0GB563JA008	56K	1/16W	1	
	R2152	D0GB102JA008	1K	1/16W	1	
	R2153	D0GB183JA008	18K	1/16W	1	
	R2154	D0GB101JA008	100	1/16W	1	
	R2155	D0GB223JA008	22K	1/16W	1	
	R2156	D0GB101JA008	100	1/16W	1	
	R2158	D0GB101JA008	100	1/16W	1	
	R2159	D0GB152JA008	1.5K	1/16W	1	
	R2160	D0GB473JA008	47K	1/16W	1	
	R2161	D0GB101JA008	100	1/16W	1	
	R2162	D0GB152JA008	1.5K	1/16W	1	
	R2164	D0GB473JA008	47K	1/16W	1	
	R2165	D0GB101JA008	100	1/16W	1	
	R2166	D0GB101JA008	100	1/16W	1	
	R2167	D0GB102JA008	1K	1/16W	1	
	R2168	D0GB101JA008	100	1/16W	1	
	R2169	D0GB222JA008	2.2K	1/16W	1	
	R2170	F1H0J1050012	1uF	6.3V	1	
	R2171	D0GB183JA008	18K	1/16W	1	
	R2172	D0GBR00JA008	0	1/16W	1	
	R2173	D0GB183JA008	18K	1/16W	1	
	R2174	D0GB183JA008	18K	1/16W	1	
	R2175	D0GB153JA008	15K	1/16W	1	
	R2176	D0GB103JA008	10K	1/16W	1	
	R2177	D0GB103JA008	10K	1/16W	1	
	R2178	D0GB103JA008	10K	1/16W	1	
	R2179	D0GB153JA008	15K	1/16W	1	
	R2180	D0GB103JA008	10K	1/16W	1	
	R2181	D0GB123JA008	12K	1/16W	1	
	R2182	D0GB104JA008	100K	1/16W	1	
	R2183	D0GB183JA008	18K	1/16W	1	
	R2184	D0GBR00JA008	0	1/16W	1	
	R2185	D0GB183JA008	18K	1/16W	1	
	R2186	D0GB180JA008	18	1/16W	1	
	R2187	D0GB180JA008	18	1/16W	1	
	R2188	D0GB221JA007	220	1/10W	1	
	R2189	D0GB473JA008	47K	1/16W	1	
	R2190	D0GB180JA008	18	1/16W	1	
	R2191	D0GB180JA008	18	1/16W	1	
	R2197	D0GB101JA008	100	1/16W	1	
	R2198	D0GB102JA008	1K	1/16W	1	
	R2199	D0GB101JA008	100	1/16W	1	
	R2200	D0GB102JA008	1K	1/16W	1	
	R2202	D0GB180JA008	18	1/16W	1	
	R2203	D0GB180JA008	18	1/16W	1	
	R2205	D0GB180JA008	18	1/16W	1	
	R2206	D0GB180JA008	18	1/16W	1	
	R2207	D0GB472JA008	4.7K	1/16W	1	
	R2208	D0GB561JA008	560	1/16W	1	
	R2210	D0GB561JA008	560	1/16W	1	
	R2214	D0GDR00JA017	0	1/10W	1	
	R2215	D0GB102JA008	1K	1/16W	1	
	R2218	D0GDR00JA017	0	1/10W	1	
	R2221	D0GB474JA008	470K	1/16W	1	
	R2222	D0GB473JA008	47K	1/16W	1	
	R2223	D0GB473JA008	47K	1/16W	1	
	R2224	D0GBR00JA008	0	1/16W	1	
	R2225	D0GBR00JA008	0	1/16W	1	
	R2228	D0GB103JA008	10K	1/16W	1	
	R2231	D0GB103JA008	10K	1/16W	1	
	R2236	D0GB182JA008	1.8K	1/16W	1	
	R2237	D0GB182JA008	1.8K	1/16W	1	
	R2240	D0GB273JA008	27K	1/16W	1	
	R2241	D0GB273JA008	27K	1/16W	1	
	R2243	D0GB103JA008	10K	1/16W	1	
	R2244	D0GB472JA008	4.7K	1/16W	1	
	R2245	D0GB472JA008	4.7K	1/16W	1	
	R2246	D0GB223JA008	22K	1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2247	D0GB223JA008	22K 1/16W	1	
	R2250	D0GBR00JA008	0 1/16W	1	
	R2251	D0GBR00JA008	0 1/16W	1	
	R2252	D0GB153JA008	15K 1/16W	1	
	R2256	D0GB183JA008	18K 1/16W	1	
	R2259	D0GB272JA008	2.7K 1/16W	1	
	R2262	D0GB101JA008	100 1/16W	1	
	R2263	D0GB271JA008	270 1/16W	1	
	R2264	D0GB123JA008	12K 1/16W	1	
	R2265	D0GBR00JA008	0 1/16W	1	
	R2266	D0GBR00JA008	0 1/16W	1	
	R2268	D0GB272JA008	2.7K 1/16W	1	
	R2271	D0GB472JA008	4.7K 1/16W	1	
	R2273	D0GB101JA008	100 1/16W	1	
	R2274	D0GB391JA008	390 1/16W	1	
	R2279	D0GB271JA008	270 1/16W	1	
	R2282	D0GB2R2JA007	2.2 1/10W	1	
	R2283	D0GB2R2JA007	2.2 1/10W	1	
	R2284	D0GB2R2JA007	2.2 1/10W	1	
	R2289	D0GB180JA008	18 1/16W	1	
	R2290	D0GB271JA008	270 1/16W	1	
	R2295	D0GB472JA008	4.7K 1/16W	1	
	R2296	D0GB472JA008	4.7K 1/16W	1	
	R2297	D0GB103JA008	10K 1/16W	1	
	R2298	D0GB103JA008	10K 1/16W	1	
	R2302	D0GB472JA008	4.7K 1/16W	1	
	R2305	D0GD103JA017	10K 1/10W	1	
	R2306	D0HB102ZA002	1K 1/16W	1	
	R2308	ERJ3RBD272V	2.7K 1/16W	1	
	R2311	D0HB152ZA002	1.5K 1/16W	1	
	R2314	D0GB562JA008	5.6K 1/16W	1	
	R2316	D0GB105JA008	1M 1/16W	1	
	R2325	D0GB101JA008	100 1/16W	1	
	R2331	D0GB474JA008	470K 1/16W	1	
	R2332	D0GB103JA008	10K 1/16W	1	
	R2333	D0AF270JA039	27 1/2W	1	
	R2334	D0GB274JA007	270K 1/10W	1	
	R2335	D0GB682JA008	6.8K 1/16W	1	
	R2336	D0GB221JA007	220 1/10W	1	
	R2337	D0GB101JA008	100 1/16W	1	
	R2338	D0GB104JA008	100K 1/16W	1	
	R2339	D0GB823JA008	82K 1/16W	1	
	R2340	D0AF680JA039	68 1/2W	1	
	R2341	D0GB103JA008	10K 1/16W	1	
	R2342	D0GBR00JA008	0 1/16W	1	
	R2343	D0GB472JA008	4.7K 1/16W	1	
	R2344	D0GB103JA008	10K 1/16W	1	
	R2345	D0GB103JA008	10K 1/16W	1	
	R2346	D0GB103JA008	10K 1/16W	1	
	R2347	D0GB122JA008	1.2K 1/16W	1	
	R2349	D0GB103JA008	10K 1/16W	1	
	R2350	D0GB122JA008	1.2K 1/16W	1	
	R2352	D0GB682JA008	6.8K 1/16W	1	
	R2353	D0GB102JA008	1K 1/16W	1	
	R2355	D0GB561JA008	560 1/16W	1	
	R2356	D0GB561JA008	560 1/16W	1	
	R2357	D0GBR00JA008	0 1/16W	1	
	R5000	D0GB562JA008	5.6K 1/16W	1	
	R5001	D0GB562JA008	5.6K 1/16W	1	
	R5002	D0GB562JA008	5.6K 1/16W	1	
	R5003	D0GB562JA008	5.6K 1/16W	1	
	R5004	D0GF100JA014	10 1/10W	1	
	R5005	D0GF100JA014	10 1/10W	1	
	R5006	D0GZ220JA012	22 1W	1	
	R5007	D0GZ220JA012	22 1W	1	
	R5008	D0GB101JA008	100 1/16W	1	
	R5010	D0GF100JA014	10 1/10W	1	
	R5011	D0GF100JA014	10 1/10W	1	
	R5019	D0GB124JA008	120K 1/16W	1	
	R5020	D0GB104JA008	100K 1/16W	1	
	R5021	D0GB221JA007	220 1/10W	1	
	R5022	D0GB122JA008	1.2K 1/16W	1	
	R5030	D0GB562JA008	5.6K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5031	D0GB562JA008	5.6K 1/16W	1	
	R5032	D0GB562JA008	5.6K 1/16W	1	
	R5033	D0GB562JA008	5.6K 1/16W	1	
	R5036	D0GB562JA008	5.6K 1/16W	1	
	R5037	D0GB562JA008	5.6K 1/16W	1	
	R5103	D0GB562JA008	5.6K 1/16W	1	
	R5104	D0GB562JA008	5.6K 1/16W	1	
	R5110	D0GB822JA008	8.2K 1/16W	1	
	R5111	D0GB104JA008	100K 1/16W	1	
	R5113	D0GB124JA008	120K 1/16W	1	
	R5114	D0GB122JA008	1.2K 1/16W	1	
	R5115	D0GB122JA008	1.2K 1/16W	1	
	R5118	D0GB562JA008	5.6K 1/16W	1	
	R5119	D0GB562JA008	5.6K 1/16W	1	
	R5200	D0GF100JA014	10 1/10W	1	
	R5201	D0GF100JA014	10 1/10W	1	
	R5204	D0GB101JA008	100 1/16W	1	
	R5205	D0GB562JA008	5.6K 1/16W	1	
	R5206	D0GB562JA008	5.6K 1/16W	1	
	R5207	D0GB562JA008	5.6K 1/16W	1	
	R5208	D0GB562JA008	5.6K 1/16W	1	
	R5209	D0GZ220JA012	22 1W	1	
	R5210	D0GF100JA014	10 1/10W	1	
	R5211	D0GF100JA014	10 1/10W	1	
	R5217	D0GZ220JA012	22 1W	1	
	R5317	D0GB122JA008	1.2K 1/16W	1	
	R5318	D0GB124JA008	120K 1/16W	1	
	R5328	D0GB104JA008	100K 1/16W	1	
	R5400	D0GZ220JA012	22 1W	1	
	R5402	D0GF100JA014	10 1/10W	1	
	R5404	D0GB101JA008	100 1/16W	1	
	R5405	D0GF100JA014	10 1/10W	1	
	R5410	D0GF100JA014	10 1/10W	1	
	R5411	D0GF100JA014	10 1/10W	1	
	R5419	D0GZ220JA012	22 1W	1	
	R5504	D0GB220JA008	22 1/16W	1	
	R5505	D0GB101JA008	100 1/16W	1	
	R5506	D0GB105JA008	1M 1/16W	1	
	R5507	D0GB105JA008	1M 1/16W	1	
	R5508	D0GB105JA008	1M 1/16W	1	
	R5510	ERG2SJ102E	1K 2W	1	
	R5512	D0GBR00JA008	0 1/16W	1	
	R5513	D0GB101JA008	100 1/16W	1	
	R5515	D0GBR00JA008	0 1/16W	1	
	R5602	D0GB103JA008	10K 1/16W	1	
	R5603	D0GB103JA008	10K 1/16W	1	
	R5604	D0GB122JA008	1.2K 1/16W	1	
	R5608	D0GB103JA008	10K 1/16W	1	
	R5609	D0GB103JA008	10K 1/16W	1	
	R5611	D0GB122JA008	1.2K 1/16W	1	
	R5671	D0GBR00JA008	0 1/16W	1	
	R5702	D0GZ104JA012	100K 1W	1	PH
	R5702	D0GZ333JA012	33K -W	1	PN
	R5703	D0GZ104JA012	100K 1W	1	PH
	R5703	D0GZ333JA012	33K -W	1	PN
	R5704	ERJ8GEYJ224V	220K 1/4W	1	
	R5705	ERJ8GEYJ224V	220K 1/4W	1	
	R5706	D0GD824JA017	820K 1/10W	1	
	R5708	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5709	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5720	D0GD220JA017	22 1/10W	1	
	R5721	D0GD103JA017	10K 1/10W	1	
	R5722	D0GD122JA017	1.2K 1/10W	1	
	R5723	D0GB102JA008	1K 1/16W	1	
	R5724	D0GD121JA017	120 1/10W	1	
	R5726	ERX2SZJR11P	0.1 2W	1	PN
	R5726	ERX2SZJR15P	0.15 2W	1	PH
	R5727	ERX2SZJR10P	0.1 2W	1	PN
	R5727	ERX2SZJR15P	0.15 2W	1	PH
	R5728	D0GB104JA008	100K 1/16W	1	
	R5729	D0GD103JA017	10K 1/10W	1	
	R5730	D0GB102JA008	1K 1/16W	1	
	R5732	D0GB101JA008	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5733	D0GB473JA008	47K 1/16W	1	
	R5786	D0GZ204JA012	100K 1W	1	PH
	R5795	D0GD474JA017	470K 1/10W	1	
	R5797	D0GB153JA008	15K 1/16W	1	
	R5798	D0GB220JA008	22 1/16W	1	
	R5800	D0GD153JA017	15K 1/10W	1	
	R5801	D0GD223JA017	22K 1/10W	1	
	R5802	D0HB123ZA002	12K 1/16W	1	
	R5803	D0HB102ZA002	1K 1/16W	1	
	R5804	D1BD4702A077	47K 1/10W	1	
	R5805	ERJ3RBD222V	2.2K 1/16W	1	
	R5806	D0GB153JA008	15K 1/16W	1	
	R5807	D0GD331JA017	330 1/10W	1	
	R5808	D0GD222JA017	2.2K 1/10W	1	
	R5809	D0GD331JA017	330 1/10W	1	
	R5810	D0GB331JA008	330 1/16W	1	
	R5814	D0GB822JA008	8.2K 1/16W	1	
	R5817	D0GB331JA008	330 1/16W	1	
	R5820	D0GB103JA008	10K 1/16W	1	PN
	R5820	ERJ3GEYJ103V	10K 1/10W	1	PH
	R5821	ERG2SJ471E	470 2W	1	
	R5822	ERG2SJ471E	470 2W	1	
	R5823	ERG2SJ471E	470 2W	1	
	R5824	ERG2SJ471E	470 2W	1	
	R5825	ERG2SJ471E	470 2W	1	
	R5826	ERG2SJ471E	470 2W	1	
	R5827	ERG2SJ471E	470 2W	1	
	R5828	ERG2SJ471E	470 2W	1	
	R5832	D0GZ222JA012	2.2K 1W	1	
	R5833	D0GZ222JA012	2.2K 1W	1	PH
	R5834	D0GZ222JA012	2.2K 1W	1	
	R5835	D0GZ222JA012	2.2K 1W	1	PH
	R5836	D0GZ222JA012	2.2K 1W	1	PH
	R5837	D0GZ222JA012	2.2K 1W	1	PH
	R5840	D0GB823JA008	82K 1/16W	1	
	R5841	D0GB124JA008	120K 1/16W	1	
	R5860	ERJ3GEYF103V	10K 1/10W	1	
	R5861	ERJ3GEYF332V	3.3K 1/10W	1	
	R5862	D0GD183JA017	18K 1/10W	1	
	R5863	D0GD183JA017	18K 1/10W	1	
	R5864	ERJ3GEYF103V	10K 1/10W	1	
	R5890	D0GB222JA008	2.2K 1/16W	1	
	R5891	ERJ3RBD333V	33K 1/16W	1	
	R5892	D0HB102ZA002	1K 1/16W	1	
	R5893	ERJ3RBD103V	10K 1/16W	1	
	R5894	D0GB151JA008	150 1/16W	1	
	R5895	D0GB153JA008	15K 1/16W	1	
	R5896	D0GB104JA008	100K 1/16W	1	
	R5897	D0GB101JA008	100 1/16W	1	
	R6001	D0GB122JA008	1.2K 1/16W	1	
	R6002	D0GB152JA008	1.5K 1/16W	1	
	R6003	D0GB222JA008	2.2K 1/16W	1	
	R6004	D0GB332JA008	3.3K 1/16W	1	
	R6005	D0GB472JA008	4.7K 1/16W	1	
	R6006	D0GB682JA008	6.8K 1/16W	1	
	R6007	D0GB153JA008	15K 1/16W	1	
	R6008	D0GB680JA008	68 1/16W	1	
	R6009	D0GB680JA008	68 1/16W	1	
	R6012	D0GB680JA008	68 1/16W	1	
	R6013	D0GB680JA008	68 1/16W	1	
	R6016	D0GB122JA008	1.2K 1/16W	1	
	R6017	D0GB152JA008	1.5K 1/16W	1	
	R6018	D0GB222JA008	2.2K 1/16W	1	
	R6019	D0GB332JA008	3.3K 1/16W	1	
	R6020	D0GB472JA008	4.7K 1/16W	1	
	R6021	D0GB682JA008	6.8K 1/16W	1	
	R6022	D0GB153JA008	15K 1/16W	1	
	R6023	D0GB103JA008	10K 1/16W	1	
	R6024	D0GB680JA008	68 1/16W	1	
	R6025	D0GB680JA008	68 1/16W	1	
	R6028	D0GB103JA008	10K 1/16W	1	
	R6029	D0GB680JA008	68 1/16W	1	
	R6030	D0GB680JA008	68 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6032	D0GB221JA007	220 1/10W	1	
	R6033	D0GB221JA007	220 1/10W	1	
	R6034	D0GB471JA008	470 1/16W	1	
	R6037	D0GB823JA008	82K 1/16W	1	
	R6039	D0GB680JA008	68 1/16W	1	
	R6042	D0GB562JA008	5.6K 1/16W	1	
	R6045	D0GB470JA008	47 1/16W	1	
	R6048	D0GB123JA008	12K 1/16W	1	
	R6049	D0GB223JA008	22K 1/16W	1	
	R6050	D0GB103JA008	10K 1/16W	1	
	R6051	D0GB473JA008	47K 1/16W	1	
	R6054	D0GB100JA008	10 1/16W	1	
	R6055	D0GB473JA008	47K 1/16W	1	
	R6056	D0GB103JA008	10K 1/16W	1	
	R6057	D0GB223JA008	22K 1/16W	1	
	R6058	D0GB123JA008	12K 1/16W	1	
	R6059	D0GB223JA008	22K 1/16W	1	
	R6060	D0GB680JA008	68 1/16W	1	
	R6062	D0GB680JA008	68 1/16W	1	
	R6067	D0GBR00JA008	0 1/16W	1	
	R6068	D0GBR00JA008	0 1/16W	1	
	R6071	D0GBR00JA008	0 1/16W	1	
	R6072	D0GBR00JA008	0 1/16W	1	
	R6075	D0GB332JA008	3.3K 1/16W	1	
	R6076	D0GB332JA008	3.3K 1/16W	1	
	R6077	D0GB153JA008	15K 1/16W	1	
	R6078	D0GB153JA008	15K 1/16W	1	
	R6080	D0GBR00JA008	0 1/16W	1	
	R6083	D0GB1R0JA008	1.0 1/16W	1	
	R6084	D0GB1R0JA008	1.0 1/16W	1	
	R7111	D0GB103JA008	10K 1/16W	1	
	R7211	D0GB823JA008	82K 1/16W	1	
	R7212	D0GB821JA008	820 1/16W	1	
	R7213	D0GB272JA008	2.7K 1/16W	1	
	R7214	D0GB271JA008	270 1/16W	1	
	R7216	D0GB103JA008	10K 1/16W	1	
	R7217	D0GB102JA008	1K 1/16W	1	
	R7218	D0GB102JA008	1K 1/16W	1	
	R7220	D0GB105JA008	1M 1/16W	1	
	R7221	D0GB101JA008	100 1/16W	1	
	R7253	D0GB100JA008	10 1/16W	1	
	R7254	D0GB102JA008	1K 1/16W	1	
	R7260	D0GB101JA008	100 1/16W	1	
	R7315	D0GB332JA008	3.3K 1/16W	1	
	R7323	D0GB682JA008	6.8K 1/16W	1	
	R7325	D0GB331JA008	330 1/16W	1	
	R7327	D0GB102JA008	1K 1/16W	1	
	R7328	D0GB103JA008	10K 1/16W	1	
	R7329	D0GB102JA008	1K 1/16W	1	
	R7331	D0GB273JA008	27K 1/16W	1	
	R7332	D0GB102JA008	1K 1/16W	1	
	R7335	D0GB101JA008	100 1/16W	1	
	R7336	D0GB100JA008	10 1/16W	1	
	R7349	D0GB183JA008	18K 1/16W	1	
	R7601	D0GB4R7JA008	4.7 1/16W	1	
	R7650	D0GB5R6JA008	5.6 1/16W	1	
			RESISTOR NETWORKS		
	RX551	D1H84734A024	RESISTOR NETWORK	1	
	RX656	D1H84734A024	RESISTOR NETWORK	1	
	RX760	D1H84734A024	RESISTOR NETWORK	1	
	RX761	D1H82204A024	RESISTOR NETWORK	1	
	RX801	EXB2HV100JV	RESISTOR NETWORK	1	
	RX802	EXB2HV100JV	RESISTOR NETWORK	1	
	RX804	D1H410020002	RESISTOR NETWORK	1	
	RX805	D1H410020002	RESISTOR NETWORK	1	
	RX807	EXB2HV100JV	RESISTOR NETWORK	1	
	RX808	EXB2HV100JV	RESISTOR NETWORK	1	
	RX820	D1H81004A024	RESISTOR NETWORK	1	
	RX826	D1H81004A024	RESISTOR NETWORK	1	
	RX834	D1H81004A024	RESISTOR NETWORK	1	
	RX837	EXB2HV100JV	RESISTOR NETWORK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	RX838	EXB2HV100JV	RESISTOR NETWORK	1	
	RX839	D1H410020002	RESISTOR NETWORK	1	
	RX840	EXB2HV100JV	RESISTOR NETWORK	1	
	RX841	EXB2HV100JV	RESISTOR NETWORK	1	
	RX854	D1H410020002	RESISTOR NETWORK	1	
	RX864	D1H84734A024	RESISTOR NETWORK	1	
			CAPACITORS		
	C51	F1H1H102A219	1000pF 50V	1	
	C52	F1H1A474A025	0.47uF 10V	1	
	C57	F1H1H220A230	22pF 50V	1	
	C58	F1H1H220A230	22pF 50V	1	
	C59	F1H1A105A025	1uF 10V	1	
	C60	F1H1A105A025	1uF 10V	1	
	C61	F1G1C104A077	0.1uF 16V	1	
	C62	F1G1C104A077	0.1uF 16V	1	
	C513	F1G1A1040006	0.1uF 10V	1	
	C514	F1G1A1040006	0.1uF 10V	1	
	C515	F1J0J106A004	10uF 6.3V	1	
	C551	F1G1A1040006	0.1uF 10V	1	
	C552	F1J0J106A004	10uF 6.3V	1	
	C553	F1G1A1040006	0.1uF 10V	1	
	C554	F1J0J106A004	10uF 6.3V	1	
	C555	F1H1A225A051	2.2uF 10V	1	
	C556	F1J0J106A004	10uF 6.3V	1	
	C557	F1J0J106A004	10uF 6.3V	1	
	C558	F1G1H101A566	100pF 50V	1	
	C559	F1G1H101A566	100pF 50V	1	
	C560	F1J0J106A004	10uF 6.3V	1	
	C561	F1G1A1040006	0.1uF 10V	1	
	C562	F1J0J106A004	10uF 6.3V	1	
	C563	F1J0J106A004	10uF 6.3V	1	
	C564	F1J0J106A004	10uF 6.3V	1	
	C601	ERJ2GE0R00X	0 1/16W	1	
	C602	ERJ2GE0R00X	0 1/16W	1	
	C701	F1G1C1030007	0.01uF 16V	1	
	C751	F1G1C1030007	0.01uF 16V	1	
	C752	F1G1C1030007	0.01uF 16V	1	
	C753	F1G1C1030007	0.01uF 16V	1	
	C754	F1G1C1030007	0.01uF 16V	1	
	C755	F1G1C1030007	0.01uF 16V	1	
	C756	F1G1C1030007	0.01uF 16V	1	
	C757	F1G1C1030007	0.01uF 16V	1	
	C760	F1G1H100A565	10pF 50V	1	
	C761	F1G1H100A565	10pF 50V	1	
	C762	F1G1H100A565	10pF 50V	1	
	C763	F1G1H100A565	10pF 50V	1	
	C764	F1G1H100A565	10pF 50V	1	
	C765	F1G1H5R0A445	5.0pF 50V	1	
	C766	F1H1A105A025	1uF 10V	1	
	C767	F1H1A105A025	1uF 10V	1	
	C768	F1G1A1040006	0.1uF 10V	1	
	C769	F1G1A1040006	0.1uF 10V	1	
	C801	F1G1C1030007	0.01uF 16V	1	
	C802	F1G1C1030007	0.01uF 16V	1	
	C803	F1G1C1030007	0.01uF 16V	1	
	C804	F1G1C1030007	0.01uF 16V	1	
	C805	F1G1C1030007	0.01uF 16V	1	
	C806	F1G1C1030007	0.01uF 16V	1	
	C807	F1G1C1030007	0.01uF 16V	1	
	C808	F1H0J4750004	4.7uF 6.3V	1	
	C809	F3G0J476A030	47uF 6.3V	1	
	C811	F3G0J476A030	47uF 6.3V	1	
	C812	F3G0J476A030	47uF 6.3V	1	
	C813	F3G0J476A030	47uF 6.3V	1	
	C814	F1G1C1030007	0.01uF 16V	1	
	C815	F1G1C1030007	0.01uF 16V	1	
	C816	F1G1H120A565	12pF 50V	1	
	C817	F1G1H120A565	12pF 50V	1	
	C818	F1G1C1030007	0.01uF 16V	1	
	C819	F1G1C1030007	0.01uF 16V	1	
	C820	F1G1C1030007	0.01uF 16V	1	
	C821	F1G1C1030007	0.01uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C823	F1G1E1020001	1000pF 25V	1	
	C824	F1G1C1030007	0.01uF 16V	1	
	C825	F1G1C1030007	0.01uF 16V	1	
	C826	F1G1C1030007	0.01uF 16V	1	
	C827	F1G1C1030007	0.01uF 16V	1	
	C828	F1G1C1030007	0.01uF 16V	1	
	C829	F1G1C1030007	0.01uF 16V	1	
	C830	F1G1C1030007	0.01uF 16V	1	
	C831	F1G1C1030007	0.01uF 16V	1	
	C832	F1G1C1030007	0.01uF 16V	1	
	C833	F1G1C1030007	0.01uF 16V	1	
	C834	F1G1C1030007	0.01uF 16V	1	
	C835	F1G1C1030007	0.01uF 16V	1	
	C836	F1G1C1030007	0.01uF 16V	1	
	C837	F1G1C1030007	0.01uF 16V	1	
	C841	F1G1E1020001	1000pF 25V	1	
	C842	F1G1A1040006	0.1uF 10V	1	
	C843	F1G1E1020001	1000pF 25V	1	
	C844	F1G1A1040006	0.1uF 10V	1	
	C845	F1G1E1020001	1000pF 25V	1	
	C846	F1G1A1040006	0.1uF 10V	1	
	C849	F1G1C1030007	0.01uF 16V	1	
	C850	F1G1C1030007	0.01uF 16V	1	
	C851	F1G1E1020001	1000pF 25V	1	
	C852	F1G1H330A565	33pF 50V	1	
	C853	F1G1H220A565	22pF 50V	1	
	C857	F1G1H101A566	100pF 50V	1	
	C858	F1G1H101A566	100pF 50V	1	
	C859	F1G1H101A566	100pF 50V	1	
	C2000	F2A1H4R7A213	4.7uF 50V	1	
	C2002	F2A1H4R7A213	4.7uF 50V	1	
	C2003	F1H1H103A219	0.01uF 50V	1	
	C2004	F1H1H470A004	47pF 50V	1	
	C2005	F1H1H472A219	4700pF 50V	1	
	C2006	F2A1HR10A015	0.10uF 50V	1	
	C2007	F2A1C100A207	10uF 16V	1	
	C2008	F1H1H102A219	1000pF 50V	1	
	C2009	F1H1H102A219	1000pF 50V	1	
	C2010	F2A1H4R7A213	4.7uF 50V	1	
	C2011	F1H0J1050012	1uF 6.3V	1	
	C2012	F1H1H103A219	0.01uF 50V	1	
	C2013	F1H1H103A219	0.01uF 50V	1	
	C2015	F2A1H1R0A213	1.0uF 50V	1	
	C2016	F2A1H1R0A213	1.0uF 50V	1	
	C2018	F1H1H102A219	1000pF 50V	1	
	C2019	F1H1H102A219	1000pF 50V	1	
	C2020	F1H1H2210001	220pF 50V	1	
	C2021	F1H1H2210001	220pF 50V	1	
	C2022	F1H1H222A219	2200pF 50V	1	
	C2024	F2A1HR10A015	0.10uF 50V	1	
	C2026	F2A1H2R2A234	2.2uF 50V	1	
	C2027	F1H1H103A219	0.01uF 50V	1	
	C2028	F1H1H102A219	1000pF 50V	1	
	C2029	F1H1H102A219	1000pF 50V	1	
	C2030	F2A0J471A016	470uF 6.3V	1	
	C2031	F1H1H103A219	0.01uF 50V	1	
	C2032	F1H1H102A219	1000pF 50V	1	
	C2033	F1H1H103A219	0.01uF 50V	1	
	C2034	F1H1H102A219	1000pF 50V	1	
	C2035	F2A1C100A207	10uF 16V	1	
	C2036	F2A1C100A207	10uF 16V	1	
	C2037	F2A1C100A207	10uF 16V	1	
	C2038	F1H0J1050012	1uF 6.3V	1	
	C2039	F1H0J1050012	1uF 6.3V	1	
	C2040	F1H0J4750004	4.7uF 6.3V	1	
	C2041	F2A1H100A236	10uF 50V	1	
	C2042	F1H0J1050012	1uF 6.3V	1	
	C2043	F2A1H100A236	10uF 50V	1	
	C2044	F1H0J1050012	1uF 6.3V	1	
	C2045	F1H0J1050012	1uF 6.3V	1	
	C2046	F1H0J1050012	1uF 6.3V	1	
	C2047	F1H0J4750004	4.7uF 6.3V	1	
	C2048	F1H1A224A007	0.22uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2050	F1H1H102A219	1000pF 50V	1	
	C2051	F2A1C100A207	10uF 16V	1	
	C2052	F1H1H102A219	1000pF 50V	1	
	C2053	F1H1H102A219	1000pF 50V	1	
	C2054	F1H1H102A219	1000pF 50V	1	
	C2055	F1H1H102A219	1000pF 50V	1	
	C2056	F1H1H102A219	1000pF 50V	1	
	C2057	F1H1H102A219	1000pF 50V	1	
	C2058	F1H1H102A219	1000pF 50V	1	
	C2059	F1H1H473A783	0.047uF 50V	1	
	C2060	F2A0J101A181	100uF 6.3V	1	
	C2061	F1H1H102A219	1000pF 50V	1	
	C2062	F1H1H102A219	1000pF 50V	1	
	C2063	F1H1A225A051	2.2uF 10V	1	
	C2064	F1H1H103A219	0.01uF 50V	1	
	C2065	F2A1A330A159	33uF 10V	1	
	C2066	F2A1H1R0A213	1.0uF 50V	1	
	C2067	F1H0J1050012	1uF 6.3V	1	
	C2068	F2A1A330A159	33uF 10V	1	
	C2069	F2A1H1R0A213	1.0uF 50V	1	
	C2070	F2A1H1R0A213	1.0uF 50V	1	
	C2071	F2A1H1R0A213	1.0uF 50V	1	
	C2072	F1H1H470A004	47pF 50V	1	
	C2073	F1H0J1050012	1uF 6.3V	1	
	C2074	F1H0J1050012	1uF 6.3V	1	
	C2076	F1H1A474A025	0.47uF 10V	1	
	C2077	F1H1A474A025	0.47uF 10V	1	
	C2078	F1H1H470A004	47pF 50V	1	
	C2079	F1H1H101A720	100pF 50V	1	
	C2080	F1H1H332A013	3300pF 50V	1	
	C2081	F1H1H332A013	3300pF 50V	1	
	C2082	F1H1H103A219	0.01uF 50V	1	
	C2083	F1H1H103A219	0.01uF 50V	1	
	C2084	F1H1H101A720	100pF 50V	1	
	C2085	F1H1H103A219	0.01uF 50V	1	
	C2086	F1H1H103A219	0.01uF 50V	1	
	C2087	F1H1C3330001	0.033uF 16V	1	
	C2088	F1H1C3330001	0.033uF 16V	1	
	C2089	F1H1C474A008	0.47uF 16V	1	
	C2090	F1H1C474A008	0.47uF 16V	1	
	C2091	F1H1H332A013	3300pF 50V	1	
	C2092	F1H1H223A219	0.022uF 50V	1	
	C2093	F1H1H473A783	0.047uF 50V	1	
	C2094	F2A1H3R3A213	3.3uF 50V	1	
	C2095	F2A1H3R3A213	3.3uF 50V	1	
	C2096	F1H0J4750004	4.7uF 6.3V	1	
	C2097	F1H1H473A783	0.047uF 50V	1	
	C2098	F2A1H3R3A213	3.3uF 50V	1	
	C2099	F2A1H1R0A213	1.0uF 50V	1	
	C2102	F1H1C683A087	0.068uF 16V	1	
	C2103	F2A1C221A019	220uF 16V	1	
	C2104	F1J0J106A020	10uF 6.3V	1	
	C2105	F1J0J106A020	10uF 6.3V	1	
	C2106	F1H1H101A720	100pF 50V	1	
	C2107	F1H1H101A720	100pF 50V	1	
	C2108	F1H1H101A720	100pF 50V	1	
	C2109	D0GDR00JA017	0 1/10W	1	
	C2110	D0GDR00JA017	0 1/10W	1	
	C2111	F1H1C104A042	0.1uF 16V	1	
	C2115	F2A1H1R0A213	1.0uF 50V	1	
	C2116	F1H1H103A219	0.01uF 50V	1	
	C2117	F1H1H101A720	100pF 50V	1	
	C2118	F2A0J221A181	220uF 6.3V	1	
	C2119	F1J0J106A020	10uF 6.3V	1	
	C2120	F1H1H470A004	47pF 50V	1	
	C2121	F1H0J1050012	1uF 6.3V	1	
	C2122	F1H0J1050012	1uF 6.3V	1	
	C2123	F1H1A474A025	0.47uF 10V	1	
	C2124	F2A1H2R2A234	2.2uF 50V	1	
	C2125	F2A0J221A167	220uF 6.3V	1	
	C2126	F1H1H470A004	47pF 50V	1	
	C2127	F1J0J106A020	10uF 6.3V	1	
	C2128	F1H1H1500009	15pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2129	F1J0J106A020	10uF 6.3V	1	
	C2130	F1H0J1050012	1uF 6.3V	1	
	C2131	F1H1H470A004	47pF 50V	1	
	C2132	F1H1H181A792	180pF 50V	1	
	C2133	F2A1H1R0A213	1.0uF 50V	1	
	C2134	F1H1H1500009	15pF 50V	1	
	C2135	F1J1H104A459	0.1uF 50V	1	
	C2136	F1H1H103A219	0.01uF 50V	1	
	C2137	F1H1H562A219	5600pF 50V	1	
	C2138	F1H1H181A792	180pF 50V	1	
	C2140	F1H0J4750004	4.7uF 6.3V	1	
	C2141	F1H0J4750004	4.7uF 6.3V	1	
	C2142	F1H0J1050012	1uF 6.3V	1	
	C2143	F1H1C104A042	0.1uF 16V	1	
	C2144	F2A1C221A019	220uF 16V	1	
	C2145	F1H1C104A042	0.1uF 16V	1	
	C2146	F1H0J1050012	1uF 6.3V	1	
	C2147	F1H1C104A042	0.1uF 16V	1	
	C2148	F1H0J1050012	1uF 6.3V	1	
	C2149	F2A1C470A180	47uF 16V	1	
	C2150	F2A0J470A167	47uF 6.3V	1	
	C2151	F1H1H102A219	1000pF 50V	1	
	C2152	F1H1H102A219	1000pF 50V	1	
	C2153	F2A1H3R3A213	3.3uF 50V	1	
	C2154	F1H1C104A042	0.1uF 16V	1	
	C2155	F2A1C470A180	47uF 16V	1	
	C2160	F1H1H223A219	0.022uF 50V	1	
	C2162	F1H1C104A042	0.1uF 16V	1	
	C2163	F1H1C104A042	0.1uF 16V	1	
	C2167	F1H1C104A042	0.1uF 16V	1	
	C2168	F1H1C104A042	0.1uF 16V	1	
	C2175	F1H1H331A013	330pF 50V	1	
	C2177	F1H1H331A013	330pF 50V	1	
	C2180	D0GBR00JA008	0 1/16W	1	
	C2181	D0GBR00JA008	0 1/16W	1	
	C2182	D0GBR00JA008	0 1/16W	1	
	C2183	D0GBR00JA008	0 1/16W	1	
	C2186	D0GBR00JA008	0 1/16W	1	
	C2187	D0GBR00JA008	0 1/16W	1	
	C2188	F1H1H103A219	0.01uF 50V	1	
	C2189	F2A1C330A234	33uF 16V	1	
	C2190	F1H1H103A219	0.01uF 50V	1	
	C2191	F1H1C104A042	0.1uF 16V	1	
	C2192	F2A1A101A159	100uF 10V	1	
	C2201	F2A1A330A159	33uF 10V	1	
	C2202	F1H1H103A219	0.01uF 50V	1	
	C2203	F2A1C471A498	470uF 16V	1	
	C2204	F1H1H103A219	0.01uF 50V	1	
	C2208	F1H1C683A087	0.068uF 16V	1	
	C2209	F1H1H103A219	0.01uF 50V	1	
	C2210	F1H1C683A087	0.068uF 16V	1	
	C2212	F1H1H103A219	0.01uF 50V	1	
	C2213	F1H1H103A219	0.01uF 50V	1	
	C2214	F1H1H472A219	4700pF 50V	1	
	C2215	F1H1H472A219	4700pF 50V	1	
	C2217	F2A1H2R2A234	2.2uF 50V	1	
	C2218	D0GBR00JA008	0 1/16W	1	
	C2219	D0GBR00JA008	0 1/16W	1	
	C2220	F1H1A474A025	0.47uF 10V	1	
	C2221	F1H1H103A219	0.01uF 50V	1	
	C2223	F1H1C104A042	0.1uF 16V	1	
	C2225	F1H1H102A219	1000pF 50V	1	
	C2226	F2A1C102A019	1000uF 16V	1	
	C2227	EEUFC0J821B	820uF 6.3V	1	
	C2231	F1H1H103A219	0.01uF 50V	1	
	C2233	F2A1E102A207	1000uF 25V	1	
	C2236	F1H1H103A219	0.01uF 50V	1	
	C2237	F1J0J106A020	10uF 6.3V	1	
	C2240	F1H0J1050012	1uF 6.3V	1	
	C2241	F2A1C470A180	47uF 16V	1	
	C2242	F2A0J221A181	220uF 6.3V	1	
	C2243	F2A0J101A181	100uF 6.3V	1	
	C2246	F2A1C221A019	220uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2247	F2A1C470A180	47uF 16V	1	
	C2249	F1J0J106A020	10uF 6.3V	1	
	C2250	F1H1H470A004	47pF 50V	1	
	C2251	F1H1H470A004	47pF 50V	1	
	C2252	F1H1H470A004	47pF 50V	1	
	C2253	F1H1H470A004	47pF 50V	1	
	C2254	F1H1H470A004	47pF 50V	1	
	C2263	F2A0J471A016	470uF 6.3V	1	
	C5000	F1H1H102A219	1000pF 50V	1	
	C5001	F1H1H102A219	1000pF 50V	1	
	C5002	F1H1A474A001	0.47uF 10V	1	
	C5003	F1H1A474A001	0.47uF 10V	1	
	C5004	F1H1A474A001	0.47uF 10V	1	
	C5005	F1H1A474A001	0.47uF 10V	1	
	C5006	F1H1H331A013	330pF 50V	1	
	C5007	F1H1H331A013	330pF 50V	1	
	C5008	F1H1H153A219	0.015uF 50V	1	
	C5009	F1H1H153A219	0.015uF 50V	1	
	C5010	F1J2A221A030	220pF 100V	1	
	C5011	F1J2A221A030	220pF 100V	1	
	C5012	F1J2A221A030	220pF 100V	1	
	C5013	F1J2A221A030	220pF 100V	1	
	C5014	ECQV1H684JL3	0.68uF 50V	1	
	C5015	ECQV1H684JL3	0.68uF 50V	1	
	C5016	F1H1H104A013	0.1uF 50V	1	
	C5017	F1H1H104A013	0.1uF 50V	1	
	C5018	F1K2A1040007	0.1uF 100V	1	
	C5019	F1H1H104A013	0.1uF 50V	1	
	C5020	F1H1H104A013	0.1uF 50V	1	
	C5021	F1H1H104A013	0.1uF 50V	1	
	C5022	F1H1H104A013	0.1uF 50V	1	
	C5023	F1K2A1040007	0.1uF 100V	1	
	C5024	F1H1H104A013	0.1uF 50V	1	
	C5025	F1H1H104A013	0.1uF 50V	1	
	C5027	F1H1H104A013	0.1uF 50V	1	
	C5028	F1H1H104A013	0.1uF 50V	1	
	C5030	F1H1H330A230	33pF 50V	1	
	C5031	F1H1C474A140	0.47uF 16V	1	
	C5032	F1H1H102A219	1000pF 50V	1	
	C5040	F2A2A220A388	22uF 100V	1	
	C5050	F1H1H102A219	1000pF 50V	1	
	C5051	F1H1H102A219	1000pF 50V	1	
	C5052	F1H1H102A219	1000pF 50V	1	
	C5053	F1H1H102A219	1000pF 50V	1	
	C5106	F1H1A474A001	0.47uF 10V	1	
	C5107	F1H1A474A001	0.47uF 10V	1	
	C5117	F1H1H102A219	1000pF 50V	1	
	C5119	F1H1H102A219	1000pF 50V	1	
	C5120	F1H1A474A001	0.47uF 10V	1	
	C5121	F1H1A474A001	0.47uF 10V	1	
	C5133	F2A0J101A245	100uF 6.3V	1	
	C5150	F1H1H102A219	1000pF 50V	1	
	C5151	F1H1H102A219	1000pF 50V	1	
	C5152	F1H1H102A219	1000pF 50V	1	
	C5153	F1H1H102A219	1000pF 50V	1	
	C5154	F1H1H102A219	1000pF 50V	1	
	C5200	F1H1H104A013	0.1uF 50V	1	
	C5201	F1H1H153A219	0.015uF 50V	1	
	C5202	F1H1C474A140	0.47uF 16V	1	
	C5203	F1J2A221A030	220pF 100V	1	
	C5204	F1H1H153A219	0.015uF 50V	1	
	C5205	F1J2A221A030	220pF 100V	1	
	C5206	F1H1H104A013	0.1uF 50V	1	
	C5207	F1K2A1040007	0.1uF 100V	1	
	C5208	F1H1H104A013	0.1uF 50V	1	
	C5209	F1H1H104A013	0.1uF 50V	1	
	C5211	F1J2A221A030	220pF 100V	1	
	C5212	F1H1H330A230	33pF 50V	1	
	C5213	F1H1H104A013	0.1uF 50V	1	
	C5214	F1H1H104A013	0.1uF 50V	1	
	C5216	F1H1H331A013	330pF 50V	1	
	C5217	F1H1H104A013	0.1uF 50V	1	
	C5218	F1J2A221A030	220pF 100V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5219	F1K2A1040007	0.1uF 100V	1	
	C5220	F1H1H104A013	0.1uF 50V	1	
	C5221	F1H1H102A219	1000pF 50V	1	
	C5222	F1H1A474A001	0.47uF 10V	1	
	C5223	F1H1A474A001	0.47uF 10V	1	
	C5224	F1H1H331A013	330pF 50V	1	
	C5225	ECQV1H684JL3	0.68uF 50V	1	
	C5226	F1H1H104A013	0.1uF 50V	1	
	C5227	F1H1H104A013	0.1uF 50V	1	
	C5228	ECQV1H684JL3	0.68uF 50V	1	
	C5231	F1H1H102A219	1000pF 50V	1	
	C5232	F1H1A474A001	0.47uF 10V	1	
	C5233	F1H1A474A001	0.47uF 10V	1	
	C5234	F1H1H102A219	1000pF 50V	1	
	C5240	F2A2A220A388	22uF 100V	1	
	C5250	F1H1H102A219	1000pF 50V	1	
	C5251	F1H1H102A219	1000pF 50V	1	
	C5331	F1H1H102A219	1000pF 50V	1	
	C5400	ECQV1H684JL3	0.68uF 50V	1	
	C5401	F1H1H104A013	0.1uF 50V	1	
	C5402	F1H1H104A013	0.1uF 50V	1	
	C5403	F1H1H104A013	0.1uF 50V	1	
	C5404	F1H1H331A013	330pF 50V	1	
	C5405	F1H1H104A013	0.1uF 50V	1	
	C5406	F1H1H104A013	0.1uF 50V	1	
	C5407	F1J2A221A030	220pF 100V	1	
	C5409	F1H1H104A013	0.1uF 50V	1	
	C5410	F1K2A1040007	0.1uF 100V	1	
	C5411	F1J2A221A030	220pF 100V	1	
	C5412	F1H1H331A013	330pF 50V	1	
	C5413	F1H1H104A013	0.1uF 50V	1	
	C5416	F1H1H104A013	0.1uF 50V	1	
	C5418	F1H1H104A013	0.1uF 50V	1	
	C5419	F1K2A1040007	0.1uF 100V	1	
	C5421	F1H1C474A140	0.47uF 16V	1	
	C5422	F1H1H153A219	0.015uF 50V	1	
	C5423	F1H1H330A230	33pF 50V	1	
	C5424	F1H1H153A219	0.015uF 50V	1	
	C5425	F1J2A221A030	220pF 100V	1	
	C5426	F1J2A221A030	220pF 100V	1	
	C5427	F1H1H104A013	0.1uF 50V	1	
	C5428	ECQV1H684JL3	0.68uF 50V	1	
	C5431	F1H1H102A219	1000pF 50V	1	
	C5440	F2A2A220A388	22uF 100V	1	
	C5445	F1H1H104A013	0.1uF 50V	1	
	C5450	F1H1H104A013	0.1uF 50V	1	
	C5451	F1H1H102A219	1000pF 50V	1	
	C5452	F1H1H102A219	1000pF 50V	1	
	C5453	F1H1H102A219	1000pF 50V	1	
	C5454	F1H1H102A219	1000pF 50V	1	
	C5508	F2A1H221B436	220uF 50V	1	
	C5509	F2A1H221B436	220uF 50V	1	
	C5510	F2A1H221B436	220uF 50V	1	
	C5511	F2A1H221B436	220uF 50V	1	
	C5512	F2A1H221B436	220uF 50V	1	
	C5513	F2A1H221B436	220uF 50V	1	
	C5514	F1H1H104A013	0.1uF 50V	1	
	C5515	F1H1H104A013	0.1uF 50V	1	
	C5518	F1H1H104A013	0.1uF 50V	1	
	C5519	F1H1H104A013	0.1uF 50V	1	
	C5520	F1H1H104A013	0.1uF 50V	1	
	C5521	F1H1H104A013	0.1uF 50V	1	
	C5522	F1H1H104A013	0.1uF 50V	1	
	C5523	F1H1H104A013	0.1uF 50V	1	
	C5550	F1H1H103A219	0.01uF 50V	1	
	C5551	F1H1H391A013	390pF 50V	1	
	C5552	F1H1H391A013	390pF 50V	1	
	C5553	F1H1H101A230	100pF 50V	1	
	C5554	F1H1H104A013	0.1uF 50V	1	
	C5555	F1K1C1060001	10uF 16V	1	
	C5556	F1H1H103A219	0.01uF 50V	1	
	C5557	F1H1H101A230	100pF 50V	1	
	C5558	F1H1H470A004	47pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5559	F1H1H470A004	47pF 50V	1	
	C5601	F2A1C100A234	10uF 16V	1	
⚠	C5701	F0CAF334A105	0.33uF	1	
⚠	C5703	F0CAF104A105	0.1uF	1	PH
⚠	C5703	F0CAF224A105	0.22uF	1	PN
⚠	C5704	F1BAF1020020	1000pF	1	
⚠	C5705	F1BAF1020020	1000pF	1	
⚠	C5706	F1BAF1020020	1000pF	1	PH
⚠	C5707	F1BAF1020020	1000pF	1	PH
⚠	C5708	F1BAF1020020	1000pF	1	
	C5711	F2B2G471A083	470uF 400V	1	PH
	C5712	F2B2D5610008	560uF 200V	1	PN
	C5712	F2B2G471A083	470uF 400V	1	PH
	C5713	F0C2J1030007	0.01uF 630V	1	
	C5720	F1H1H104A013	0.1uF 50V	1	
	C5721	F1H1H2210001	220pF 50V	1	
	C5722	F1H1H102A219	1000pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5724	F2A1H5600009	56uF 50V	1	
	C5725	F1H1H104A013	0.1uF 50V	1	
	C5726	F1H1H104A013	0.1uF 50V	1	
	C5727	F1B3A3320012	3300pF 1000V	1	PN
	C5728	F1H1H102A219	1000pF 50V	1	
	C5730	F1H1E105A116	1uF 25V	1	
	C5737	F1A3A471A035	470pF 1000V	1	PH
	C5790	F1K2J2220002	2200pF 630V	1	PH
	C5794	F1H1H102A219	1000pF 50V	1	
	C5795	F1K1H105A149	1uF 50V	1	
	C5796	F1H1H104A013	0.1uF 50V	1	
	C5798	F2A1E2210050	220uF 25V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5805	F2A1H102B126	1000uF 50V	1	PN
	C5805	F2A1H222B126	2200uF 50V	1	PH
	C5808	F2A1H102B126	1000uF 50V	1	PN
	C5808	F2A1H222B126	2200uF 50V	1	PH
	C5810	F1H1H104A013	0.1uF 50V	1	
	C5812	F1H1H104A013	0.1uF 50V	1	
	C5813	F2A1V331B150	330uF 35V	1	
	C5817	F2A2AR100002	0.10uF 100V	1	
	C5818	F1H1H104A013	0.1uF 50V	1	
	C5819	F1J2E1030004	0.01uF 250V	1	
	C5820	F1J2E1030004	0.01uF 250V	1	
	C5821	F1J2E1030004	0.01uF 250V	1	
	C5822	F1J2E1030004	0.01uF 250V	1	
	C5826	F1J2E1030004	0.01uF 250V	1	
	C5831	F1H1H104A013	0.1uF 50V	1	
	C5832	F1H1H104A013	0.1uF 50V	1	
	C5839	F1J2E1030004	0.01uF 250V	1	PH
	C5840	F1J2E1030004	0.01uF 250V	1	PH
	C5841	F1J2E1030004	0.01uF 250V	1	PH
	C5842	F1J2E1030004	0.01uF 250V	1	PH
	C5843	F1J1A106A043	10uF 10V	1	
	C5844	F1J1A106A043	10uF 10V	1	
	C5869	F1H1H104A013	0.1uF 50V	1	
	C5870	F1H1H104A013	0.1uF 50V	1	
	C5896	F1H1H104A013	0.1uF 50V	1	
	C5897	F1H1H104A013	0.1uF 50V	1	
	C5898	F1H1H104A013	0.1uF 50V	1	
	C5899	F2A1A2210063	220uF 10V	1	
	C6002	F1H1H104A013	0.1uF 50V	1	
	C6003	F1H1H102A219	1000pF 50V	1	
	C6004	F1H1H331A013	330pF 50V	1	
	C6005	F1H1H331A013	330pF 50V	1	
	C6006	F1H1H331A013	330pF 50V	1	
	C6007	F1H1H103A219	0.01uF 50V	1	
	C6008	F2A1H470A147	47uF 50V	1	
	C6009	F1H1H332A219	3300pF 50V	1	
	C6010	F1H1H101A230	100pF 50V	1	
	C6011	F1H1H101A230	100pF 50V	1	
	C6012	F2A1H470A147	47uF 50V	1	
	C6013	F2A1C101A155	100uF 16V	1	
	C6016	F1H1H104A013	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6017	F1H1H101A720	100pF 50V	1	
	C6018	F1H1H101A720	100pF 50V	1	
	C6019	F1H1H101A720	100pF 50V	1	
	C6020	F1H1H102A219	1000pF 50V	1	
	C6021	F2A1H220A182	22uF 50V	1	
	C6022	F2A1H220A182	22uF 50V	1	
	C6023	F1H1H102A219	1000pF 50V	1	
	C6041	F1H1H102A219	1000pF 50V	1	
	C6042	F1H1H102A219	1000pF 50V	1	
	C6043	F1H1H102A219	1000pF 50V	1	
	C6044	F1H1H102A219	1000pF 50V	1	
	C6045	F1H1H102A219	1000pF 50V	1	
	C6046	F1H1H102A219	1000pF 50V	1	
	C6047	F1H1H102A219	1000pF 50V	1	
	C6048	F1H1H102A219	1000pF 50V	1	
	C6049	F1H1H102A219	1000pF 50V	1	
	C6050	F1H1H102A219	1000pF 50V	1	
	C6051	F1H1H102A219	1000pF 50V	1	
	C6052	F1H1H102A219	1000pF 50V	1	
	C6801	F1H1H473A220	0.047uF 50V	1	
	C6802	F1H1H473A220	0.047uF 50V	1	
	C6803	F1H1C104A041	0.1uF 16V	1	
	C6804	F1H1C104A041	0.1uF 16V	1	
	C6810	F1H1H391A013	390pF 50V	1	
	C6813	F1H1H331A219	330pF 50V	1	
	C6814	F1H1H331A219	330pF 50V	1	
	C6815	F1H1H103A013	0.01uF 50V	1	
	C6816	F1H1H103A013	0.01uF 50V	1	
	C6820	F1H1H391A013	390pF 50V	1	
	C6851	F1H1C104A008	0.1uF 16V	1	
	C6863	F1H1C104A008	0.1uF 16V	1	
	C7102	F1H1A474A025	0.47uF 10V	1	
	C7107	F1H1H223A219	0.022uF 50V	1	
	C7142	F1H1H332A013	3300pF 50V	1	
	C7154	F1H1C104A042	0.1uF 16V	1	
	C7155	F1H1C104A042	0.1uF 16V	1	
	C7161	F1H1C104A042	0.1uF 16V	1	
	C7166	F1H1H103A219	0.01uF 50V	1	
	C7203	F2A0J221A200	220uF 6.3V	1	
	C7204	F1H1C104A042	0.1uF 16V	1	
	C7213	F1H1A334A036	0.33uF 10V	1	
	C7214	F1H1H102A219	1000pF 50V	1	
	C7215	F1H1H102A219	1000pF 50V	1	
	C7216	F1H1H681A013	680pF 50V	1	
	C7217	F1H1C104A042	0.1uF 16V	1	
	C7218	F1H1C823A001	0.082uF 16V	1	
	C7221	F1H1H150A971	15pF 50V	1	
	C7222	F1H1H150A971	15pF 50V	1	
	C7223	F2A1H4R70037	4.7uF 50V	1	
	C7225	F1H1H102A219	1000pF 50V	1	
	C7226	F1H1H102A219	1000pF 50V	1	
	C7227	ECA1HAK010XI	1uF 50V	1	
	C7228	ECA1HAK010XI	1uF 50V	1	
	C7230	F1H1C104A042	0.1uF 16V	1	
	C7231	F2A0J221A200	220uF 6.3V	1	
	C7232	F2A0J221A200	220uF 6.3V	1	
	C7233	F1H1C104A008	0.1uF 16V	1	
	C7234	F1H1C104A042	0.1uF 16V	1	
	C7235	ECEA1CKA100I	10uF 16V	1	
	C7241	F1H1H102A219	1000pF 50V	1	
	C7243	F1H1C104A008	0.1uF 16V	1	
	C7244	F1H1C153A001	0.015uF 16V	1	
	C7253	F1H1H471A219	470pF 50V	1	
	C7255	F1H1C104A042	0.1uF 16V	1	
	C7315	F1H1A474A025	0.47uF 10V	1	
	C7334	ECEA1AKA221I	220uF 10V	1	
	C7335	F1H1C104A008	0.1uF 16V	1	
	C7338	F1H1E2730002	0.027uF 25V	1	
	C7339	F1H1C183A001	0.018uF 16V	1	
	C7352	F1H1C183A001	0.018uF 16V	1	
	C7601	ECEA0JKA330I	33uF 6.3V	1	
	C7613	F1H1C104A042	0.1uF 16V	1	
	C7614	F2A0J101A209	100uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C7626	F1H1C104A042	0.1uF 16V	1	