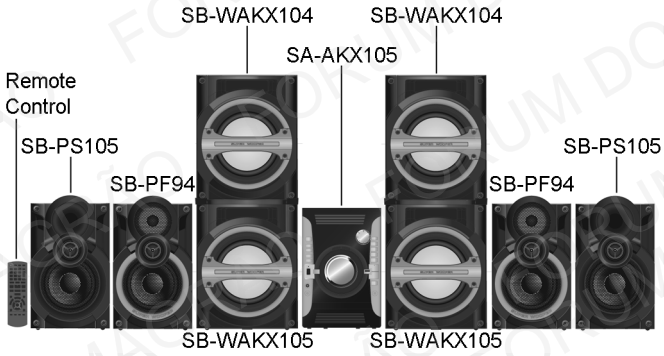
PSG1206003CE

Service Manual

CD Stereo System

Model No. SA-AKX105PH

Product Color: (K)...Black Type



Please refer to the original service manual for:
- **CD Mechanism Unit (BRS11C), Order No. PSG1201019AE**
- **Speaker system SB-AKX105PUK, Order No. PSG1206004CE**

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 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.

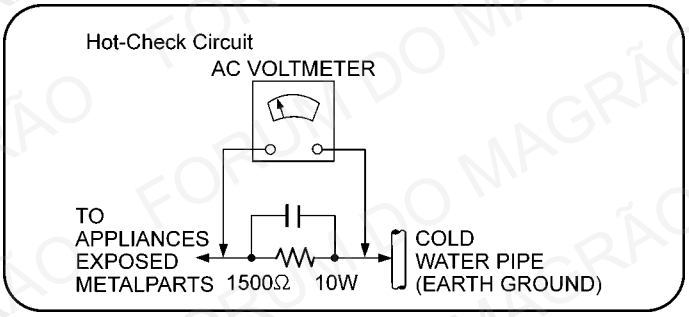


Figure 1

1.2. Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector as shown in Figure 2.
Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (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.)

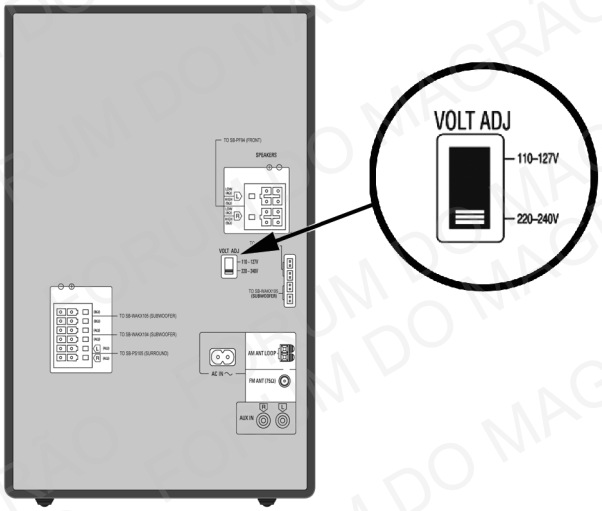


Figure 2

1.3. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5704, C5705, C5708) through a 10 Ω, 10 W resistor to ground.

Caution:

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

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 110~127 V/220~240 V, 50/60 Hz in Power ON, FM Tuner, No Signal, volume minimal mode should be ~ 750mA.

1.4. Protection Circuitry

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

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

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

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

Note:

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

1.5. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:
(Manufacturer: LITTELFUSE, Type: 215, F1, T8AH, 250V)

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
⚠	8	REXX1123-K	1P RED WIRE (VOLTAGE SELEC-TOR-SMPS)	
⚠	9	REXX1122-K	1P BLACK WIRE (VOLTAGE SELEC-TOR-SMPS)	
⚠	20	RKMX1011-K1	TOP CABINET	
⚠	21	RGRX1008AA-A	REAR PANEL	
⚠	301	RAE1034Z-V	TRAVERSE ASS'Y	
⚠	A2	K2CQ2CA00006	AC CORD	
⚠	A3	RQT9706-1M	O/I BOOK (Sp)	
⚠	PCB13	REP4800A	SMPS P.C.B.	(RTL)
⚠	PCB14	REP4800A	VOLTAGE SELECTOR P.C.B.	(RTL)
⚠	DZ5701	ERZV05Z471CS	ZNR	
⚠	S5701	K0ABCA000007	SW AC VOLTAGE SELECTOR	
⚠	L5701	G0B932H00002	LINE FILTER	
⚠	T5701	G4DYZ0000062	MAIN TRANSFORMER	
⚠	T5751	ETS19AB2E6AG	SUB TRANSFORMER	
⚠	T6000	G4DYA0000214	SWITCHING TRANSFORMER	
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	
⚠	PC5702	B3PBA0000579	PHOTO COUPLER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	
⚠	F1	K5D802BNA005	FUSE	
⚠	TH5860	D4CCY1040001	THERMISTOR	
⚠	TH5861	D4CCY1040001	THERMISTOR	
⚠	P5701	K2AA2B000011	AC INLET	
⚠	R5708	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R5709	ERJ8GEYJ155V	1.5M 1/4W	
⚠	C5700	F1BAF471A013	470pF	
⚠	C5701	F0CAF224A105	0.22uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	
⚠	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).

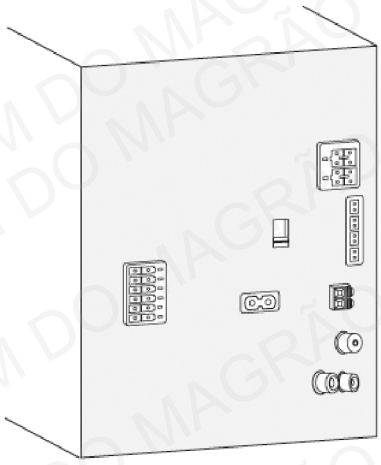
2.2. Precaution of Laser Diode

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.

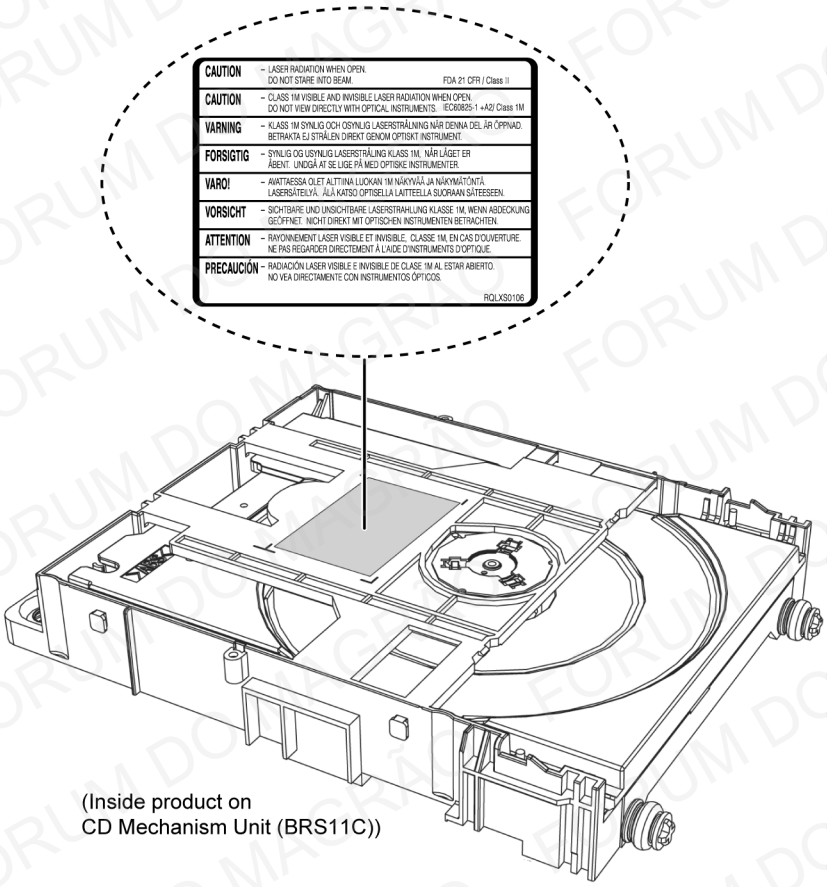
Caution:

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

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



(Back of product)



(Inside product on
CD Mechanism Unit (BRS11C))

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.

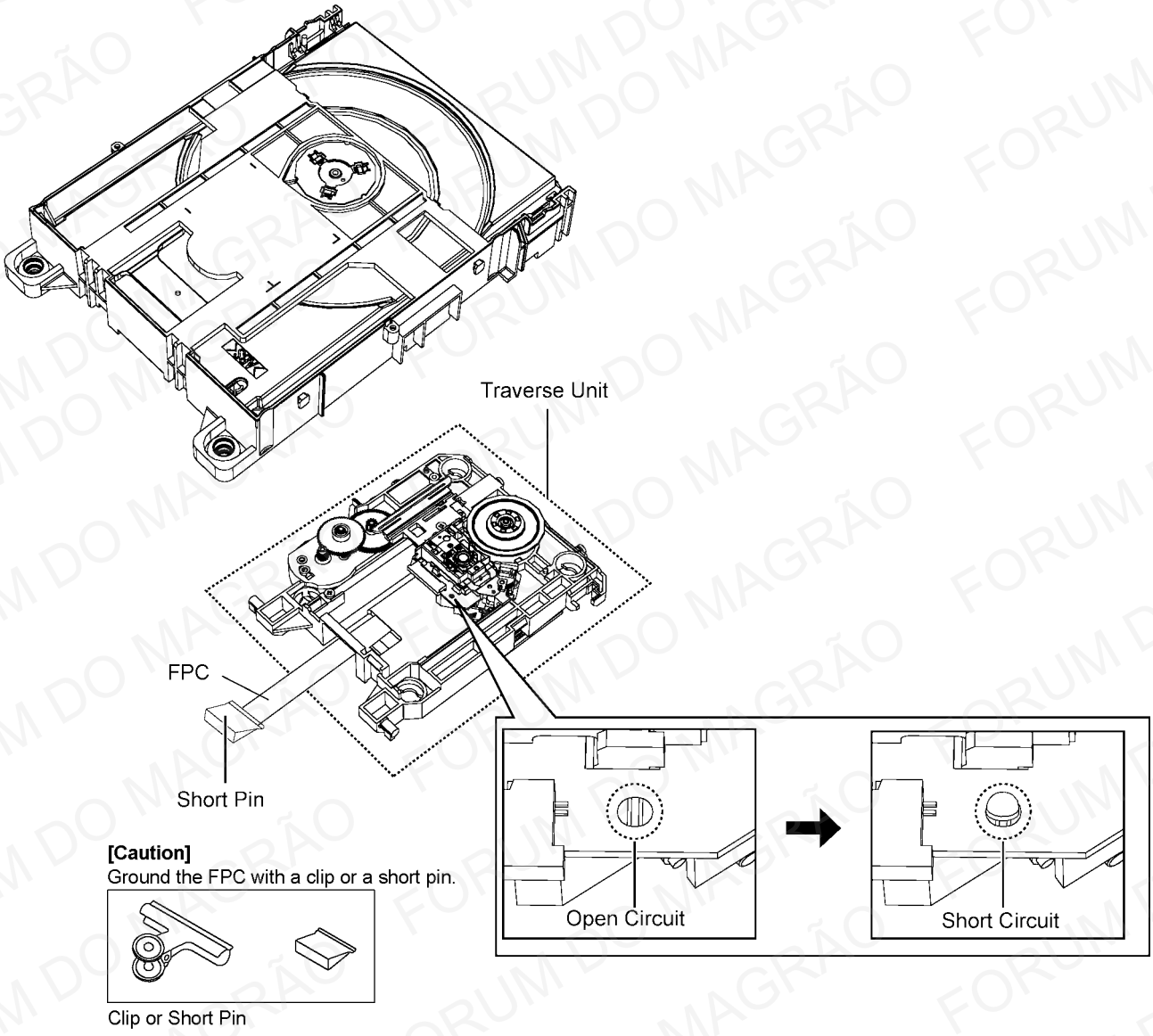


Figure A

2.4.2. Grounding for electrostatic breakdown prevention

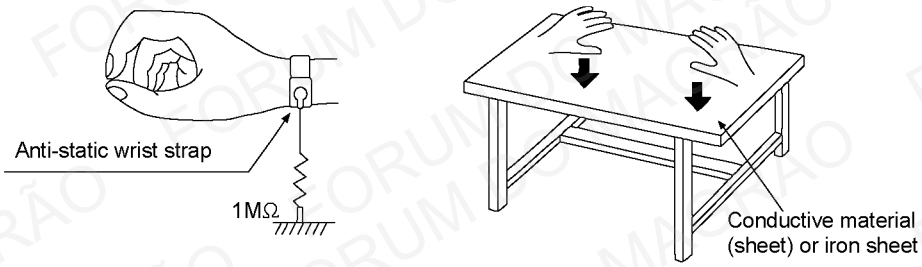
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

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 (BRS11C):**

1) This model uses CD Mechanism Unit (BRS11C).

- **Micro-processor:**

1) The following components are supplied as an assembled part.
   - Micro-processor IC, IC2003 (RFKWMAKX54M0)

- **Speaker System:**

1) This model uses Speaker System, SB-AKX105PUK.

4 Specifications

■ Amplifier section

RMS output power stereo mode

Front Hi (both ch driven)
110 W per channel (5Ω), 1 kHz, 10% THD
140 W per channel (5Ω), 1 kHz, 30% THD

Front Lo (both ch driven)
140 W per channel (4Ω), 1 kHz, 10% THD
180 W per channel (4Ω), 1 kHz, 30% THD

Surround
140 W per channel (4Ω), 1 kHz, 10% THD
180 W per channel (4Ω), 1 kHz, 30% THD

Subwoofer BTL
300 W per channel (8Ω), 100 Hz, 10% THD
400 W per channel (8Ω), 100 Hz, 30% THD

Subwoofer only
140 W per channel (4Ω), 100 Hz, 10% THD
180 W per channel (4Ω), 100 Hz, 30% THD

Total RMS stereo mode power: 1660 W (10% THD), 2160 W (30% THD)

■ Tuner, terminals section

Preset station: FM 30 stations, AM 15 stations

Frequency modulation (FM)

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

Antenna terminals: 75 Ω (unbalanced)

Amplitude modulation (AM)

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

Microphone jack

Sensitivity: 0.7 mV, 1.1 kΩ

Terminal: Mono, 3.5 mm jack (1 system)

Music port (front)

Sensitivity: 100 mV, 4.7 kΩ

Terminal: Stereo, 3.5 mm jack

Aux Input: RCA pin jack

■ Disc section

Discs played (8 cm or 12 cm): CD, CD-R/RW(CD-DA, MP3*)

Pick up

Wavelength: 790 nm(CD)

Audio output (disc)

Number of channels: 4.4 ch (FL, FR, SL, SR, SW)

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

■ Internal memory section

Memory

Memory size: 4 GB

Media file format support: MP3 (*.mp3)

Memory Recording

Bit rate: 128 kbps

Memory recording speed: 1x, 3x max (CD only)

Recording file format: MP3 (*.mp3)

Capacity of total songs recorded (use 128 kbps, approximately 1 song = 4 mins): 1000 songs

■ USB section

USB Port

USB standard: USB 2.0 full speed

Media file format support: MP3 (*.mp3)

USB device file system: FAT12, FAT16, FAT32

USB port power: 500 mA (max)

Bit rate: 16 kbps to 320 kbps (playback)

USB Recording

Bit rate: 128 kbps

USB recording speed: 1x, 3x max (CD only)

Recording file format: MP3 (*.mp3)

■ General

Power supply: AC 110 to 127/220 to 240 V, 50/60 Hz

Power consumption: 179 W

Power Consumption in standby mode: 0.3 W (approximate)

Dimensions (W x H x D): 220 mm x 334 mm x 245 mm

Mass: 3.7 kg

Operating temperature range: 0 °C to +40 °C

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

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

■ System: SC-AKX105PHK

Main Unit: SA-AKX105PHK
Speaker System: SB-AKX105PUK
Front Speakers: SB-PF94PH-K
Surround Speakers: SB-PS105PU-K
Subwoofers: SB-WAKX104PU, SB-WAKX105PU

5 General/Introduction

5.1. Media Information

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.

NOTE on USB

Compatible devices

- USB mass storage devices that support bulk-only transfer.
- USB mass storage devices that support USB 2.0 full speed.

Supported format

- Folders are defined as album.
- Files are defined as track.
- Track must have the extension ".mp3" or ".MP3".
- CBI (Control/Bulk/Interrupt) is not supported.
- NTFS file system is not supported. (only FAT 12/16/32 file system is supported).
- Some files can fail to work because of the sector size.

Note:

- Maximum album: 255 albums (include albums without MP3 tracks).
- Maximum track: 2500 tracks
- Maximum track in one album: 999 tracks

6 Location of Controls and Components

6.1. Remote Control Key Button Operation

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

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

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

❹ Select audio source

❺ Basic playback control

❻ Select the sound effects

❼ Start the title search for internal memory

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

❾ Recording operation control

❿ Set the play timer and record timer

⓫ Set the clock and timer

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

⓭ Set the program function

⓮ Adjust the volume of the system

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

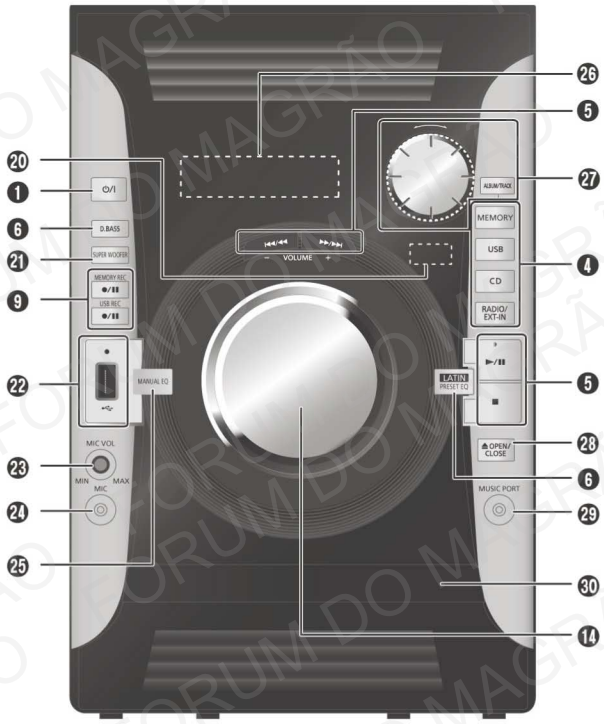
⓰ Set the play menu item
Set the radio menu item

⓱ Make playlist for internal memory

⓲ Select the option

⓳ Set the edit mode for USB or internal memory

6.2. Main Unit Key Button Operation



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

❹ Select audio source

❺ Basic playback control

❻ Select the sound effects

❾ Recording operation control

⓮ Adjust the volume of the system

⓴ Remote control sensor

㉑ Set Super Woofer function

㉒ USB port (•<)
USB recording indicator

㉓ Adjust the volume of the microphone

㉔ Microphone jack

㉕ Select the bass, mid or treble effect

㉖ Display panel

㉗ **Browse tracks or albums**

CD
Turn the knob to browse the track.
Press [►/II] to start playback from the selection.

MP3
Press [ALBUM/TRACK] to select album or track and then turn the knob to browse.
Press [►/II] to start playback from the selection.

㉘ Open or close the disc tray

㉙ Music port jack

㉚ Disc tray

7 Installation Instructions

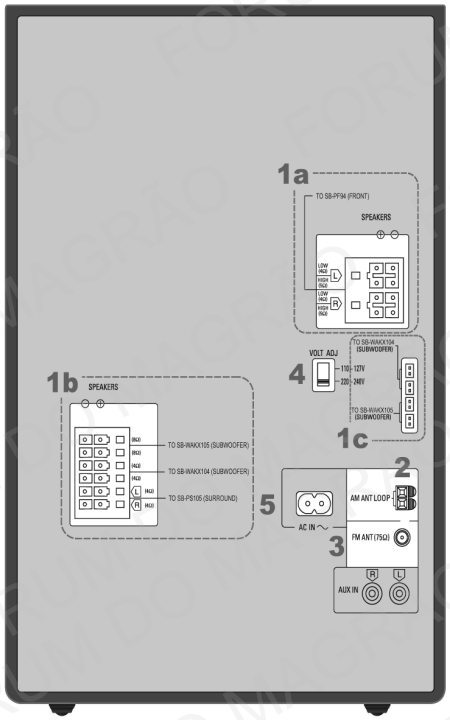
7.1. Speaker and A/C Connection

Making the connections

Conserving power

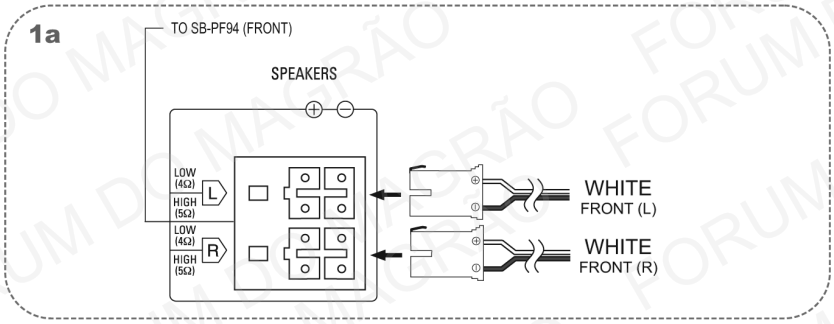
The system consumes approximately 0.3 W when it is in standby mode. Disconnect the power supply if you do not use the system.

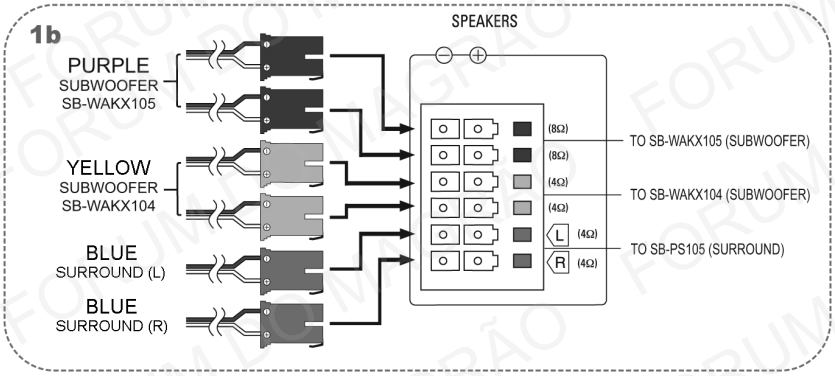
Some settings will be lost after you disconnect the system. You have to set them again.

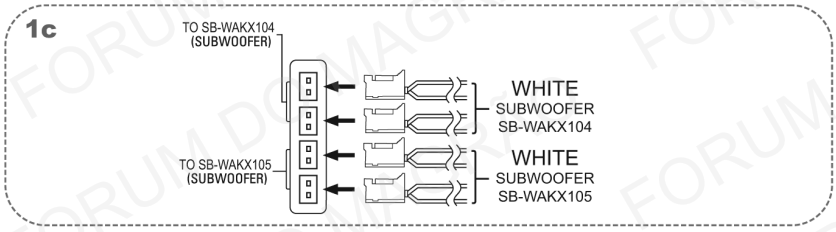


1 Connect the speakers and subwoofer.

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

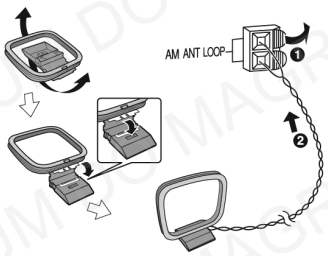






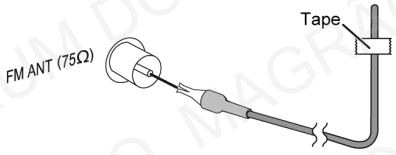
2 Connect the AM loop antenna.

Stand the antenna up on its base until it clicks.

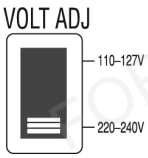


3 Connect the FM indoor antenna.

Place the antenna where reception is best.

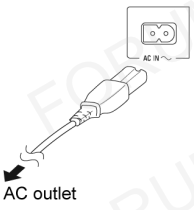


4 Set the voltage.



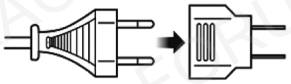
Use a flat-head screwdriver to set the voltage selector to the AC voltage in your area.

5 Connect the AC power supply cord.



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

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



Use the supplied AC power supply cord with this system only.
Do not use an AC power supply cord from other equipment.

8 Service Mode

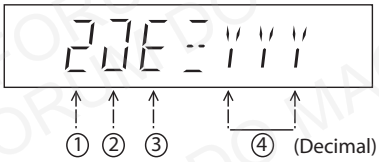
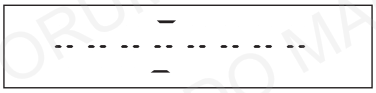
8.1. Cold-Start

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

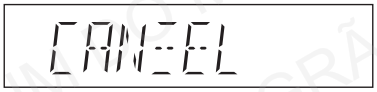
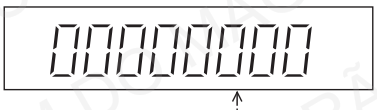
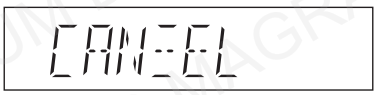
1. Unplug AC power cord
2. Press & hold [POWER] button
3. Plug AC power cord while [POWER] button being pressed
   FL Display will show “_ _ _ _ _ _ _ _”
4. Release [POWER] button

8.2. Doctor Mode Table

8.2.1. Doctor Mode Table 1

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

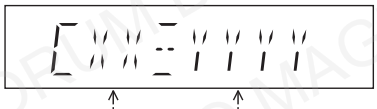
8.2.2. Doctor Mode Table 2

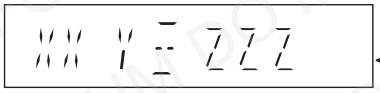
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Volume Setting Check	To check the volume setting of a main unit.	 Press [7]: VOL50 Press [8]: VOL35 Press [9]: VOL0 Volume	In Doctor Mode : 1. Press [7], [8], [9] button on remote control.
FL Display Check	To check the FL segment display All segment will light up while all LED blink at 0.5s,intervals.(if any)		In Doctor mode : 1. Press [1] button on remote control. 2. To cancel, press [0] on remote control.
BRS11C Reliability Test (Traverse)	To determine CD Mechanism BRS11C Access Inner & Outer disc operation. In this mode,ensure the CD is in the main unit. Note: Refer to Section 8.3 Fig 2. for process flow .	 The counter will increment by one . When reach 9999 will change to 0000 Cancellation Display 	In Doctor Mode : 1. Press [10]→[1]→[2] button on remote control. 2. To cancel, press [0] on remote control.
BRS11C Reliability Test (Combination)	To determine CD Mechanism Unit (BRS11C) Open/Close & Access Inner & Outer Disc Operation. In this mode,ensure the CD is in the main unit. Note: Refer to Section 8.3 Fig 3. for process flow .	 The counter will increment by one . When reach 9999 will change to 0000 Cancellation Display 	In Doctor Mode : 1. Press [10]→[1]→[5] button on remote control. 2. To cancel, press [0] on remote control.
BRS11C Reliability Test (Loading)	To determine CD Mechanism Unit (BRS11C) Open/Close operation. In this mode, the tray will open & close. Note: Refer to Section 8.3 Fig 1 for process flow .	 The counter will increment by one . When reach 9999 will change to 0000 Cancellation Display 	In Doctor Mode : 1. Press [10]→[2]→[1] button on remote control. 2. To cancel, press [0] on remote control.

8.2.3. Doctor Mode Table 3

<table>
<tr><th colspan="2">Item</th><th rowspan="2">FL Display</th><th>Key Operation</th></tr>
<tr><th>Mode Name</th><th>Description</th><th>Front Key</th></tr>
<tr><td>CD
Self- Adjustment
(AJST)
Result Display</td><td>i. Function: To display result of self-adjustment for CD .
• This is used for servicing and analysis.</td><td> 
Display of auto adjustment result

Reference table:
<table><tr><th>ERROR Code / Status Condition</th><th>0</th><th>1</th><th>2</th><th>4</th><th>6</th><th>8</th><th>A</th><th>C</th><th>E</th><th>F</th></tr><tr><td>AOC1/AOC2</td><td>O</td><td>※</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>-</td></tr><tr><td>ABC2/ABC1</td><td>O</td><td>-</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>O</td><td>X</td><td>-</td></tr><tr><td>2nd AOC1</td><td>O</td><td>-</td><td>O</td><td>X</td><td>X</td><td>O</td><td>O</td><td>X</td><td>X</td><td>-</td></tr><tr><td>FAGC/T AGC</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>X</td><td>X</td><td>X</td><td>X</td><td>-</td></tr><tr><td>AGC2</td><td>O</td><td>-</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>△</td></tr></table>O: OK ;
X: NG (In case that time out happens.)
※ Either one of FO AOC, TR AOC and FO coarse AGC is NG .
△: If the AGC is NG (ignore others).</td><td>In Doctor Mode:
1. Press [10]→[1]→[4] button on remote control .

2. To cancel, press [0] on remote control .</td></tr>
<tr><td>CD LSI
Ve rsion Check</td><td>For checking CD LSI Version and checksum information.</td><td> 
Version (Decimal) C hecksum (Hex)

(Display 1)
 
ROM Version
after 2 sec
(Display 2)
 
Year Develop ROM Type Version (Decimal)</td><td>In Doctor Mode :
1. Press [4] button on remote control .

2. To cancel, press [0] on remote control .</td></tr>
</table>

8.3. Reliability Test Mode (CD Mechanism Unit (BRS11C))

Below is the process flow chart of the aging test for the CD Mechanism Unit (BRS11C).

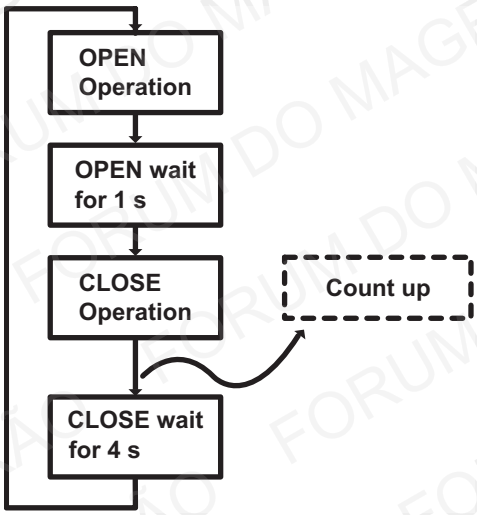


Fig. 1. Reliability Test (Loading)

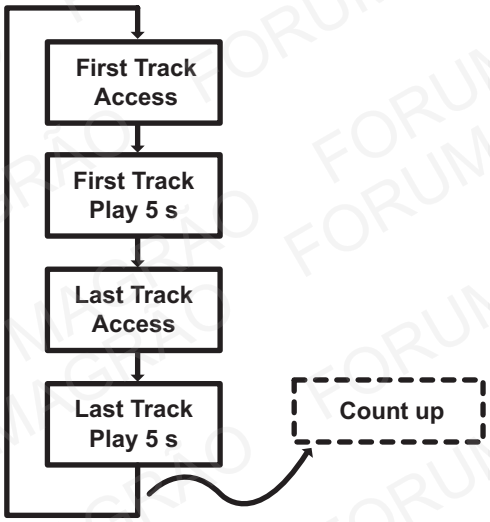


Fig. 2. Reliability Test (Traverse)

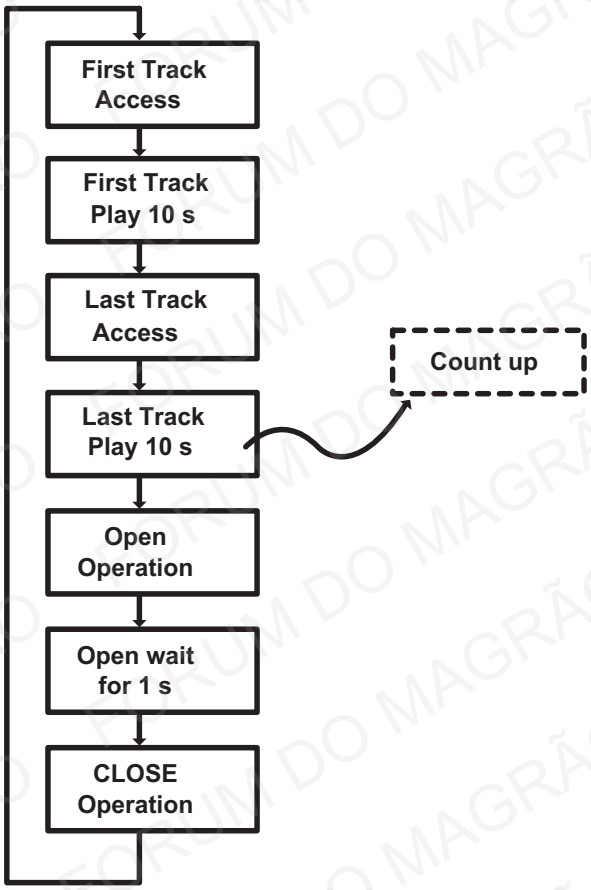


Fig. 3. Reliability Test (Combination)

8.4. Self-Diagnostic Mode

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

8.5. Self-Diagnostic Error Code Table

Self-Diagnostic Function (Refer Section 8.4. 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.

8.5.1. 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, PCONT=HIGH, DC_DET_AMP after checking LSI.		Press [■] on main unit for next error.
F76		DC_DET_PWR		
F61-76		Both DCDET (NG)		
F26		Communication between CD servo LSI and micro-P abnormal (iPod, Radio, USB)		

8.5.2. CD Mechanism Error Code Table (CD Mechanism Unit (BRS11C))

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

8.6. Sales Demonstration Lock Function

8.6.1. Entering into sales Demo Mode

Here is the procedures to enter into Sales Demonstration Lock.
Step 1: Turn on the unit.
Step 2: Select to any mode function.
Step 3: Press [⏏OPEN/CLOSE] key then [▶/❚❚] key at the same time,press and hold both [⏏OPEN/CLOSE] and [▶/❚❚] keys for 5 sec.
Step 4: The display will show upon entering into this mode for 2 sec..

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

8.6.2. Cancellation

Step 1: Turn on the unit.
Step 2: Select to any mode function.
Step 3: Press [⏏OPEN/CLOSE] key then [▶/❚❚] key at the same time,press and hold both [⏏OPEN/CLOSE] and [▶/❚❚] keys for 5 sec.
Step 4: The display will show upon entering into this mode for 2 sec..

9 Troubleshooting Guide

9.1. Part Location

9.1.1. SMPS P.C.B.

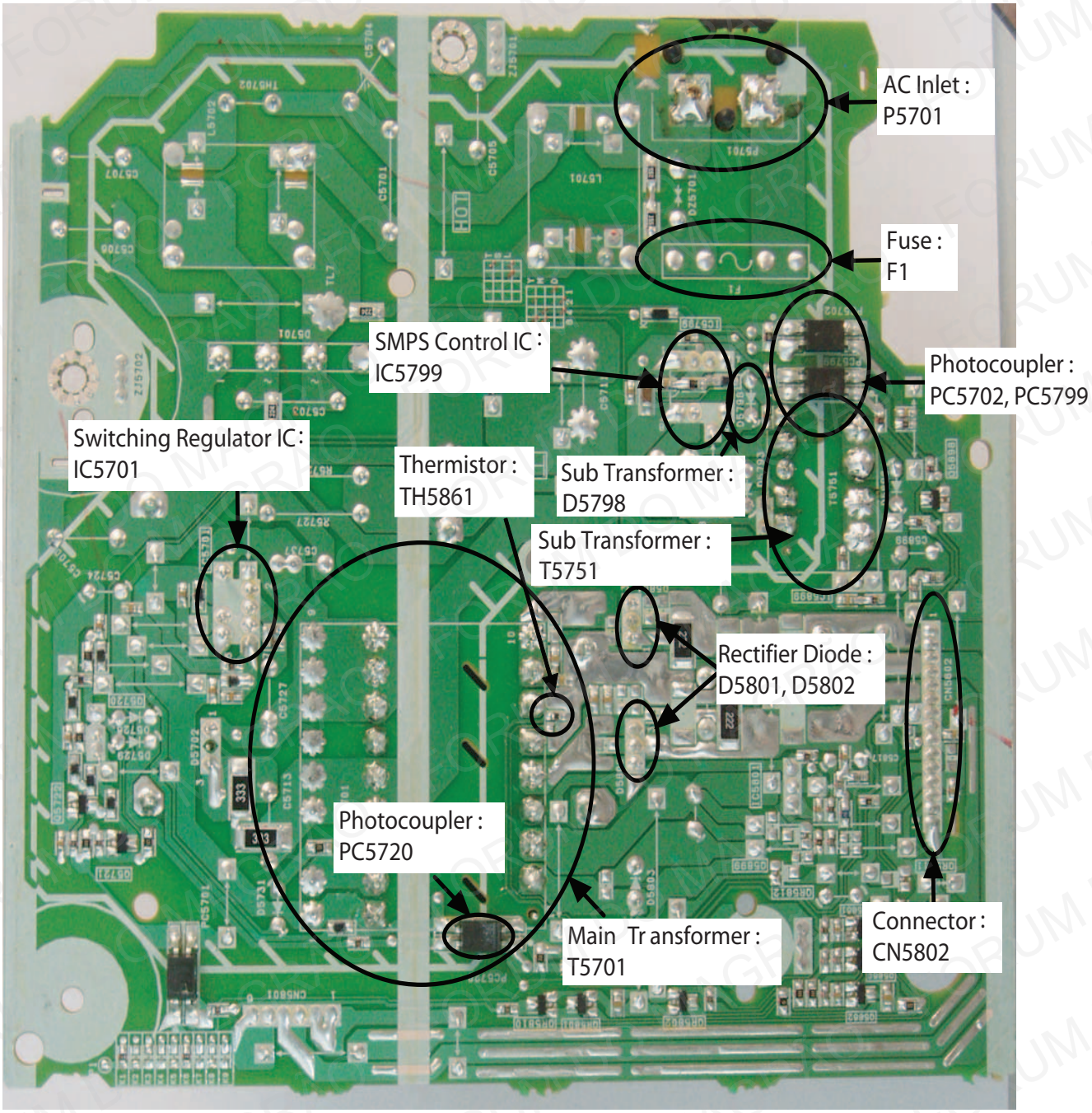


Fig. 1 SMPS P.C.B.

9.1.2. Main P.C.B. (Front Side)

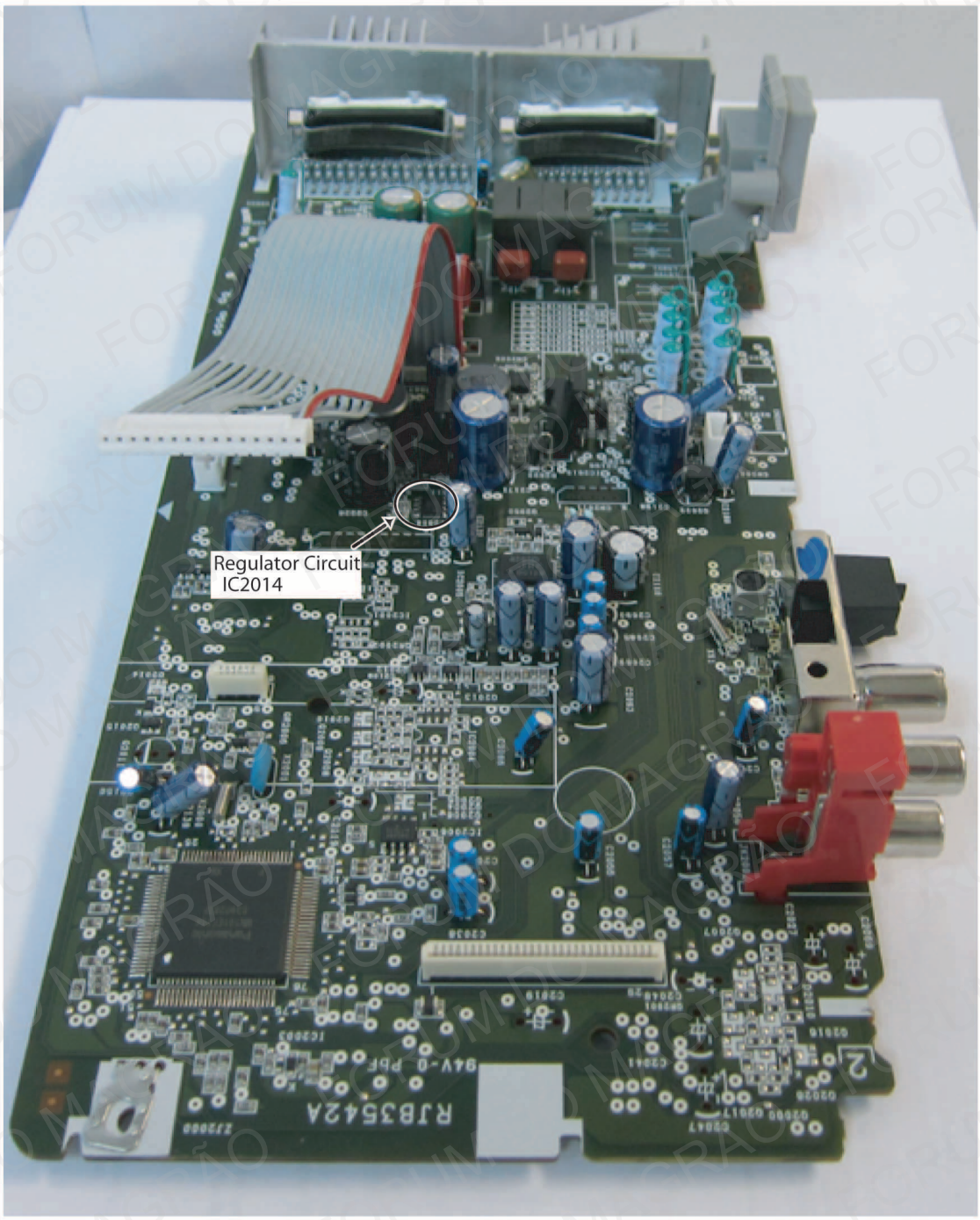


Fig. 2 Main P.C.B. (Front Side)

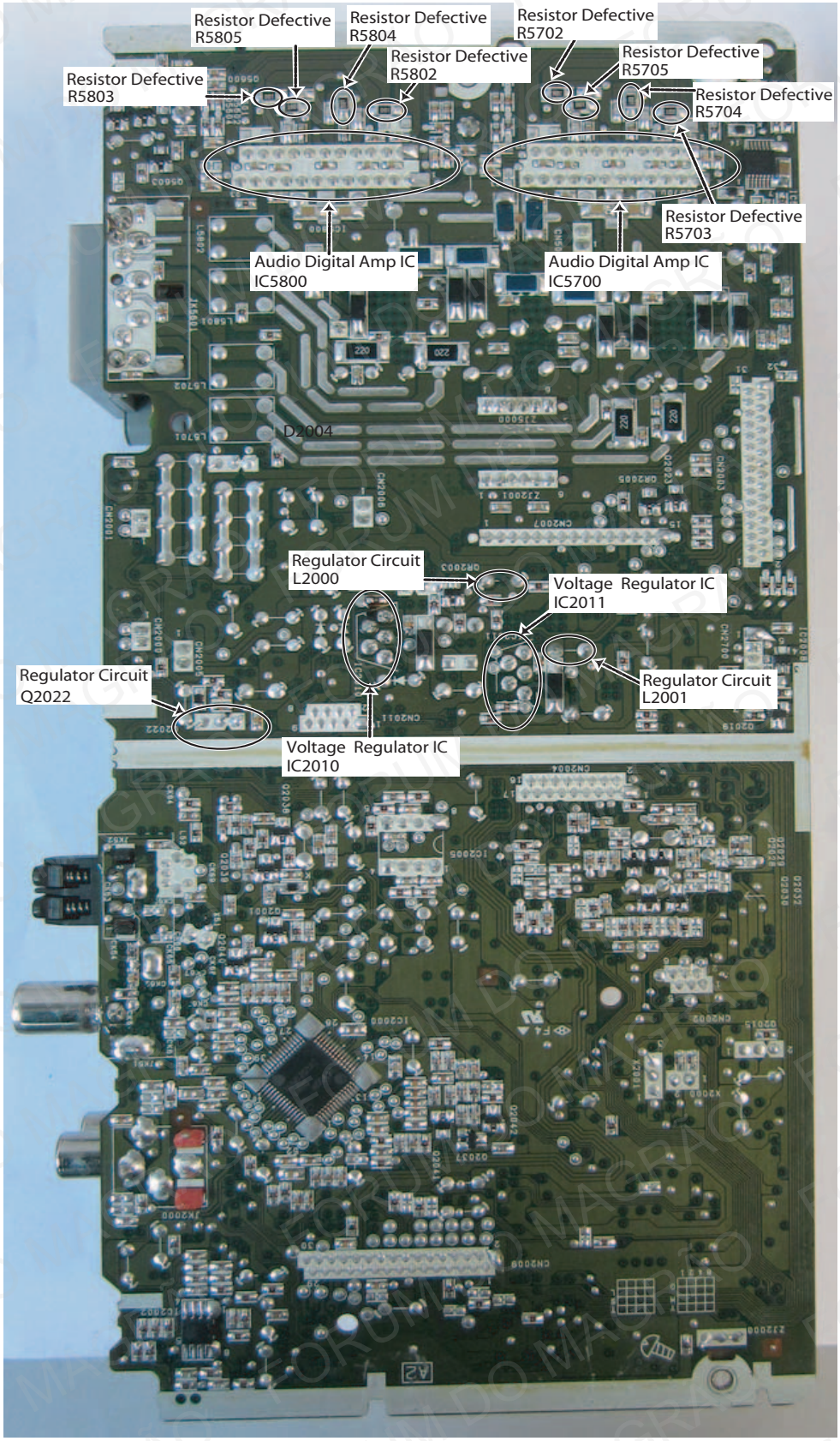


Fig. 3 Main P.C.B. (Back Side)

9.1.3. D-AMP P.C.B.

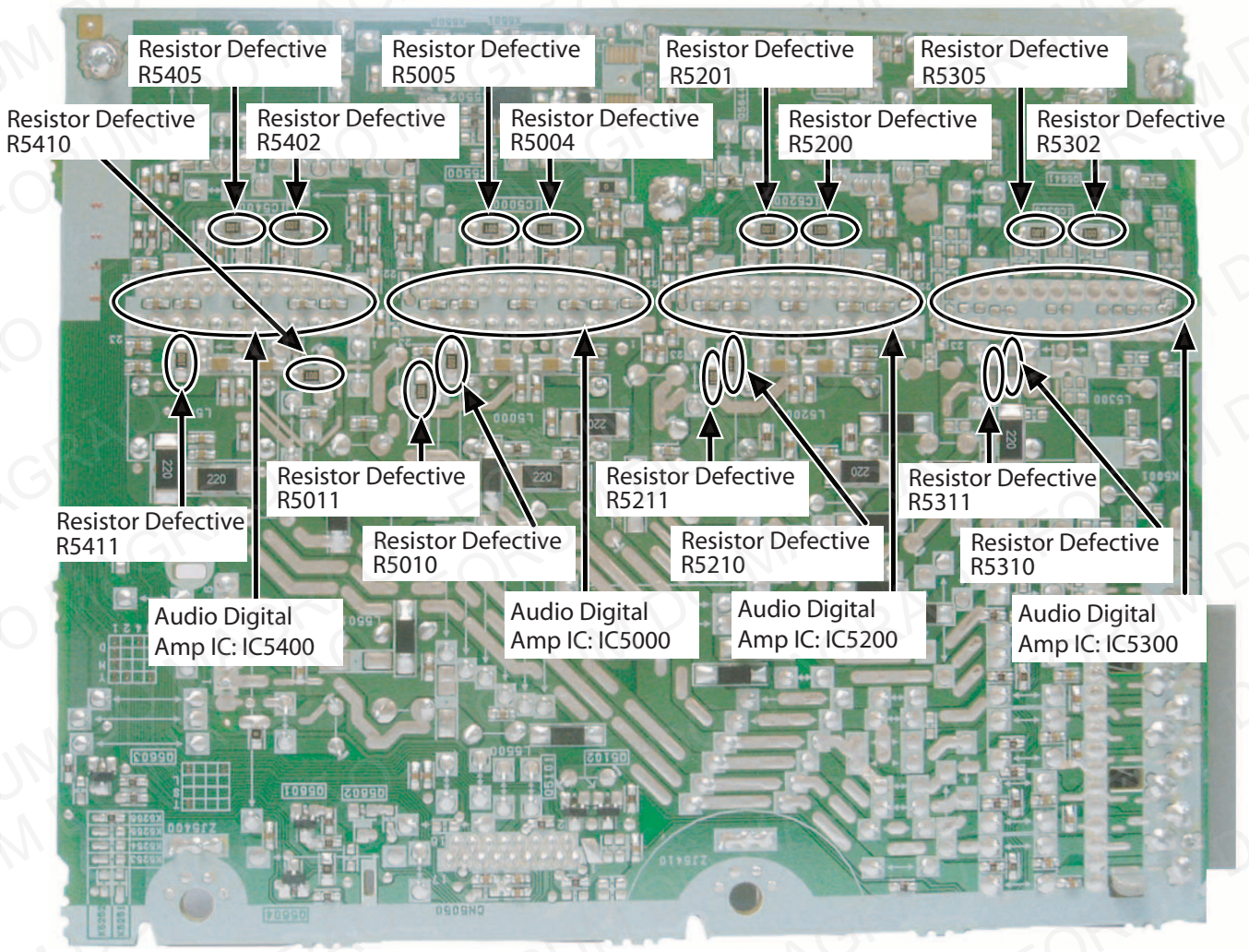


Fig. 4 D-Amp P.C.B.

9.2. Troubleshooting Guide for F61 and/or F76

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

Symptom		Checking Items		Possible Fault(s)	Remarks
Set cannot ON	1	AC Cord	1	AC Cord Faulty, Loose connection.	Refer to Section 9.1.1 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 Regulator	5	IC5701 Faulty.	
		IC, IC5701			
	6	Main Transformer T5751	6a	T5751 Faulty.	
			6b	Switching Mode Power Supply Control IC (IC5799) faulty.	
			6c	D5798 faulty.	
Set can ON then F61	1	Speaker Output	1	Faulty speaker unit, Loose connection, Short.	Refer to Section 9.1.2 Fig. 3. Main P.C.B. and Section 9.1.3 Fig. 4. D-Amp P.C.B.
	2	D-AMP circuit	2a	D-AMP IC, IC5700, IC5800, IC5000, IC5200, IC5300, IC5400 defective.	
				(Check DC voltage at speaker terminals, 3V and above defective)	
			2b	DC Voltage ok but no sound, check DC Voltage at Pin 1.	
				5V ok condition, 2.5V or 0V defective.	
			2c	2a, 2b ok but no sound, check PWM waveform at Pin 10 and Pin 14 .	
				If no PWM, 24 resistors defective.	
				For IC5700 (R5702, R5703, R5704, R5705).	
				For IC5800 (R5802, R5803, R5804, R5805).	
				For IC5000 (R5004, R5005, R5010, R5011).	
				For IC5400 (R5402, R5405, R5410, R5411).	
				For IC5200 (R5200, R5201, R5210, R5211).	
				For IC5300 (R5302, R5305, R5310, R5311).	
Set can ON then F76	1	Main Transformer T5701	1a	Short circuit between Pin 11 and Pin 12 .	Refer to Section 9.1.1 Fig. 1. SMPS P.C.B.
			1b	Short circuit between Pin 13 and Pin 14 .	
			1c	Short circuit between Pin 16 and Pin 17 .	
	2	Regulator Circuits	2a	IC2010 faulty (No +9V output).	Refer to Section 9.1.2 Fig. 2. and Fig.3. Main P.C.B.
			2b	L2000 Open.	
			2c	Q2022 faulty (No +5V output).	
			2d	IC2014 faulty (No +3.3V output).	
			2e	IC2011 faulty (No +5V output).	
			2f	L2001 Open.	
	3	Photocoupler	3	PC5720 solder crack,	Refer to Section 9.1.1 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 Diode D5801	1a	Improper contact between D5801 to Heatsink.	Refer to Section 9.1.1 Fig. 1. SMPS P.C.B.
		Rectifier Diode D5802		Improper contact between D5802 to Heatsink.	
	2	Thermistor TH5860,	1b	Set trigger temperature protection.	
		TH5861			

9.3. D-Amp IC Operation & Control

D-AMP IC Operation & Control

1) D-AMP IC (C1BA00000497) was used for this model (AKX105).
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	H	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	H	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.

10 Service Fixture & Tools

Prepare service tools before process service position.

Ref. No	Service Tools		Remarks
SFT1	Main P.C.B. (CN2007) - SMPS P.C.B. (CN5802)	REX1527(15P Cable Wire)	

11 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)**

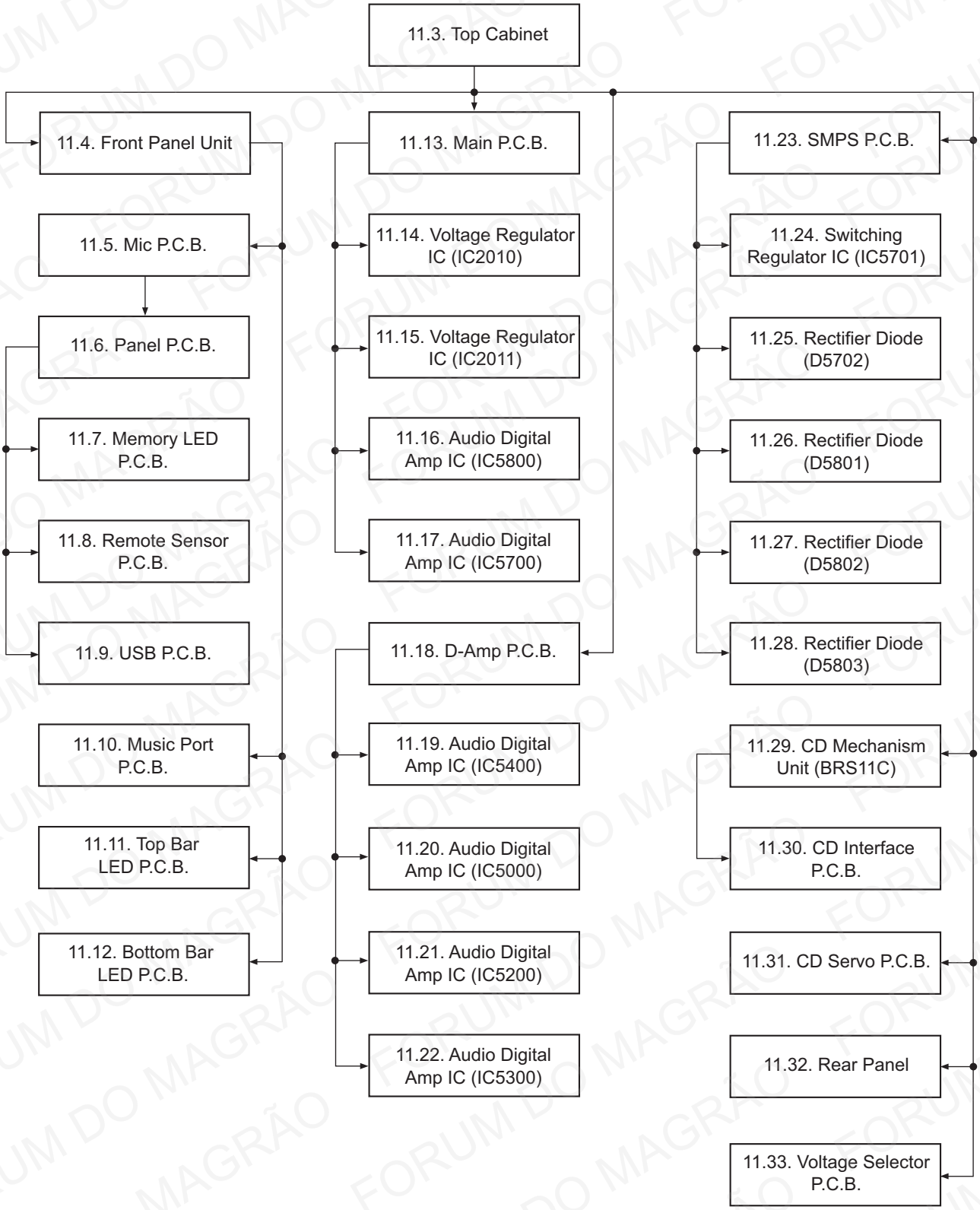
- **During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.**
- **During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.**
- **Select items from the following indexes when disassembly or replacement are required.**
- Disassembly of Top Cabinet
- Disassembly of Front Panel Unit
- Disassembly of Mic P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of Memory LED P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Music Port P.C.B.
- Disassembly of Top Bar LED P.C.B.
- Disassembly of Bottom Bar LED P.C.B.
- Disassembly of Main P.C.B.
- Replacement of Voltage Regulator (IC2010)
- Replacement of Voltage Regulator (IC2011)
- Replacement of Audio Digital Amp IC (IC5800)
- Replacement of Audio Digital Amp IC (IC5700)
- Disassembly of D-Amp P.C.B.
- Replacement of Audio Digital Amp (IC5400)
- Replacement of Audio Digital Amp (IC5000)
- Replacement of Audio Digital Amp (IC5200)
- Replacement of Audio Digital Amp (IC5300)
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5702)
- Replacement of Rectifier Diode (D5801)
- Replacement of Rectifier Diode (D5802)
- Replacement of Rectifier Diode (D5803)
- Disassembly of CD Mechanism Unit (BRS11C)
- Disassembly of CD Interface P.C.B.
- Disassembly of CD Servo P.C.B.
- Disassembly of Rear Panel
- Disassembly of Voltage Selector P.C.B.

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

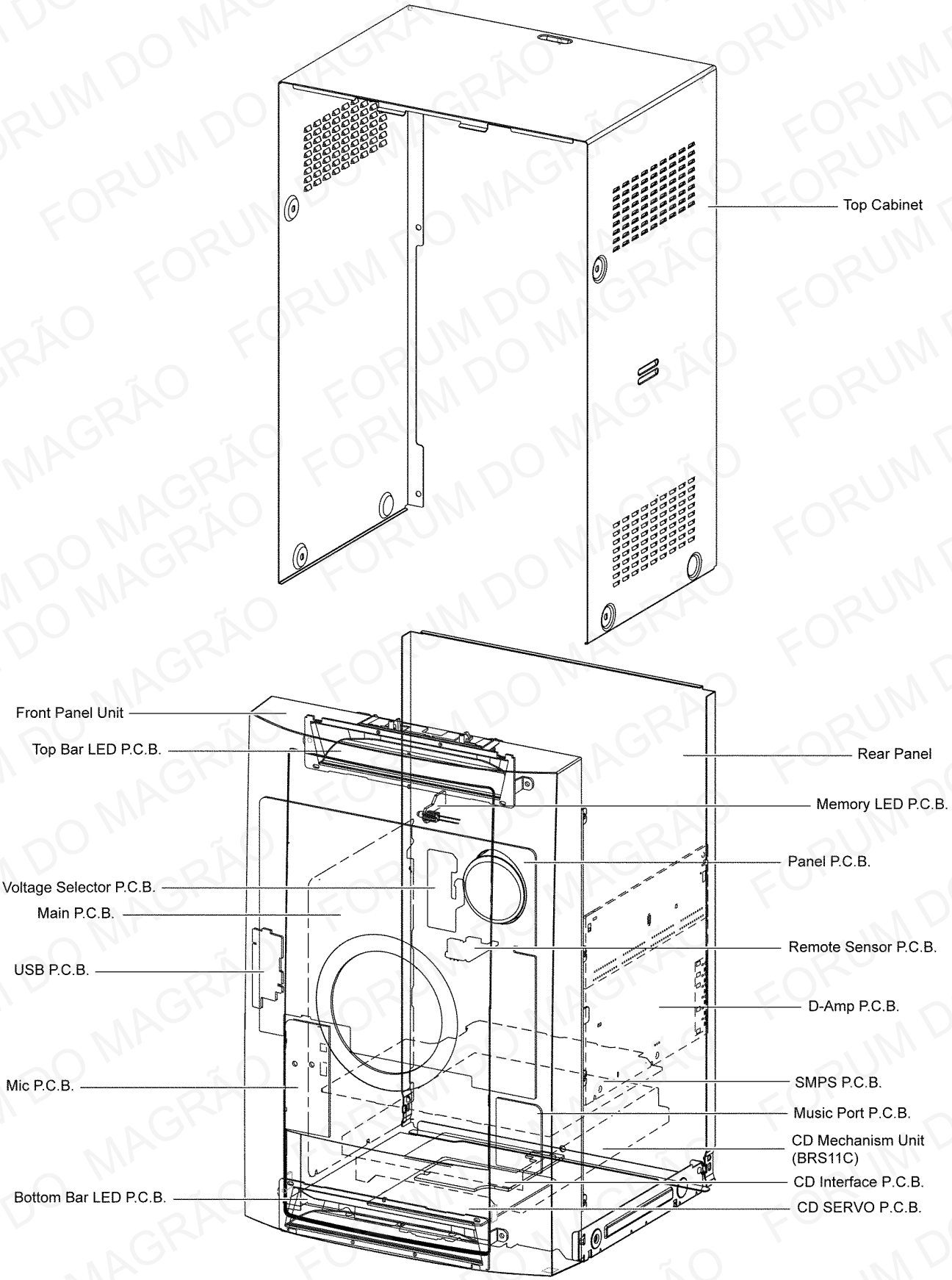
Below shown is part no. of different screw types used:

- ⓐ :RHD30007-K2J
- ⓑ :RHD30119-S
- ⓒ :RHD26046-L
- ⓓ :RHD30111-31
- ⓔ :XTB3+10JFJ
- ⓕ :RHDX30005-J
- ⓖ :RHDX031008
- ⓗ :XTN2+6GFJ
- ⓘ :XTW3+8TFJ

11.1. Disassembly Flow Chart

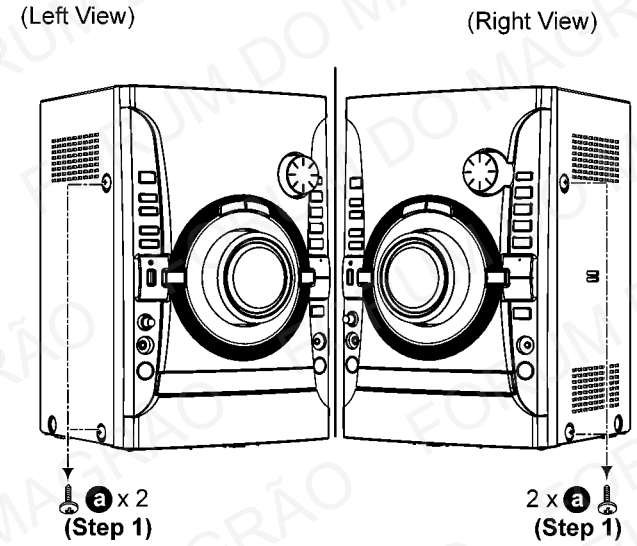


11.2. Main Components and P.C.B. Locations



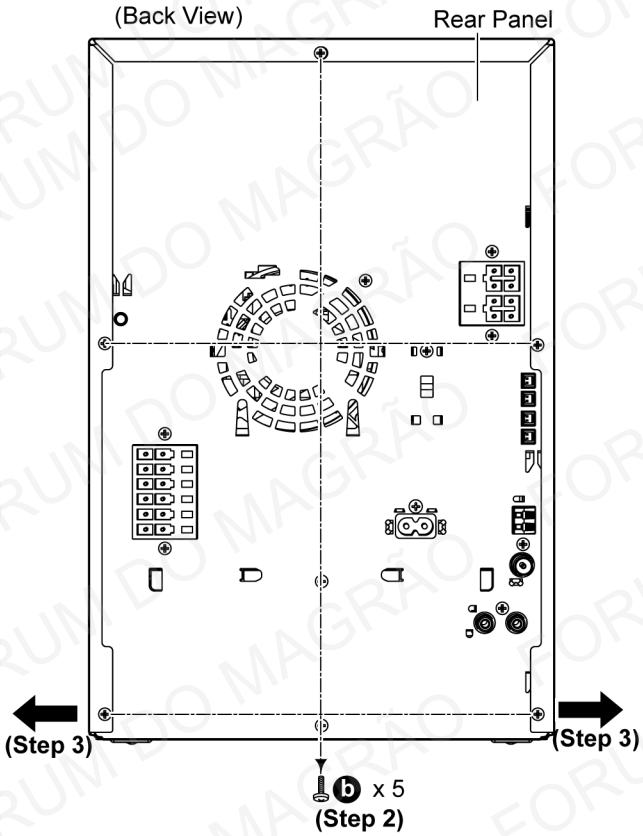
11.3. Disassembly of Top Cabinet

Step 1 Remove 2 screws on each side.



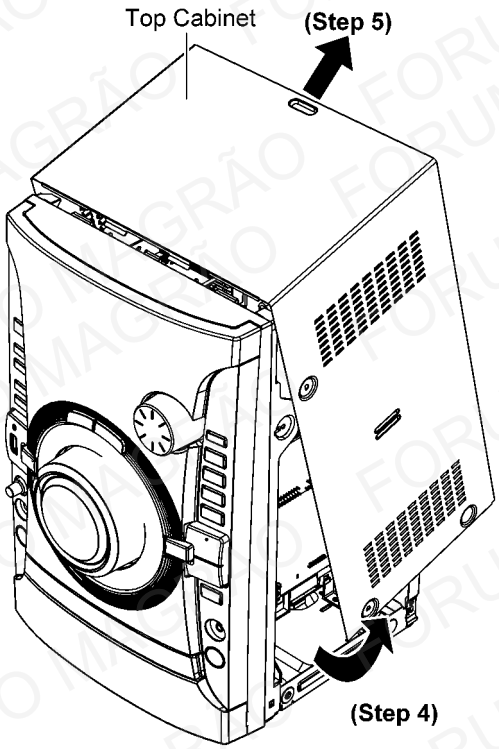
Step 2 Remove 5 screws.

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

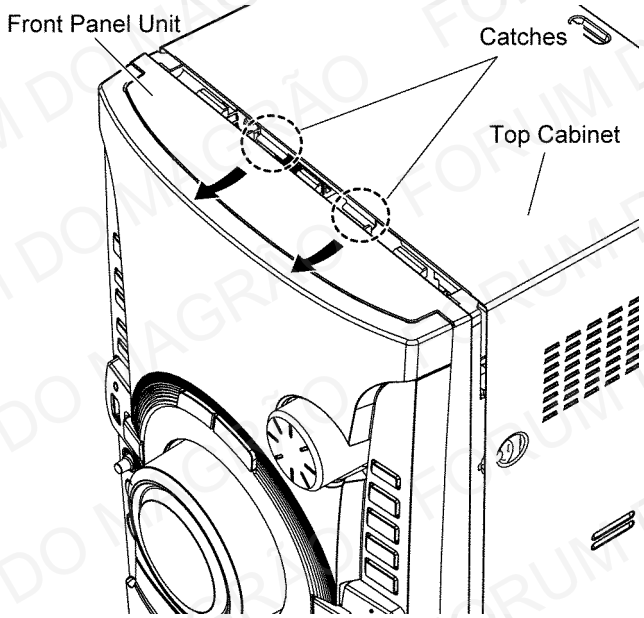


Step 4 Slightly lift up both side of Top Cabinet in an outward direction as shown.

Step 5 Remove the Top Cabinet.



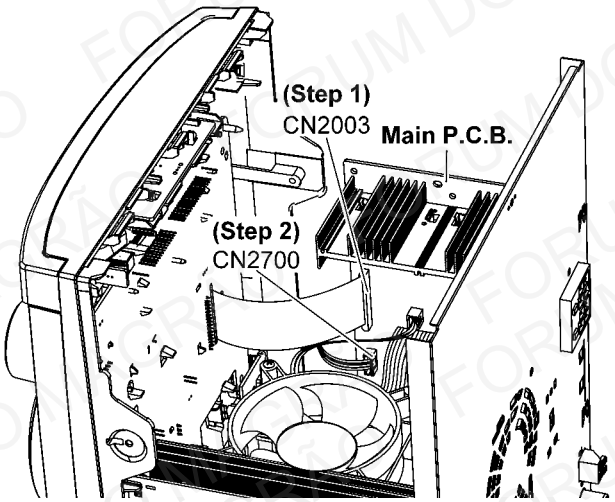
Caution: During assembling, ensure that the catches of the Top Cabinet catches are properly located & inserted into the Front Panel Unit as shown.



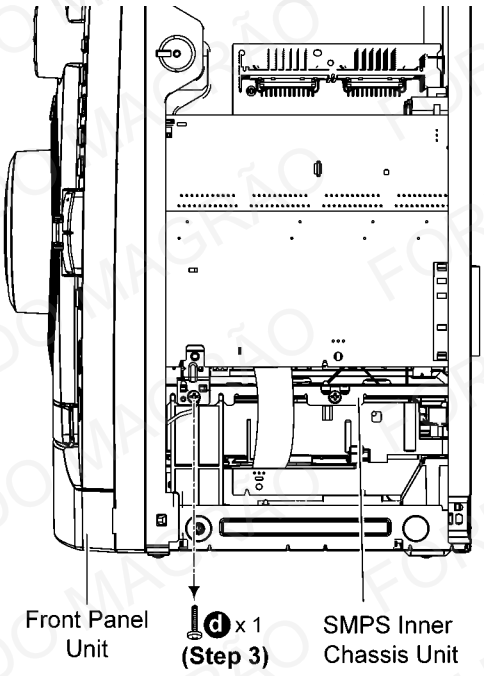
11.4. Disassembly of Front Panel Unit

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

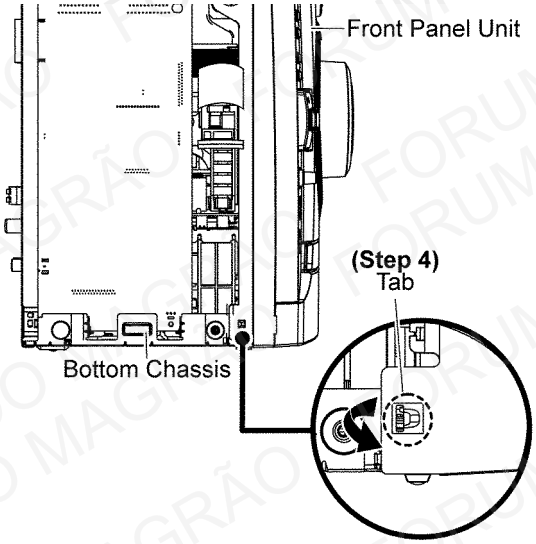
Step 1 Detach 27P FFC at the connector (CN2003) on Main P.C.B.
Step 2 Detach 5P Cable Wire at the connector (CN2700) on Main P.C.B.



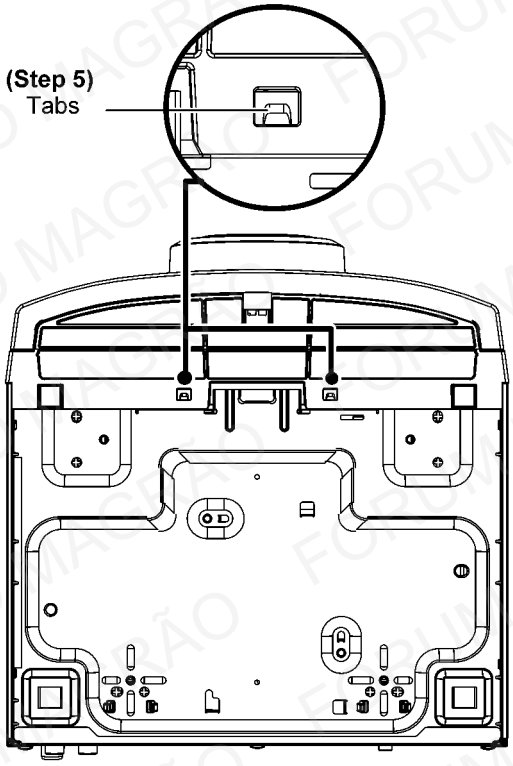
Step 3 Remove 1 screw at the SMPS Inner Chassis Unit.



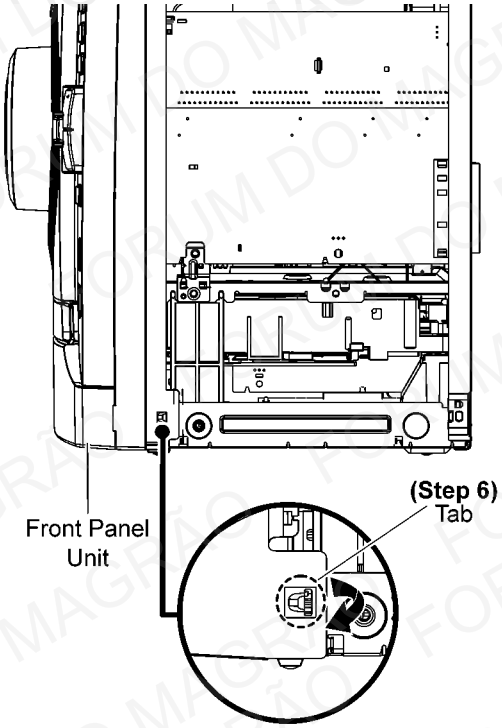
Step 4 Push inwards slightly at the Bottom Chassis as arrow shown and release tab at left side of the Front Panel Unit.



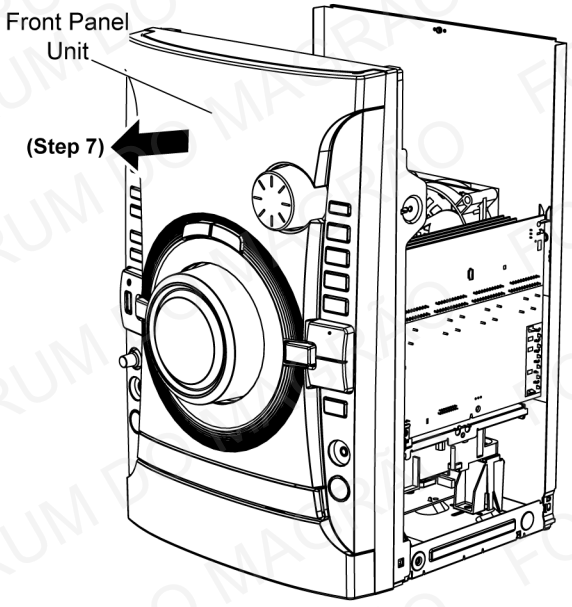
Step 5 Release tabs at the bottom of the unit.



Step 6 Push inwards slightly at the Bottom Chassis and release tab at right side of the Front Panel Unit.



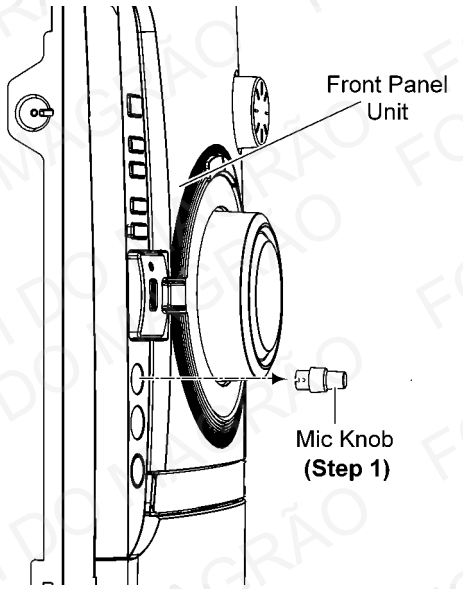
Step 7 Remove the Front Panel Unit



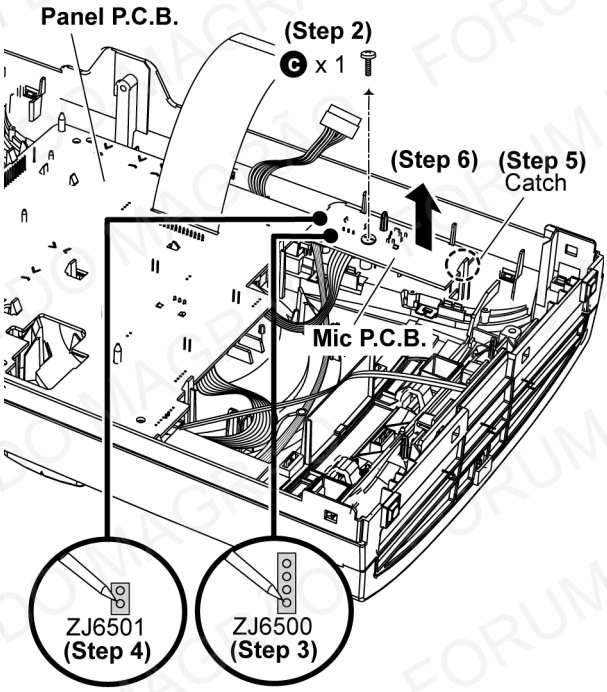
11.5. Disassembly of Mic P.C.B.

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

Step 1 Remove the Mic knob.



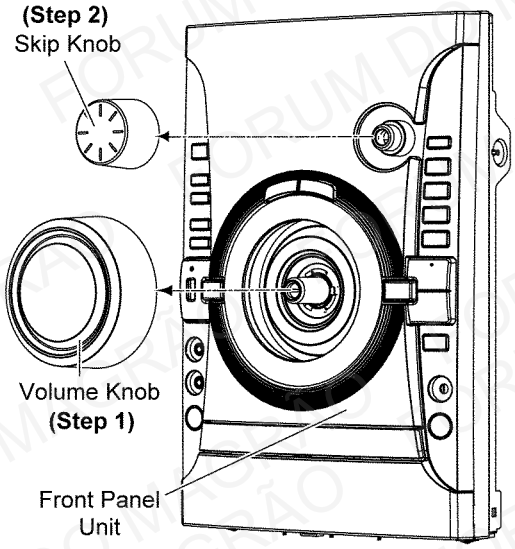
Step 2 Remove 1 screw at the Mic P.C.B..
Step 3 Desolder 4P Cable Wire at the connector (ZJ6500) on the Mic P.C.B..
Step 4 Desolder 2P Cable Wire at the connector (ZJ6501) on the Mic P.C.B..
Step 5 Release 1 catch.
Step 6 Remove the Mic P.C.B..



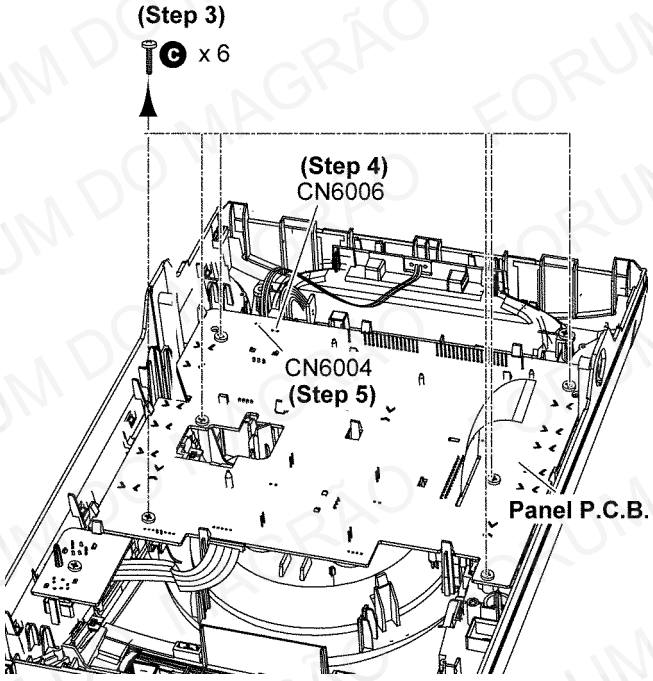
11.6. Disassembly of Panel P.C.B.

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

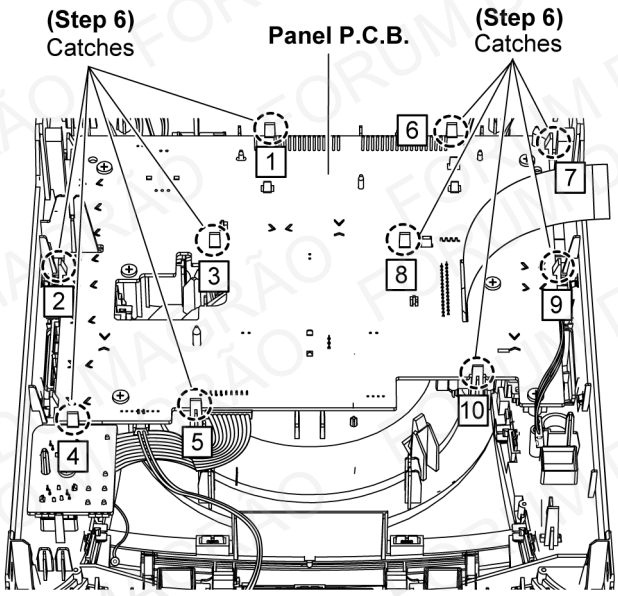
Step 1 Remove the Volume Knob.
Step 2 Remove the Skip Knob.



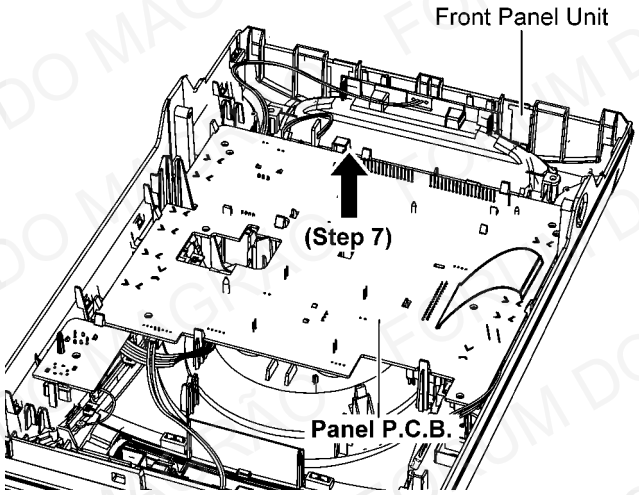
Step 3 Remove 6 screws.
Step 4 Detach 2P Cable Wire at the connector (CN6006) on the Panel P.C.B..
Step 5 Detach 2P Cable Wire at the connector (CN6004) on the Panel P.C.B..



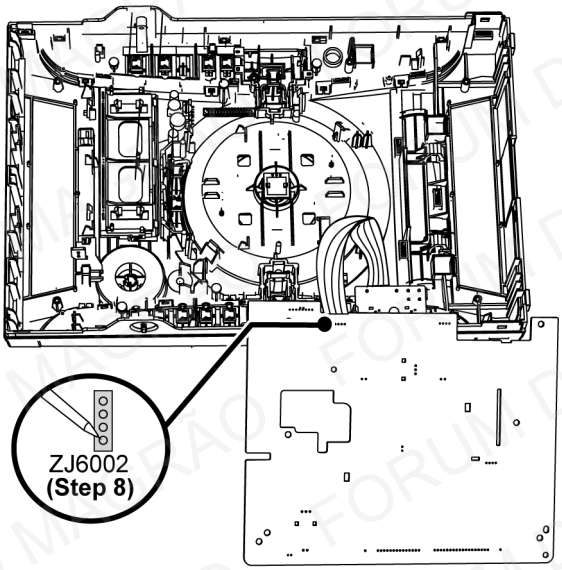
Step 6 Release catches by following the sequences (1-10).



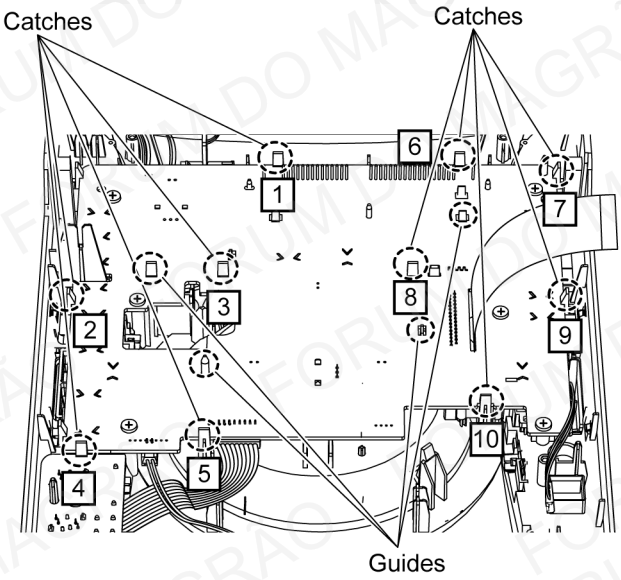
Step 7 Lift up to remove the Panel P.C.B..



Step 8 Desolder 4P Cable Wire at the connector (ZJ6002) on the Panel P.C.B..



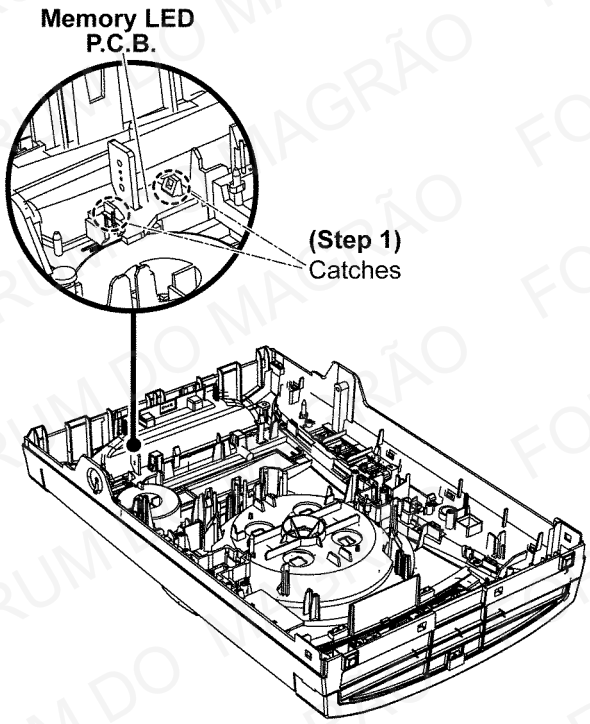
Caution: During assembling, ensure that the Panel P.C.B. is seated properly through the guides & fully catched.



11.7. Disassembly of Memory LED P.C.B.

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Mic P.C.B.".**
- **Refer to "Disassembly of Panel P.C.B.".**

Step 1 Release 2 catches.

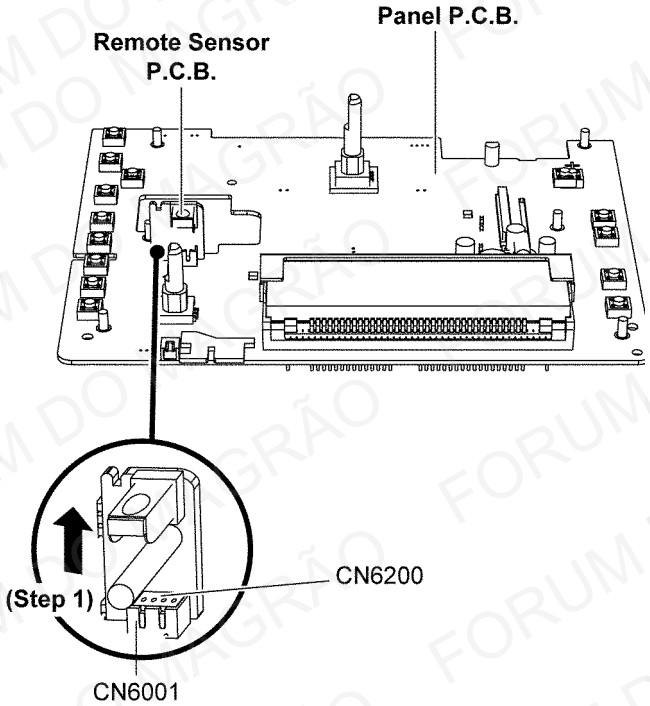


11.8. Disassembly of Remote Sensor P.C.B.

- **Refer to "Disassembly of Top Cabinet".**
- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of Mic P.C.B.".**
- **Refer to "Disassembly of Panel P.C.B.".**

Step 1 Remove the Remote Sensor P.C.B..

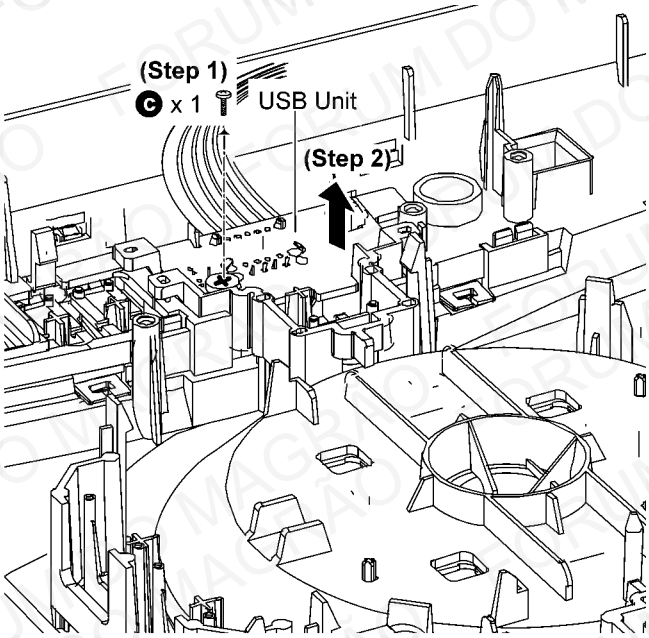
Caution: During assembling, ensure that the Remote Sensor P.C.B. is properly inserted & fully connected to the Panel P.C.B..



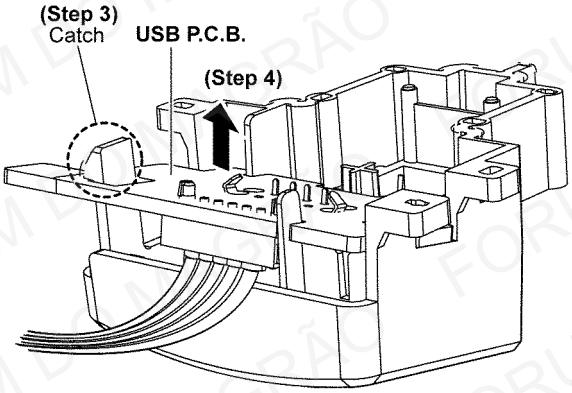
11.9. Disassembly of USB P.C.B.

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

Step 1 Remove 1 screw.
Step 2 Remove the USB Unit.



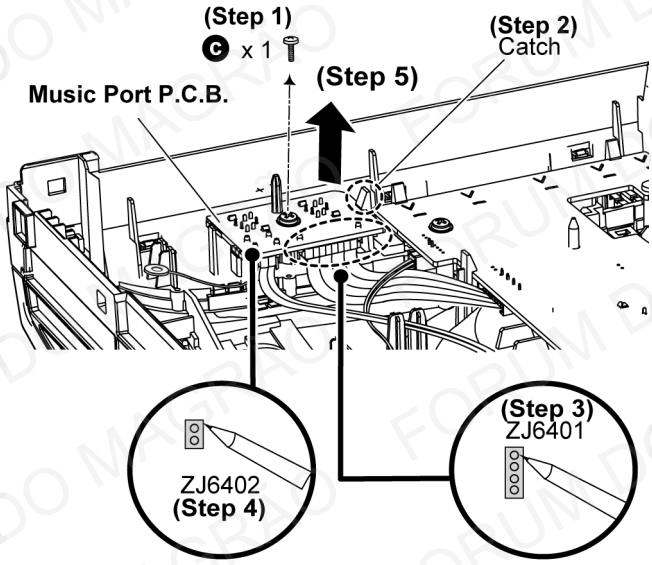
Step 3 Release 1 catch.
Step 4 Remove the USB P.C.B..



11.10. Disassembly of Music Port P.C.B.

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

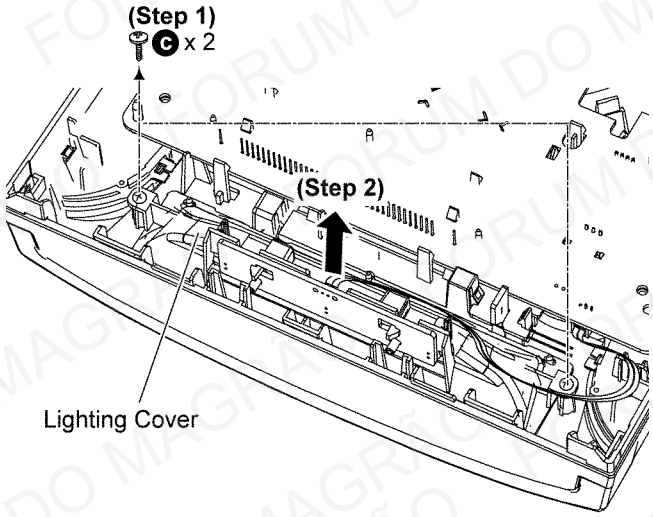
Step 1 Remove 1 screw.
Step 2 Release 1 catch.
Step 3 Desolder 4P Cable Wire at (ZJ6401) on the Music Port P.C.B..
Step 4 Desolder 2P Cable Wire at (ZJ6402) on the Music Port P.C.B..
Step 5 Remove the Music Port P.C.B..
Caution: During assembling, ensure that the Music Port P.C.B. is properly located & fully catched onto the Front Panel Unit.



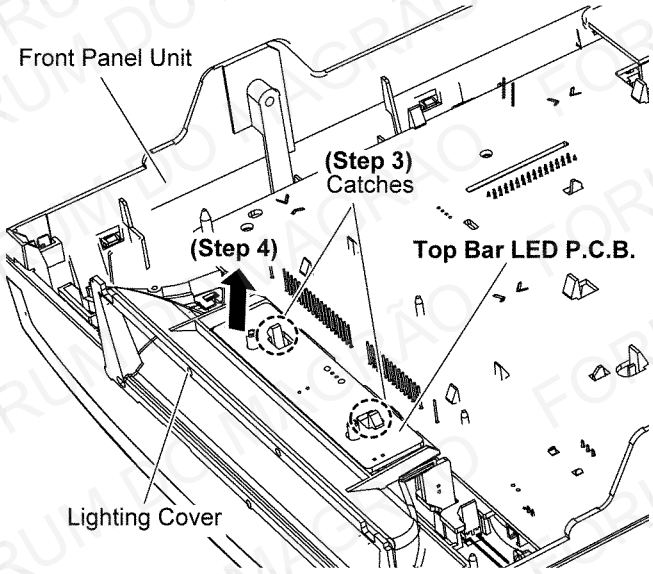
11.11. Disassembly of Top Bar LED P.C.B.

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

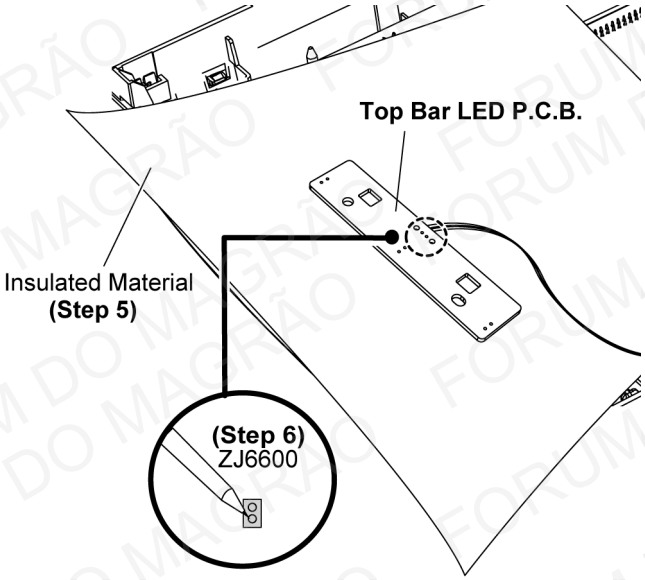
Step 1 Remove 2 screws.
Step 2 Lift up the Lighting Cover.



Step 3 Release 2 catches.
Step 4 Remove the Top Bar LED P.C.B..



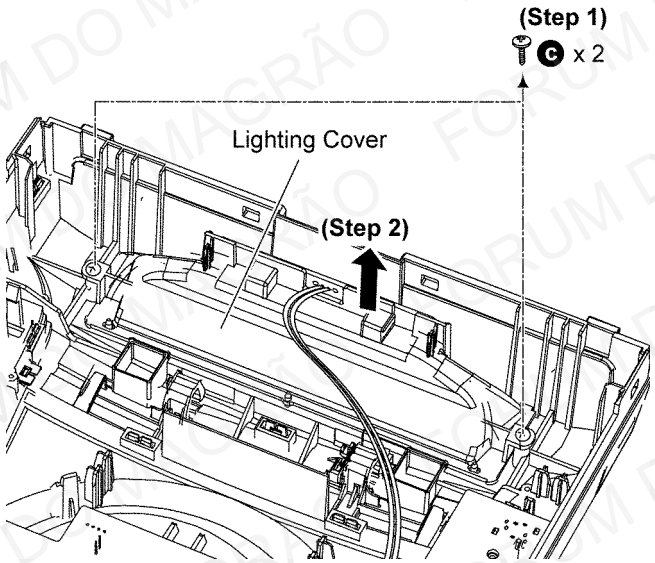
Step 5 Place the Top Bar LED P.C.B. on the insulated material.
Step 6 Desolder 2P Cable Wire at ZJ6600 on the Top Bar LED P.C.B..



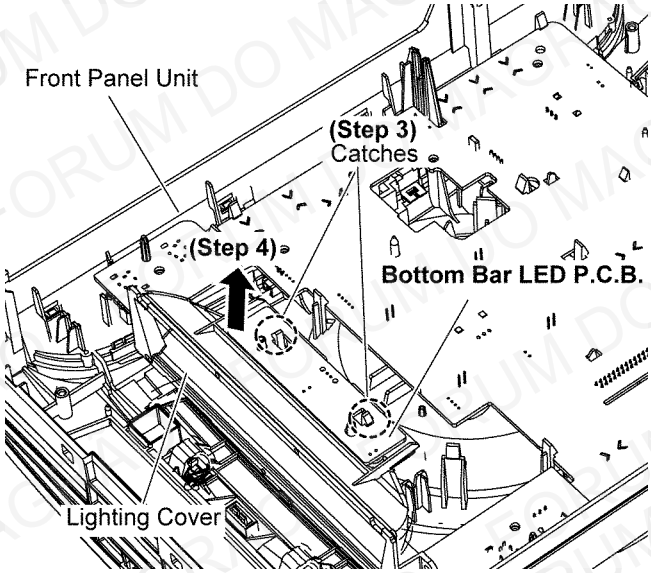
11.12. Disassembly of Bottom Bar LED P.C.B.

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

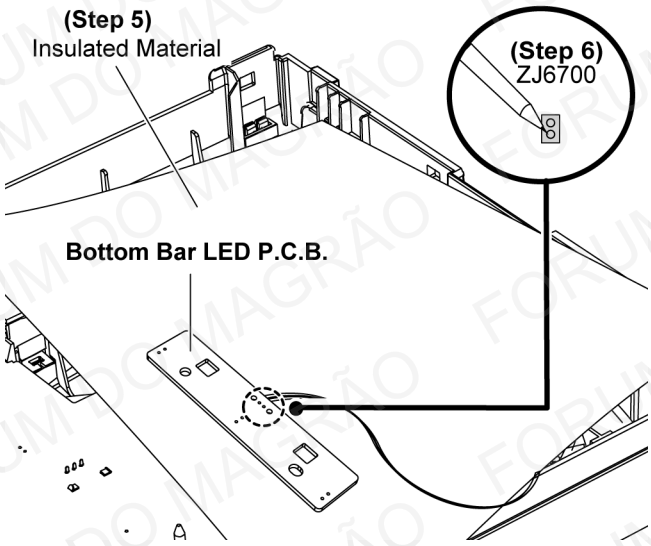
Step 1 Remove 2 screws.
Step 2 Lift up the Lighting Cover.



Step 3 Release 2 catches.
Step 4 Remove the Bottom Bar LED P.C.B..



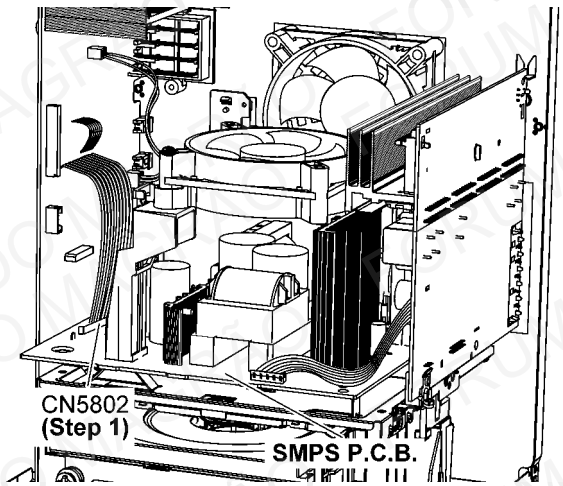
Step 5 Place the Bottom Bar LED P.C.B. on the insulated material.
Step 6 Desolder 2P Cable Wire at ZJ6700 on the Bottom Bar LED P.C.B..



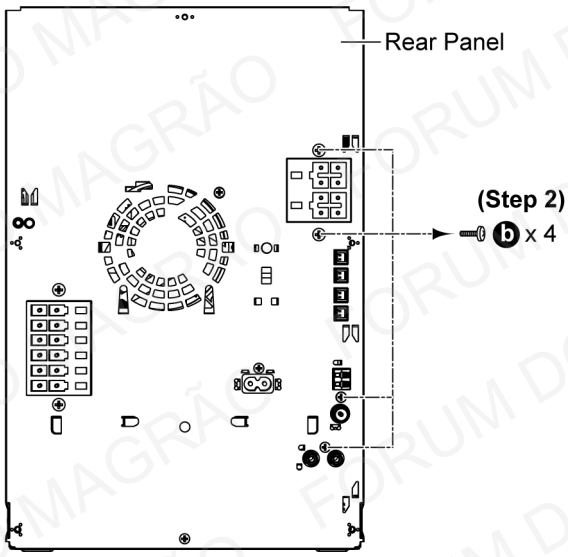
11.13. Disassembly of Main P.C.B.

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

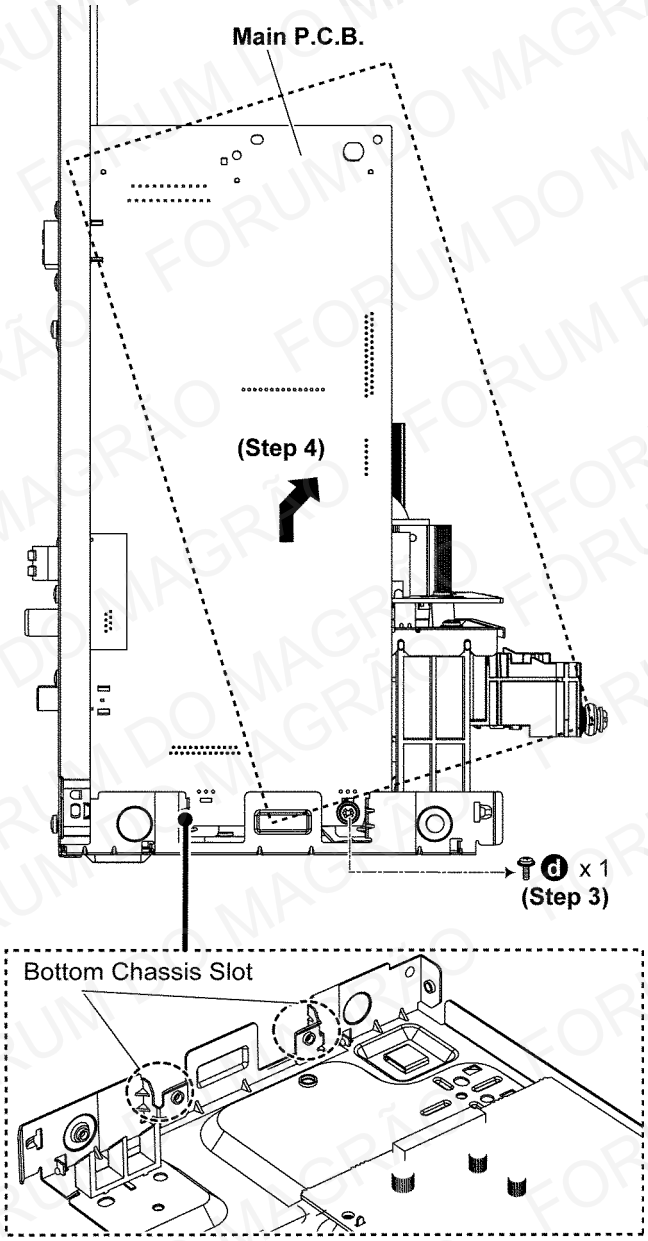
Step 1 Detach 15P Cable Wire at the connector (CN5802) on the SMPS P.C.B..



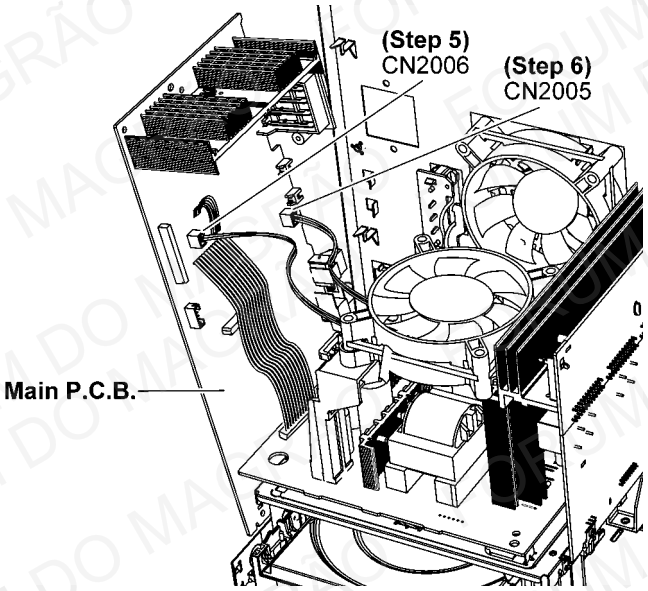
Step 2 Remove 4 screws.



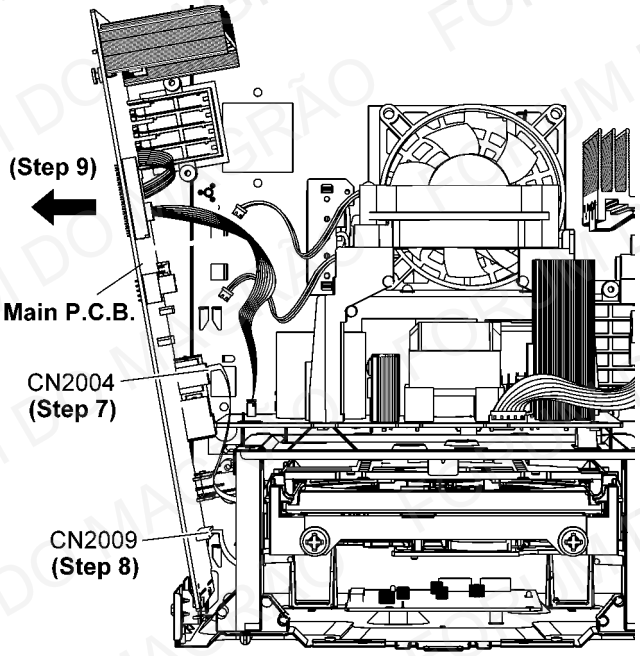
Step 3 Remove 1 screw.
Step 4 Slightly lift up the Main P.C.B. from the slots at the Bottom Chassis according to arrow shown.



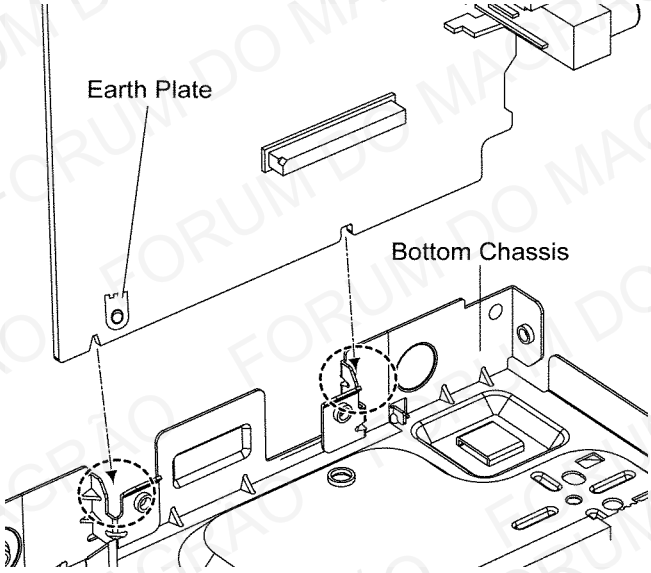
Step 5 Detach 2P Wire at the connector (CN2006) on the Main P.C.B..
Step 6 Detach 2P Wire at the connector (CN2005) on the Main P.C.B..



Step 7 Detach 17P FFC at the connector (CN2004) on the Main P.C.B..
Step 8 Detach 30P FFC at the connector (CN2009) on the Main P.C.B..
Step 9 Remove the Main P.C.B..



Caution: During assembling, ensure that the earth plate is bended flat against the Main P.C.B. properly before inserting into the slots of the bottom chassis..

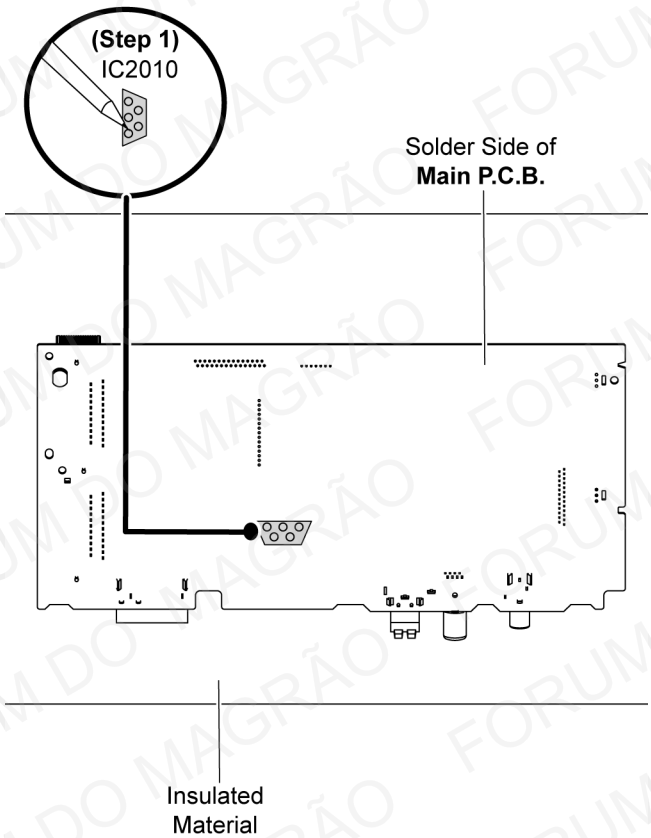


11.14. Replacement of Voltage Regulator IC (IC2010)

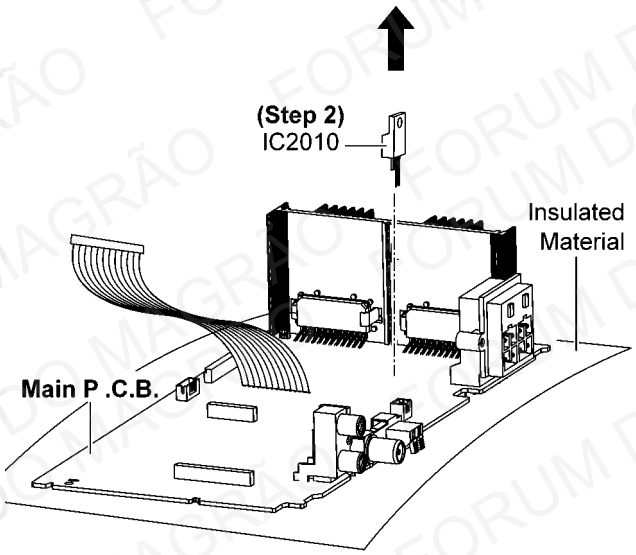
- **Refer to "Disassembly of Main P.C.B.".**

11.14.1. Disassembly of Voltage Regulator IC (IC2010)

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



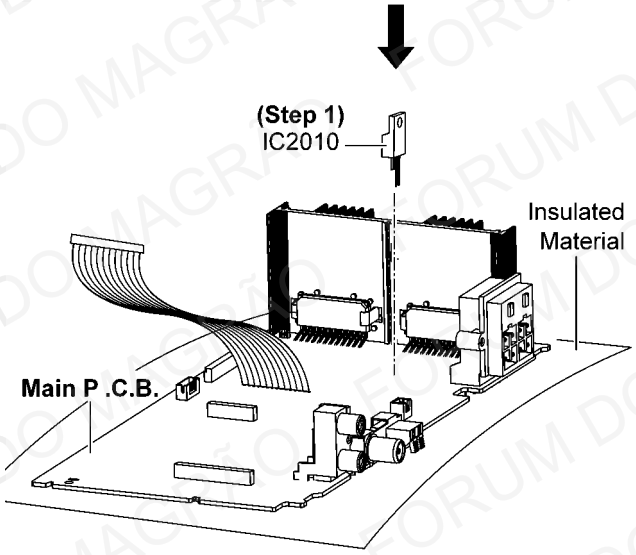
Step 2 Remove the Voltage Regulator IC (IC2010) from the Main P.C.B..



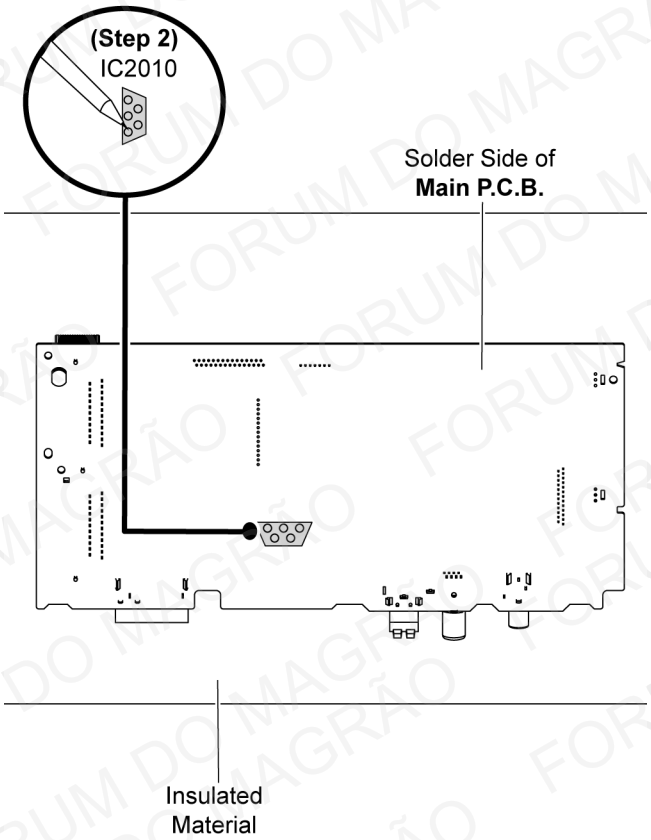
11.14.2. Assembly of Voltage Regulator IC (IC2010)

Step 1 Fix the Voltage Regulator IC(IC2010) on the Main P.C.B..

Caution: Ensure pins of the Voltage Regulator IC (IC2010) are properly inserted into the Main P.C.B..



Step 2 Solder pins of the Voltage Regulator IC (IC2010) on the solder side of the Main P.C.B..

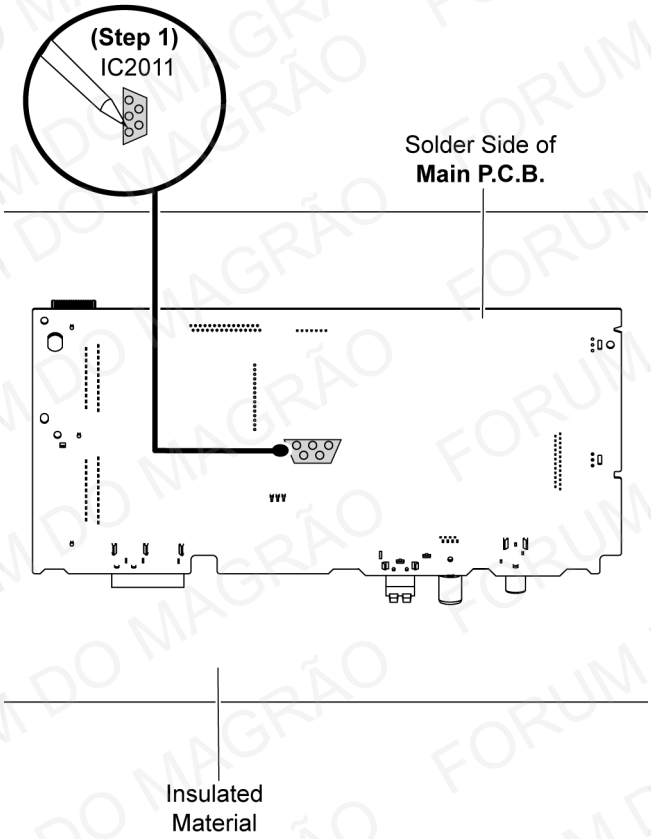


11.15. Replacement of Voltage Regulator IC (IC2011)

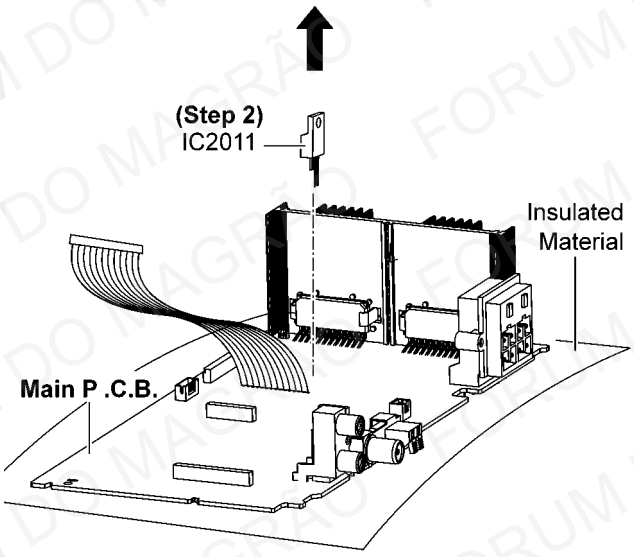
- **Refer to "Disassembly of Main P.C.B.".**

11.15.1. Disassembly of Voltage Regulator IC (IC2011)

Step 1 Desolder pins of the Voltage Regulator IC (IC2011) on the solder side of the Main P.C.B..



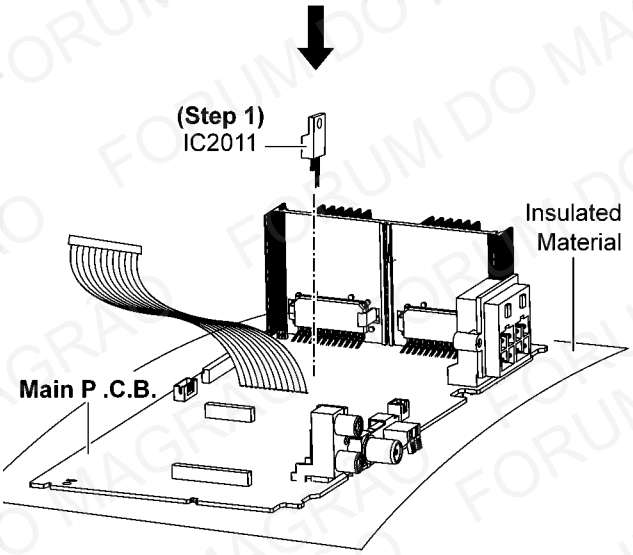
Step 2 Remove the Voltage Regulator IC (IC2011) from the Main P.C.B..



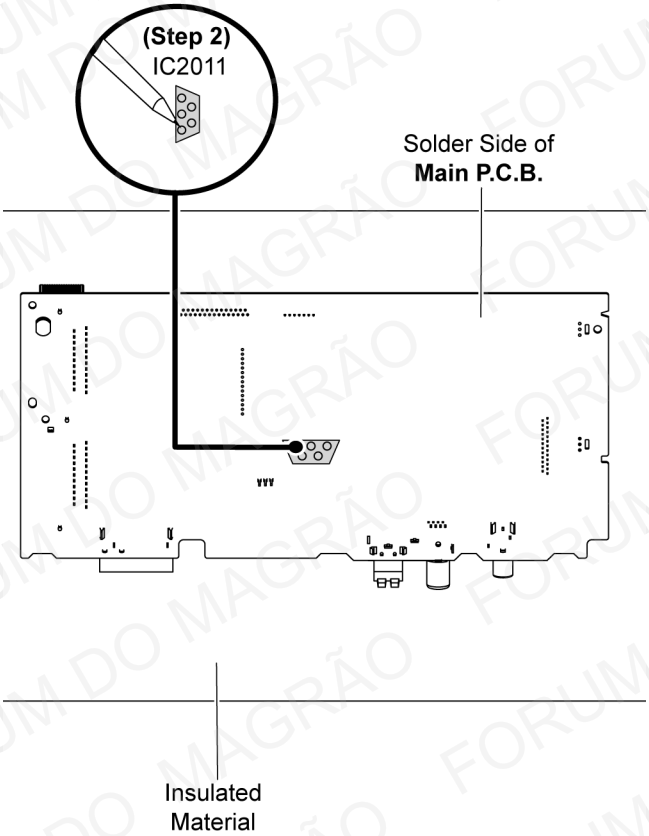
11.15.2. Assembly of Voltage Regulator IC (IC2011)

Step 1 Fix the Voltage Regulator IC(IC2011) on the Main P.C.B..

Caution: Ensure pins of the Voltage Regulator IC (IC2011) are properly inserted into the Main P.C.B..



Step 2 Solder pins of the Voltage Regulator IC (IC2011) on the solder side of the Main P.C.B..

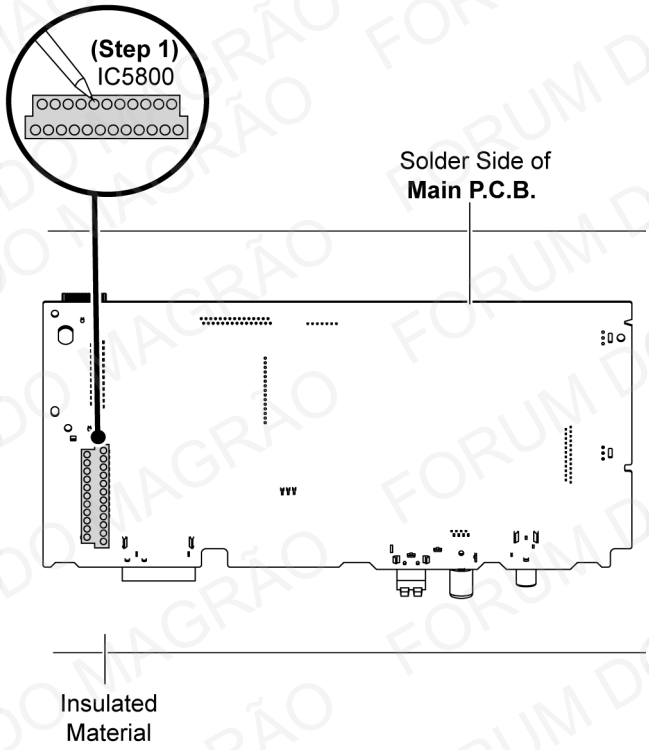


11.16. Replacement of Audio Digital Amp IC (IC5800)

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

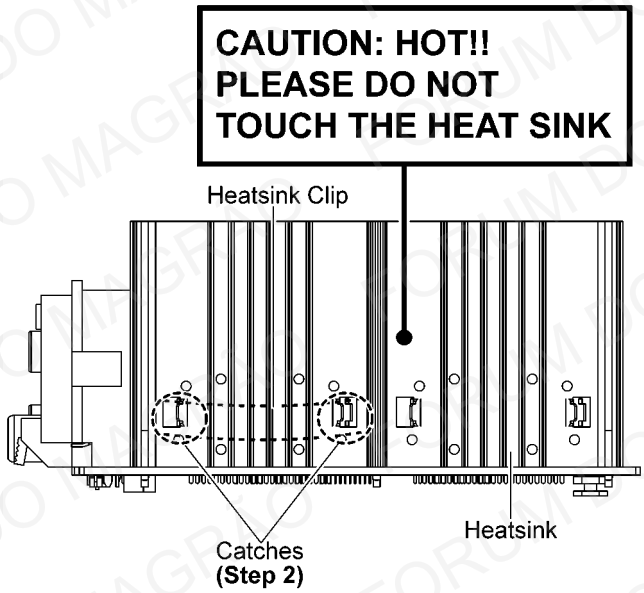
11.16.1. Disassembly of Audio Digital Amp IC (IC5800)

Step 1 Desolder pins of the Audio Digital Amp IC (IC5800) on the solder side of the Main P.C.B..

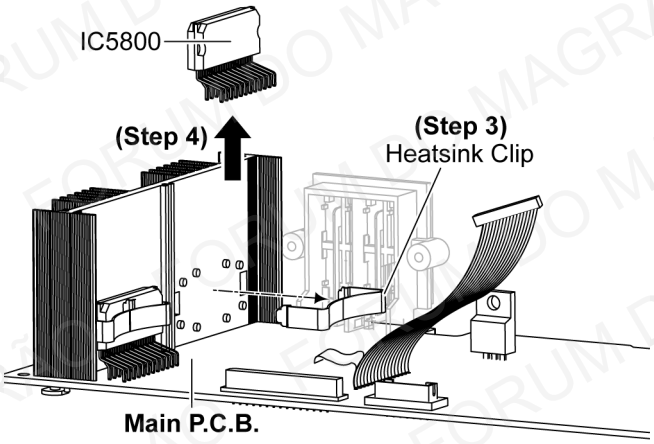


Step 2 Release 2 catches of the Heatsink Clip.

Caution: During releasing of the 2 catches, avoid touching the Heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.

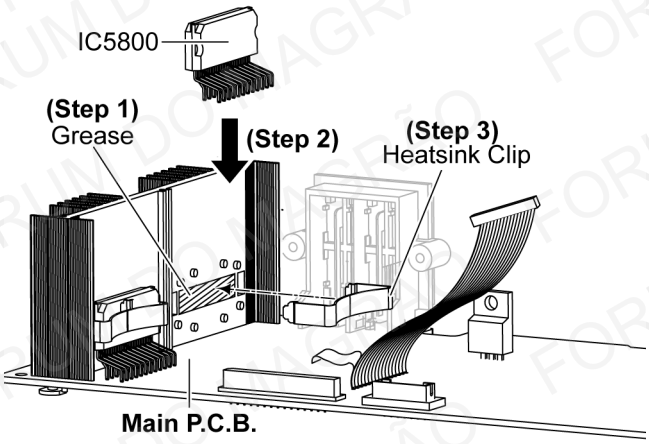


Step 3 Remove the Heatsink Clip.
Step 4 Remove the Audio Digital Amp IC (IC5800).

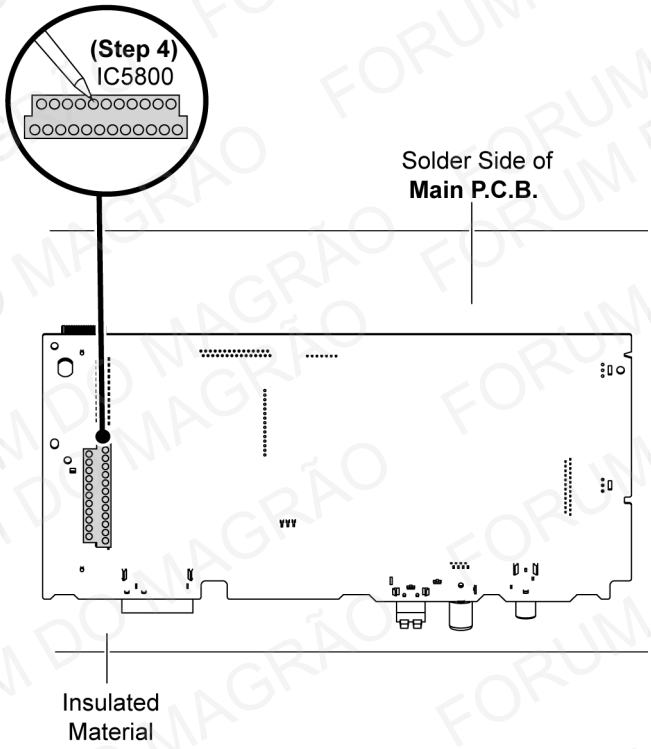


11.16.2. Assembly of Audio Digital Amp IC (IC5800)

Step 1 Apply grease to the Heatsink.
Step 2 Fix the Audio Digital Amp IC (IC5800) on Main P.C.B.
Caution: Ensure pins of the Audio Digital Amp IC (IC5800) are properly inserted into the Main P.C.B..
Step 3 Fix the Heatsink Clip to the Heatsink.
Caution: During assembling, ensure that the Heatsink Clip is catched onto the Heatsink properly.



Step 4 Solder pins of the Audio Digital Amp IC (IC5800) on the solder side of the Main P.C.B..

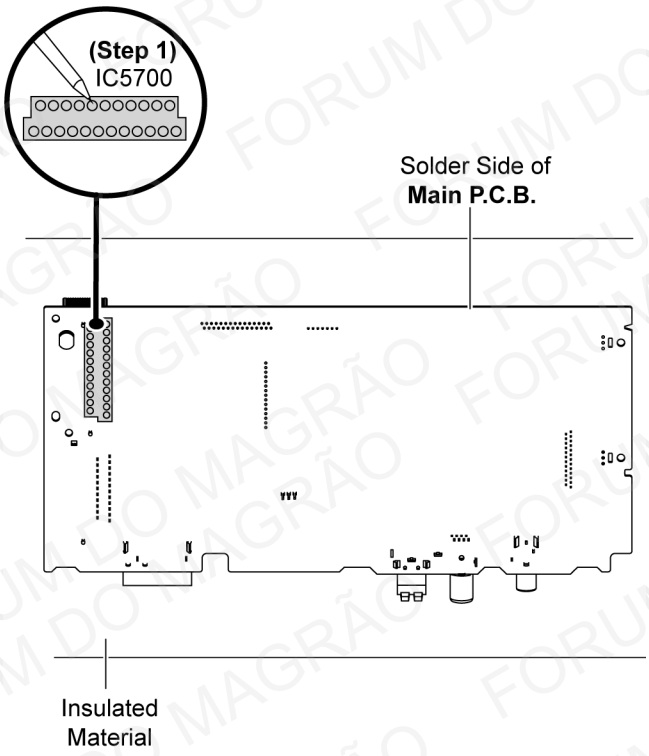


11.17. Replacement of Audio Digital Amp IC (IC5700)

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

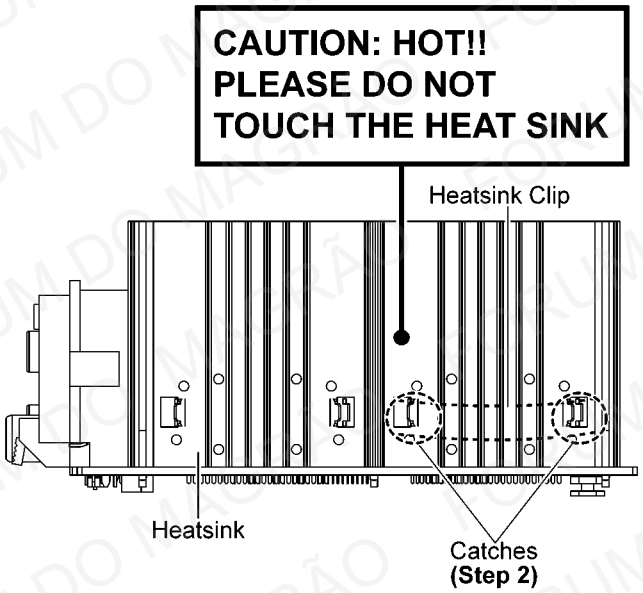
11.17.1. Disassembly of Audio Digital Amp IC (IC5700)

Step 1 Desolder pins of the Audio Digital Amp IC (IC5700) on the solder side of the Main P.C.B..



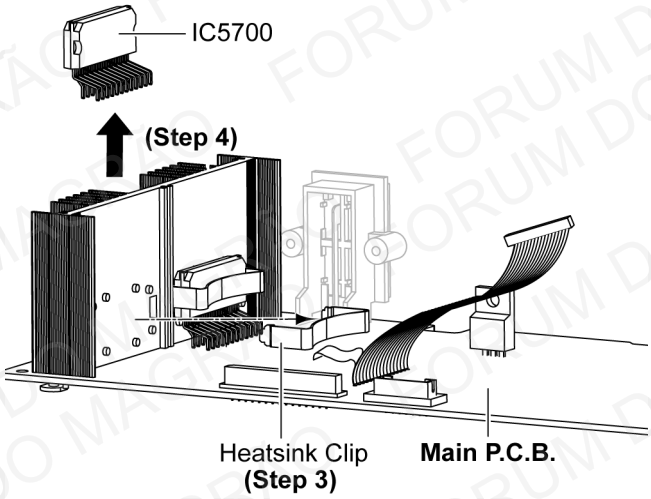
Step 2 Release 2 catches of the Heatsink Clip.

Caution: During releasing of the 2 catches, avoid touching the Heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.



Step 3 Remove the Heatsink Clip.

Step 4 Remove the Audio Digital Amp IC (IC5700).



11.17.2. Assembly of Audio Digital Amp IC (IC5700)

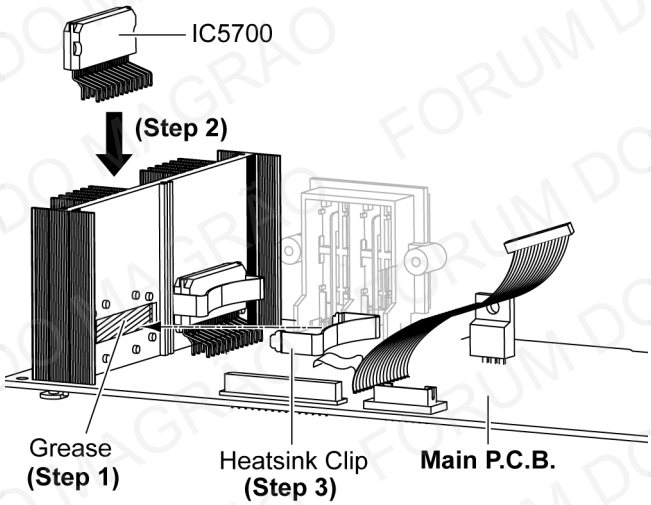
Step 1 Apply grease to the Heatsink.

Step 2 Fix the Audio Digital Amp IC (IC5700) on the Main P.C.B..

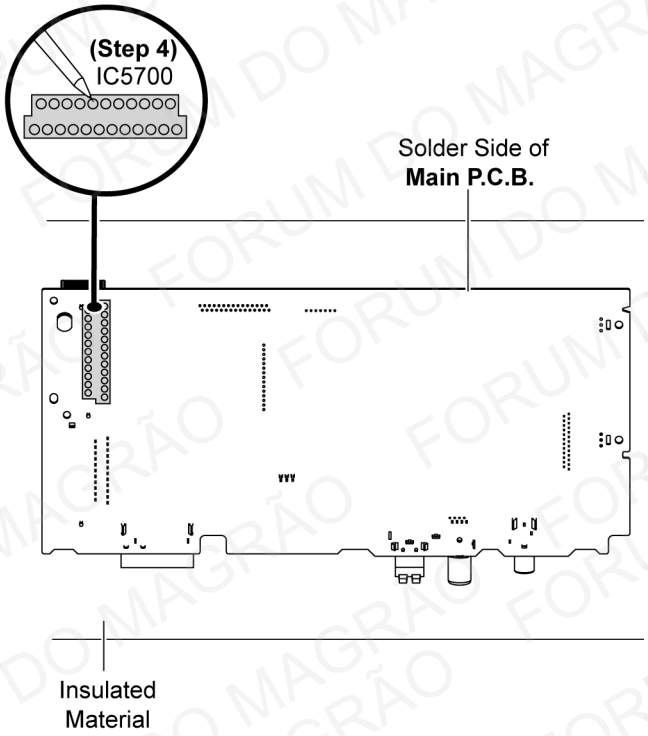
Caution: Ensure pins of the Audio Digital Amp IC (IC5700) are properly inserted into the Main P.C.B..

Step 3 Fix the Heatsink Clip to the Heatsink.

Caution: During assembling, ensure that the Heatsink Clip is catched onto the Heatsink properly.



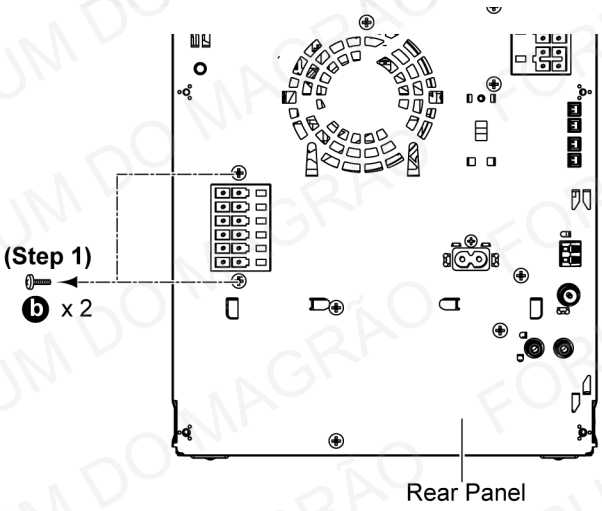
Step 4 Solder pins of the Audio Digital Amp IC (IC5700) on the solder side of the Main P.C.B..



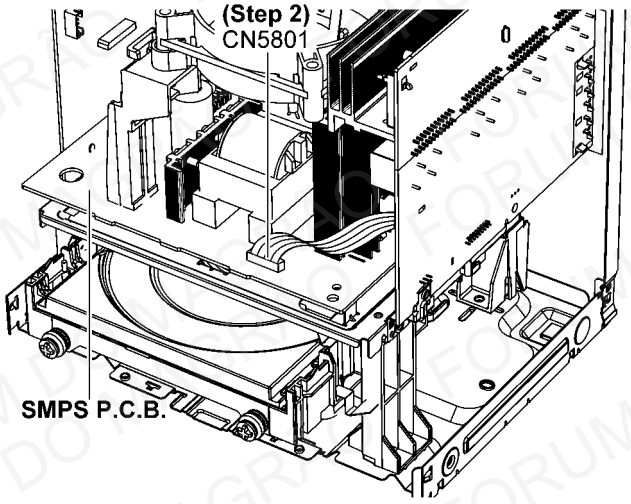
11.18. Disassembly of D-Amp P.C.B.

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

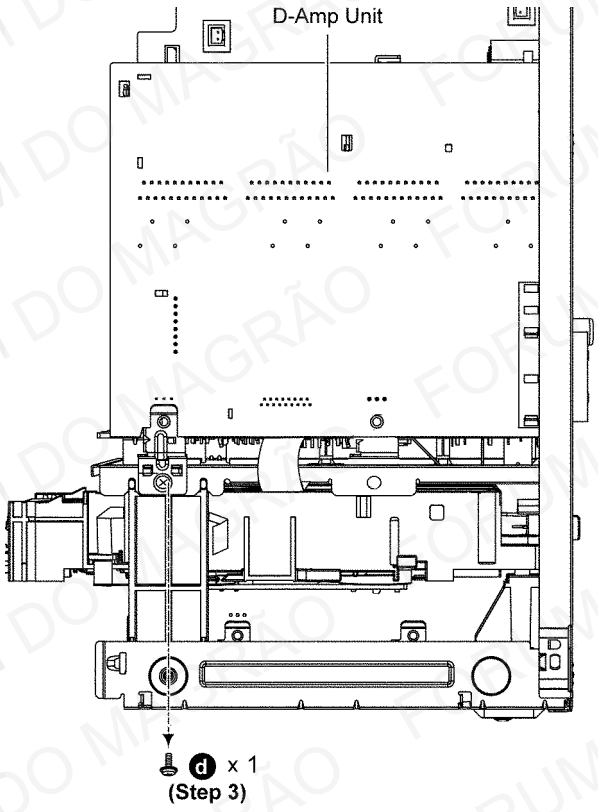
Step 1 Remove 2 screws.



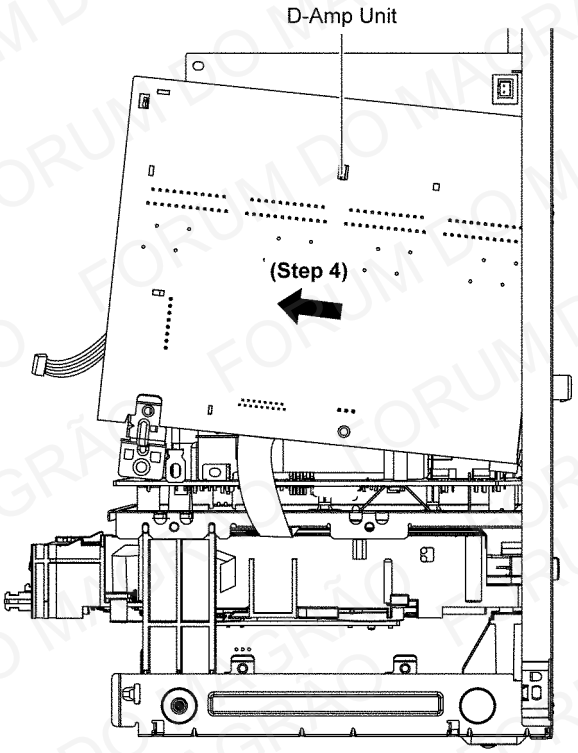
Step 2 Detach 6P Cable Wire at the connector (CN5801) on the SMPS P.C.B..



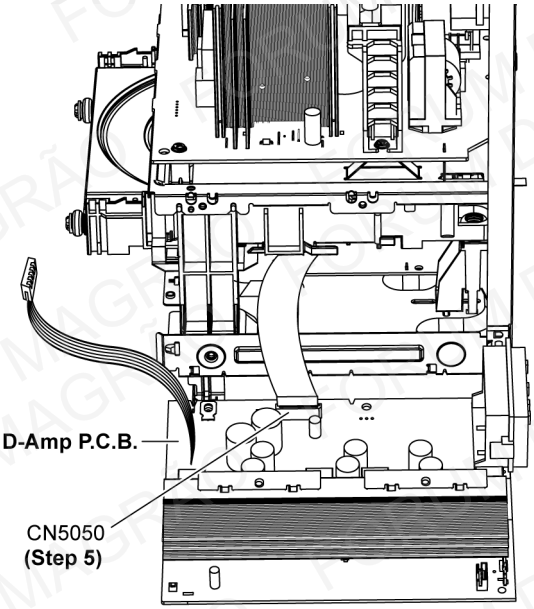
Step 3 Remove 1 screw.



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



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

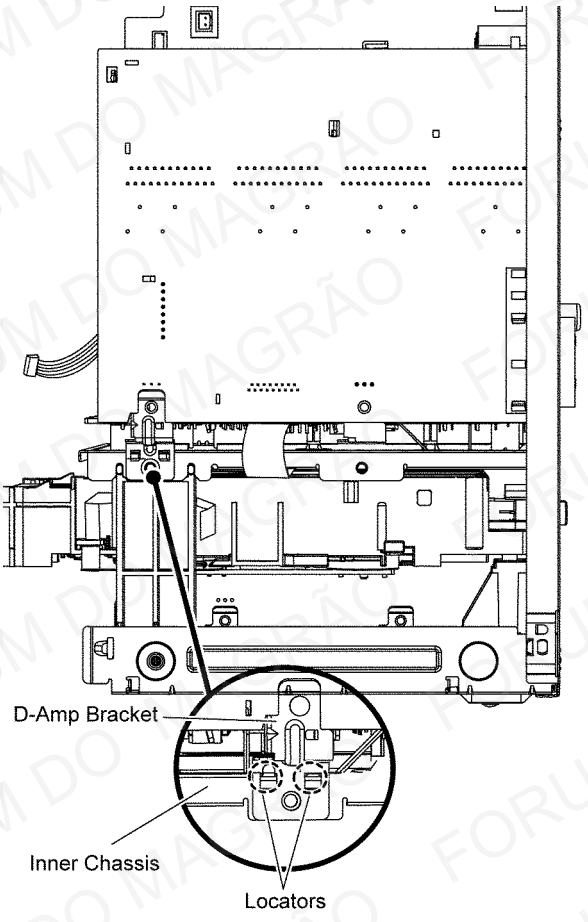


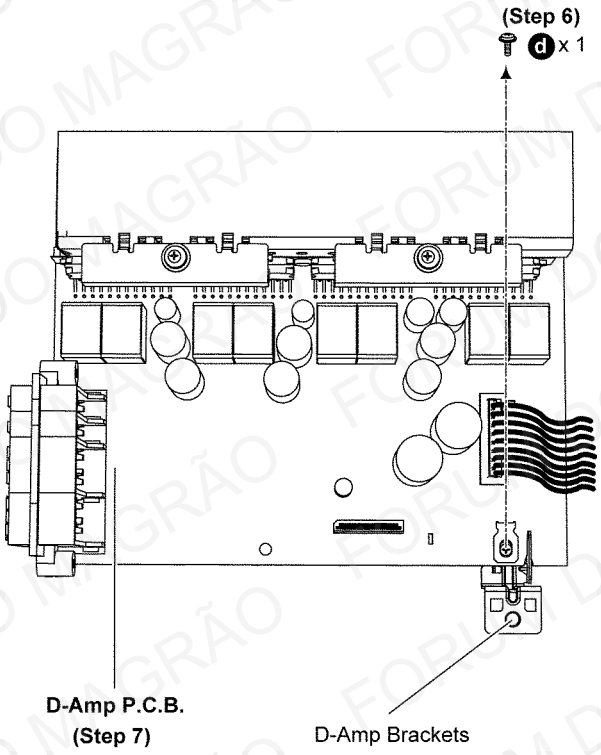
Step 6 Remove 2 screws.

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

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

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

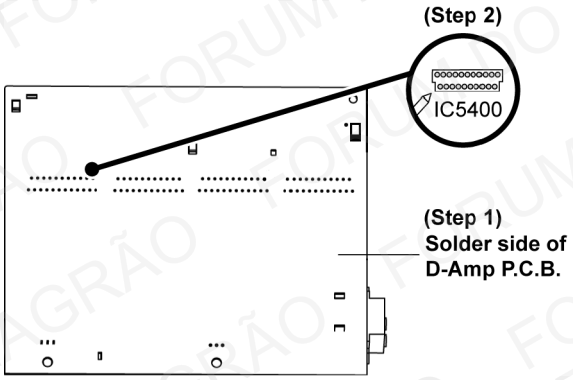




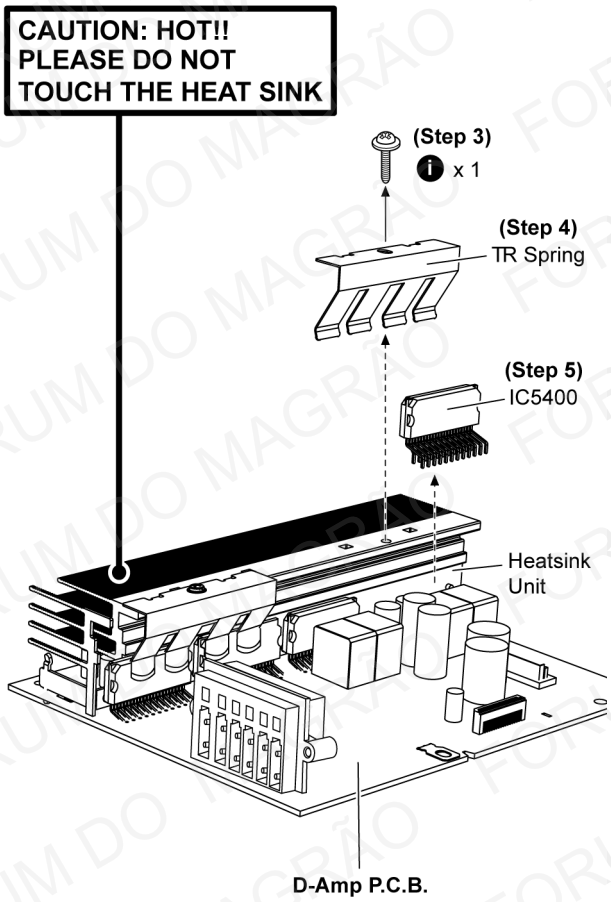
11.19. Replacement of Audio Digital Amp IC (IC5400)

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

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

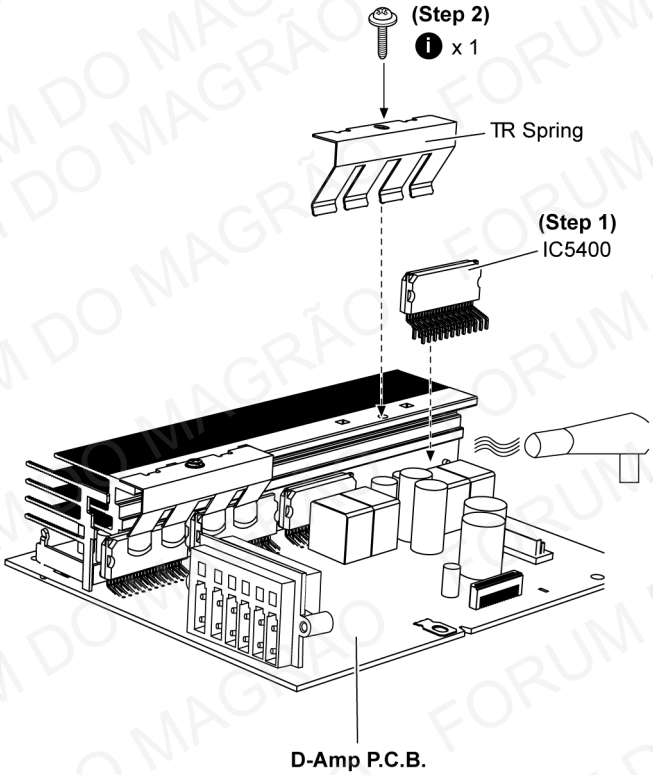


Step 3 Remove 1 screw.
Step 4 Remove TR Spring in the direction of arrow shown.
Step 5 Remove the Audio Digital Amp IC (IC5400).
Caution: During replacement of the part, avoid touching the heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.



11.19.1. Assembly of Audio Digital Amp IC (IC5400)

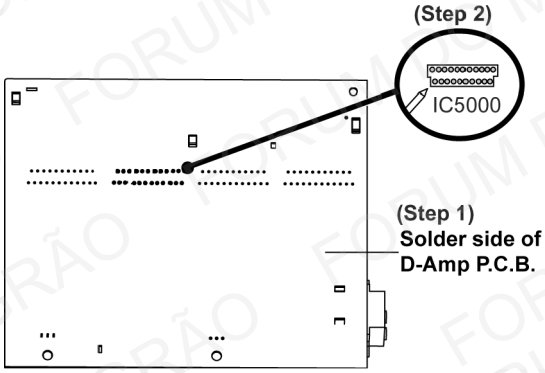
Step 1 Fix the Audio Digital Amp IC (IC5400) on to the D-Amp P.C.B..
Step 2 Screw back the TR Spring to hold the Audio Digital Amp IC (IC5400) onto the Heatsink Unit.
Caution: Ensure pins of the Audio Digital Amp IC (IC5400) are properly inserted into the D-Amp P.C.B..
Step 3 Solder the pins of the Audio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



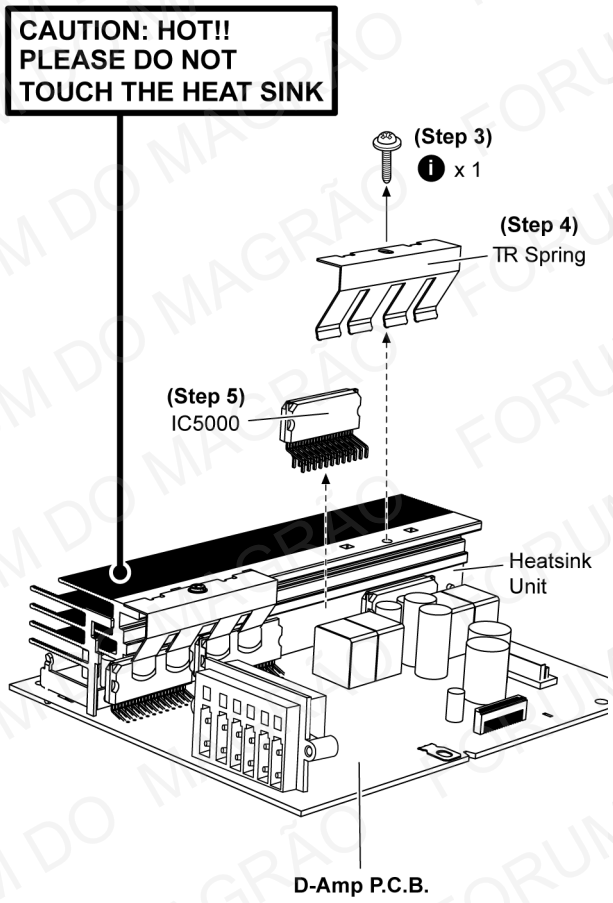
11.20. Replacement of Audio Digital Amp IC (IC5000)

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

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

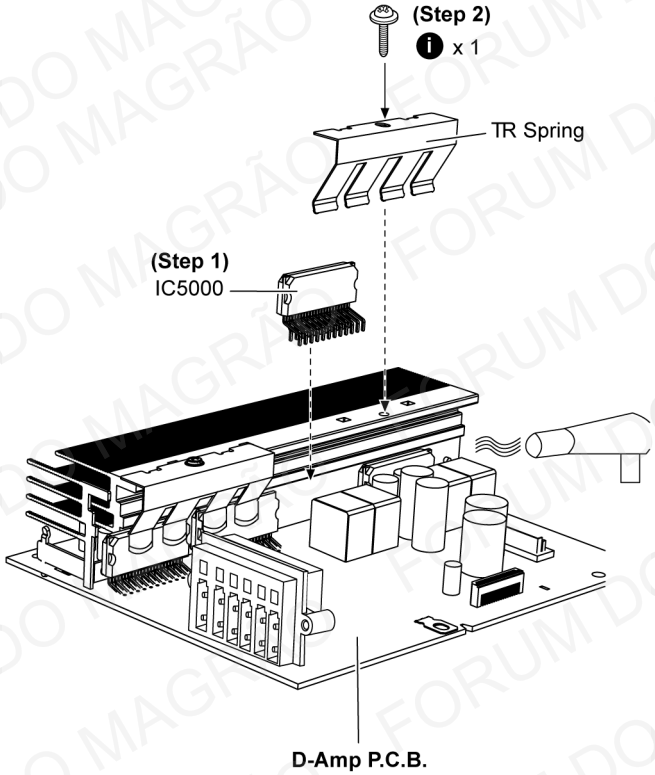


Step 3 Remove 1 screw.
Step 4 Remove the TR Spring in the direction of arrow shown.
Step 5 Remove the Audio Digital Amp IC (IC5000).
Caution: During replacement of the part, avoid touching the heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.



11.20.1. Assembly of Audio Digital Amp IC (IC5000)

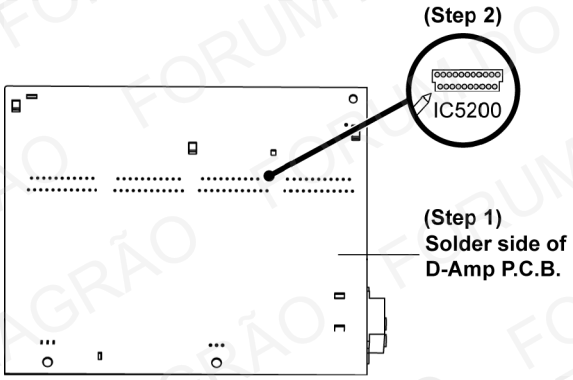
Step 1 Fix the Audio Digital Amp IC (IC5000) on to the D-Amp P.C.B..
Step 2 Screw back the TR Spring to hold the Audio Digital Amp IC (IC5000) onto the Heatsink Unit.
Caution: Ensure pins of the Audio Digital Amp IC (IC5000) are properly inserted into the D-Amp P.C.B..
Step 3 Solder the pins of the Audio Digital Amp IC (IC5000).
Step 4 Use a blower to remove the minute particles after the screwing of the TR Spring.



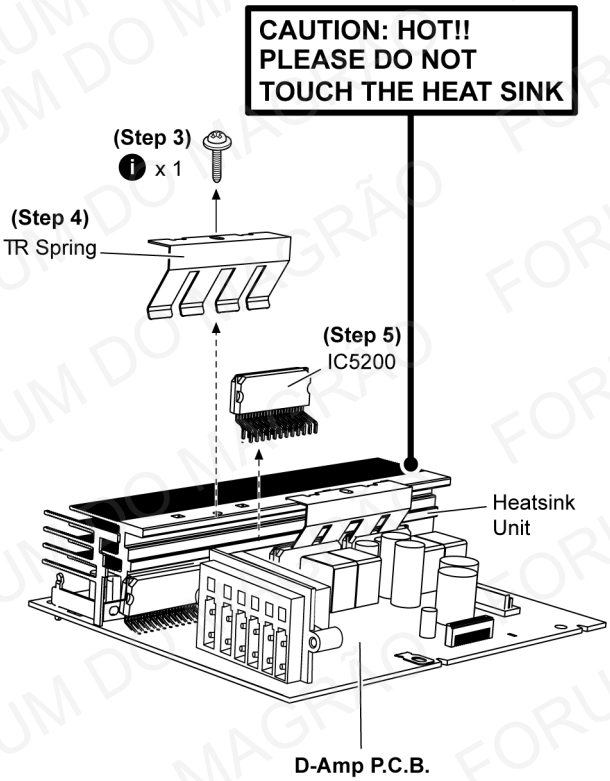
11.21. Replacement of Audio Digital Amp IC (IC5200)

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

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

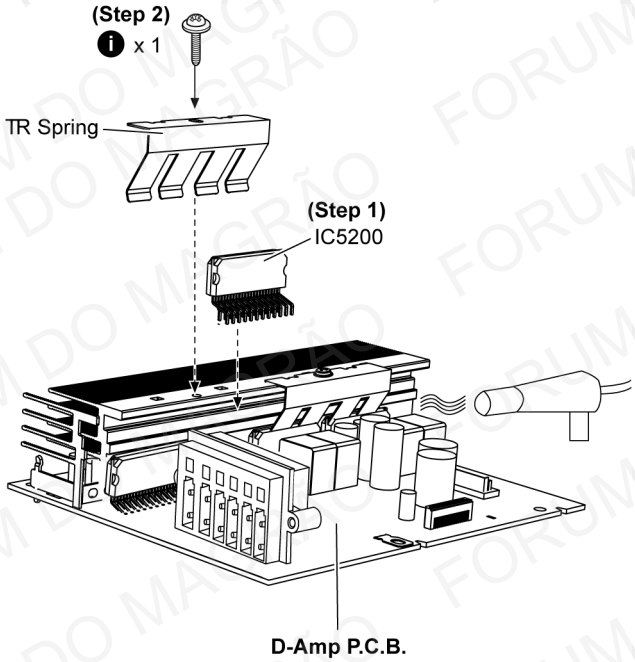


Step 3 Remove 1 screw.
Step 4 Remove the TR Spring in the direction of arrow shown.
Step 5 Remove the Audio Digital Amp IC (IC5200).
Caution: During replacement of the part, avoid touching the heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.



11.21.1. Assembly of Audio Digital Amp IC (IC5200)

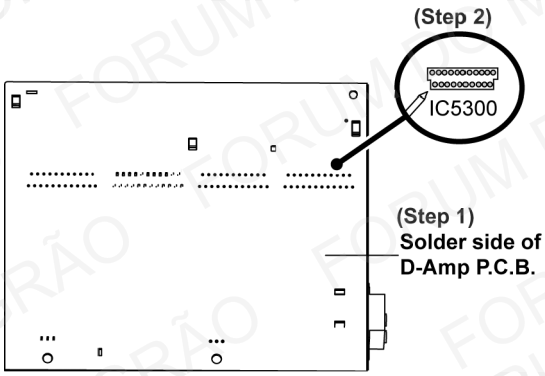
Step 1 Fix the Audio Digital Amp IC (IC5200) on to the D-Amp P.C.B..
Step 2 Screw back the TR Spring to hold the Audio Digital Amp IC (IC5200) onto the Heatsink Unit.
Caution: Ensure pins of the Audio Digital Amp IC (IC5200) are properly inserted into the D-Amp P.C.B..
Step 3 Solder the pins of the Audio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



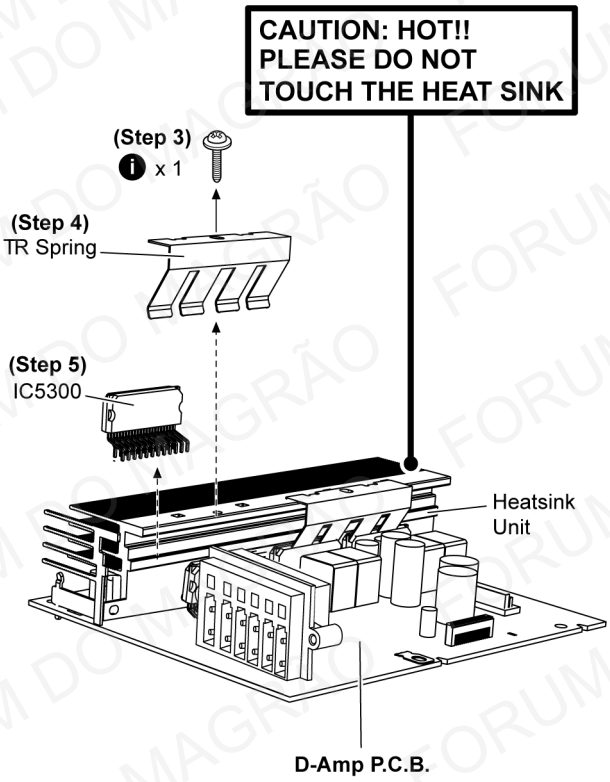
11.22. Replacement of Audio Digital Amp IC (IC5300)

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

Step 1 Upset the D-Amp P.C.B..
Step 2 Desolder pins of the Audio Digital Amp IC (IC5300) on the solder side of the D-Amp P.C.B..

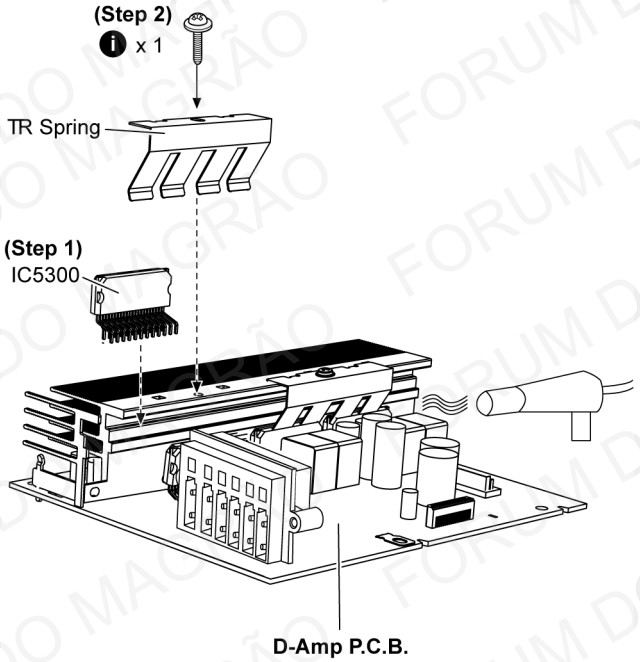


Step 3 Remove 1 screw.
Step 4 Remove the TR Spring in the direction of arrow shown.
Step 5 Remove the Audio Digital Amp IC (IC5300).
Caution: During replacement of the part, avoid touching the heatsink due to it's high temperature after prolonged use. Touching it may lead to injuries.



11.22.1. Assembly of Audio Digital Amp IC (IC5300)

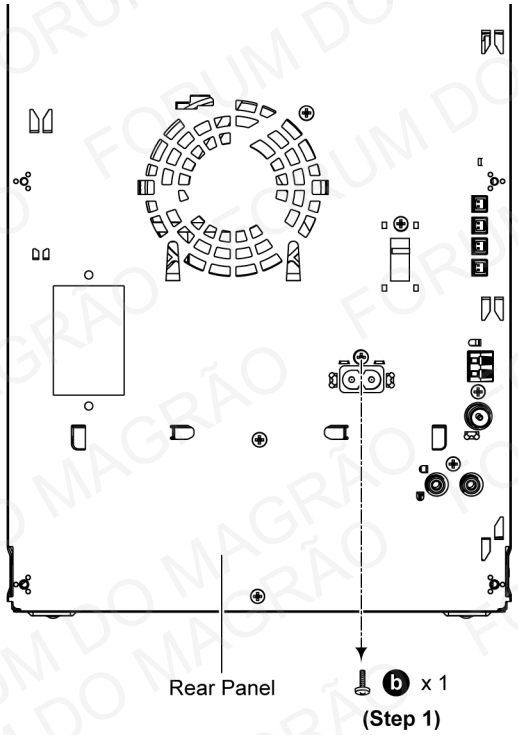
Step 1 Fix the Audio Digital Amp IC (IC5300) on to the D-Amp P.C.B..
Step 2 Screw back the TR Spring to hold the Audio Digital Amp IC (IC5300) onto the Heatsink Unit.
Caution: Ensure pins of the Audio Digital Amp IC (IC5300) are properly inserted into the D-Amp P.C.B..
Step 3 Solder the pins of the Audio Digital Amp IC (IC5300).
Step 4 Use a blower to remove the minute particles after the screwing of the TR Spring.



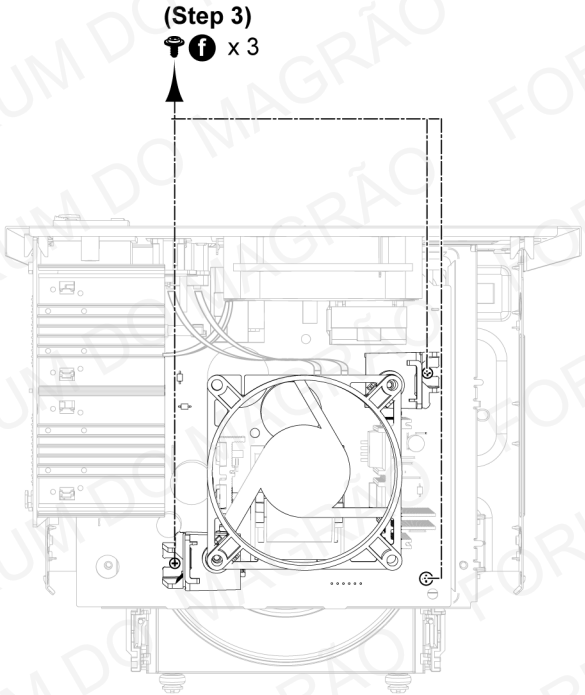
11.23. Disassembly of SMPS P.C.B.

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

Step 1 Remove 1 screw.



Step 2 Remove 3 screws.

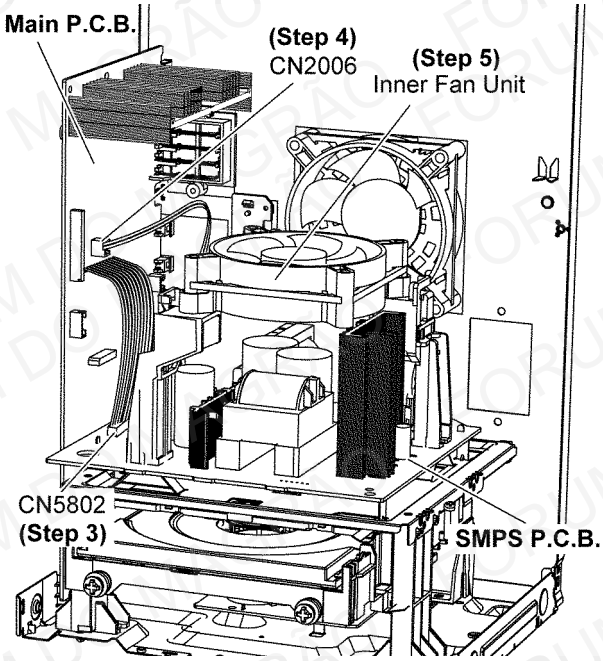


Step 3 Detach 15P Cable Wire at the connector (CN5802) on the SMPS P.C.B..

Step 4 Detach 2P Cable Wire at the connector (CN2006) on the Main P.C.B..

Step 5 Remove the Inner Fan Unit.

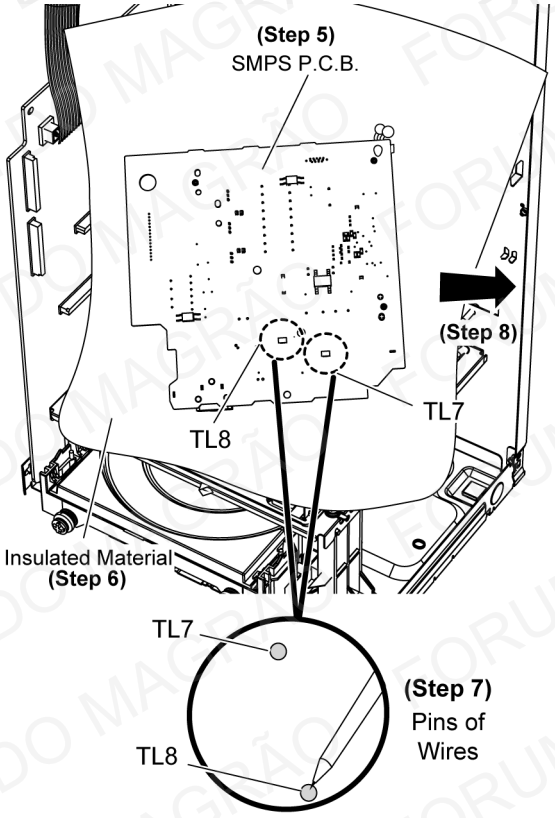
Caution: Keep the Fan Fixtures in safe place, place it back during assembling.



Step 6 Upset the SMPS P.C.B. and place it on the insulated material.

Step 7 Desolder Black Wire (TL7) and Red Wire (TL8).

Step 8 Remove the SMPS P.C.B..

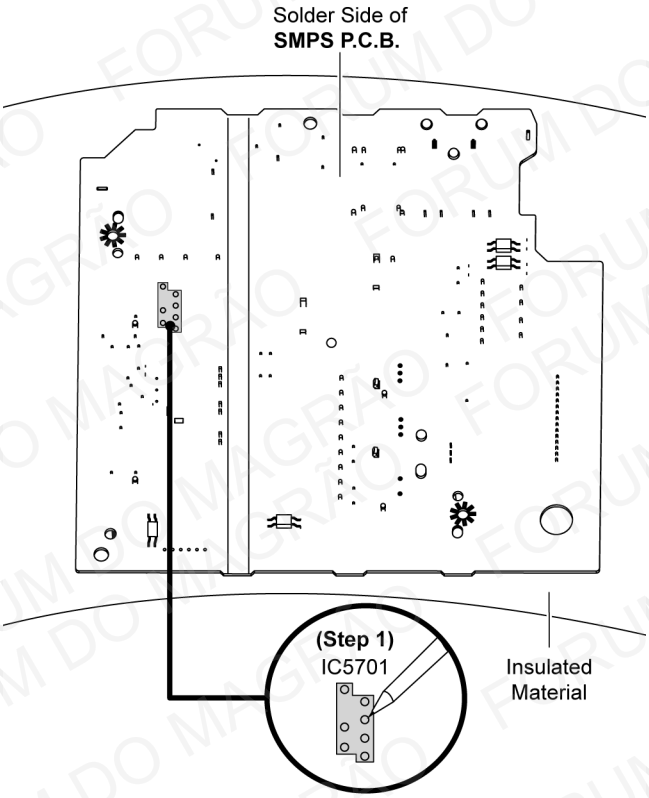


11.24. Replacement of Switching Regulator IC (IC5701)

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

11.24.1. Disassembly of Switching Regulator IC (IC5701)

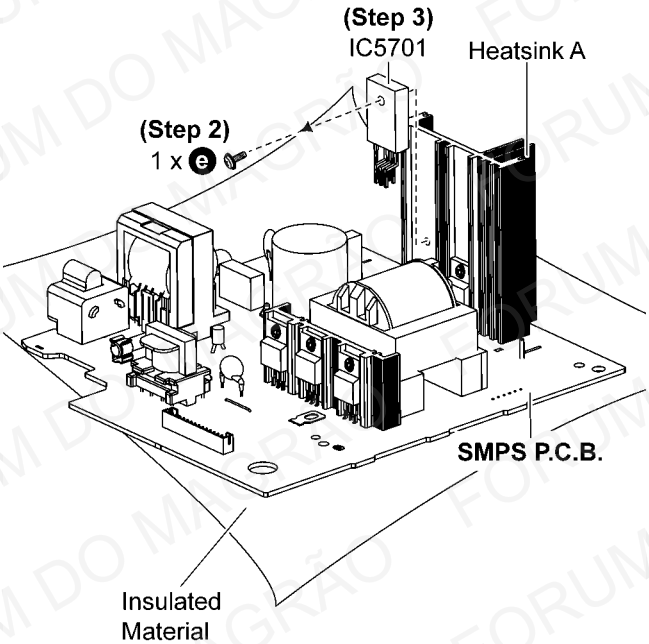
Step 1 Desolder pins of the Switching Regulator IC (IC5701) on the solder side of the SMPS P.C.B..



Step 2 Remove 1 screw.

Step 3 Remove the Switching Regulator IC (IC5701).

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



11.24.2. Assembly of Switching Regulator IC (IC5701)

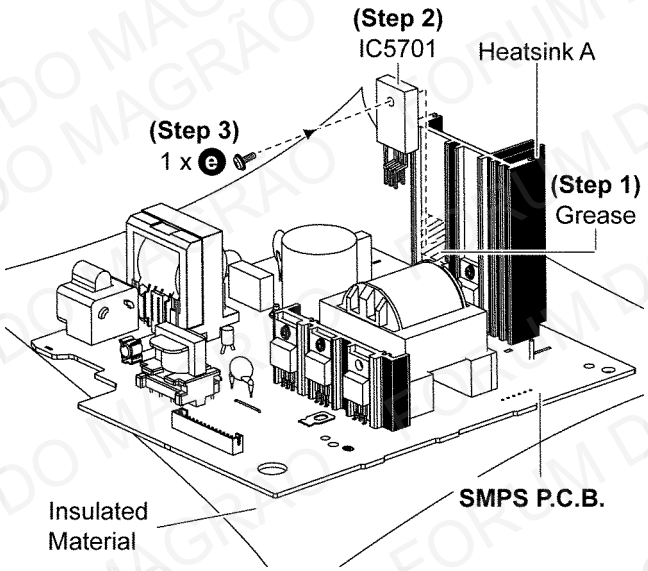
Step 1 Apply grease to the Heatsink A.

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

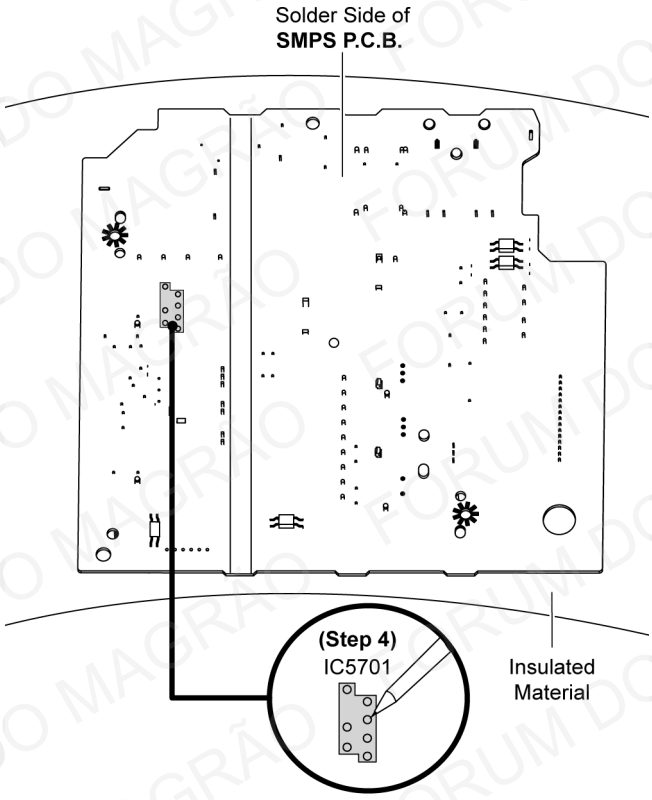
Caution: Ensure pins of the Switching Regulator IC (IC5701) are properly inserted into the SMPS P.C.B..

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 the SMPS P.C.B..



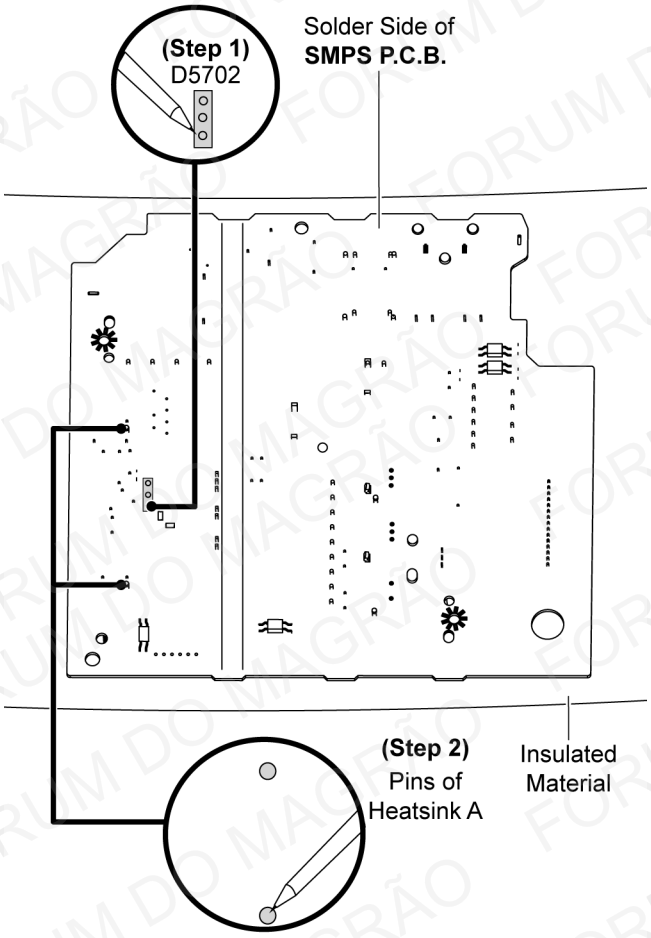
11.25. Replacement of Rectifier Diode (D5702)

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

11.25.1. Disassembly of Rectifier Diode (D5702)

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

Step 2 Desolder pins of the Heatsink A.



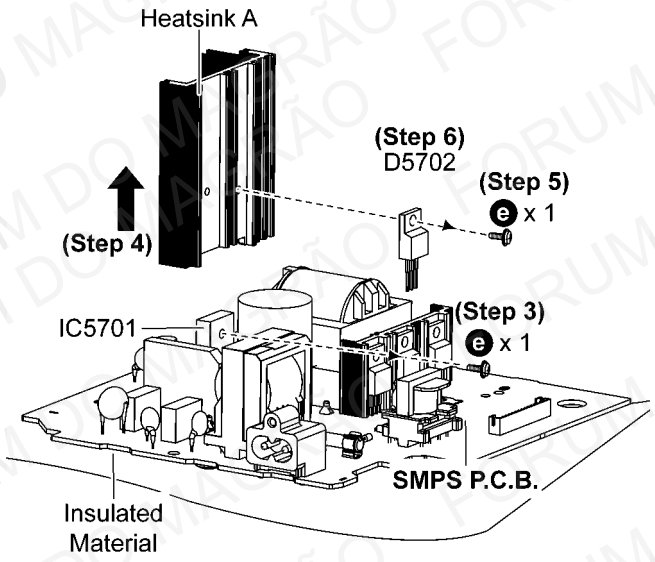
Step 3 Remove 1 screw at the Switching Regulator IC (IC5701).

Step 4 Remove the Heatsink A with Rectifier Diode (D5702).

Step 5 Remove 1 screw.

Step 6 Remove the Rectifier Diode (D5702) from the Heatsink A.

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



11.25.2. Assembly of Rectifier Diode (D5702)

Step 1 Apply grease to the Heatsink A.

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

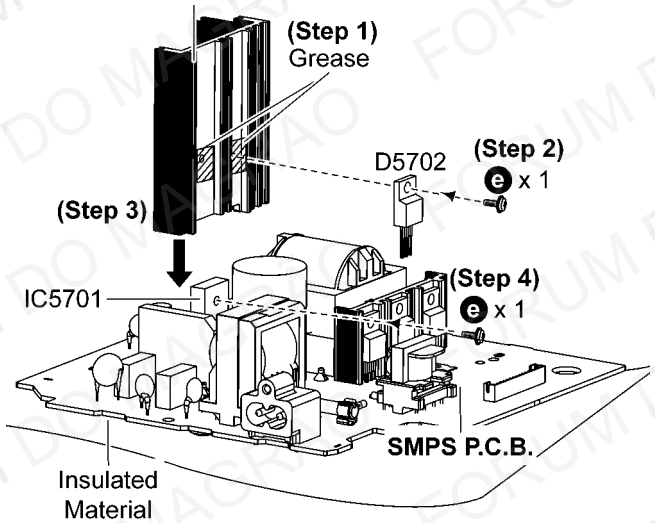
Caution: Ensure the Rectifier Diode (D5702) is tightly screwed to the Heatsink A.

Step 3 Fix the Heatsink A with Rectifier Diode (D5702) on the SMPS P.C.B. as shown.

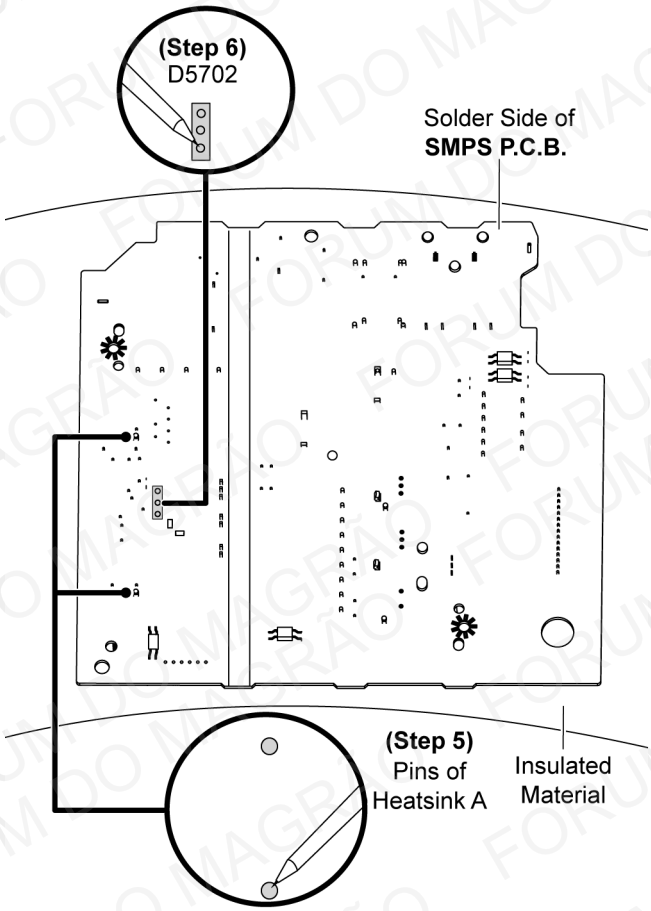
Caution: Ensure the Heatsink A with Rectifier Diode (D5702) are properly inserted into the SMPS P.C.B..

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

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

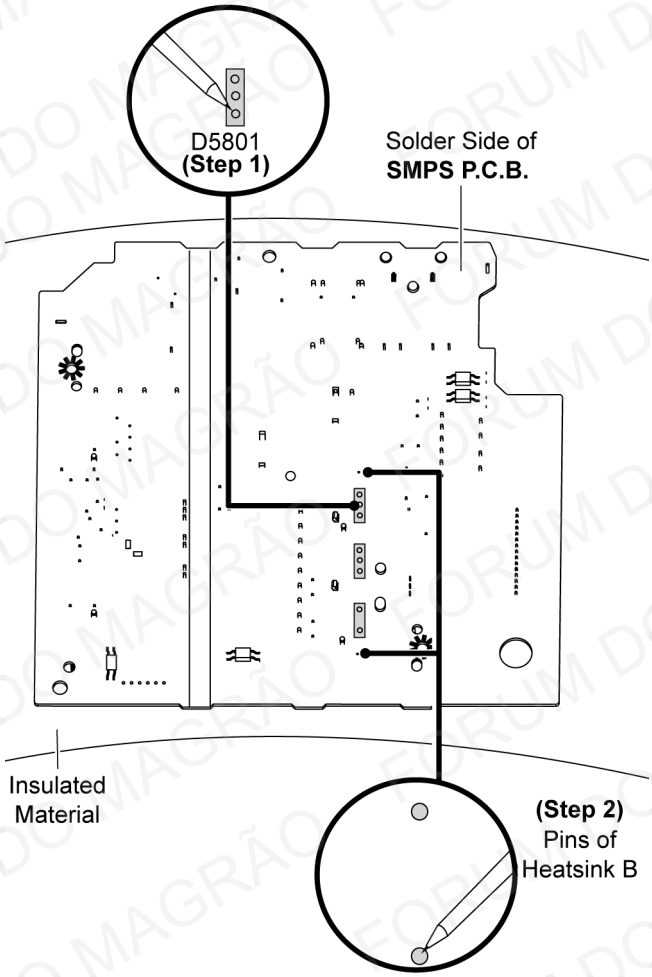


11.26. Replacement of Rectifier Diode (D5801)

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

11.26.1. Disassembly of Rectifier Diode (D5801)

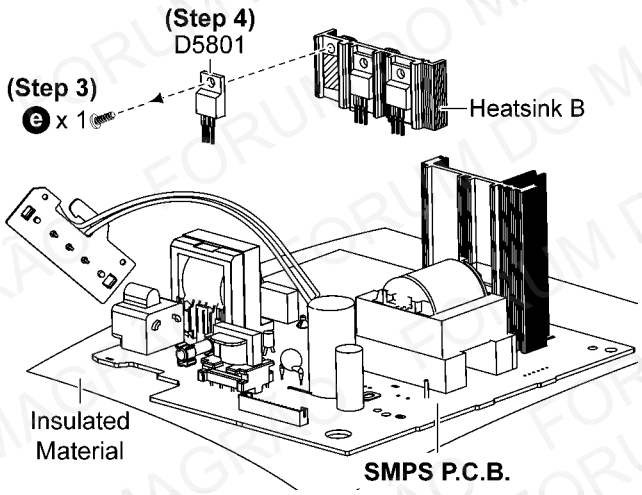
Step 1 Desolder pins of the Rectifier Diode (D5801) on the solder side of the SMPS P.C.B..
Step 2 Desolder pins of the Heatsink B.



Step 3 Remove 1 screw at Rectifier Diode (D5801).

Step 4 Remove the Rectifier 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.



11.26.2. Assembly of Rectifier Diode (D5801)

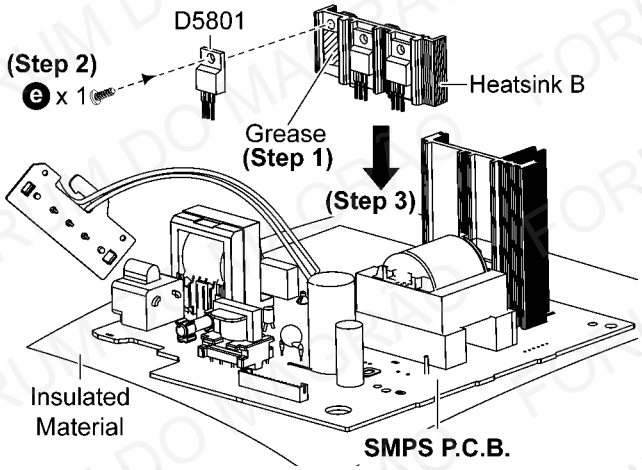
Step 1 Apply grease to the Heatsink B.

Step 2 Screw the Rectifier Diode (D5801) to the Heatsink B.

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

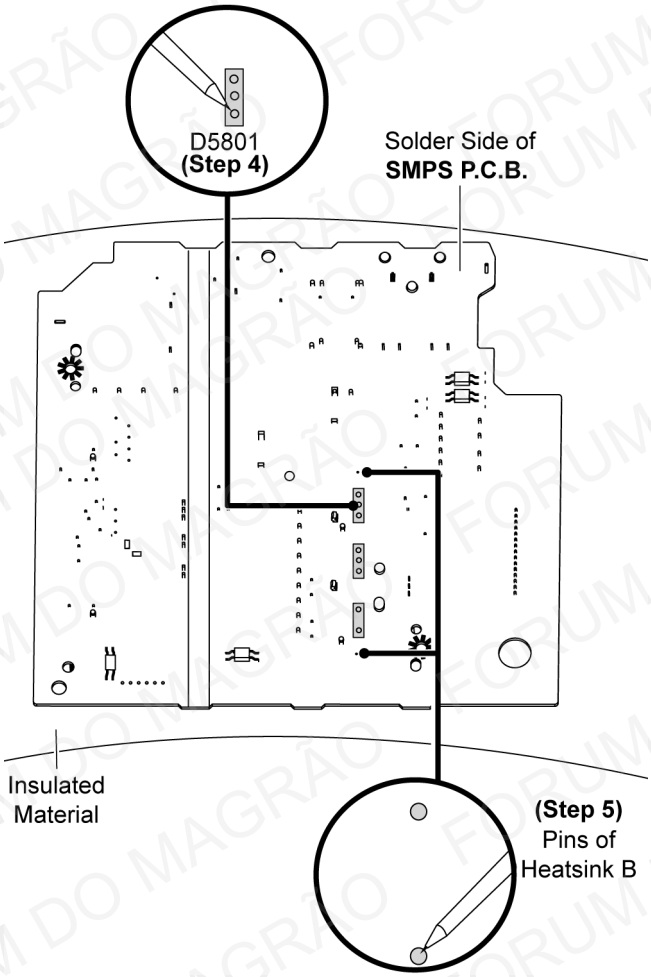
Step 3 Fix the Heatsink B with Rectifier Diode (D5801) on the SMPS P.C.B..

Caution: Ensure pins of the Rectifier Diode (D5801) are properly inserted into the SMPS P.C.B..



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

Step 5 Solder pins of the Heatsink B.



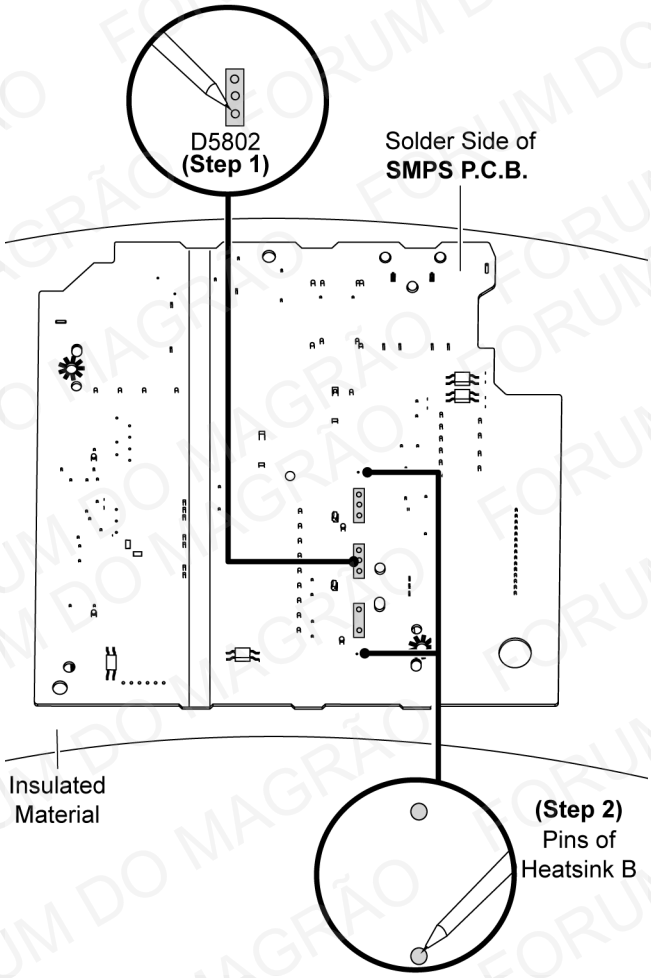
11.27. Replacement of Rectifier Diode (D5802)

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

11.27.1. Disassembly of Rectifier Diode (D5802)

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

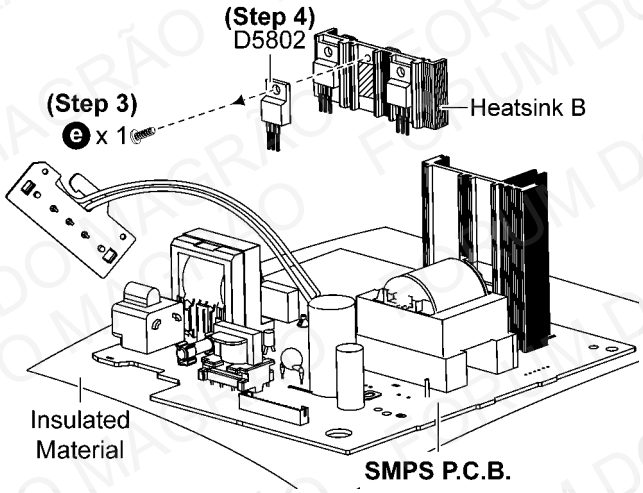
Step 2 Desolder pins of the Heatsink B.



Step 3 Remove 1 screw at Rectifier Diode (D5802).

Step 4 Remove the Rectifier Diode (D5802) from the SMPS P.C.B..

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



11.27.2. Assembly of Rectifier Diode (D5802)

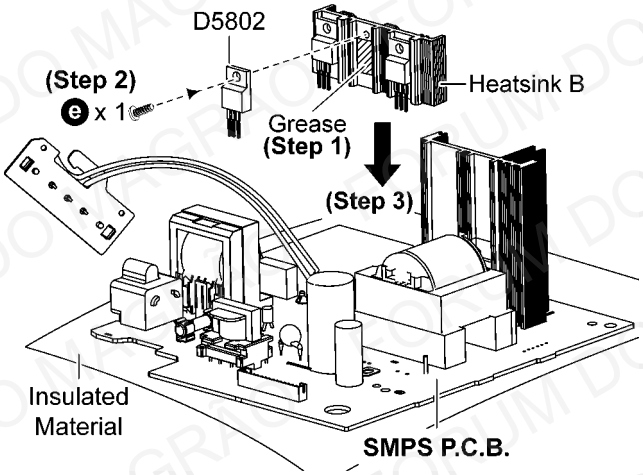
Step 1 Apply grease to the Heatsink B.

Step 2 Screw the Rectifier Diode (D5802) to the Heatsink B.

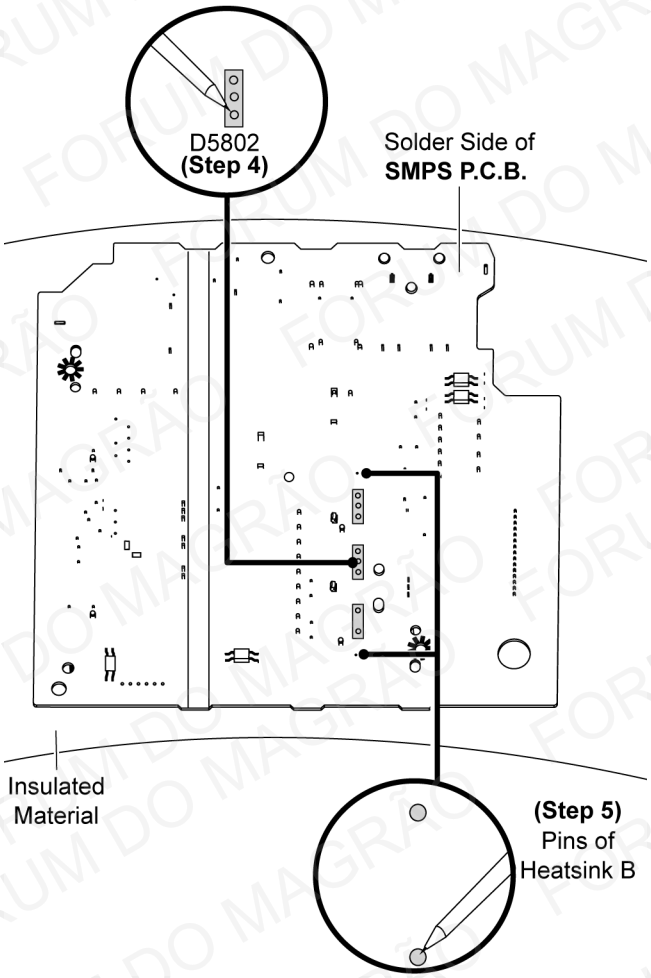
Caution: Ensure the Rectifier Diode (D5802) is tightly screwed to the Heatsink B.

Step 3 Fix the Heatsink B with Rectifier Diode (D5802) on the SMPS P.C.B..

Caution: Ensure pins of the Rectifier Diode (D5802) are properly inserted into the SMPS P.C.B..



Step 4 Solder pins of the Rectifier Diode (D5802) on the solder side of SMPS P.C.B..
Step 5 Solder pins of the Heatsink B..

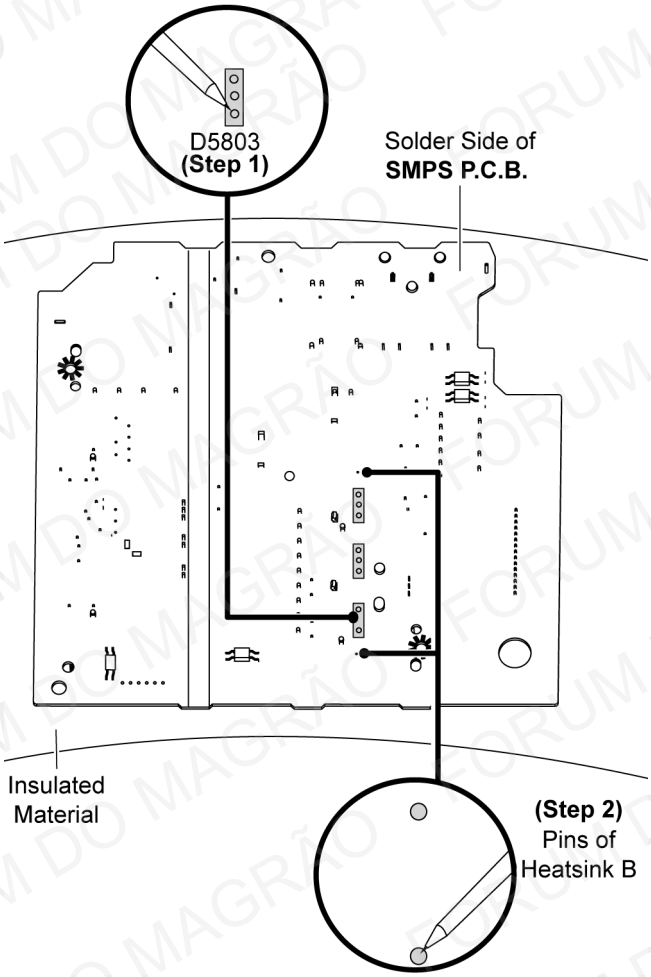


11.28. Replacement of Regulator Diode (D5803)

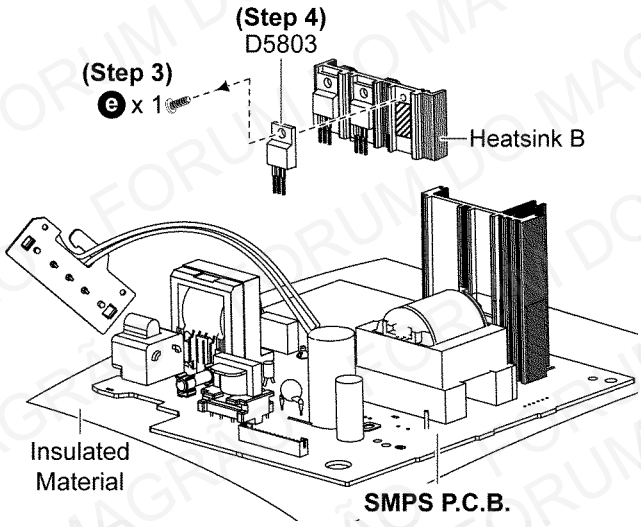
- **Refer to "Disassembly of SMPS P.C.B.".**

11.28.1. Disassembly of Rectifier Diode (D5803)

Step 1 Desolder pins of the Rectifier Diode (D5803) on the solder side of SMPS P.C.B..
Step 2 Desolder pins of the Heatsink B.

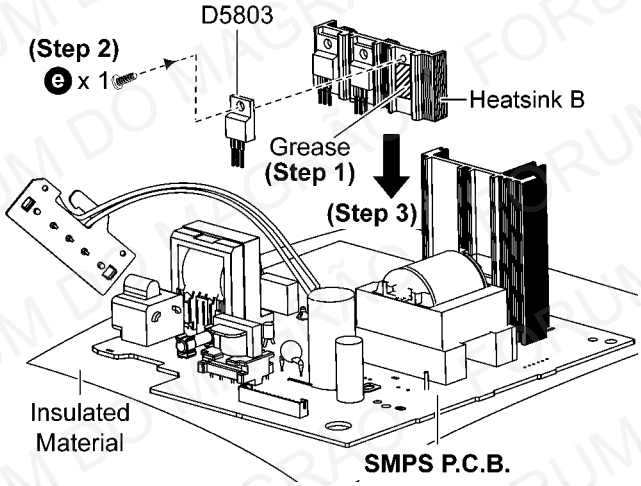


Step 3 Remove 1 screw at Rectifier Diode (D5803).
Step 4 Remove the Rectifier Diode (D5803) from SMPS P.C.B..
Caution: Avoid touching the Heatsink B due to its high temperature after prolonged use. Touching it may lead to injuries.

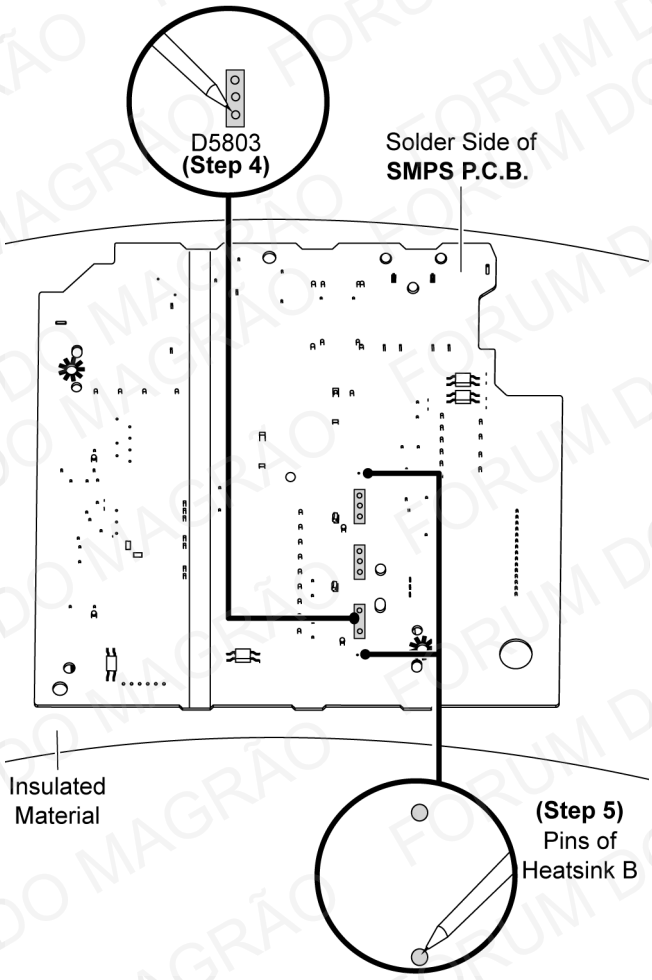


11.28.2. Assembly of Rectifier Diode (D5803)

Step 1 Apply grease to the Heatsink B.
Step 2 Screw the Rectifier diode (D5803) to the Heatsink B.
Caution: Ensure the Rectifier Diode (D5803) is tightly screwed to the Heatsink B.
Step 3 Fix the Heatsink B with Rectifier Diode (D5803) on SMPS P.C.B.
Caution: Ensure pins of the Rectifier Diode (D5803) are properly inserted into the SMPS P.C.B..



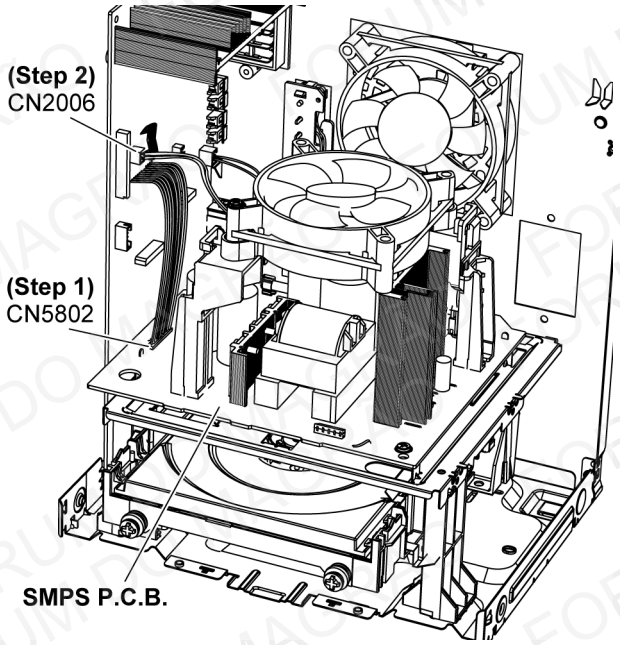
Step 4 Solder pins of the Rectifier Diode (D5803) on the solder side of the SMPS P.C.B.
Step 5 Solder pins of the Heatsink B..



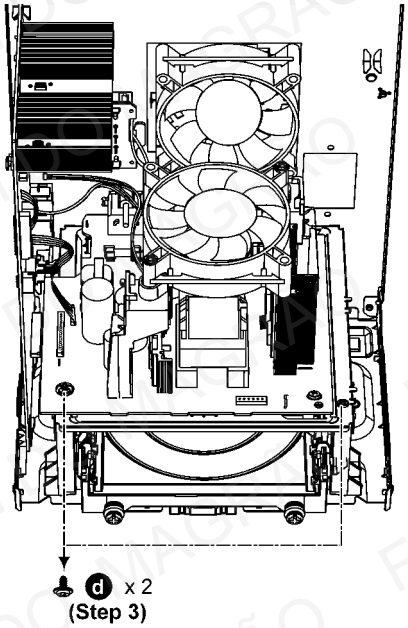
11.29. Disassembly of CD Mechanism Unit (BRS11C)

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

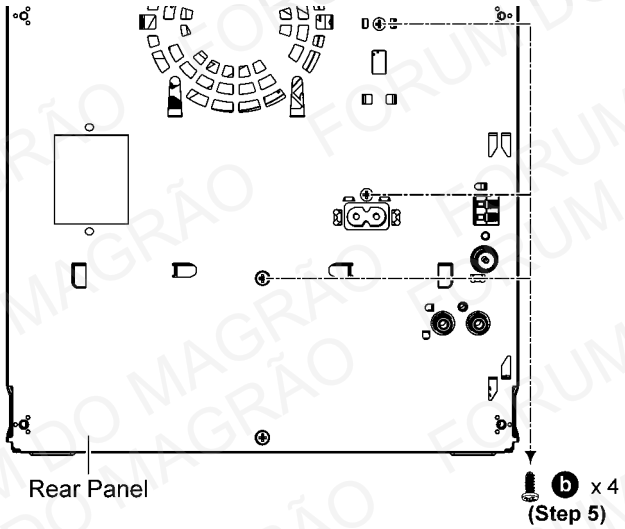
Step 1 Detach 15P Cable Wire at the connector (CN5802) on SMPS P.C.B..
Step 2 Detach 2P Cable Wire at the connector (CN2006) on Main P.C.B..



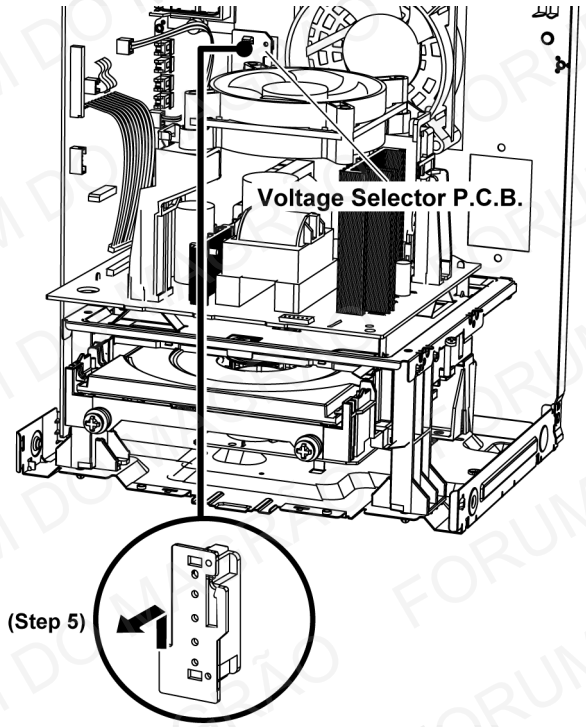
Step 3 Remove 2 screws.



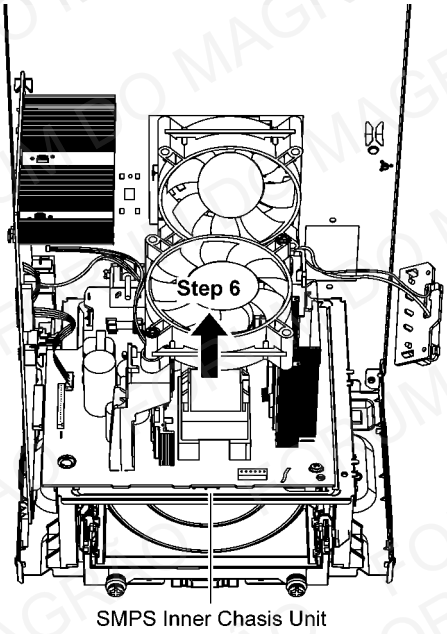
Step 4 Remove 3 screws.



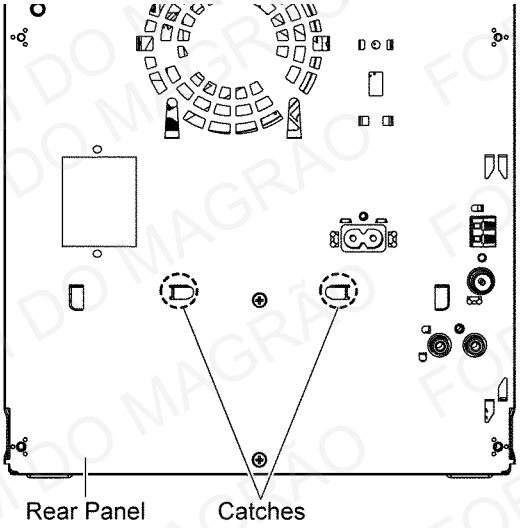
Step 5 Detach the Voltage Selector P.C.B. from Rear Panel as arrow shown.



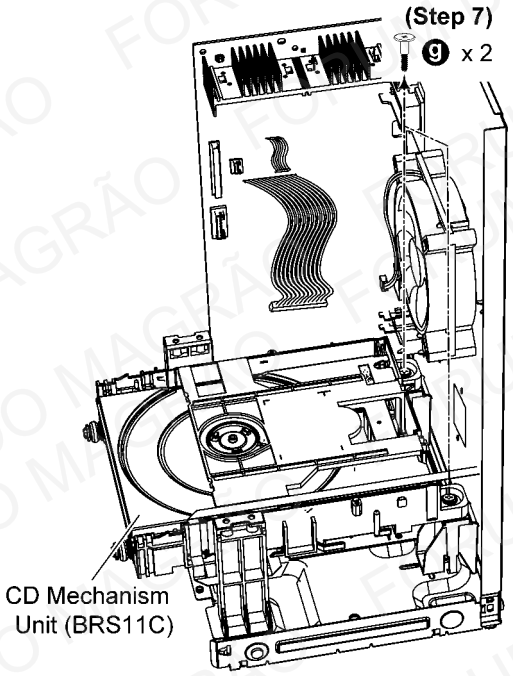
Step 6 Lift up and remove the SMPS Inner Chassis Unit.



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



Step 7 Remove 2 screws.



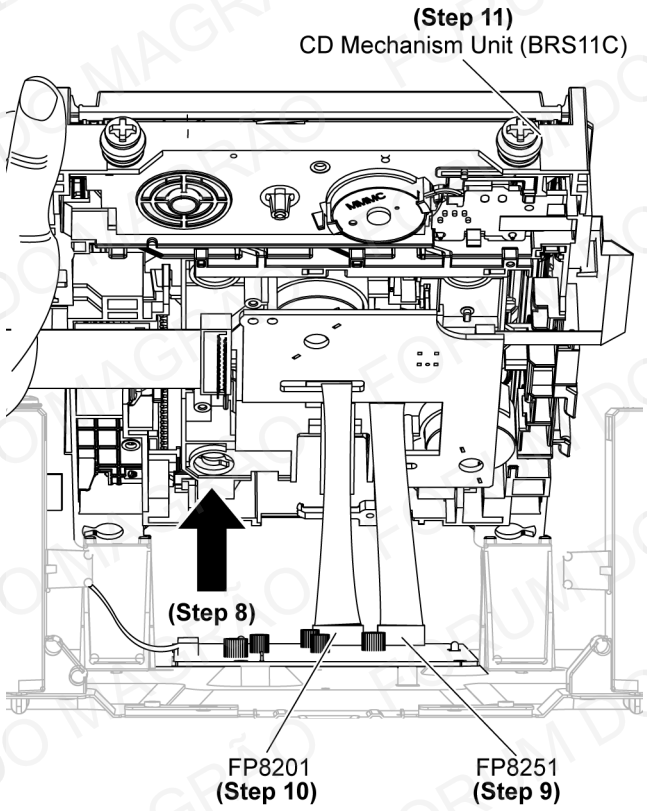
Step 8 Slightly lift up the CD Mechanism Unit (BRS11C) as shown.

Caution: Do not exert too much force as it may damage the wiring within.

Step 9 Detach 10P FFC at the connector (FP8251) on CD Servo P.C.B..

Step 10 Detach 24P FFC at the connector (FP8201) on CD Servo P.C.B..

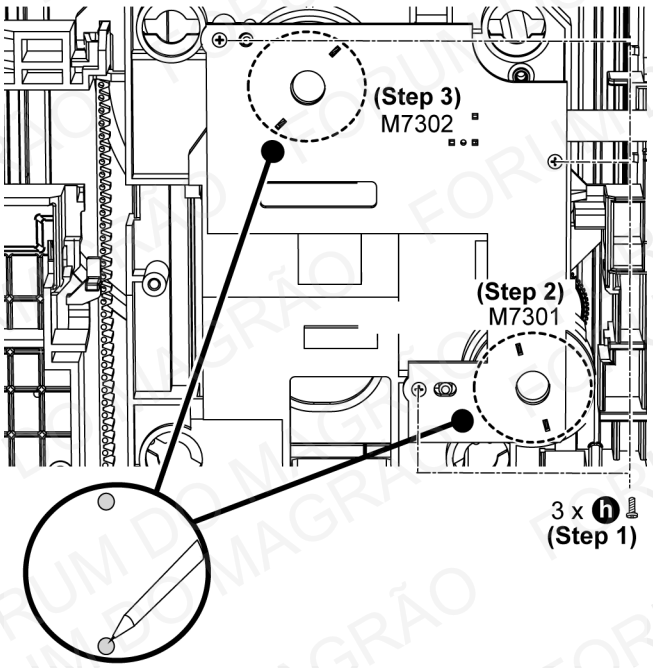
Step 11 Remove the CD Mechanism Unit (BRS11C).



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

- **Refer to "Disassembly of CD Mechanism Unit (BRS11C)".**

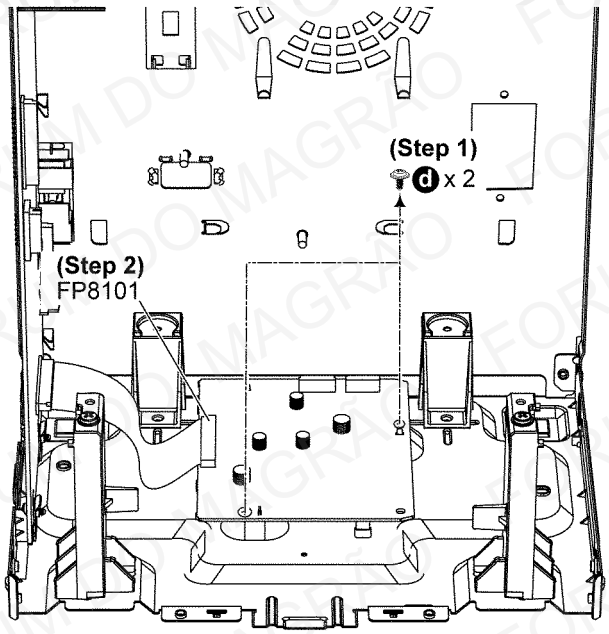
Step 1 Remove 3 screws.
Step 2 Desolder pins of the motor (M7301).
Step 3 Desolder pins of the motor (M7302).



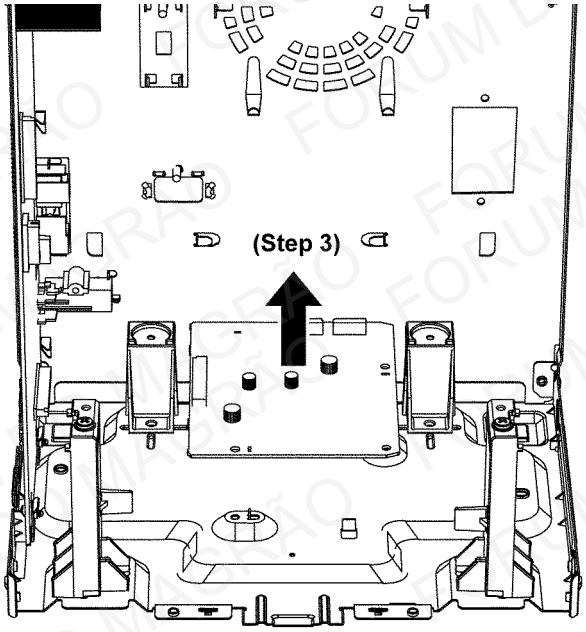
11.31. Disassembly of CD Servo P.C.B.

- **Refer to "Disassembly of CD Mechanism Unit (BRS11C)".**

Step 1 Remove 2 screws.
Step 2 Detach 30P FFC at the connector (FP8101).



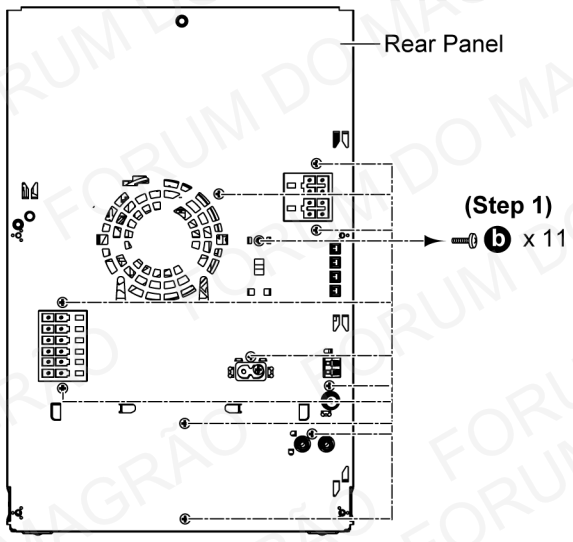
Step 3 Remove the CD Servo P.C.B..



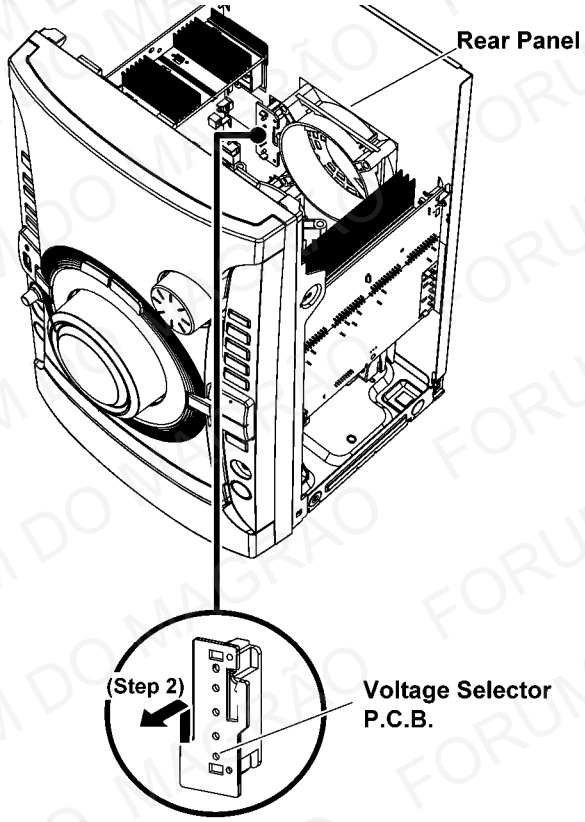
11.32. Disassembly of Rear Panel

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

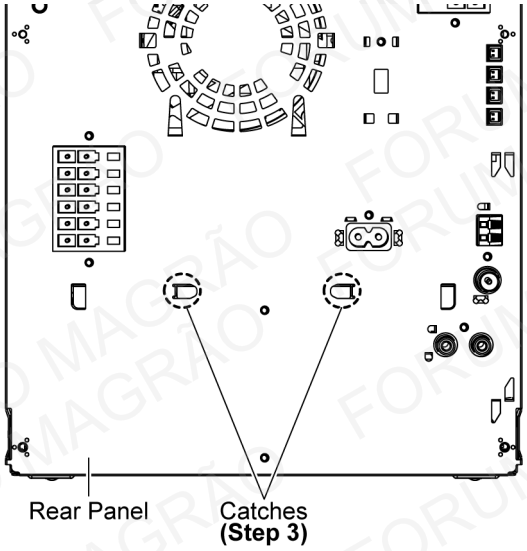
Step 1 Remove 11 screws.



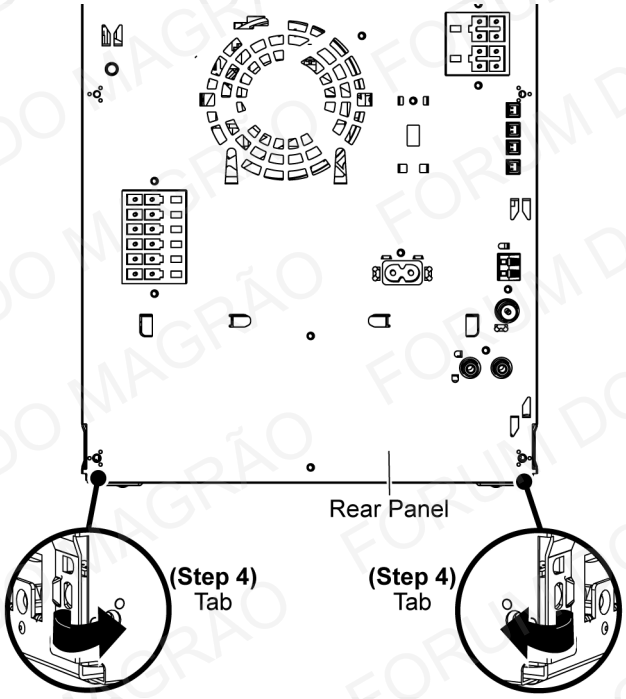
Step 2 Detach the Voltage Selector P.C.B. from Rear Panel as arrow shown.



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



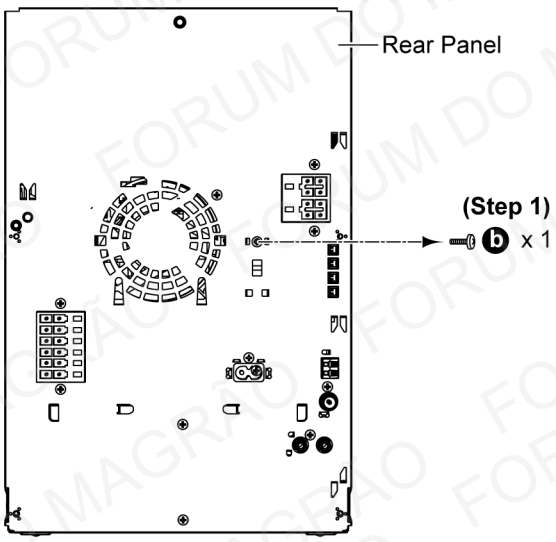
Step 4 Release 2 tabs.
Step 5 Remove the Rear Panel.



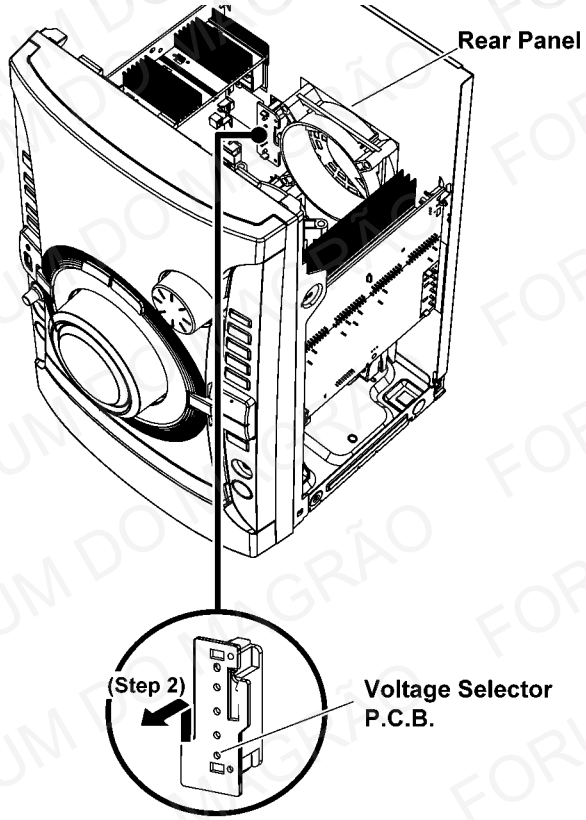
11.33. Disassembly of Voltage Selector P.C.B.

• **Refer to “Disassembly of Top Cabinet”.**

Step 1 Remove 1 screw.



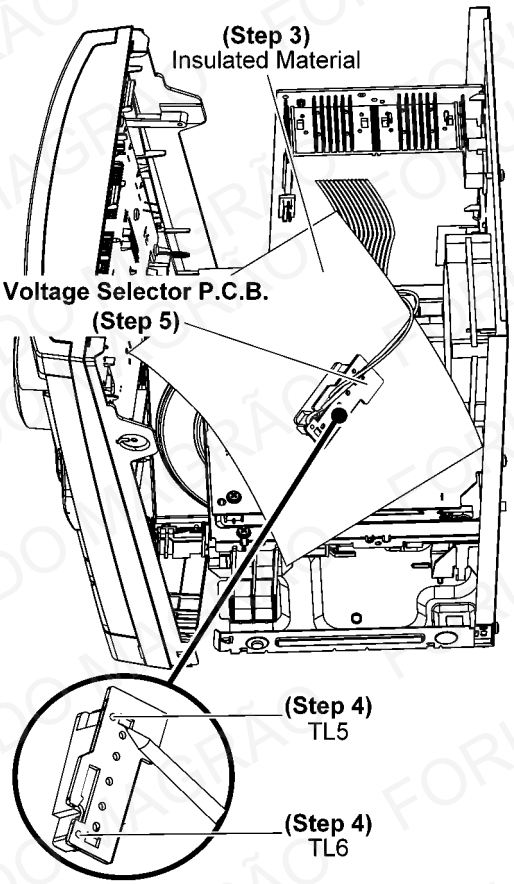
Step 2 Detach the Voltage Selector P.C.B. from Rear Panel.



Step 3 Place the Voltage Selector P.C.B. on the Insulated Material.

Step 4 Desolder Black Wire(TL5) and Red Wire(TL6).

Step 5 Remove the Voltage Selector P.C.B..

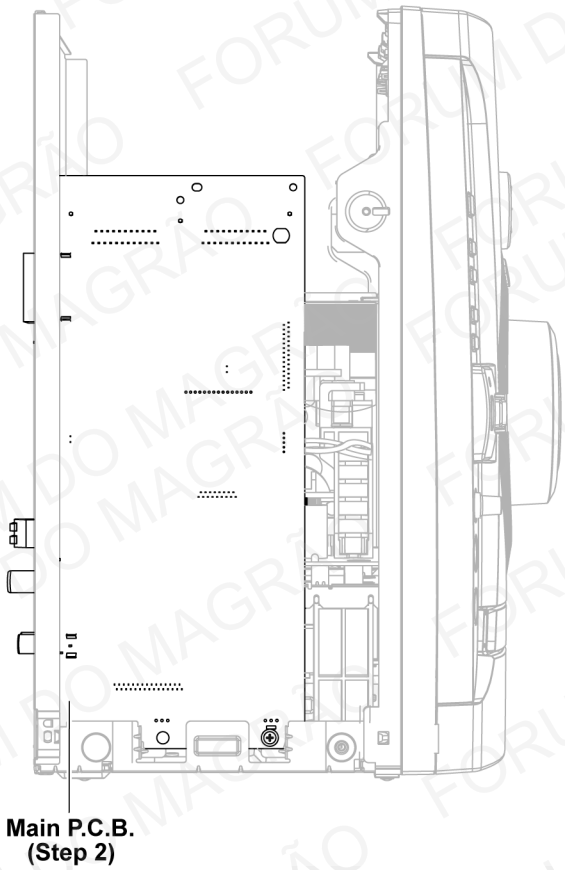


12 Service Position

Note: For description of the disassembly procedures, see the Section 11.

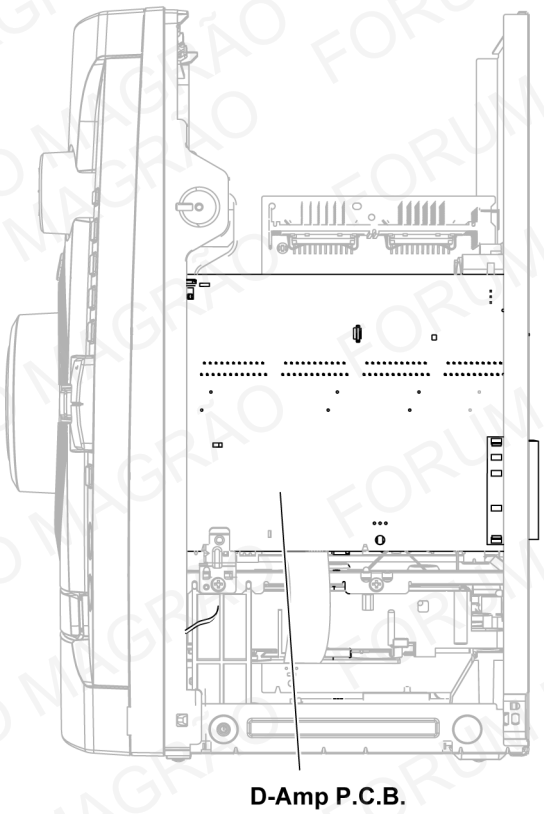
12.1. Checking and Repairing of Main P.C.B.

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



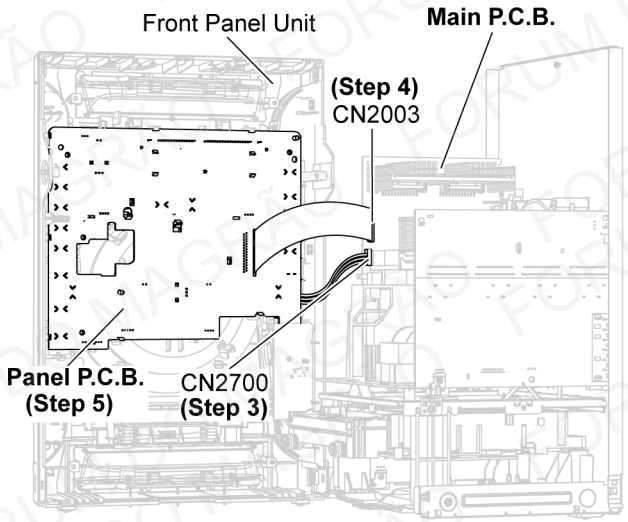
12.2. Checking and Repairing of D-Amp P.C.B.

Step 1 Remove Top Cabinet.
Step 2 D-Amp P.C.B. can be checked & repaired as diagram shown.



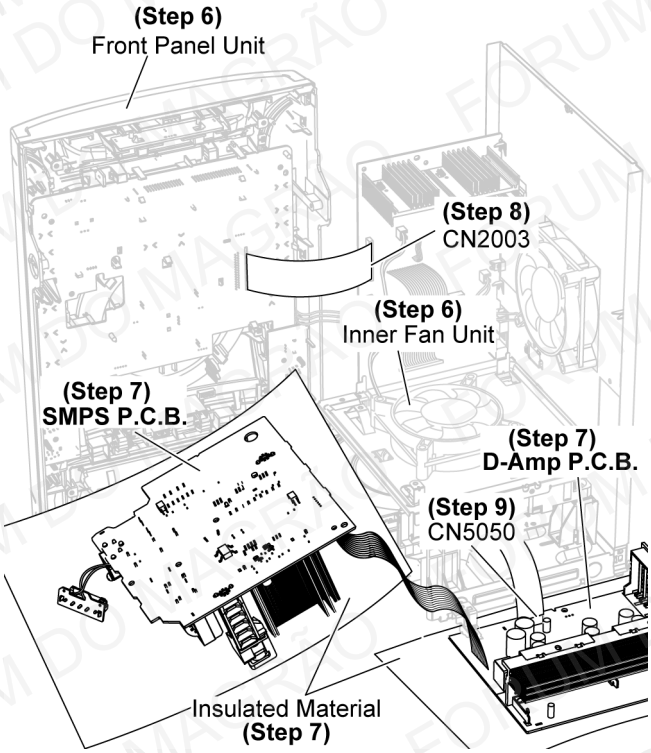
12.3. Checking and Repairing of Panel P.C.B.

Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Attach 5P Cable Wire to the connector (CN2700) on Main P.C.B..
Step 4 Attach 27P FFC to the connector (CN2003) on Main P.C.B..
Step 5 Panel P.C.B. can be checked and repaired as diagram shown.



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

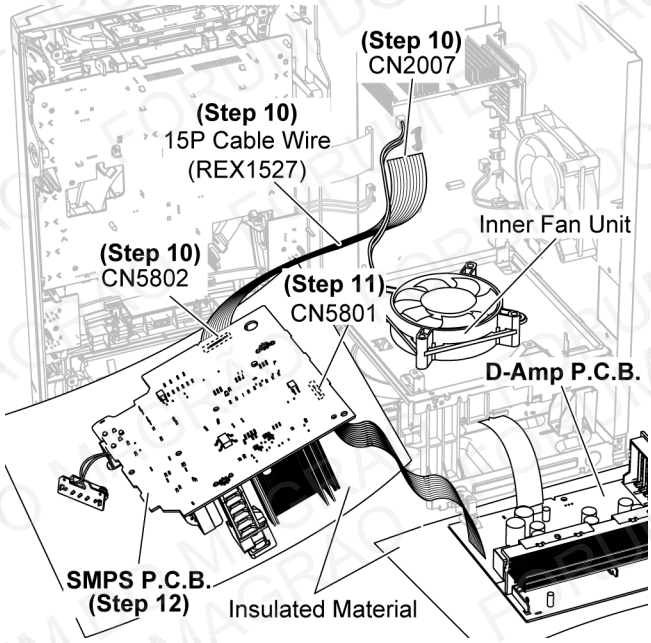
Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Remove D-Amp P.C.B..
Step 4 Remove Inner Fan Unit.
Step 5 Remove SMPS P.C.B..
Step 6 Place the Front Panel Unit, Inner Fan Unit as diagram shown.
Step 7 Place the SMPS P.C.B., D-Amp P.C.B. on the insulated material.
Step 8 Attach 27P FFC to the connector (CN2003) 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 (REX1527 15P Cable Wire) from CN2007 on Main P.C.B. to CN5802 on SMPS P.C.B..

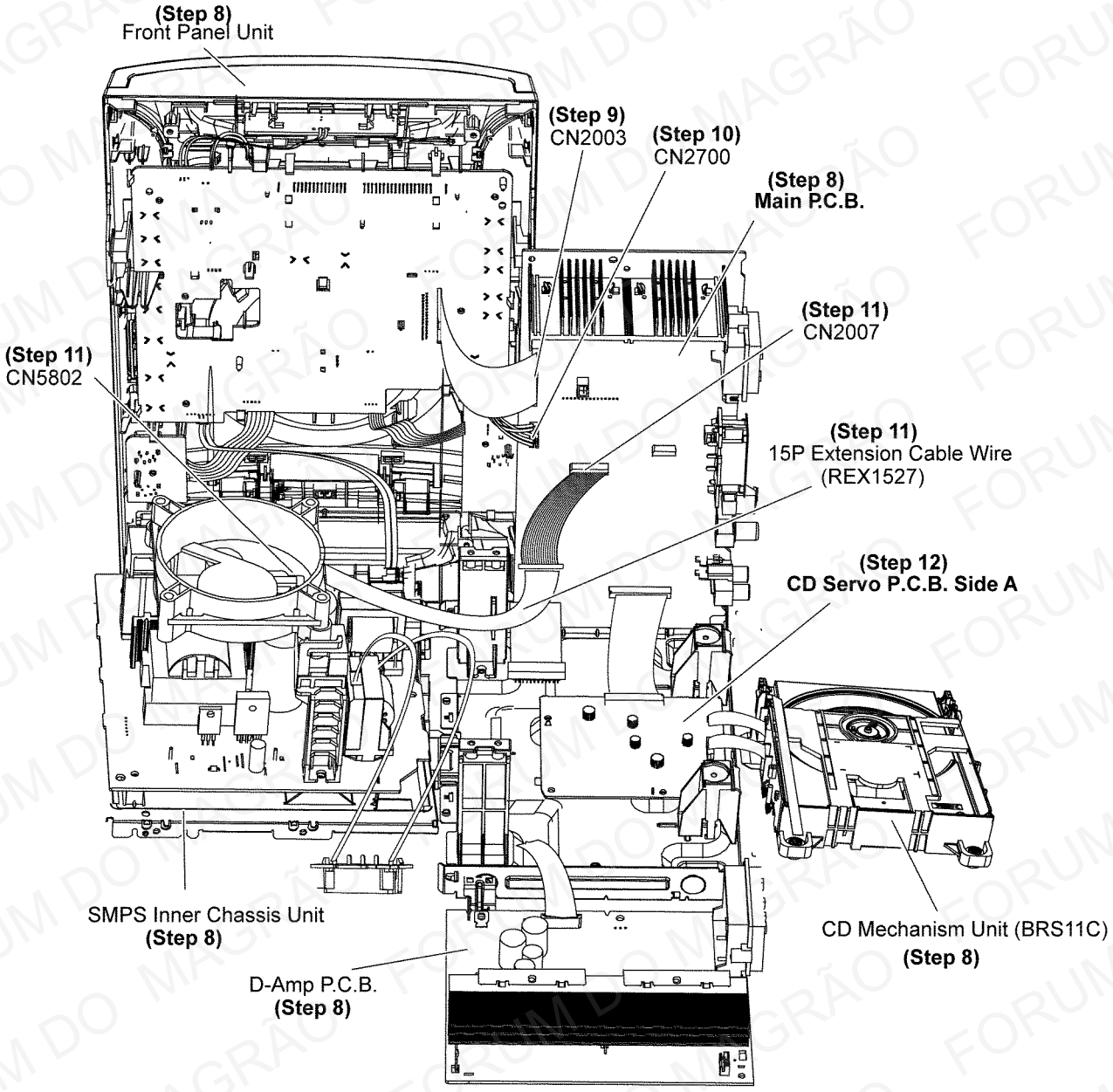
Step 11 Connect 6P Cable Wire to the connector (CN5801) on SMPS P.C.B..

Step 12 SMPS P.C.B. can be checked & repaired as diagram shown.



12.5. Checking and Repairing of CD Servo P.C.B. (Side A)

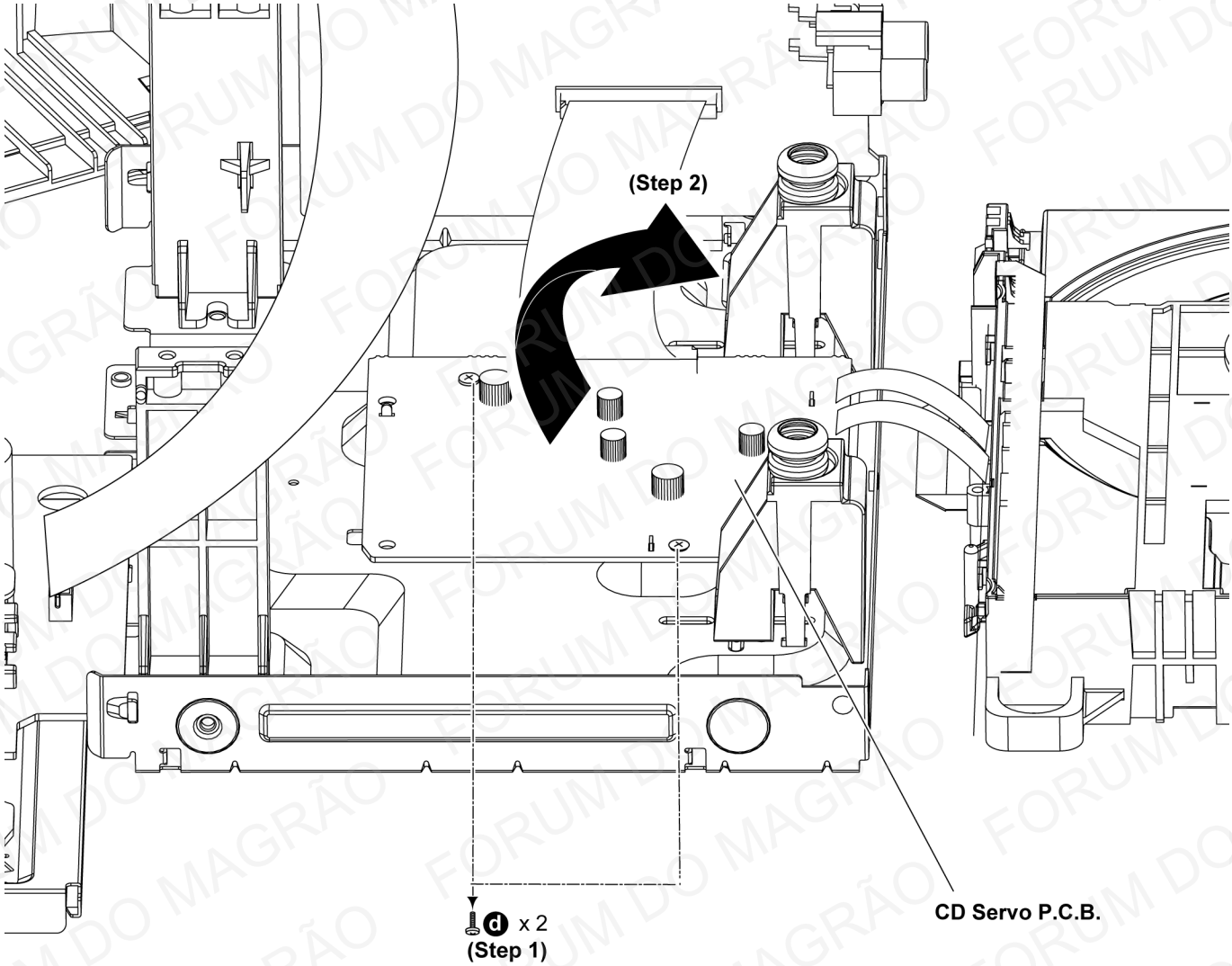
Step 1 Remove Top Cabinet.
Step 2 Remove Front Panel Unit.
Step 3 Remove D-Amp P.C.B..
Step 4 Remove SMPS Inner Chassis Unit.
Step 5 Remove CD Mechanism Unit (BRS11C).
Step 6 Remove Main P.C.B..
Step 7 Remove Rear Panel.
Step 8 Place the Front Panel Unit, D-Amp P.C.B., SMPS Inner Chassis Unit, CD Mechanism Unit (BRS11C), Main P.C.B as diagram shown.
Step 9 Attach 27P FFC to the connector (CN2003) on the Main P.C.B..
Step 10 Attach 5P Cable Wire to the connector (CN2700) on the Main P.C.B..
Step 11 Extend the Cable Wire with extension Cable Wire (REX1527 15P Cable Wire) from CN2007 on Main P.C.B. to CN5802 on the SMPS P.C.B..
Step 12 CD Servo P.C.B. Side A can be checked and repaired as diagram shown.



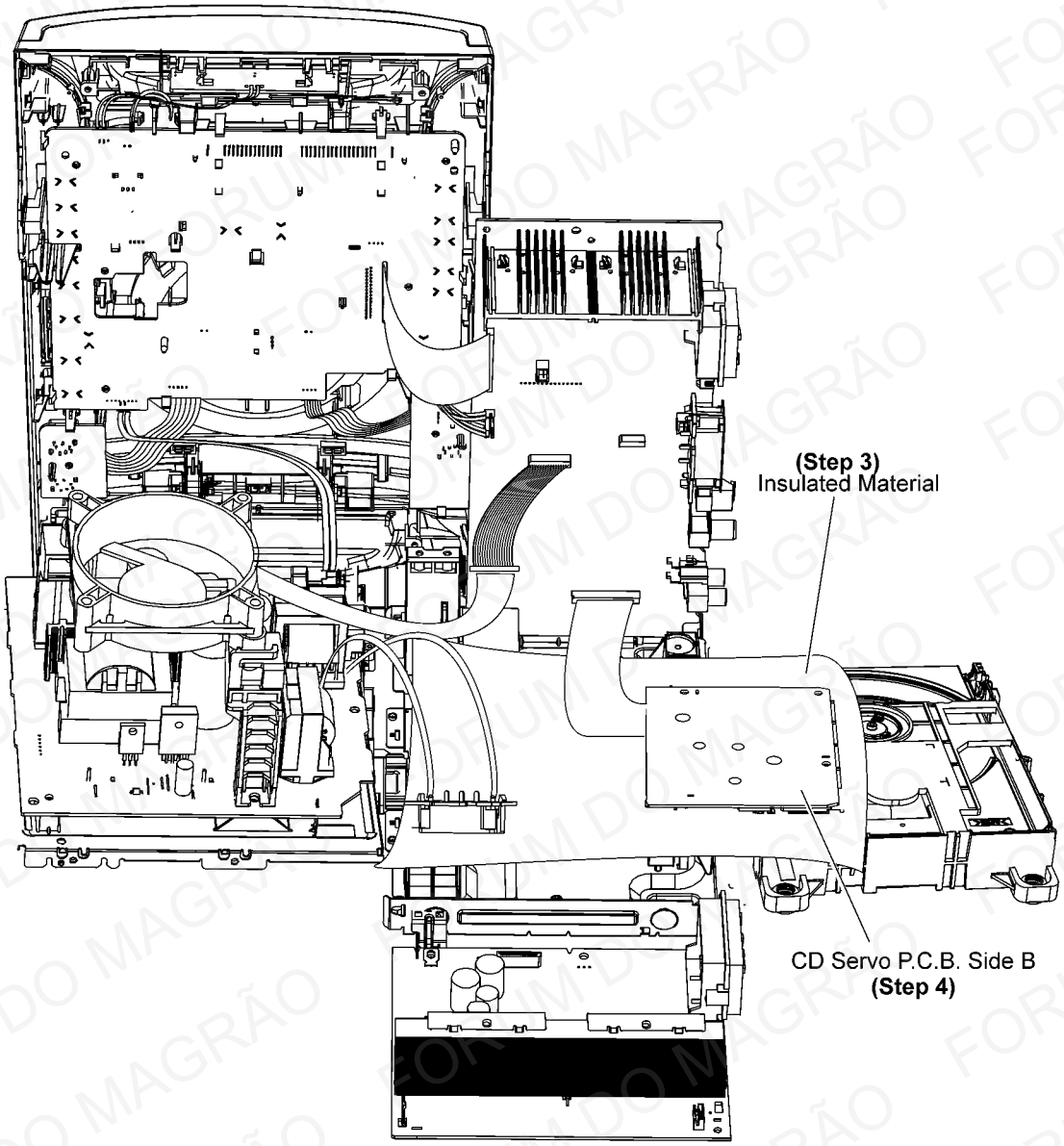
12.6. Checking and Repairing of CD Servo P.C.B. (Side B)

• Refer to “Checking and repairing of CD Servo P.C.B. (Side A)”.

Step 1 Remove 2 screws.
Step 2 Flip the Servo P.C.B. as illustration show.

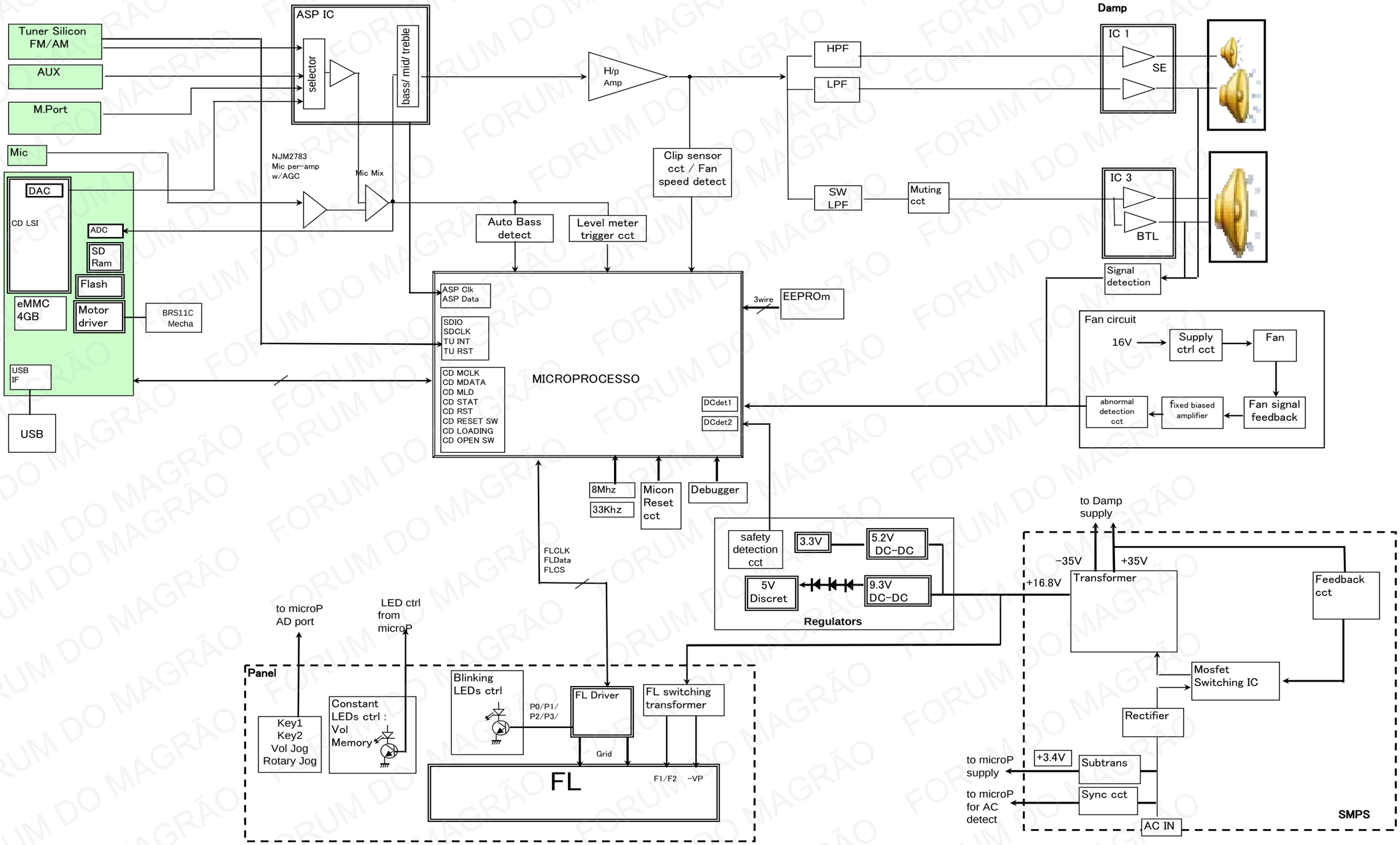


Step 3 Place the CD Servo P.C.B. on the insulated material.
Step 4 CD Servo P.C.B. Side B can be checked and repaired as diagram shown.



13 Simplified Block Diagram

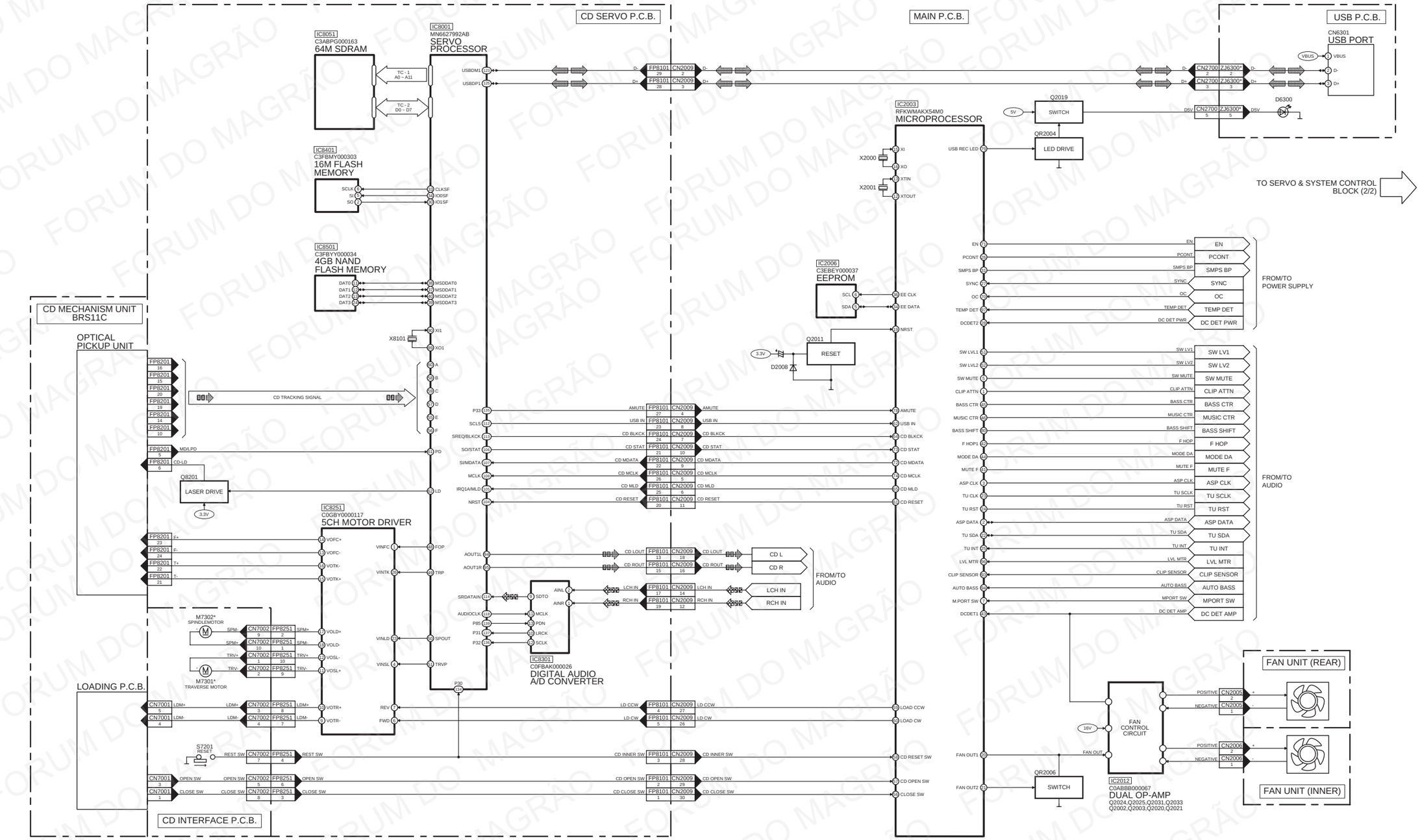
13.1. Power Block Diagram



14 Block Diagram

14.1. Servo & System Control

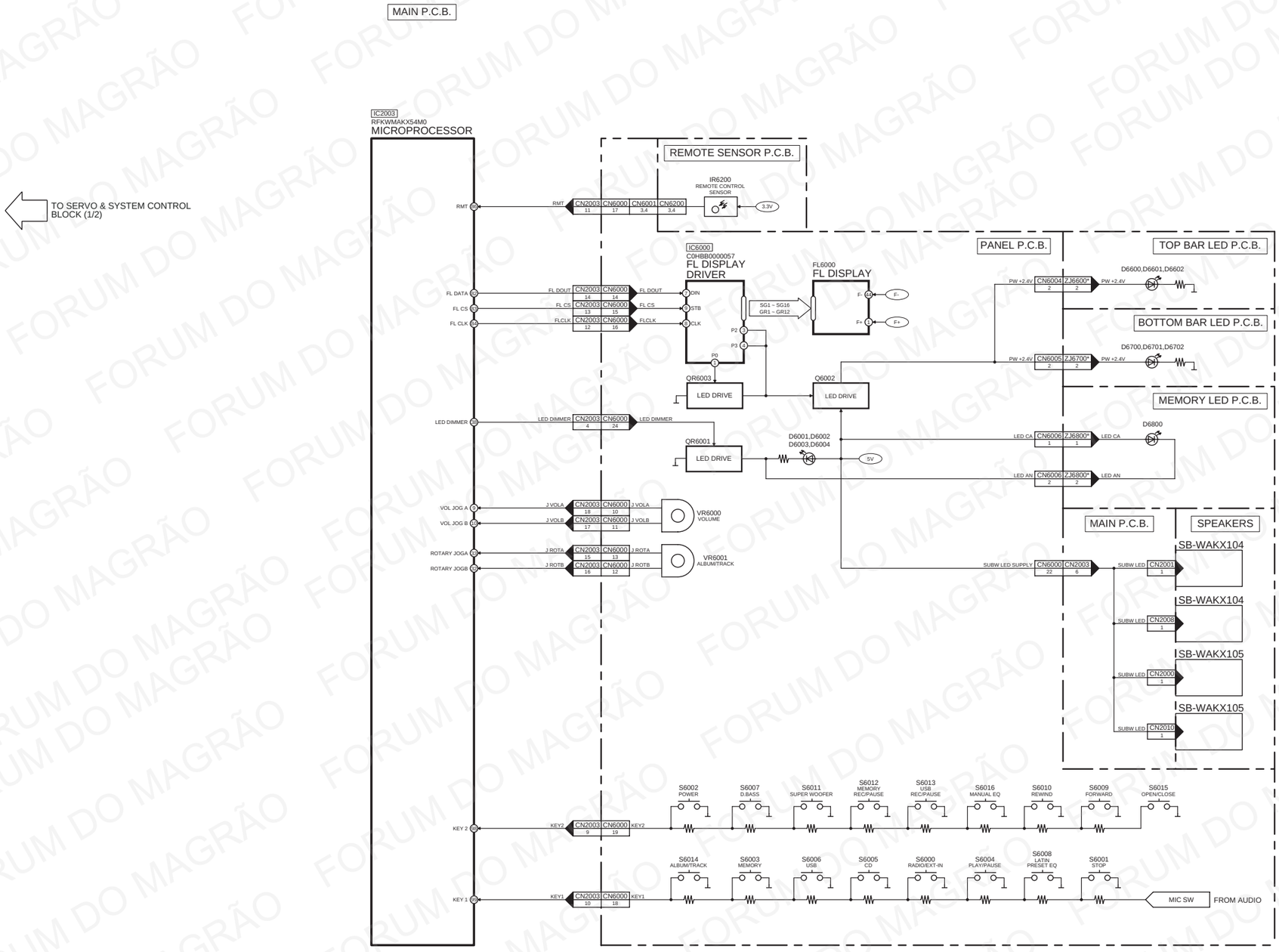
: CD AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX105PH SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM

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



NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX105PH SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

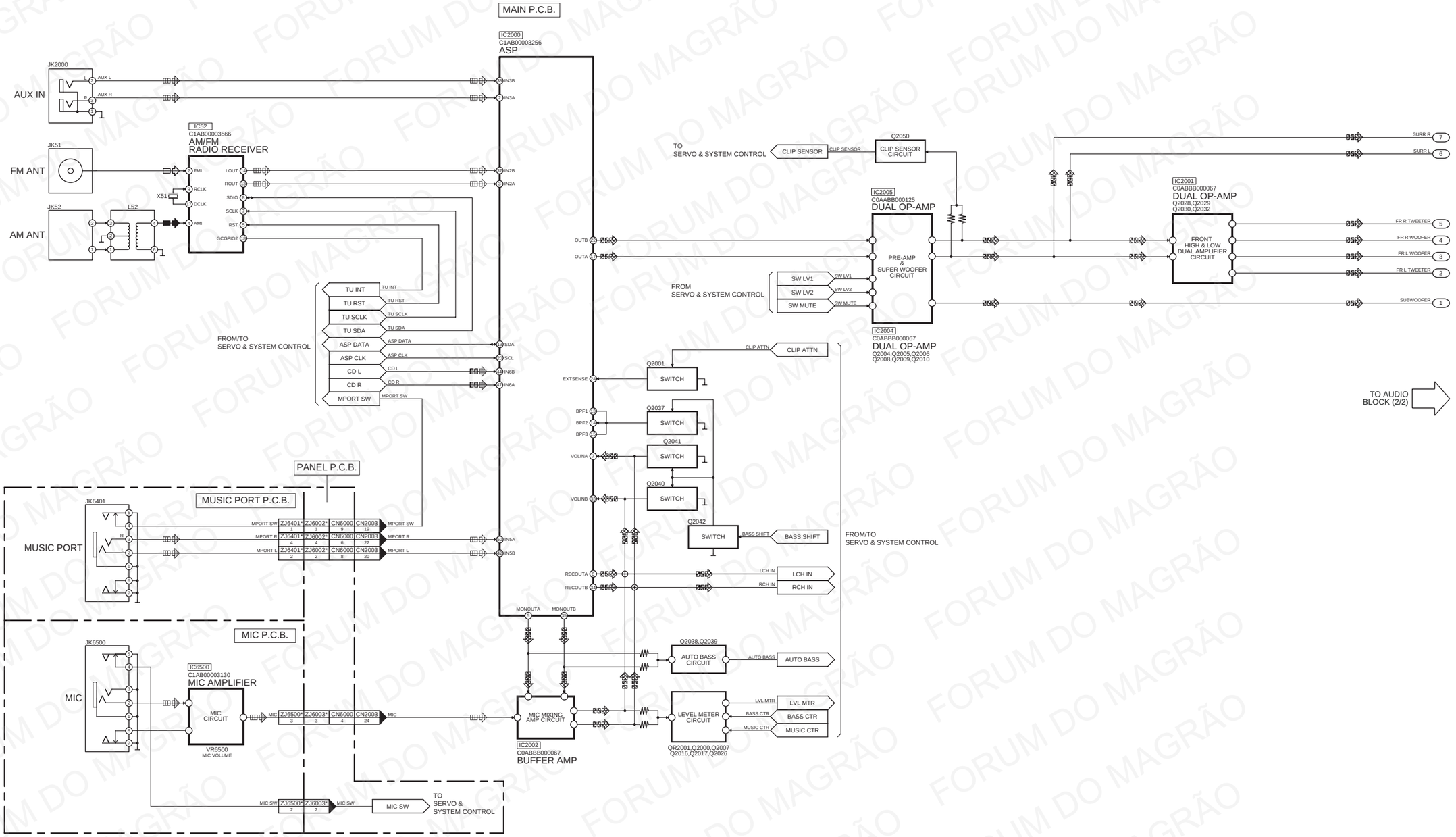
14.2. IC Terminal Chart

TC	IC8051 64M SDRAM		SIGNAL NAME	IC8001 SERVO PROCESSOR	
	PORT NAME	PIN NO		PIN NO	PORT NAME
1	A0	23	A0	14	A0
	A1	24	A1	15	A1
	A2	25	A2	16	A2
	A3	26	A3	17	A3
	A4	29	A4	20	A4
	A5	30	A5	21	A5
	A6	31	A6	22	A6
	A7	32	A7	23	A7
	A8	33	A8	24	A8
	A9	34	A9	25	A9
	A10	22	A10	13	A10
	A11	35	A11	26	A11

TC	IC8051 64M SDRAM		SIGNAL NAME	IC8001 SERVO PROCESSOR	
	PORT NAME	PIN NO		PIN NO	PORT NAME
2	DQ0 / DQ15	2 / 53	D0	142	D0
	DQ1 / DQ14	4 / 51	D1	143	D1
	DQ2 / DQ13	5 / 50	D2	144	D2
	DQ3 / DQ12	7 / 48	D3	2	D3
	DQ4 / DQ11	8 / 47	D4	3	D4
	DQ5 / DQ10	10 / 45	D5	4	D5
	DQ6 / DQ9	11 / 44	D6	5	D6
	DQ7 / DQ8	13 / 42	D7	6	D7

14.3. Audio

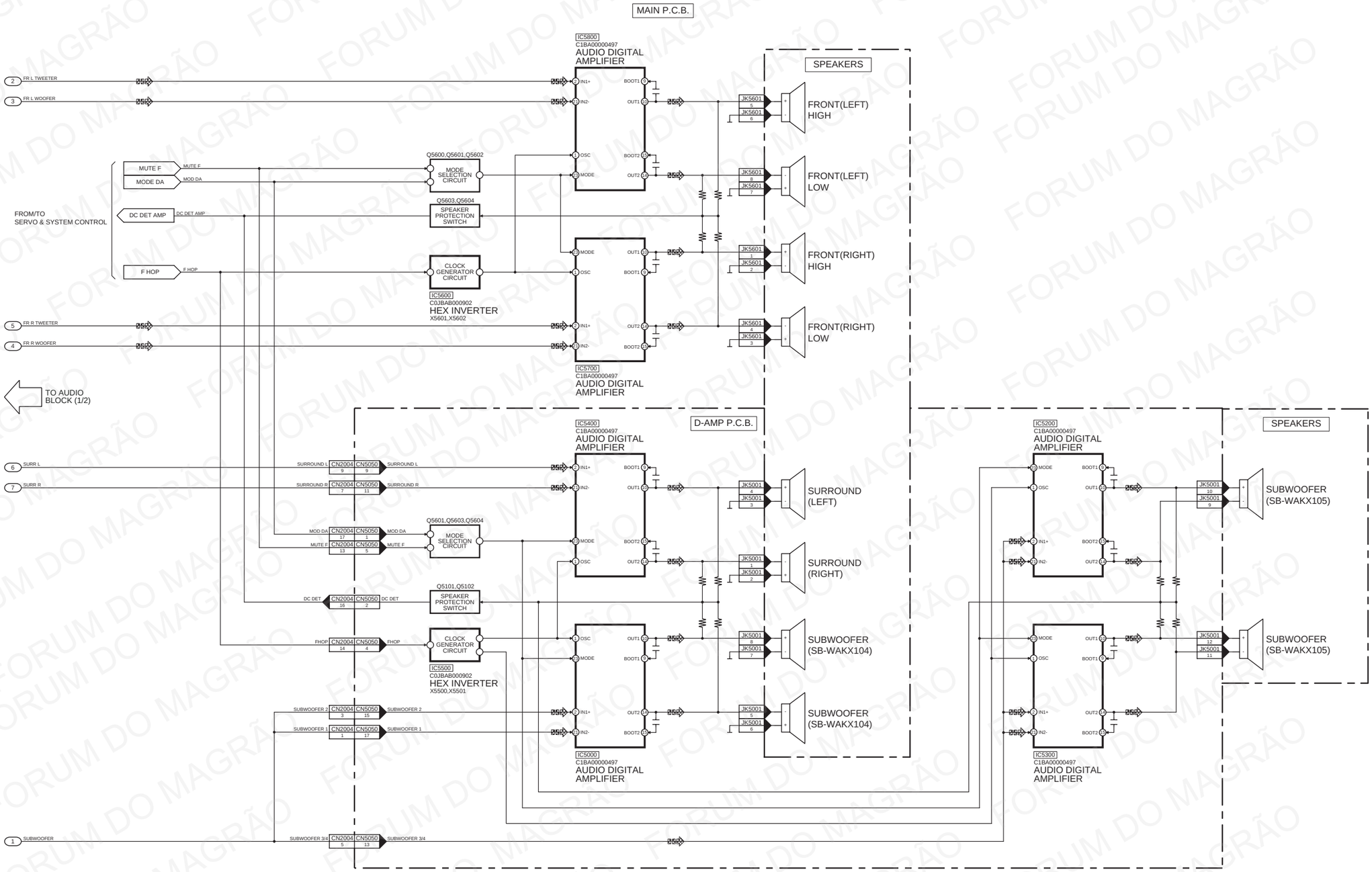
: CD AUDIO INPUT SIGNAL LINE : AUX/TUNER/MUSIC PORT/MIC AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

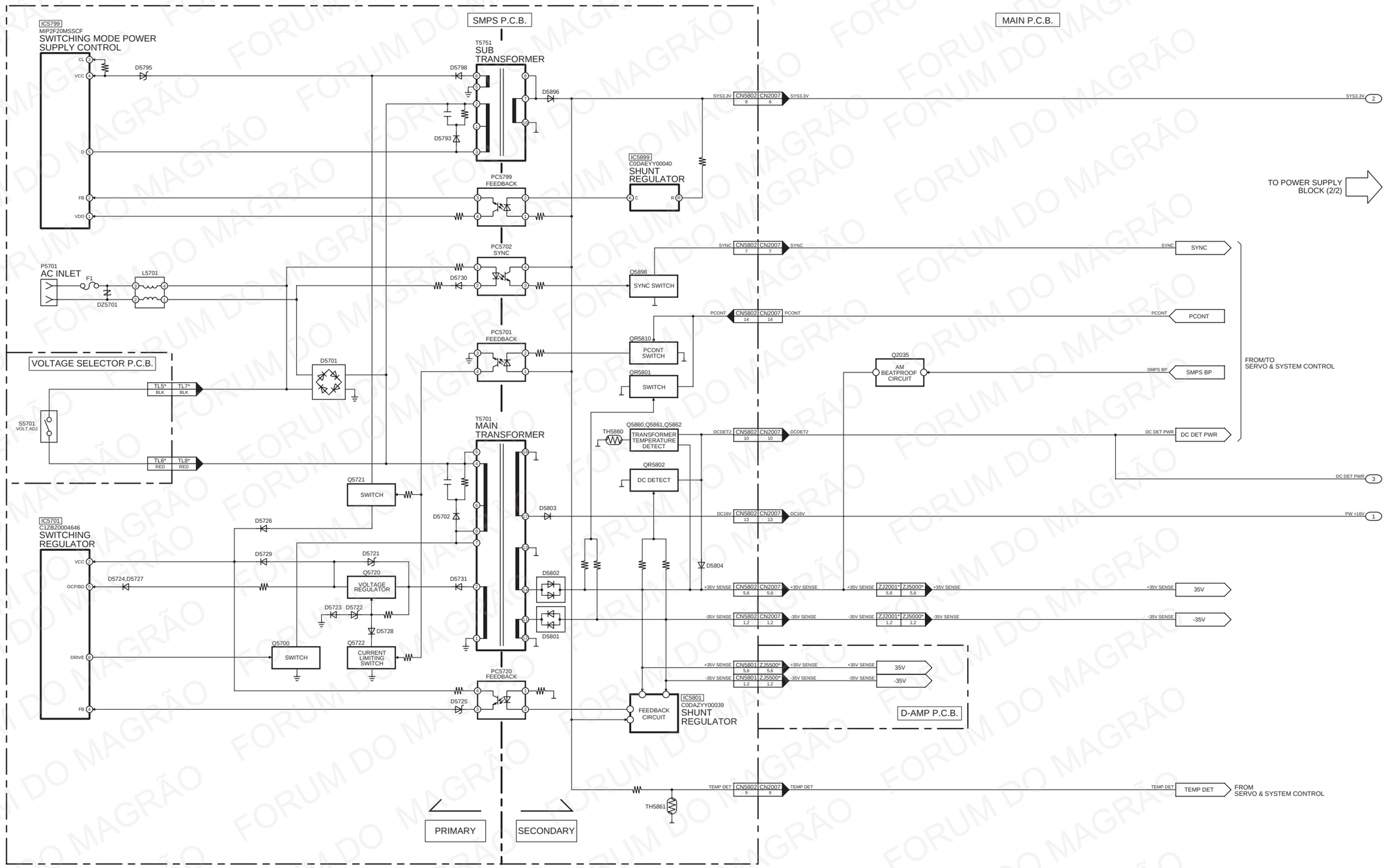
SA-AKX105PH AUDIO (1/2) BLOCK DIAGRAM

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



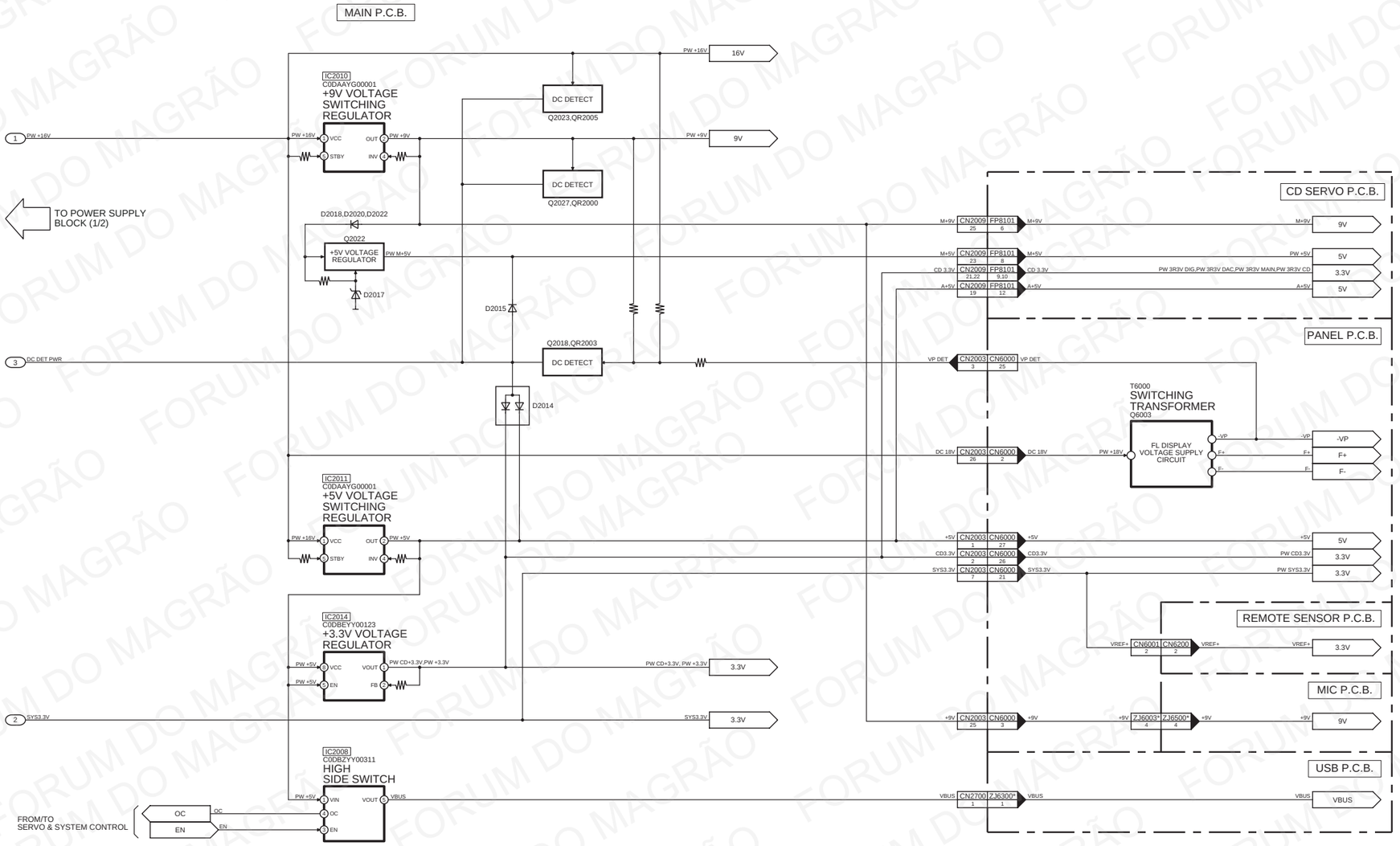
SA-AKX105PH AUDIO (2/2) BLOCK DIAGRAM

14.4. Power Supply



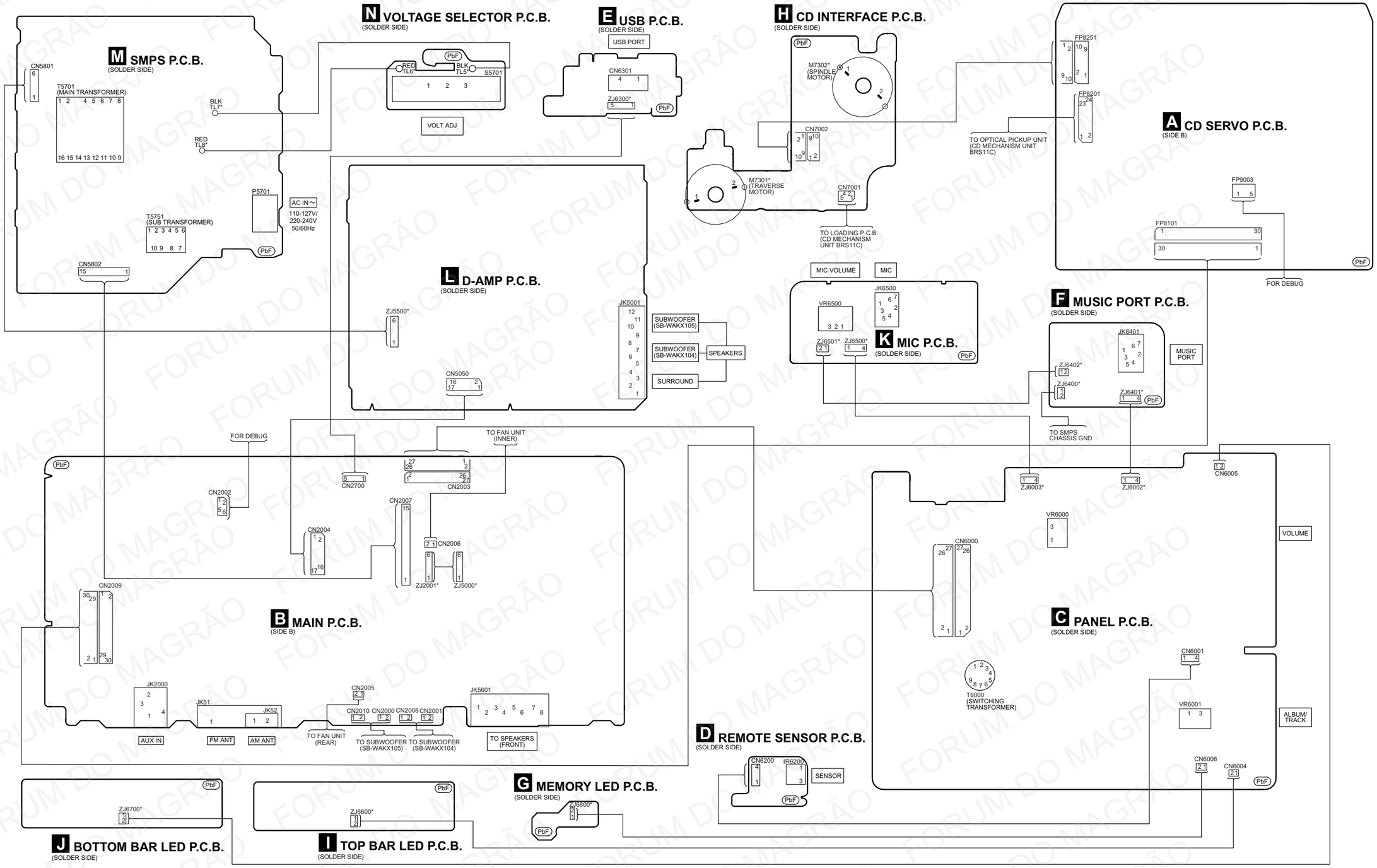
NOTE: " * " REF IS FOR INDICATION ONLY

SA-AKX105PH POWER SUPPLY (1/2) BLOCK DIAGRAM



SA-AKX105PH POWER SUPPLY (2/2) BLOCK DIAGRAM

15 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX105PH WIRING CONNECTION DIAGRAM

16 Schematic Diagram

16.1. Schematic Diagram Notes

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

Notes:

S5701: AC Voltage switch.
S6000: Radio/EXT-IN switch.
S6001: Stop (■) switch.
S6002: Power (⏻/|) switch.
S6003: Memory switch.
S6004: Play/Pause (▶ / ▮▮) switch.
S6005: CD switch.
S6006: USB switch.
S6007: D.BASS switch.
S6008: Latin Preset EQ switch.
S6009: Forward (▶▶ / ▶▶\|) switch.
S6010: Rewind (\|◀◀ / ◀◀) switch.
S6011: Super Woofer switch.
S6012: Memory Rec/Pause switch.
S6013: USB Rec/Pause switch.
S6014: Album/Track switch.
S6015: Open/Close switch (⏏).
S6016: Manual EQ switch.
S7201: Reset switch.
VR6000: Volume Jog.
VR6001: Album/Track Jog.
VR6500: Mic 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:
  C5700, C5701, C5704, C5705, 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/Tuner/Music Port/Mic Audio input signal line
  : Audio output signal line
  : USB signal line
  : AM signal line
  : FM signal line

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

RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

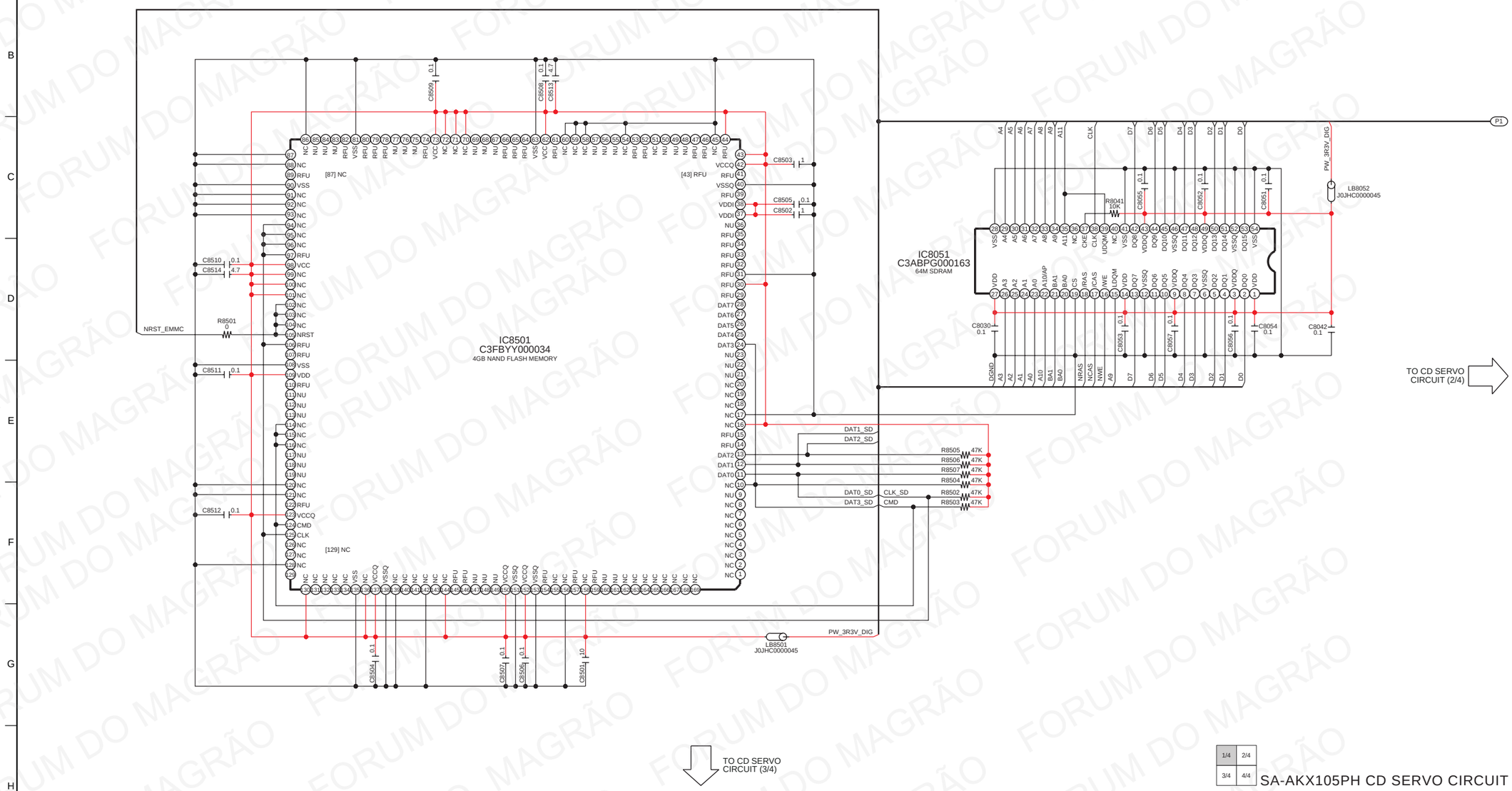
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection againts fire harzard, replace with the same type fuse. fro rating, refer to the marking adjacent to the symbol.

16.2. CD Servo Circuit

SCHEMATIC DIAGRAM - 1

A CD SERVO CIRCUIT

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



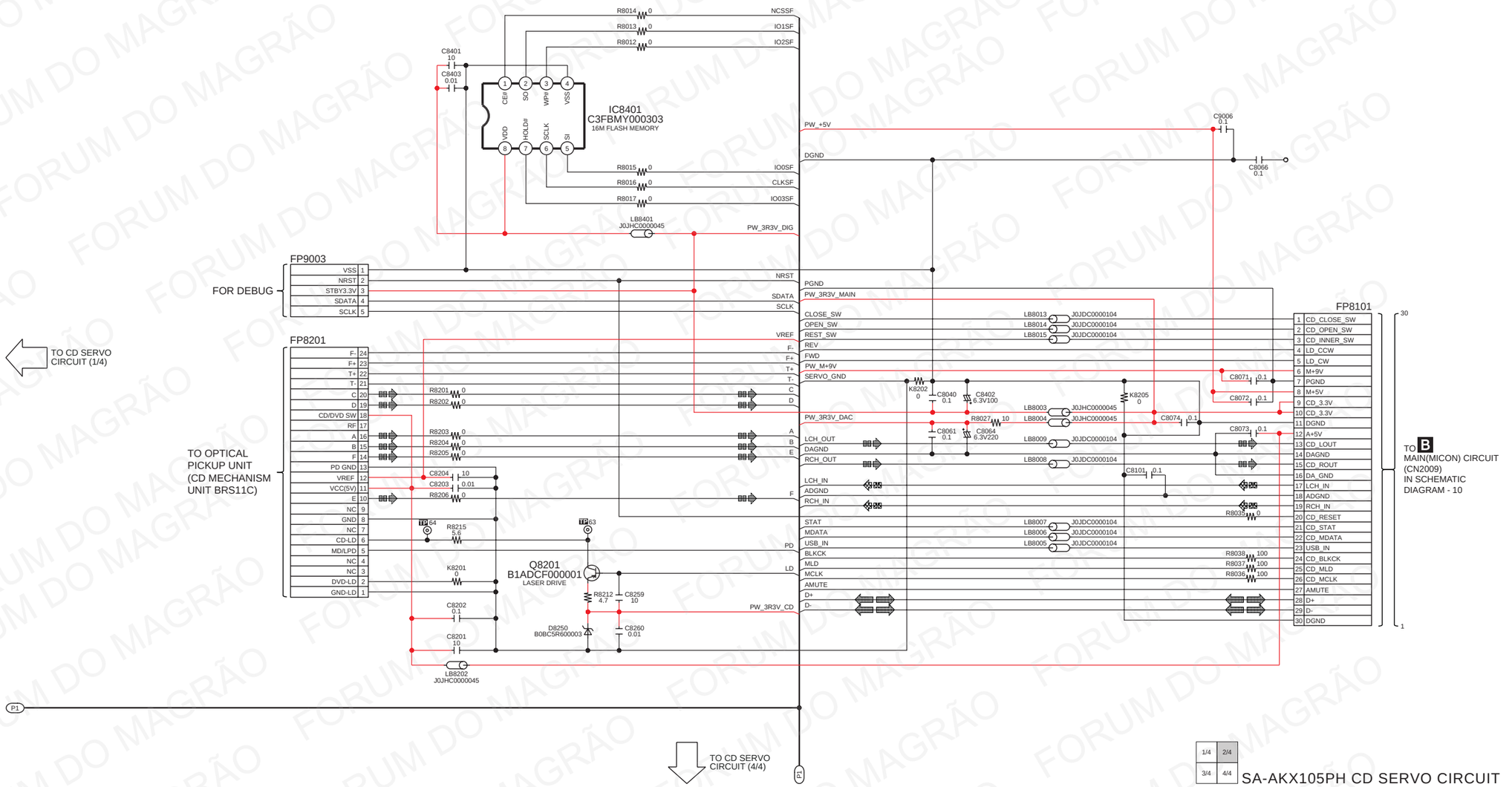
1/4	2/4
3/4	4/4

SA-AKX105PH CD SERVO CIRCUIT

SCHEMATIC DIAGRAM - 2

A CD SERVO CIRCUIT

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



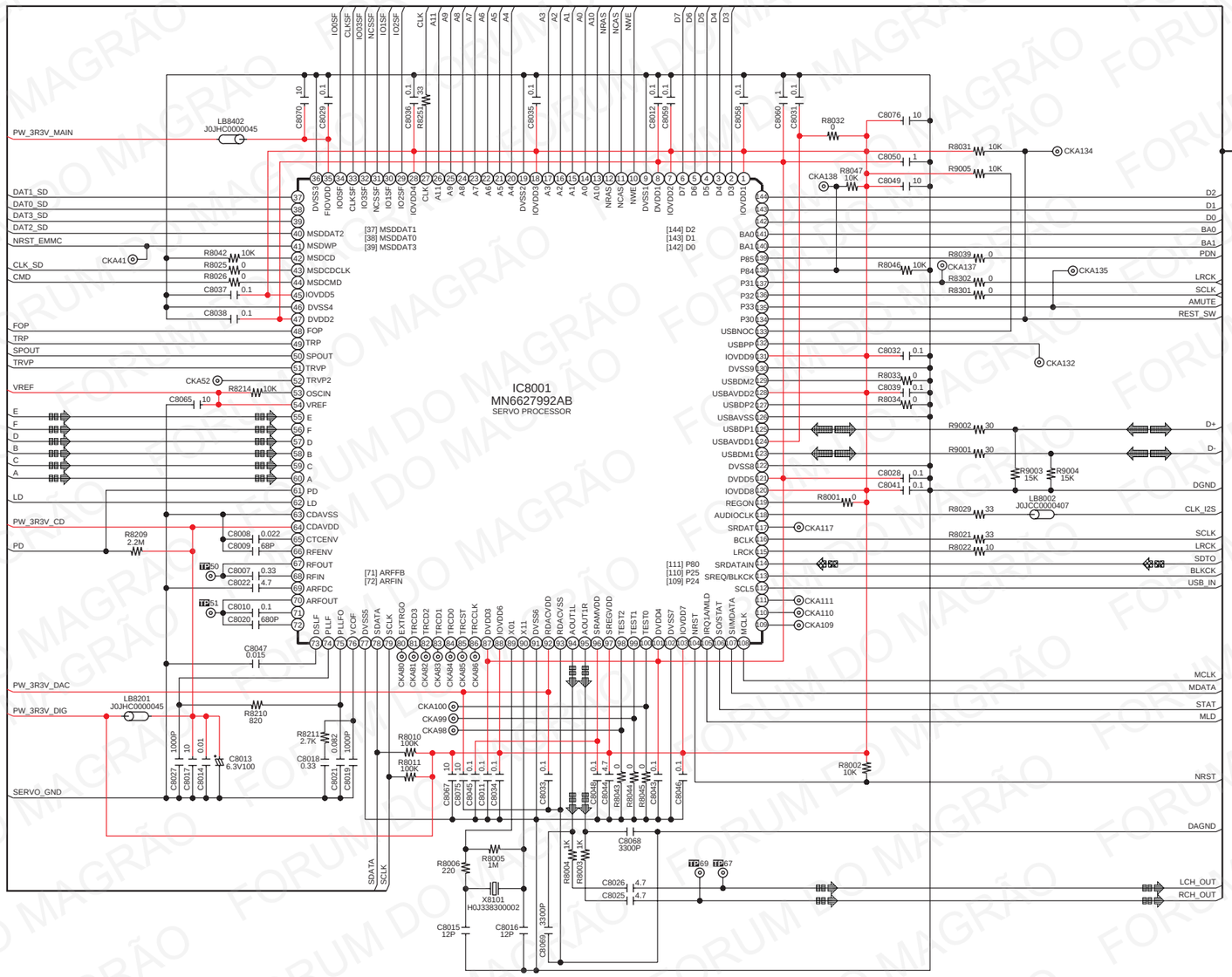
1/4 | 2/4 | 3/4 | 4/4

SA-AKX105PH CD SERVO CIRCUIT

SCHEMATIC DIAGRAM - 3

A CD SERVO CIRCUIT

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



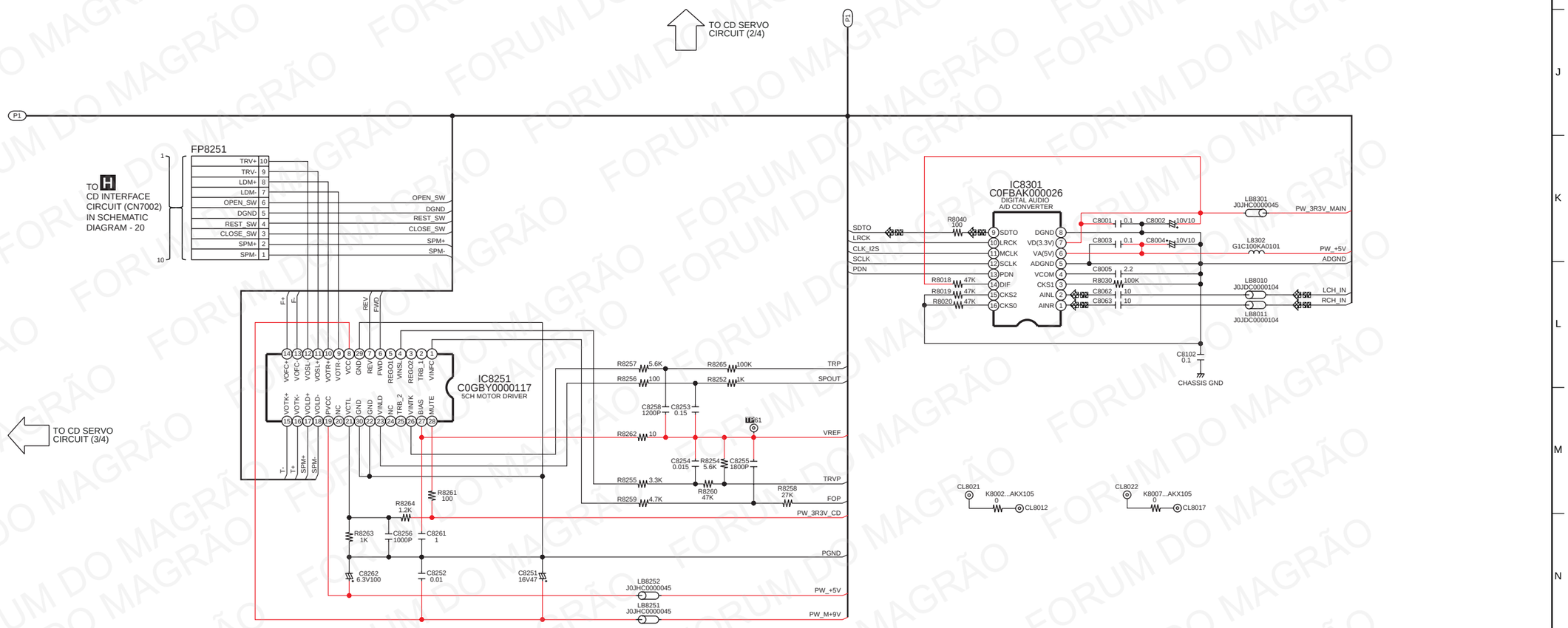
1/4	2/4
3/4	4/4

SA-AKX105PH CD SERVO CIRCUIT

SCHEMATIC DIAGRAM - 4

A CD SERVO CIRCUIT

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



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

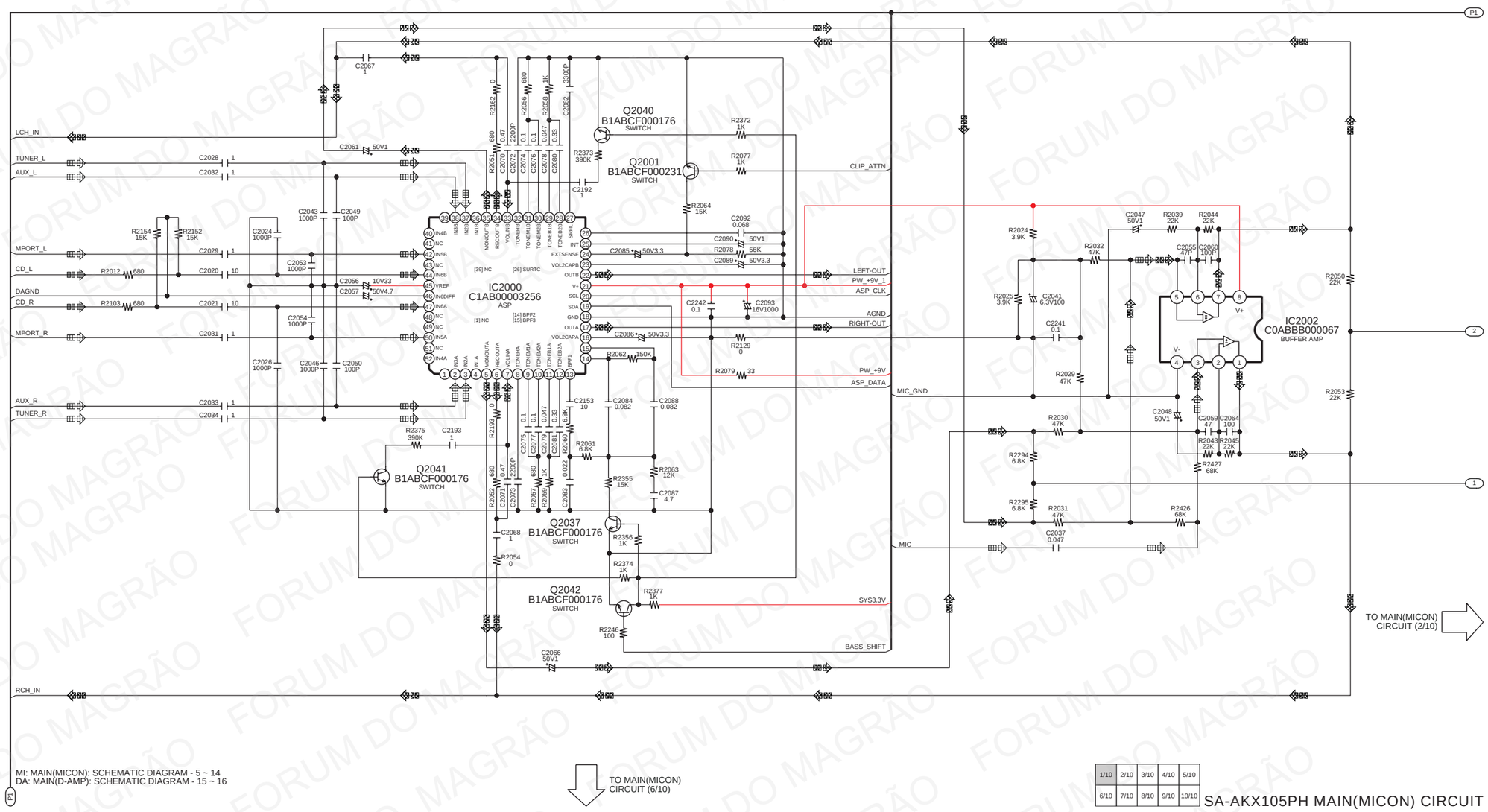
SA-AKX105PH CD SERVO CIRCUIT

16.3. Main(Micon) Circuit

SCHEMATIC DIAGRAM - 5

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

TO MAIN(MICON) CIRCUIT (6/10)

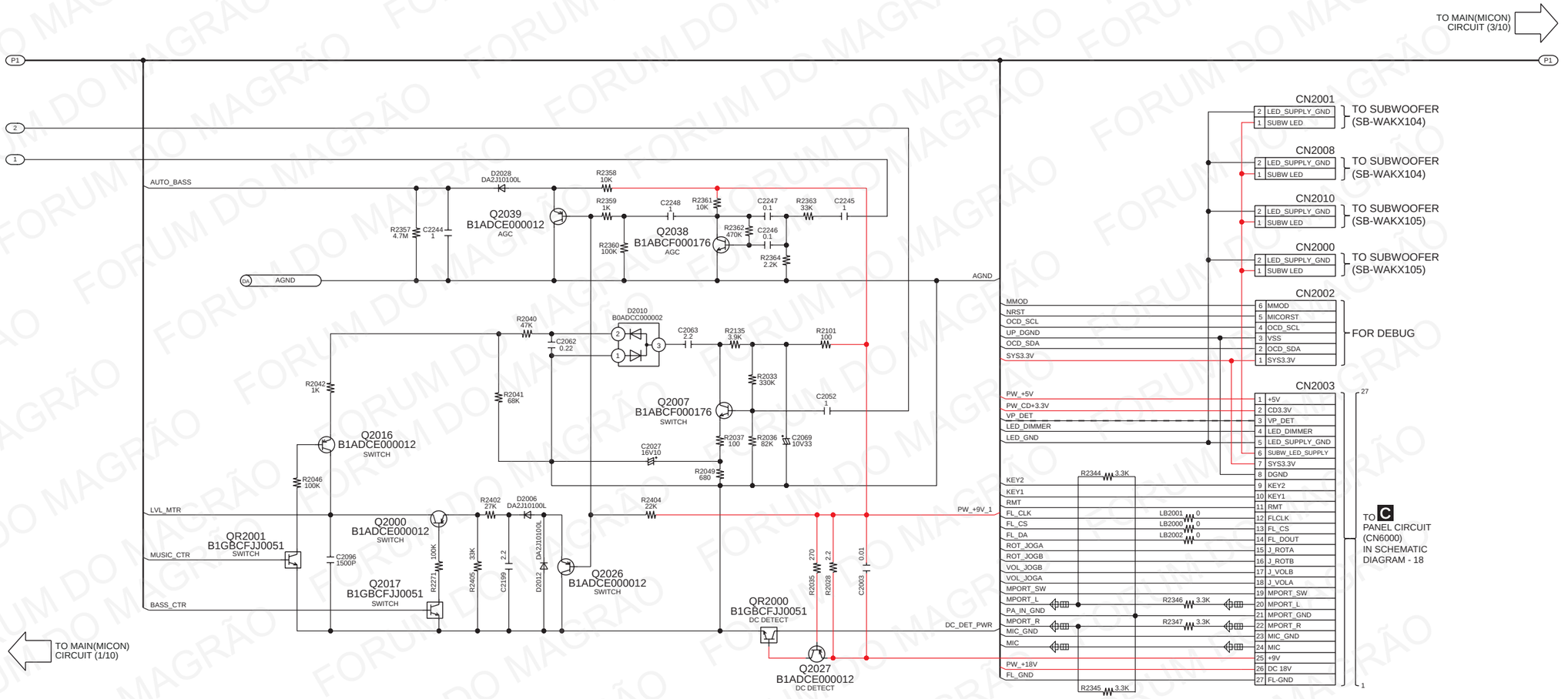
1/10	2/10	3/10	4/10	5/10
6/10	7/10	8/10	9/10	10/10

SA-AKX105PH MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 6

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

TO MAIN(MICON) CIRCUIT (7/10)

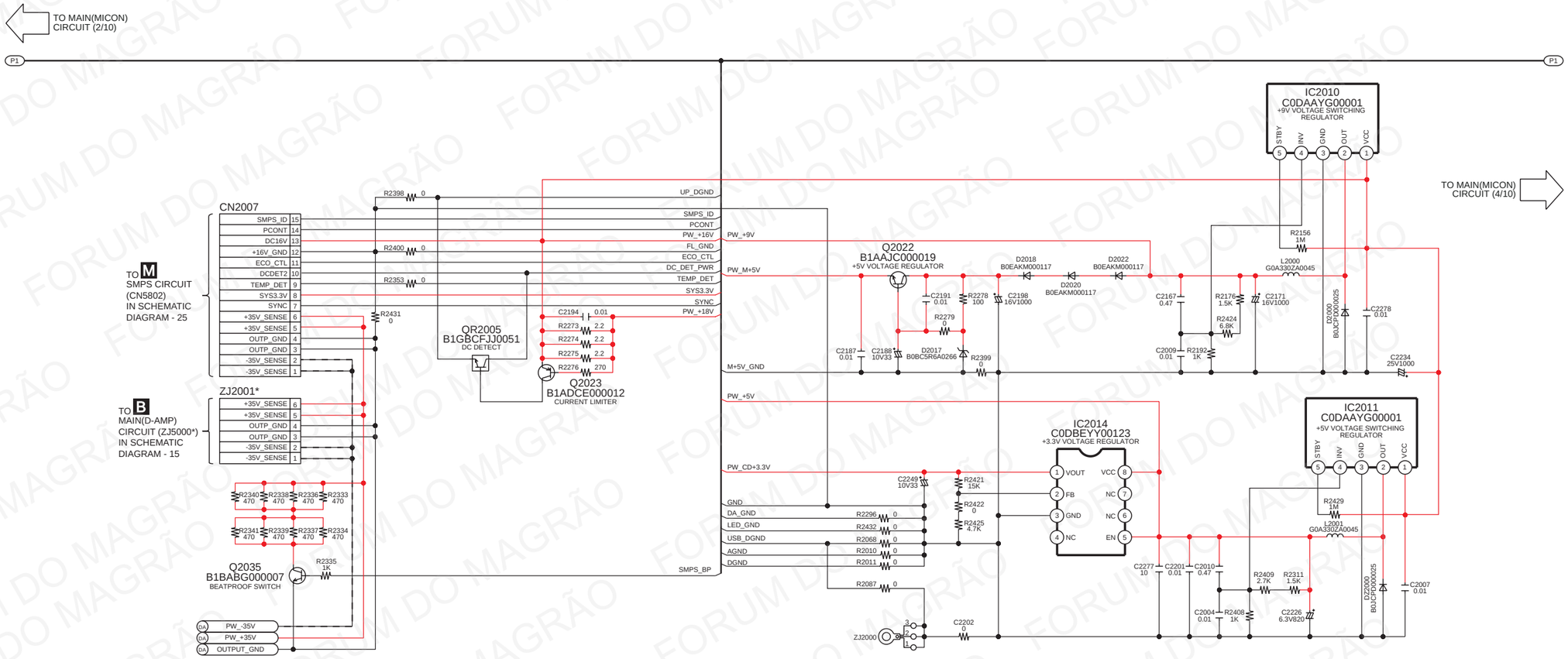
1/10	2/10	3/10	4/10	5/10
6/10	7/10	8/10	9/10	10/10

SA-AKX105PH MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 7

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

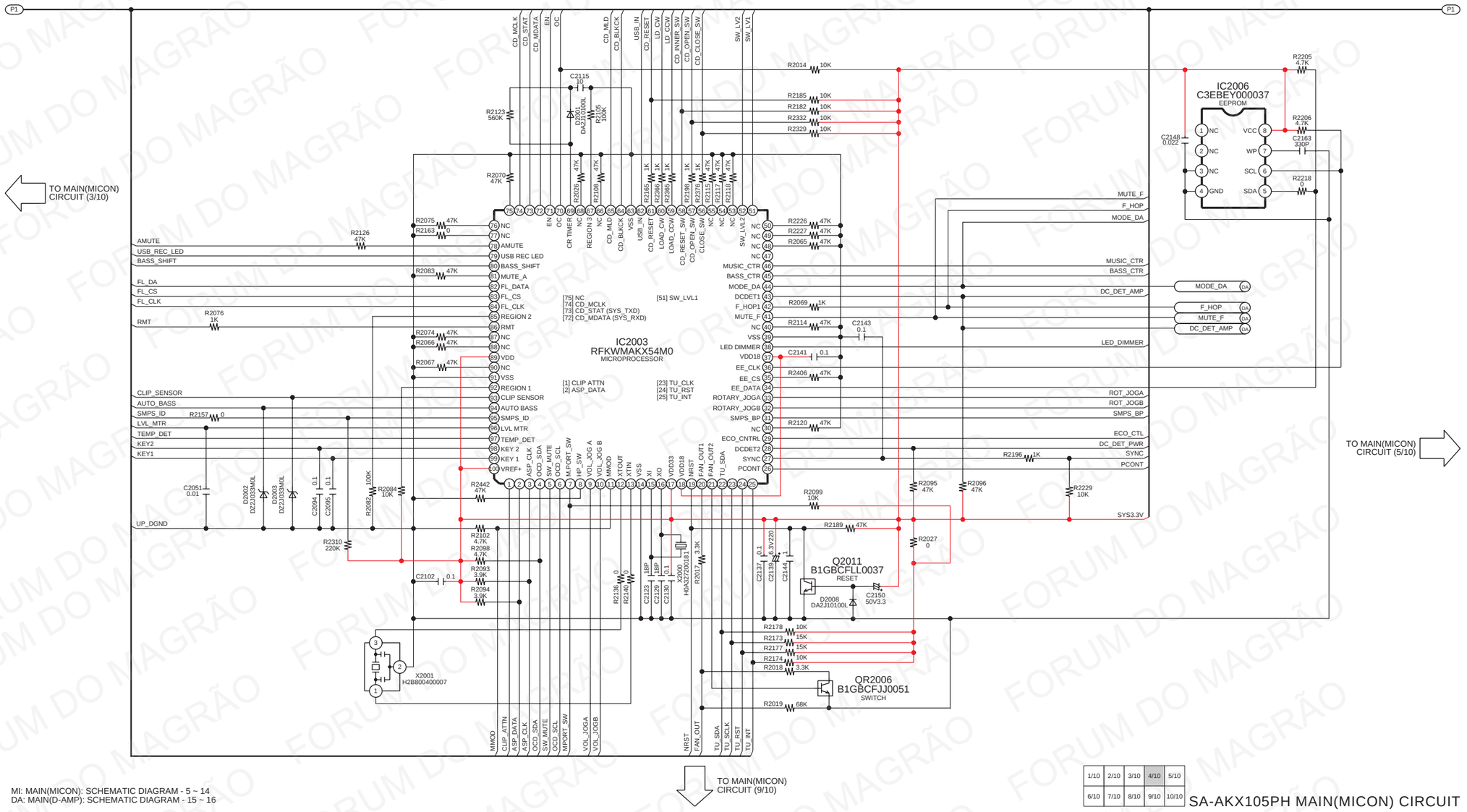
NOTE: " * " REF IS FOR INDICATION ONLY

TO MAIN(MICON) CIRCUIT (8/10)

SCHEMATIC DIAGRAM - 8

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

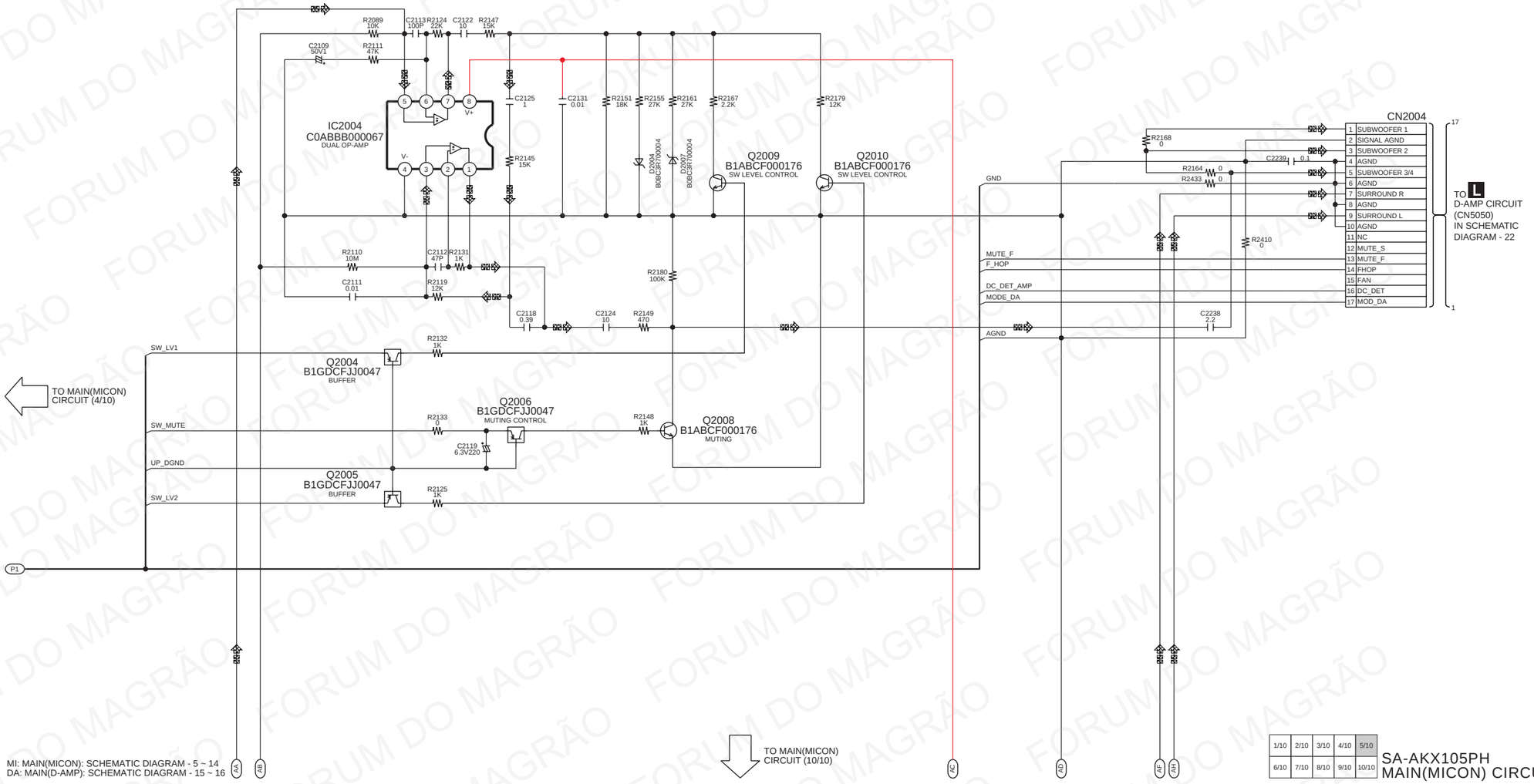
1/10	2/10	3/10	4/10	5/10	
6/10	7/10	8/10	9/10	10/10	

SA-AKX105PH MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 9

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

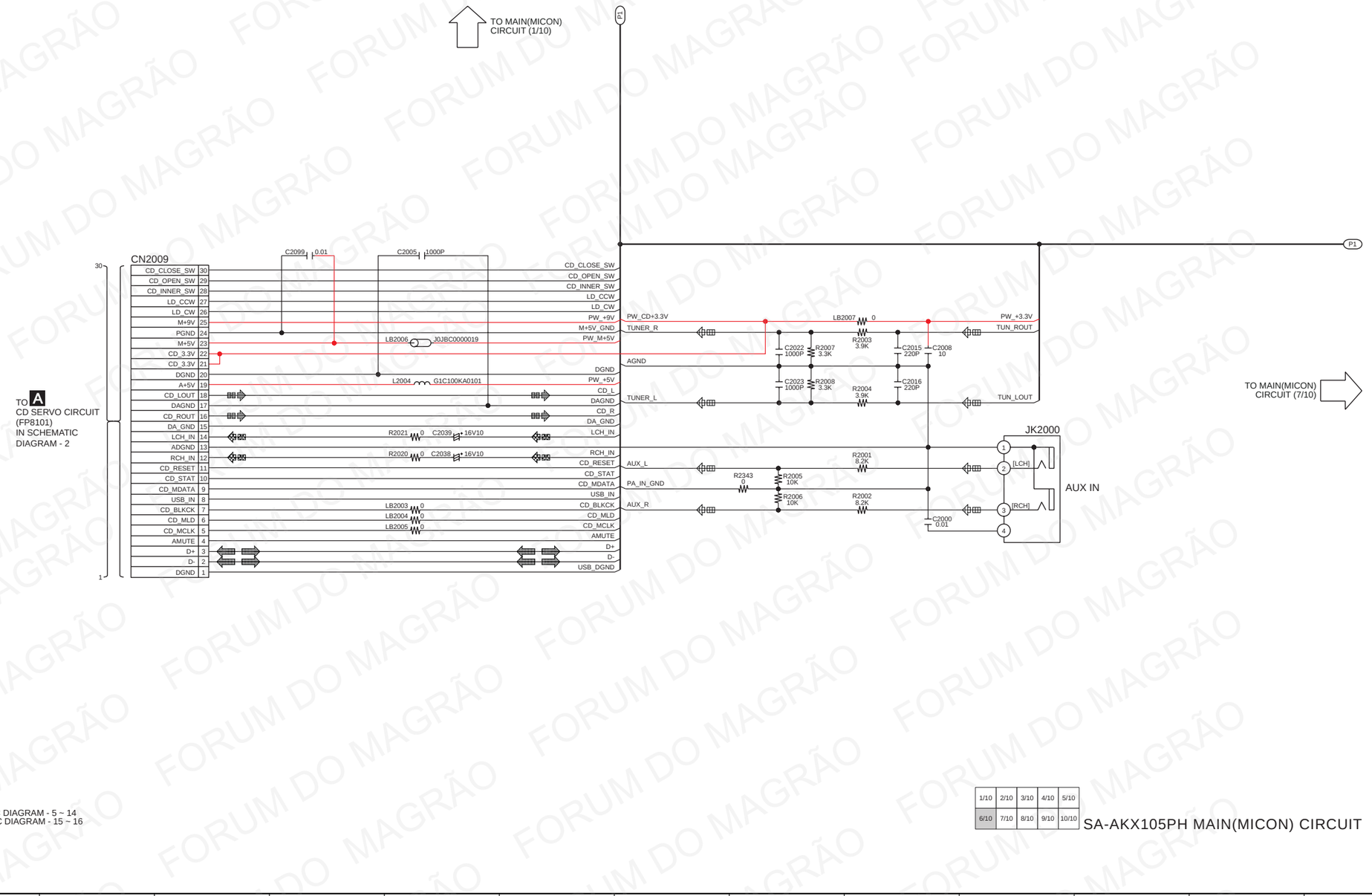
1/10	2/10	3/10	4/10	5/10	
6/10	7/10	8/10	9/10	10/10	

SA-AKX105PH
MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 10

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

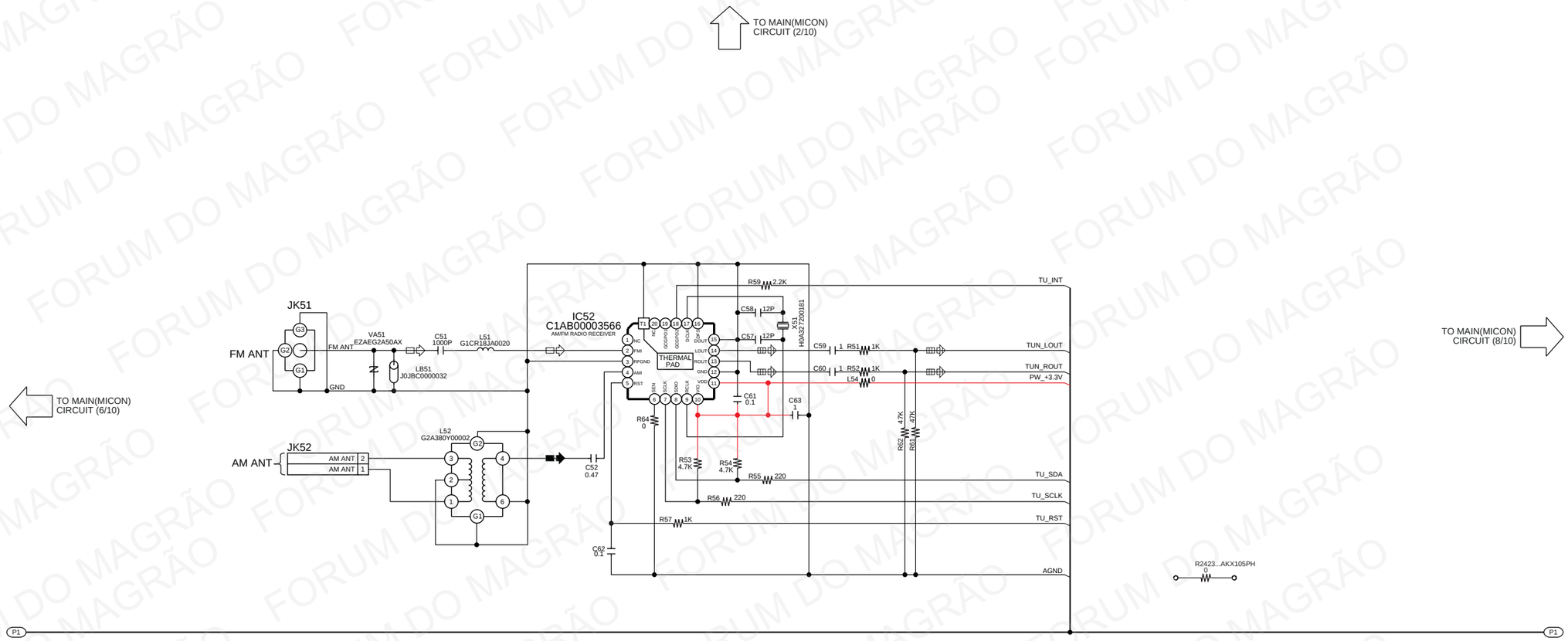
1/10	2/10	3/10	4/10	5/10	
6/10	7/10	8/10	9/10	10/10	

SA-AKX105PH MAIN(MICON) CIRCUIT

SCHEMATIC DIAGRAM - 11

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

1/10	2/10	3/10	4/10	5/10
6/10	7/10	8/10	9/10	10/10

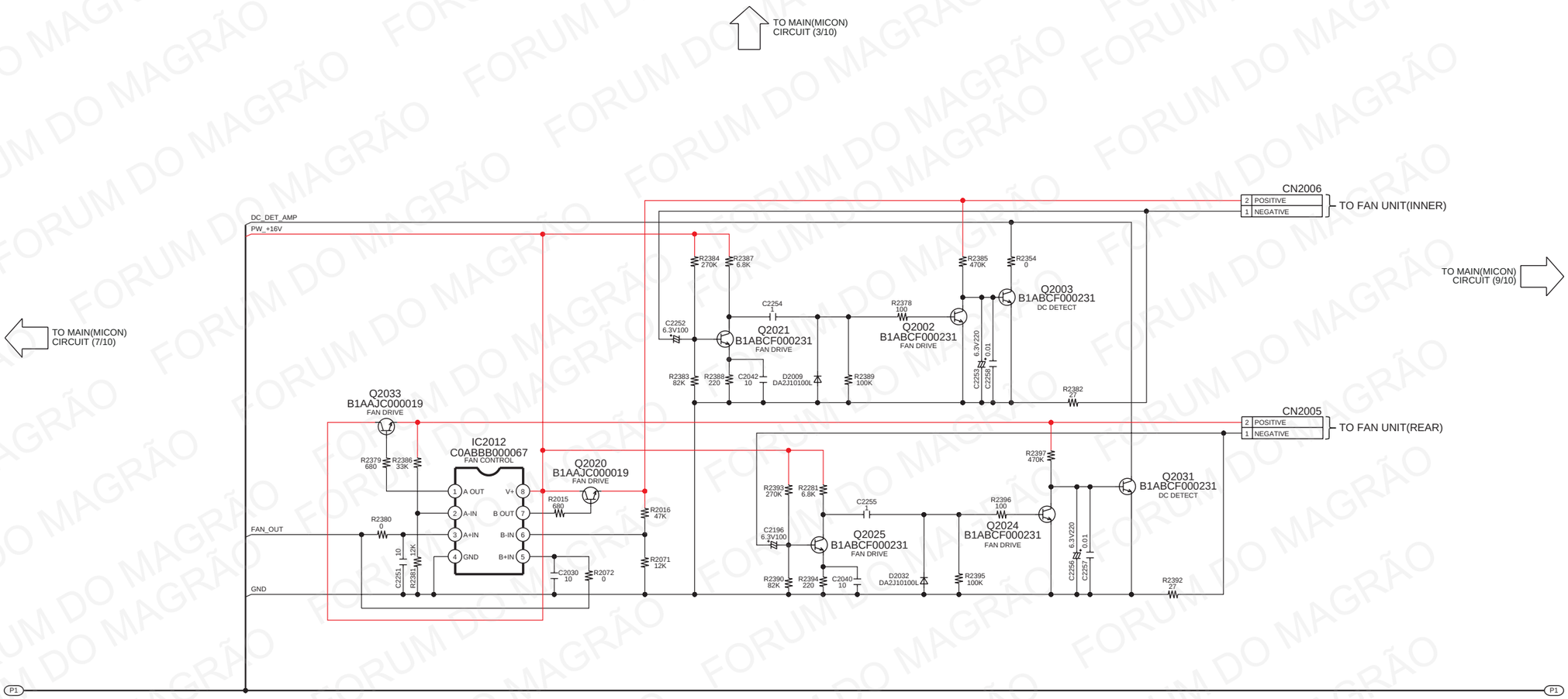
SA-AKX105PH MAIN(MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 12

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

1/10	2/10	3/10	4/10	5/10	
6/10	7/10	8/10	9/10	10/10	

SA-AKX105PH MAIN(MICON) CIRCUIT

29 30 31 32 33 34 35 36 37 38 39 40 41 42

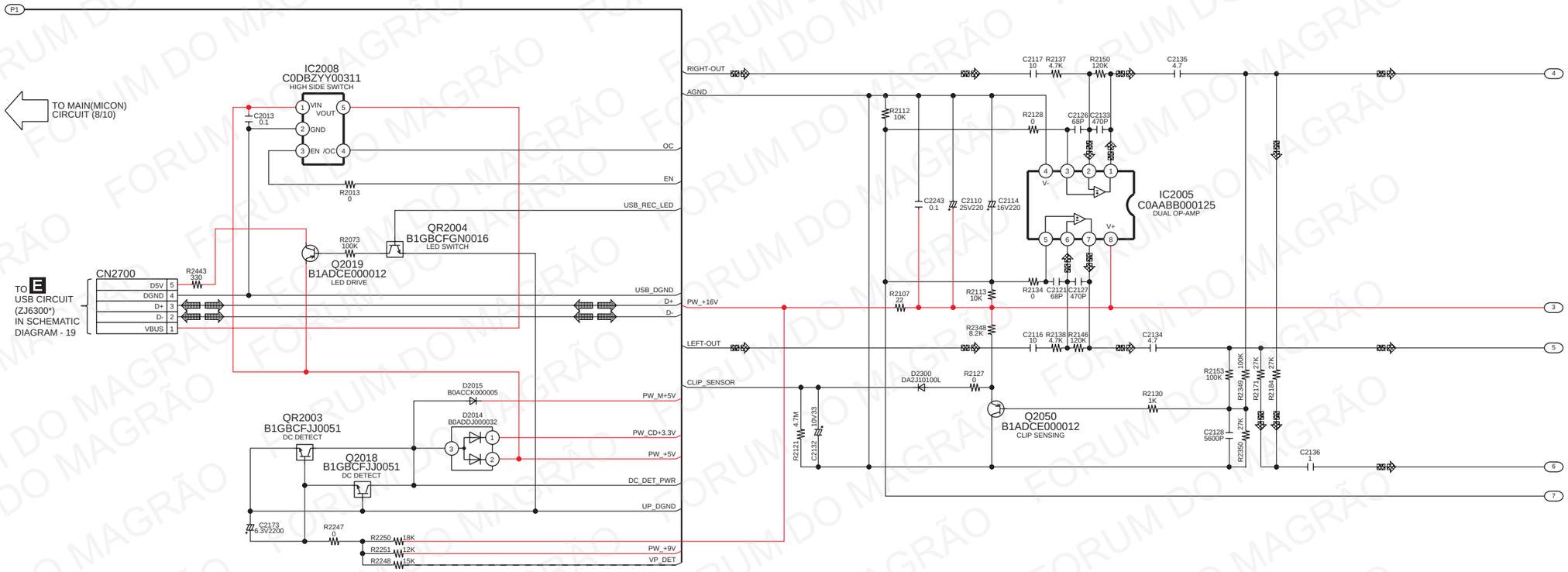
SCHEMATIC DIAGRAM - 13

B MAIN(MICON) CIRCUIT

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

TO MAIN(MICON) CIRCUIT (4/10)

TO MAIN(MICON) CIRCUIT (10/10)



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

1/10	2/10	3/10	4/10	5/10
6/10	7/10	8/10	9/10	10/10

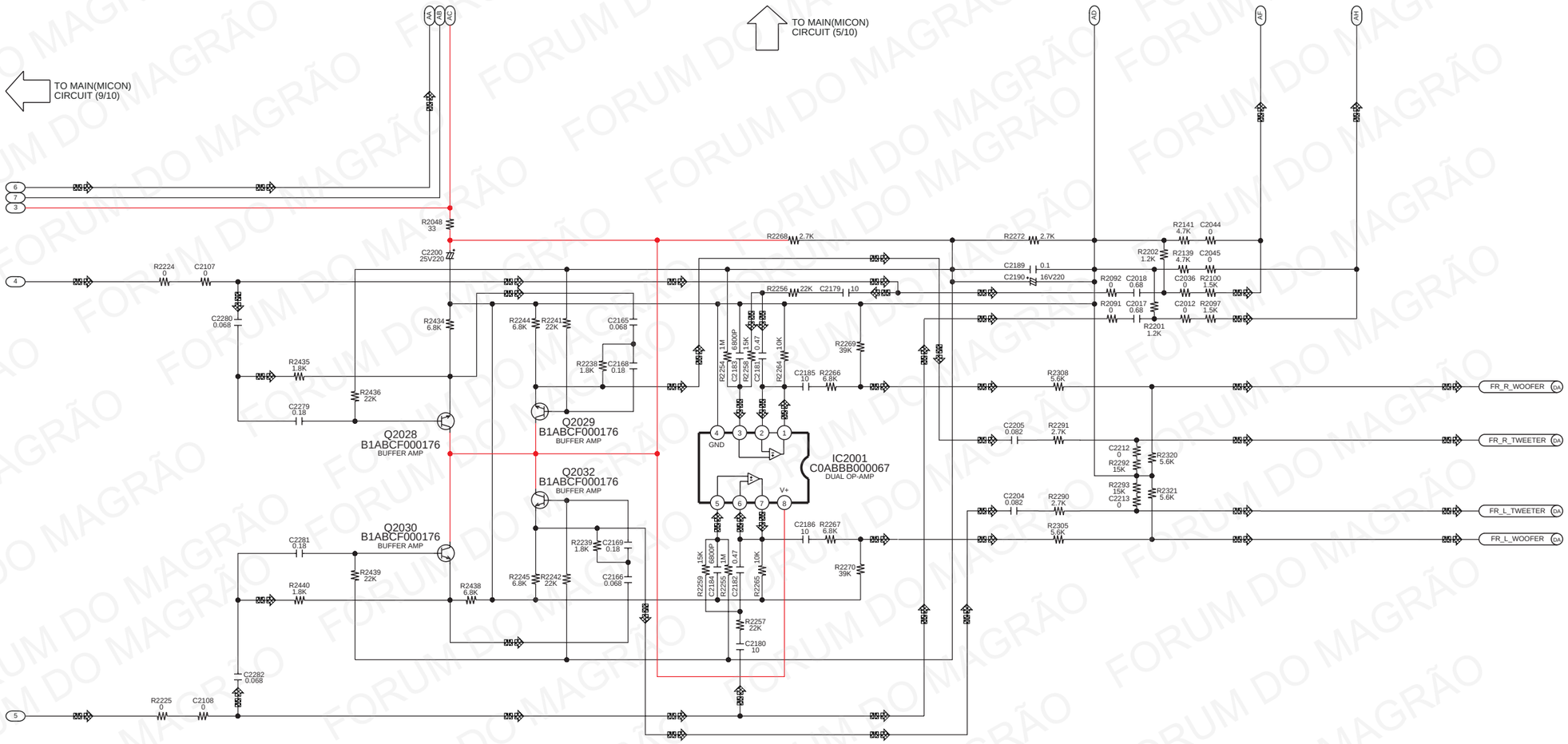
SA-AKX105PH MAIN(MICON) CIRCUIT

43 44 45 46 47 48 49 50 51 52 53 54 55 56

SCHEMATIC DIAGRAM - 14

B MAIN(MICON) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

1/10	2/10	3/10	4/10	5/10	
6/10	7/10	8/10	9/10	10/10	

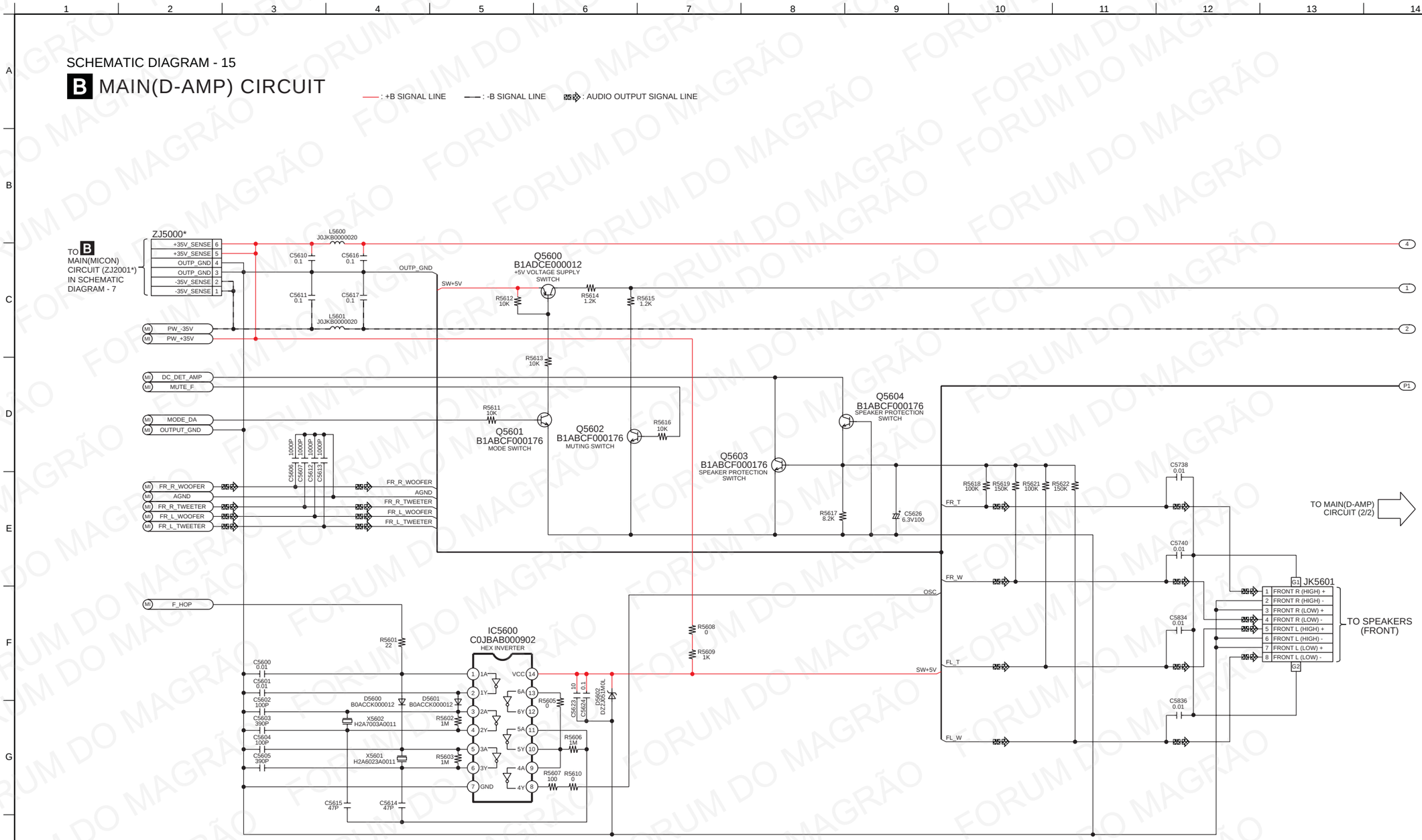
SA-AKX105PH MAIN(MICON) CIRCUIT

16.4. Main(D-Amp) Circuit

SCHEMATIC DIAGRAM - 15

B MAIN(D-AMP) CIRCUIT

—— : +B SIGNAL LINE —•— : -B SIGNAL LINE ⋙ : AUDIO OUTPUT SIGNAL LINE



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

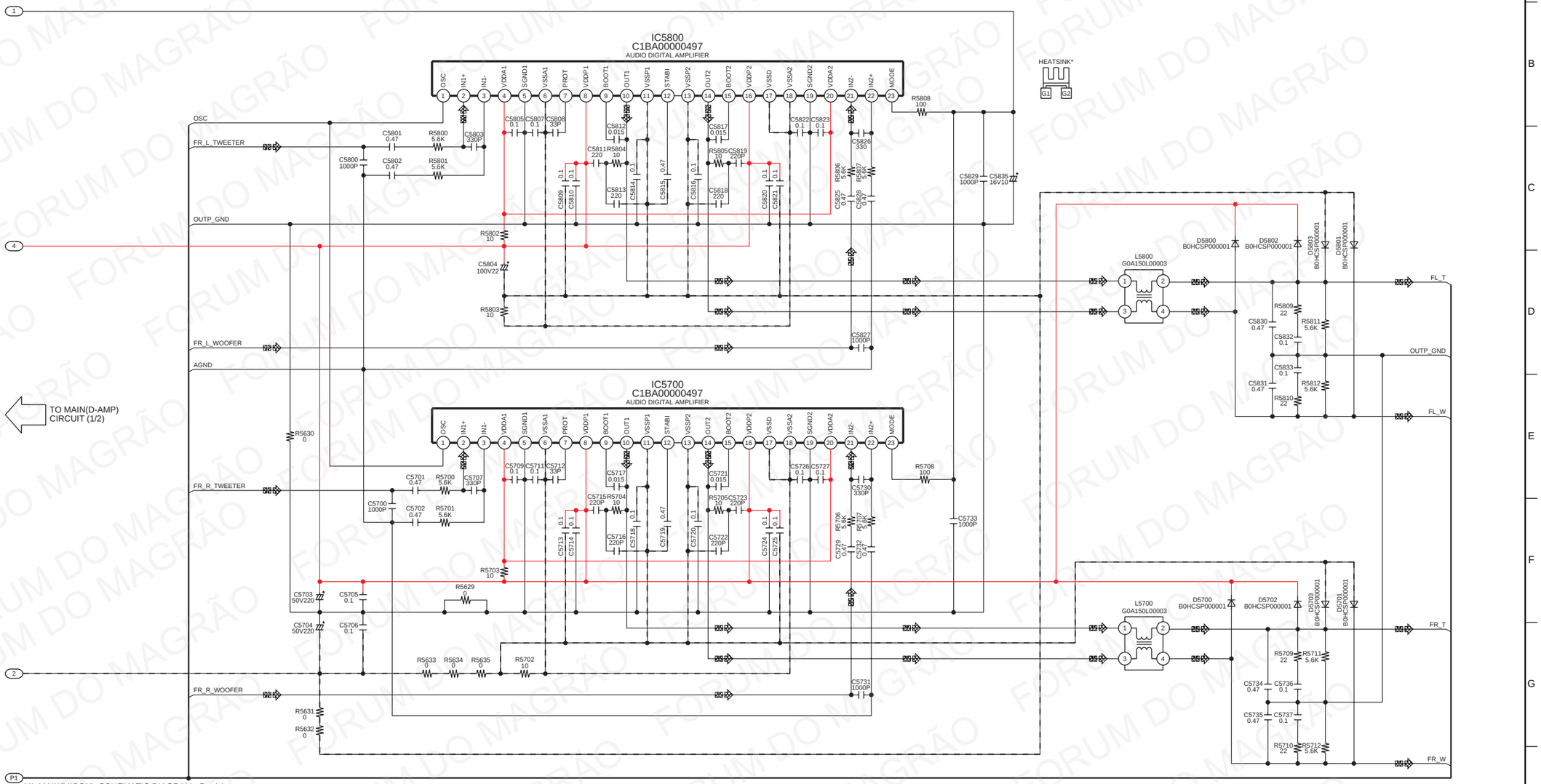
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-AKX105PH MAIN(D-AMP) CIRCUIT

SCHEMATIC DIAGRAM - 16

B MAIN(D-AMP) CIRCUIT

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



MI: MAIN(MICON): SCHEMATIC DIAGRAM - 5 ~ 14
DA: MAIN(D-AMP): SCHEMATIC DIAGRAM - 15 ~ 16

NOTE: " * " REF IS FOR INDICATION ONLY

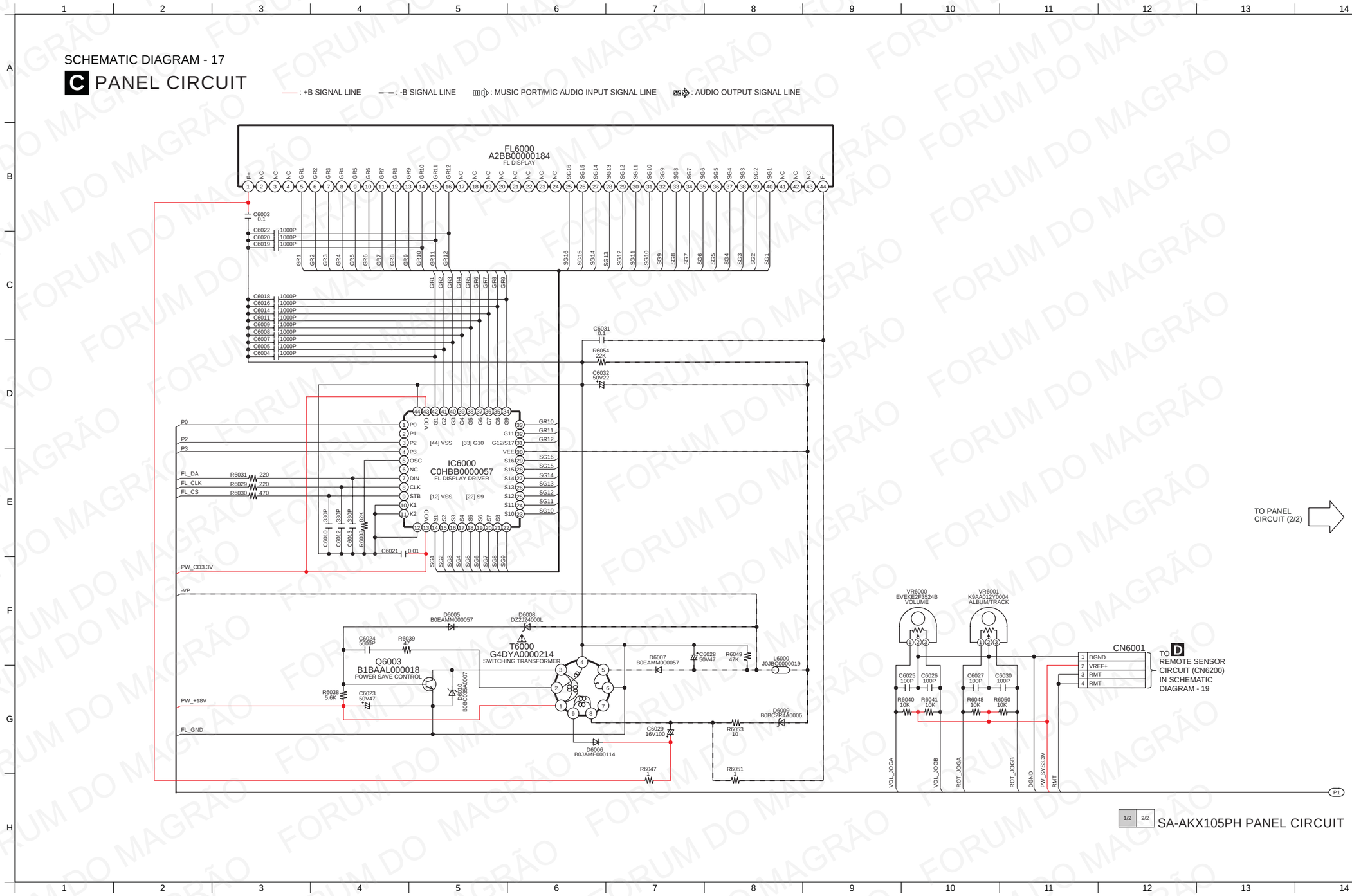
1/2 2/2 SA-AKX105PH MAIN(D-AMP) CIRCUIT

16.5. Panel Circuit

SCHEMATIC DIAGRAM - 17

C PANEL CIRCUIT

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

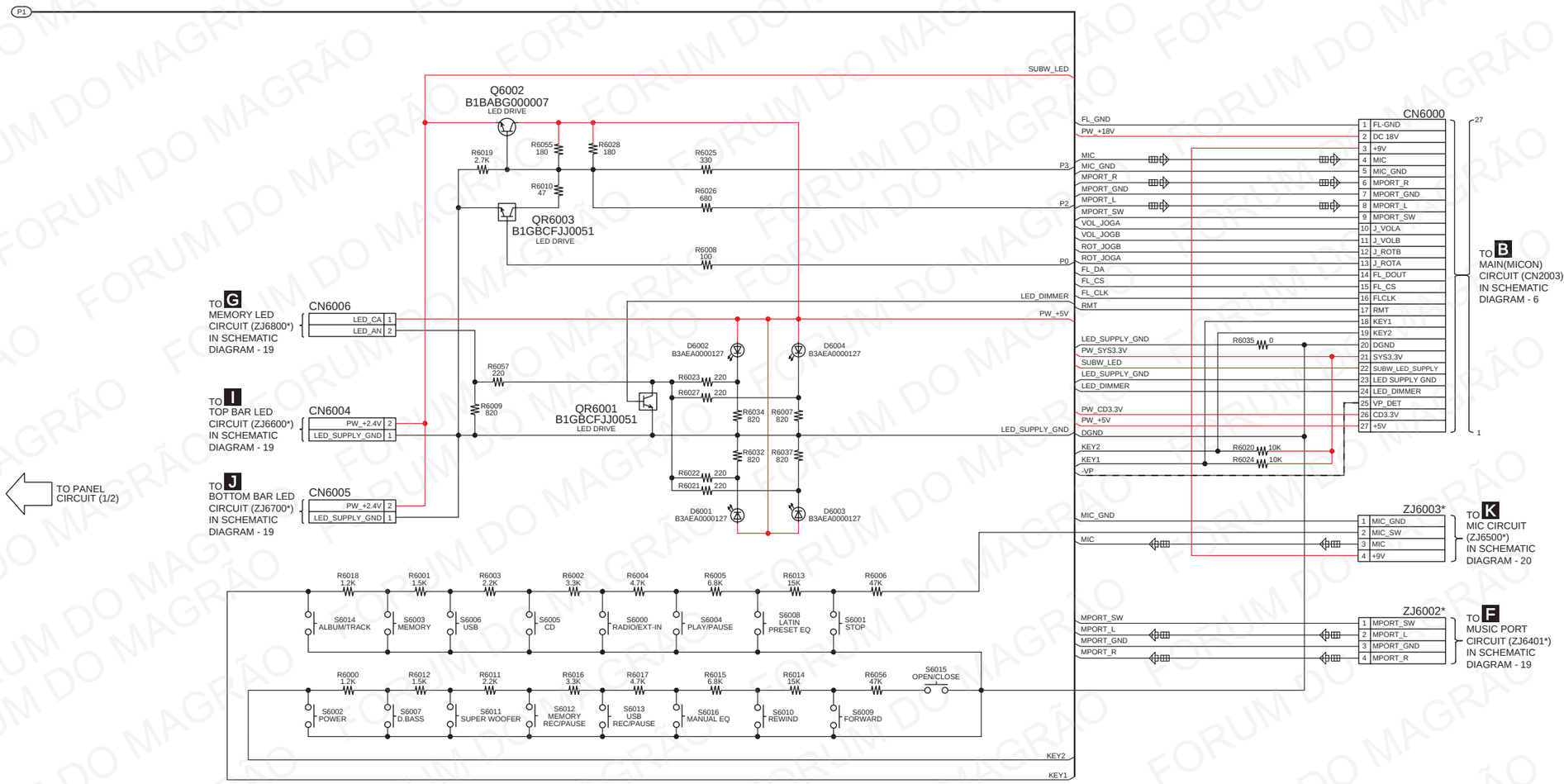


1/2 2/2 SA-AKX105PH PANEL CIRCUIT

SCHEMATIC DIAGRAM - 18

C PANEL CIRCUIT

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



NOTE: " * " REF IS FOR INDICATION ONLY

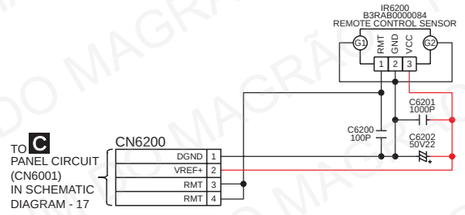
1/2 2/2 SA-AKX105PH PANEL CIRCUIT

16.6. Remote Sensor, USB, Music Port , Memory LED, Top Bar LED and Bottom Bar LED Circuit

SCHEMATIC DIAGRAM - 19

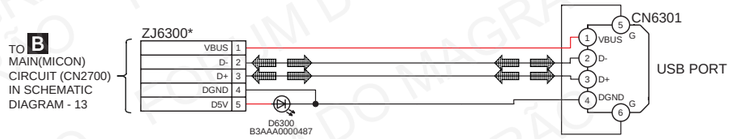
D REMOTE SENSOR CIRCUIT

—— : +B SIGNAL LINE



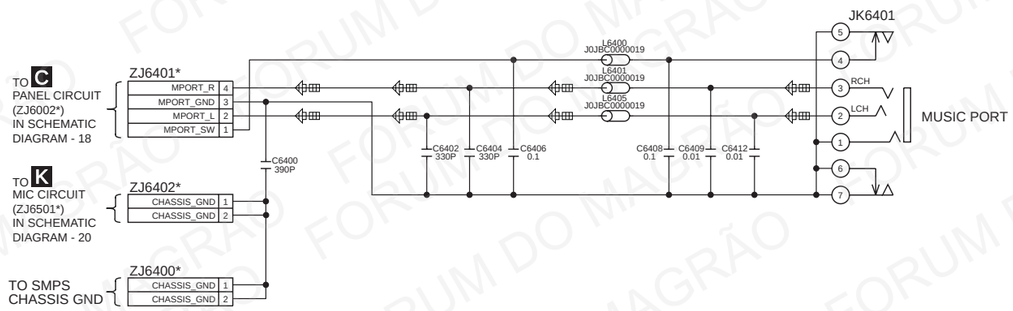
E USB CIRCUIT

—— : +B SIGNAL LINE ⇨ : USB SIGNAL LINE

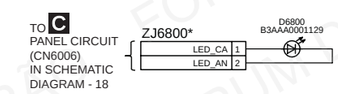


F MUSIC PORT CIRCUIT

⇨ : MUSIC PORT AUDIO INPUT SIGNAL LINE ⇨ : AUDIO OUTPUT SIGNAL LINE

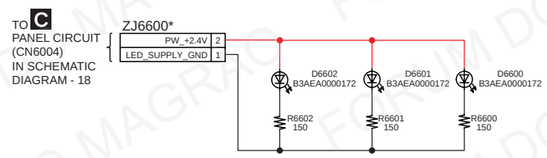


G MEMORY LED CIRCUIT



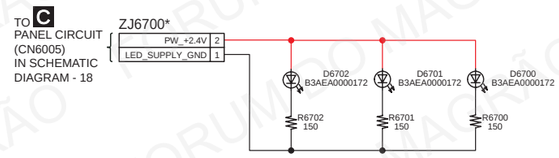
I TOP BAR LED CIRCUIT

—— : +B SIGNAL LINE



J BOTTOM BAR LED CIRCUIT

—— : +B SIGNAL LINE



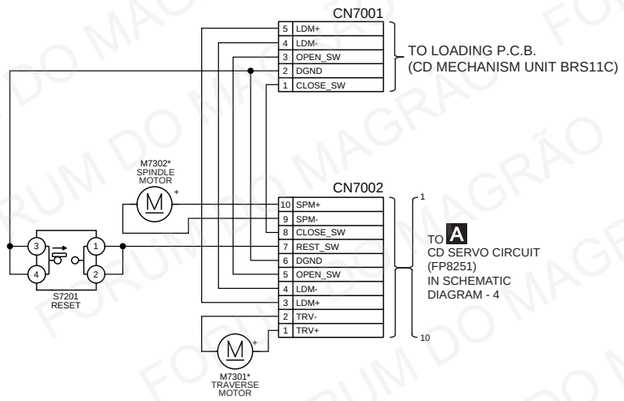
NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-AKX105PH REMOTE SENSOR / USB / MUSIC PORT / MEMORY LED / TOP BAR LED / BOTTOM BAR LED CIRCUIT

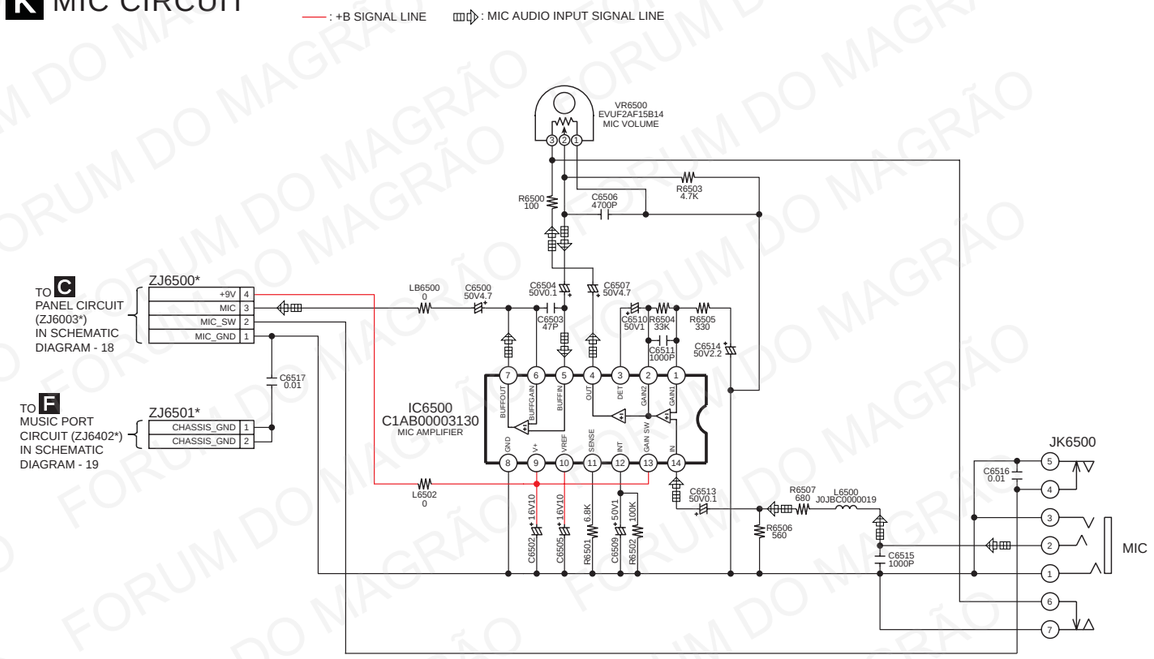
16.7. CD Interface, Mic and Voltage Selector Circuit

SCHEMATIC DIAGRAM - 20

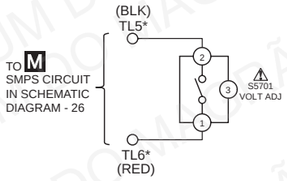
H CD INTERFACE CIRCUIT



K MIC CIRCUIT



N VOLTAGE SELECTOR CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

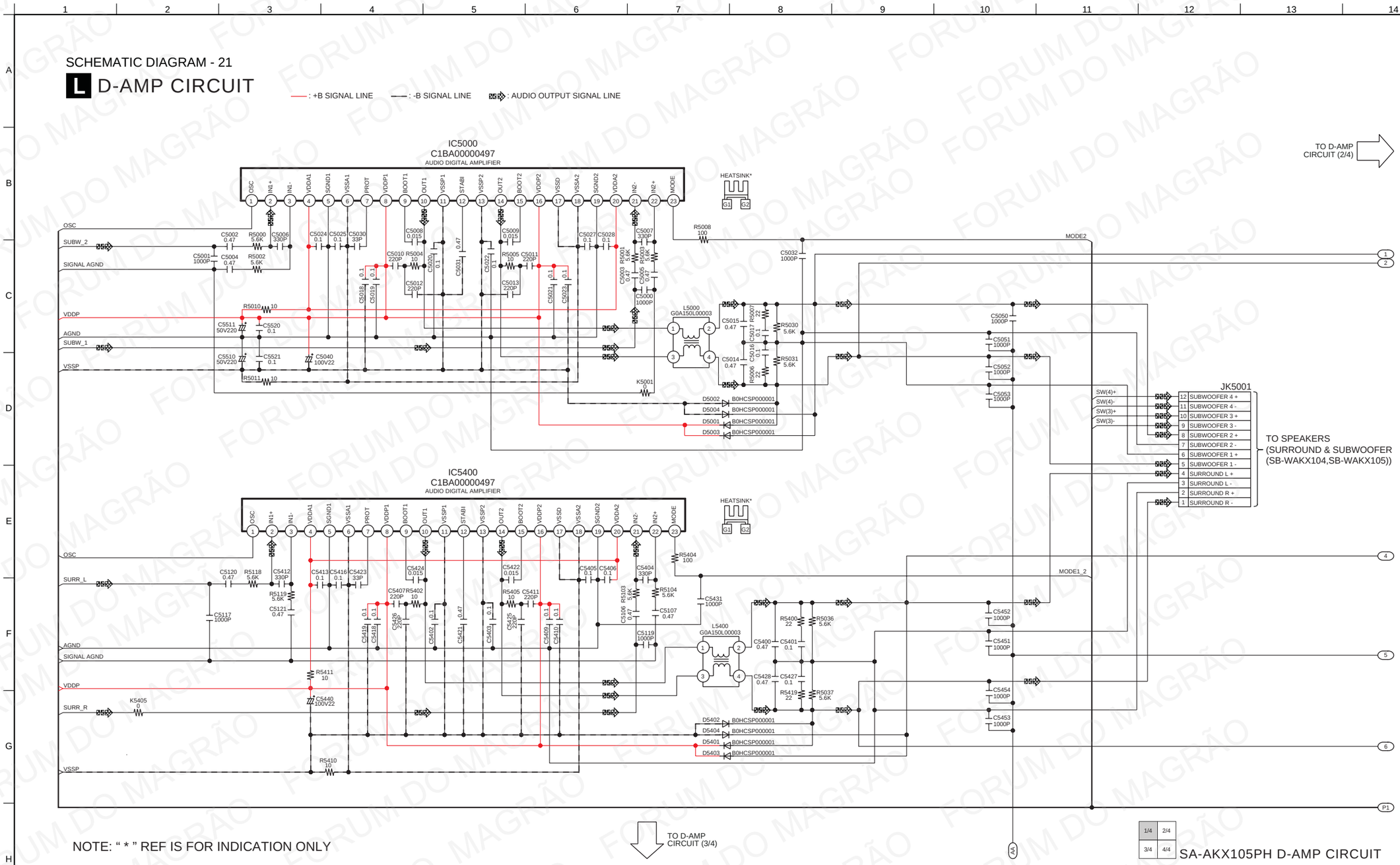
SA-AKX105PH CD INTERFACE / MIC / VOLTAGE SELECTOR CIRCUIT

16.8. D-Amp Circuit

SCHEMATIC DIAGRAM - 21

L D-AMP CIRCUIT

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



NOTE: " * " REF IS FOR INDICATION ONLY

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

SA-AKX105PH D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 22

D-AMP CIRCUIT

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

TO D-AMP CIRCUIT (1/4)

IC5200
C1BA00000497
AUDIO DIGITAL AMPLIFIER

HEATSINK*

MODE1_1
SW(3)+
SW(3)-
P1
AE
AC
OSC2
SIGNAL AGND
VDDP
AGND
SUBW_3
VSSP
SUBW_1
SUBW_2
SUBW_3/4
SURR_R
SURR_L
MUTE_F
FHOP
MOD_DA

Q5102
B1ABCF000176
SPEAKER PROTECTION SWITCH

Q5101
B1ABCF000176
SPEAKER PROTECTION SWITCH

L5200
G0A150L00003

CN5050

17	SUBWOOFER 1
16	SIGNAL AGND
15	SUBWOOFER 2
14	AGND
13	SUBWOOFER 3/4
12	AGND
11	SURROUND R
10	AGND
9	SURROUND L
8	AGND
7	NC
6	MUTE_S
5	MUTE_F
4	FHOP
3	FAN
2	DC_DET
1	MOD_DA

TO B MAIN(MICON) CIRCUIT (CN2004) IN SCHEMATIC DIAGRAM - 9

TO D-AMP CIRCUIT (4/4)

NOTE: " * " REF IS FOR INDICATION ONLY

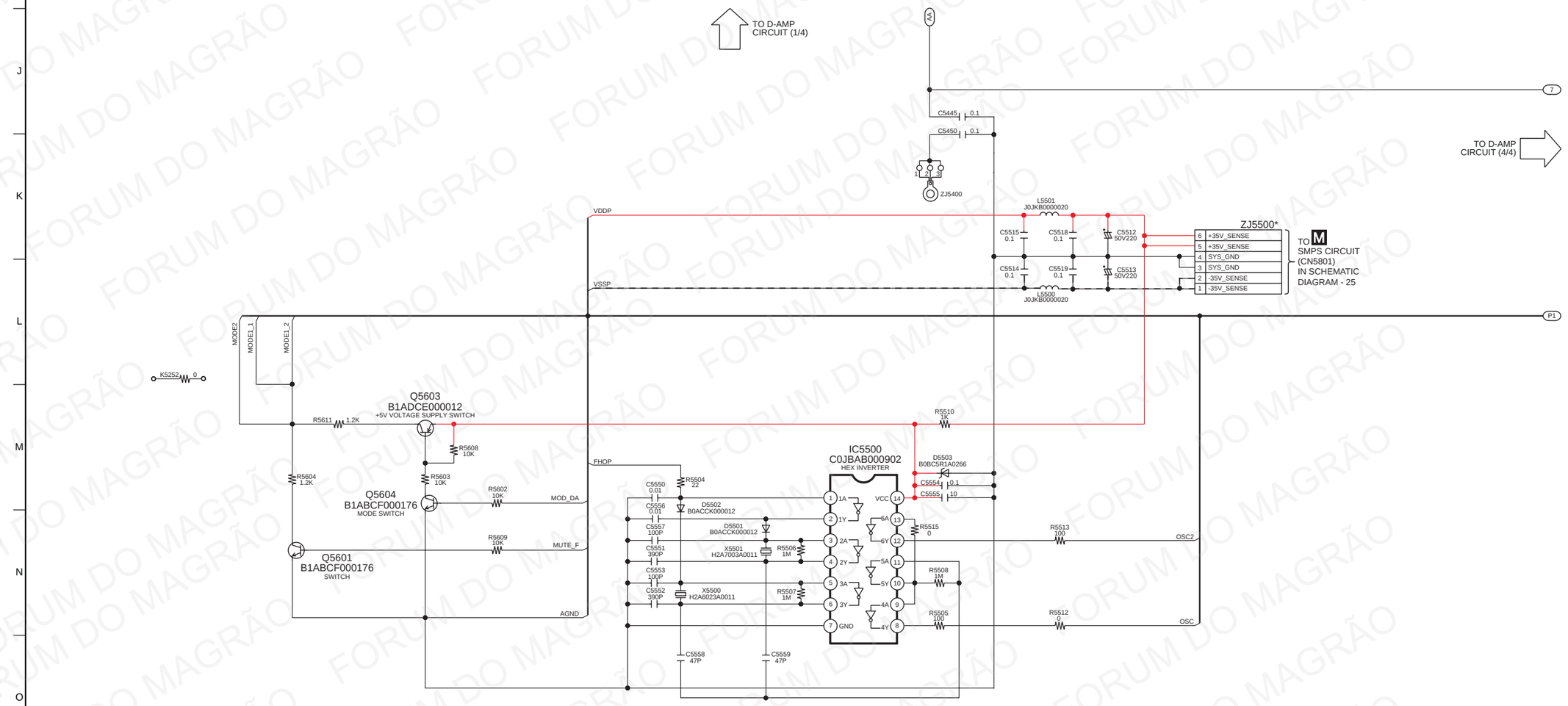
1/4	2/4
3/4	4/4

SA-AKX105PH D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 23

L D-AMP CIRCUIT

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



NOTE: “ * ” REF IS FOR INDICATION ONLY

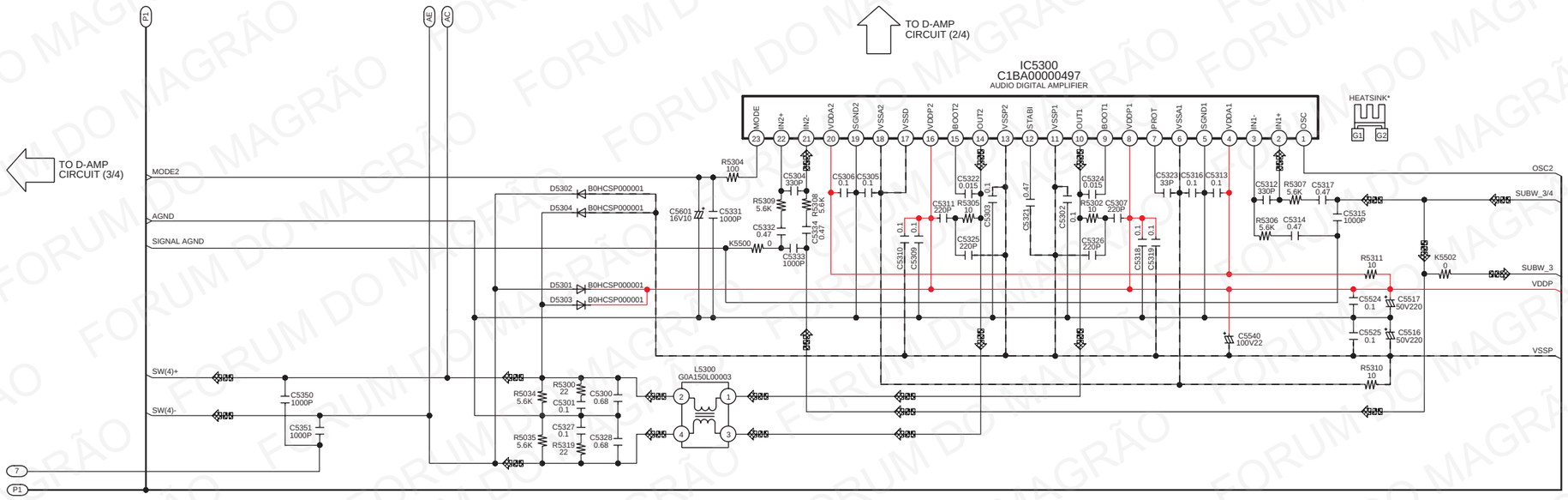
1/4	2/4
3/4	4/4

SA-AKX105PH D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 24

L D-AMP CIRCUIT

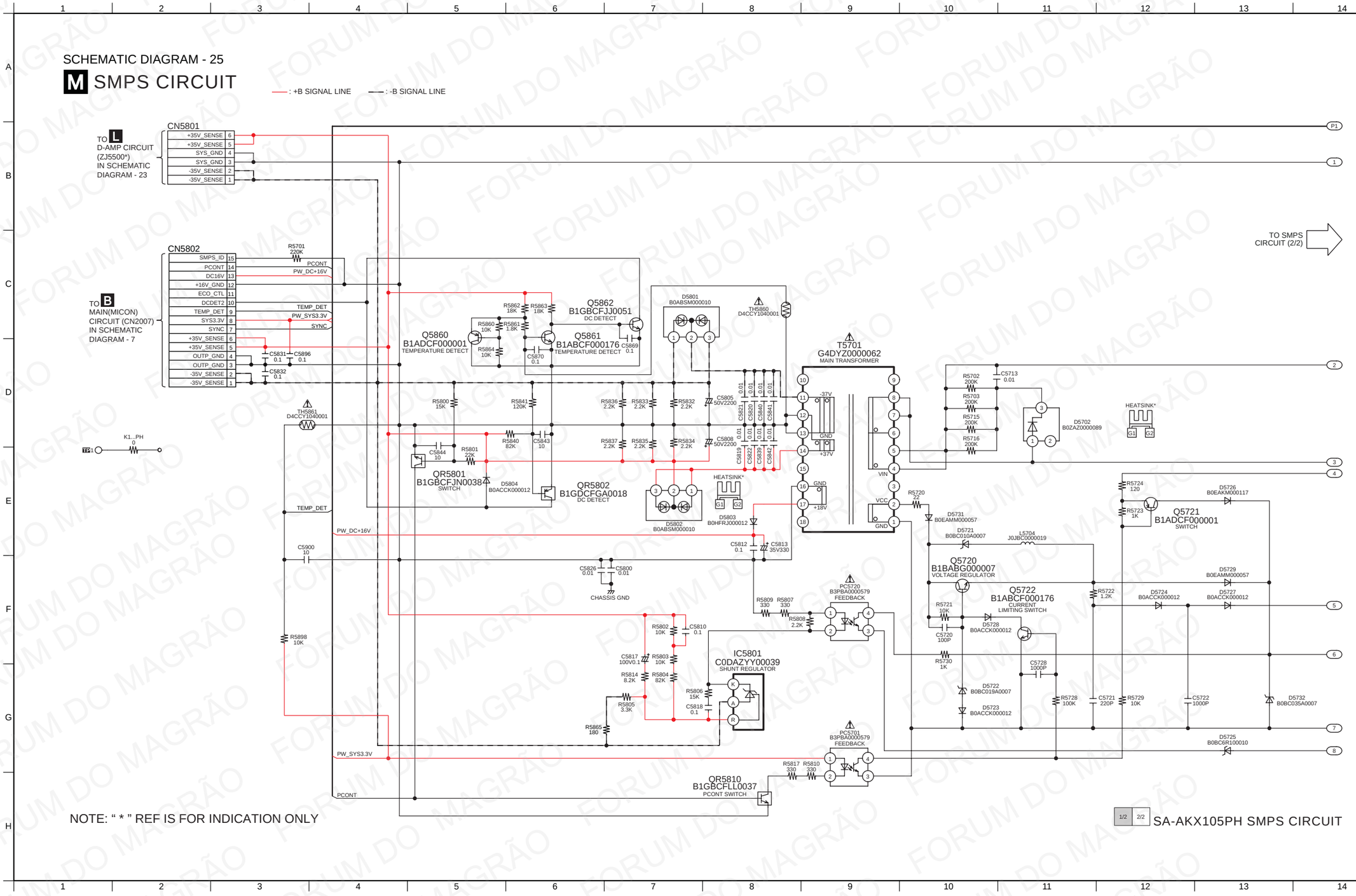
: +B SIGNAL LINE : -B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

1/4 2/4 3/4 4/4 SA-AKX105PH D-AMP CIRCUIT

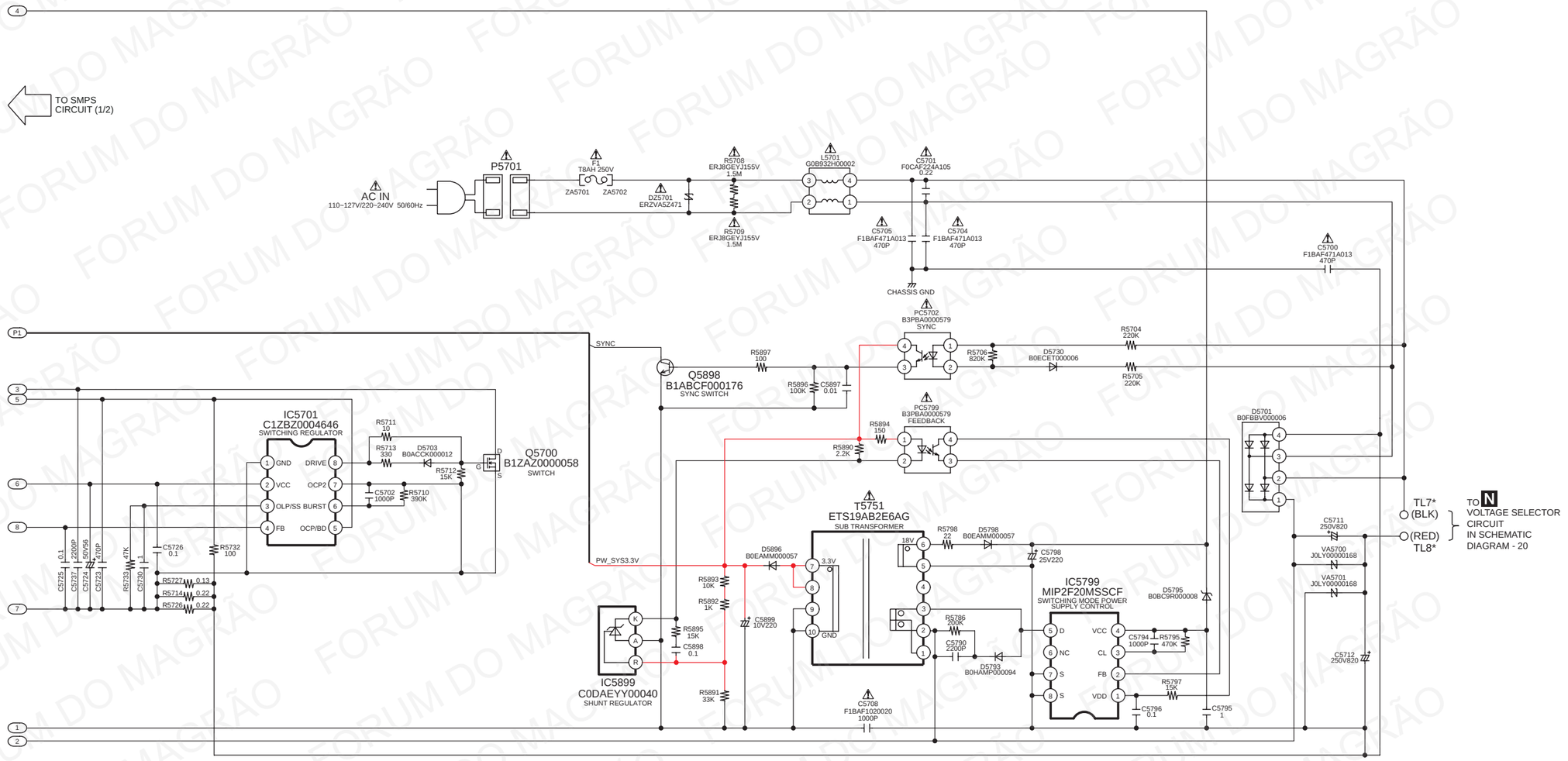
16.9. SMPS Circuit



SCHEMATIC DIAGRAM - 26

M SMPS CIRCUIT

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



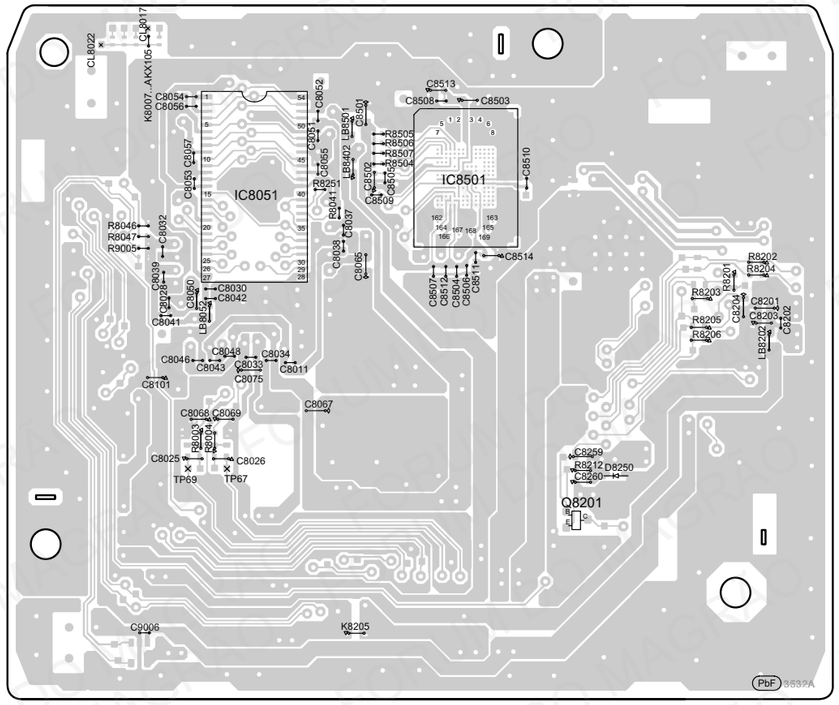
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-AKX105PH SMPS CIRCUIT

17 Printed Circuit Board

17.1. CD Servo P.C.B.

A CD SERVO P.C.B. (REP4749B)



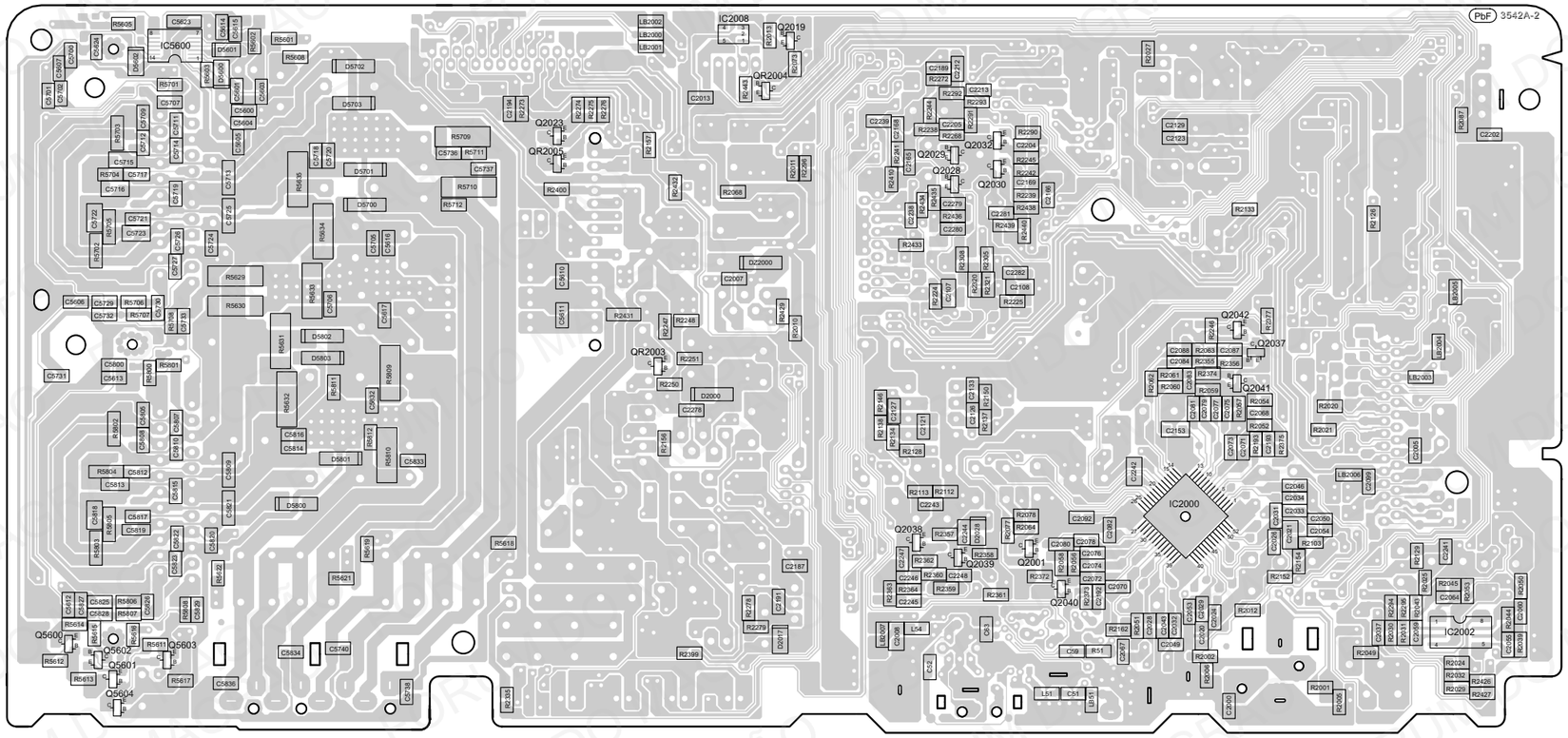
(SIDE A)

(SIDE B)

SA-AKX105PH
CD SERVO P.C.B.

17.2. Main P.C.B.

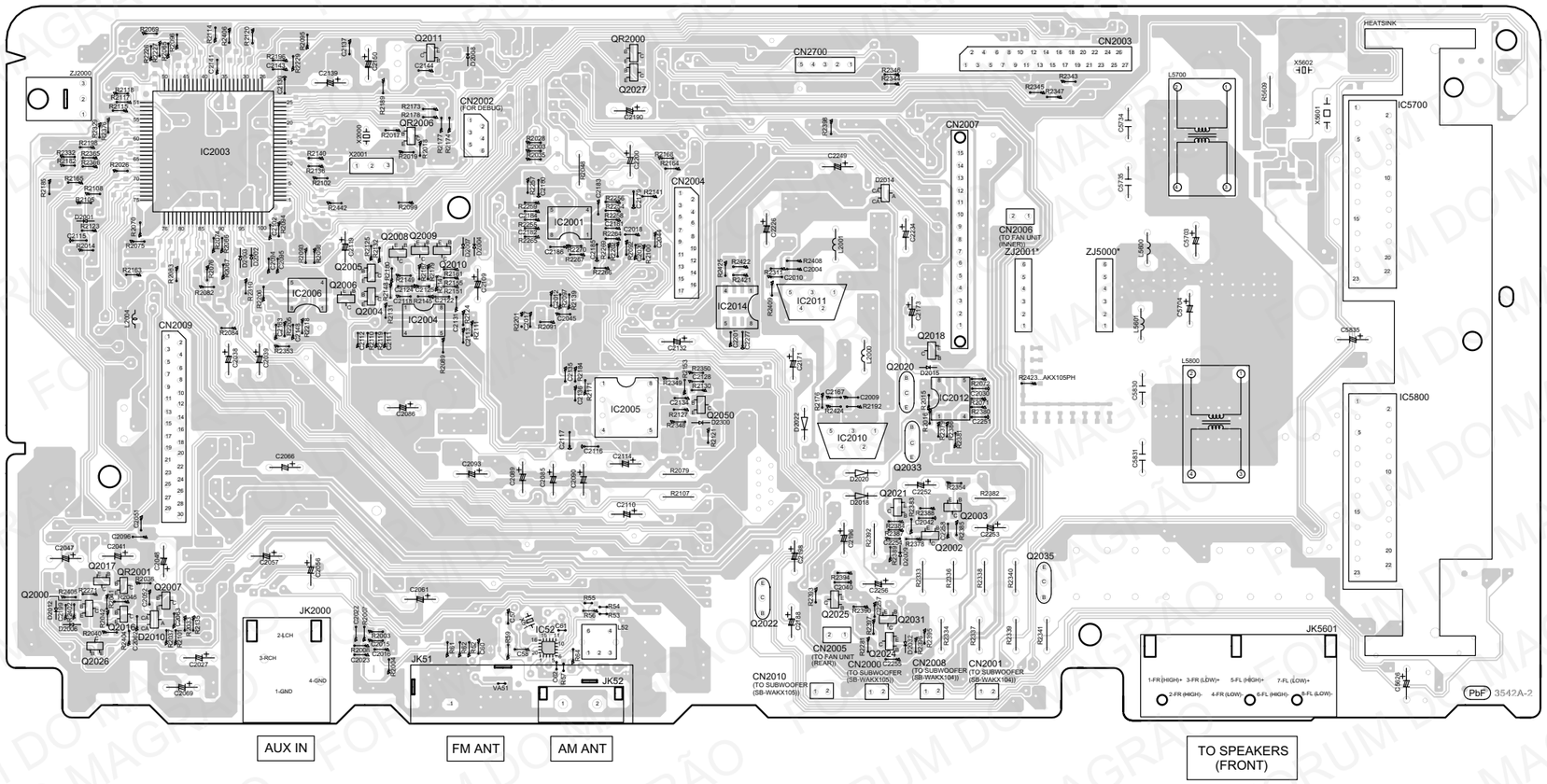
B MAIN P.C.B. (REP4768N)



(SIDE A)

SA-AKX105PH
MAIN P.C.B.

B MAIN P.C.B. (REP4768N)



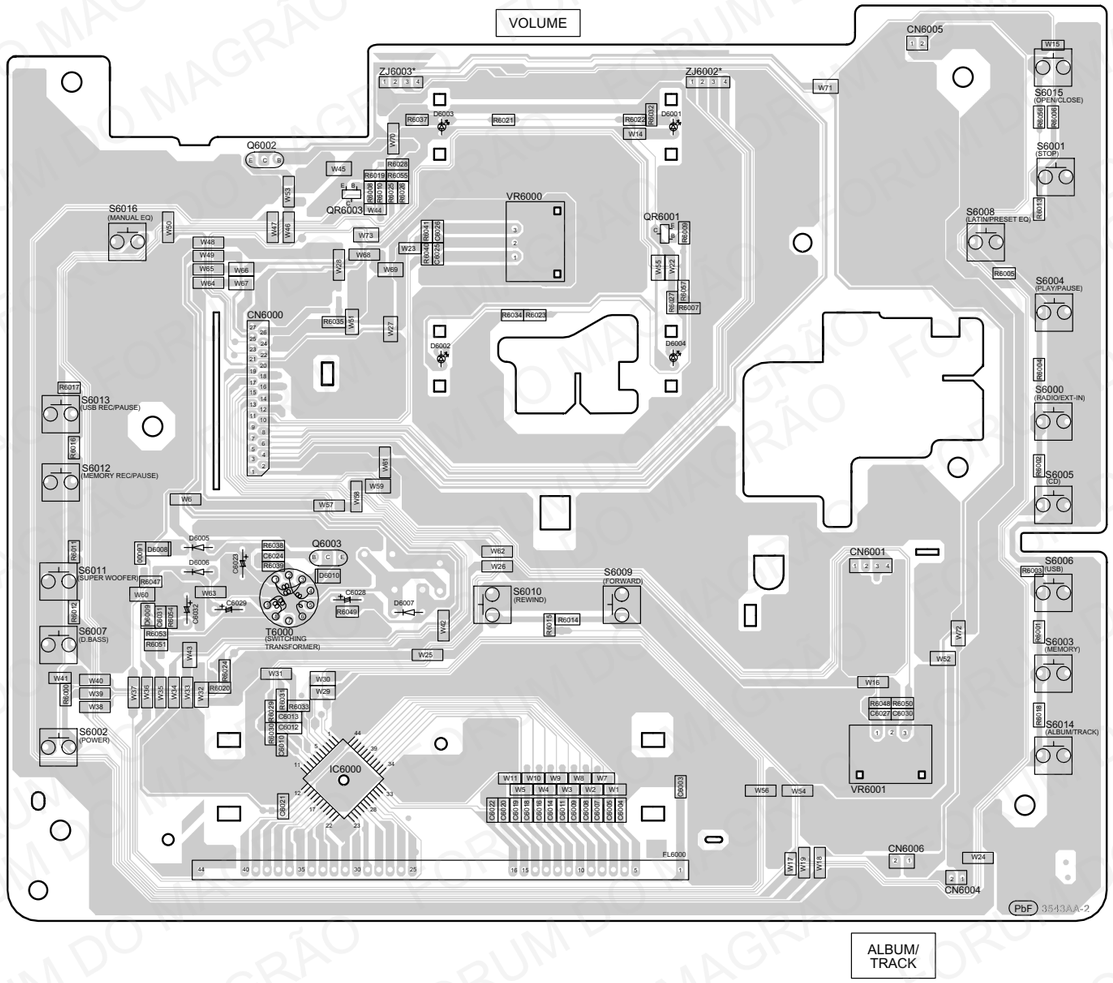
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY.

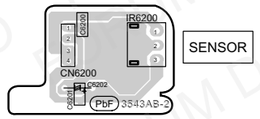
SA-AKX105PH
MAIN P.C.B.

17.3. Panel, Remote Sensor, USB and Music Port P.C.B.

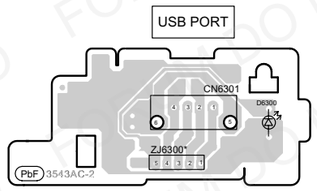
C PANEL P.C.B. (REP4793DA)



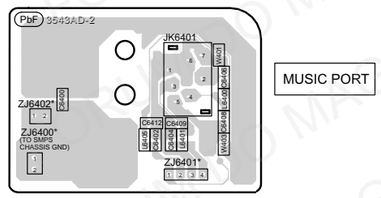
D REMOTE SENSOR P.C.B. (REP4793DB)



E USB P.C.B. (REP4793DC)



F MUSIC PORT P.C.B. (REP4793DA)

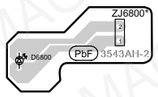


NOTE: " * " REF IS FOR INDICATION ONLY.

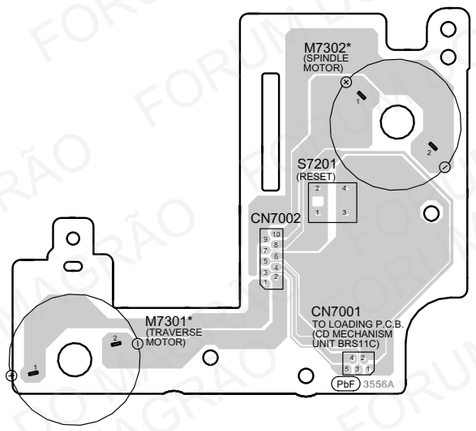
SA-AKX105PH
PANEL / REMOTE SENSOR / USB / MUSIC PORT P.C.B.

17.4. Memory LED, CD Interface, Top Bar LED, Bottom Bar LED and Mic P.C.B.

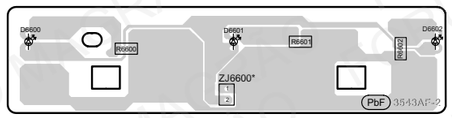
G MEMORY LED P.C.B. (REP4793DH)



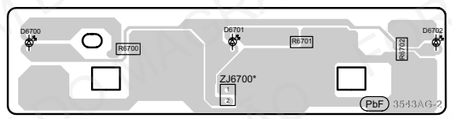
H CD INTERFACE P.C.B. (REP4755A)



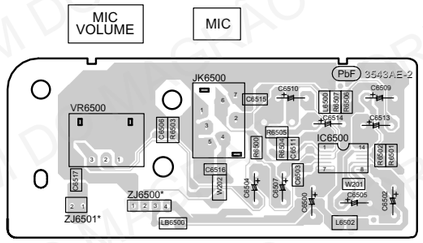
I TOP BAR LED P.C.B. (REP4793DF)



J BOTTOM BAR LED P.C.B. (REP4793DG)



K MIC P.C.B. (REP4793DA)

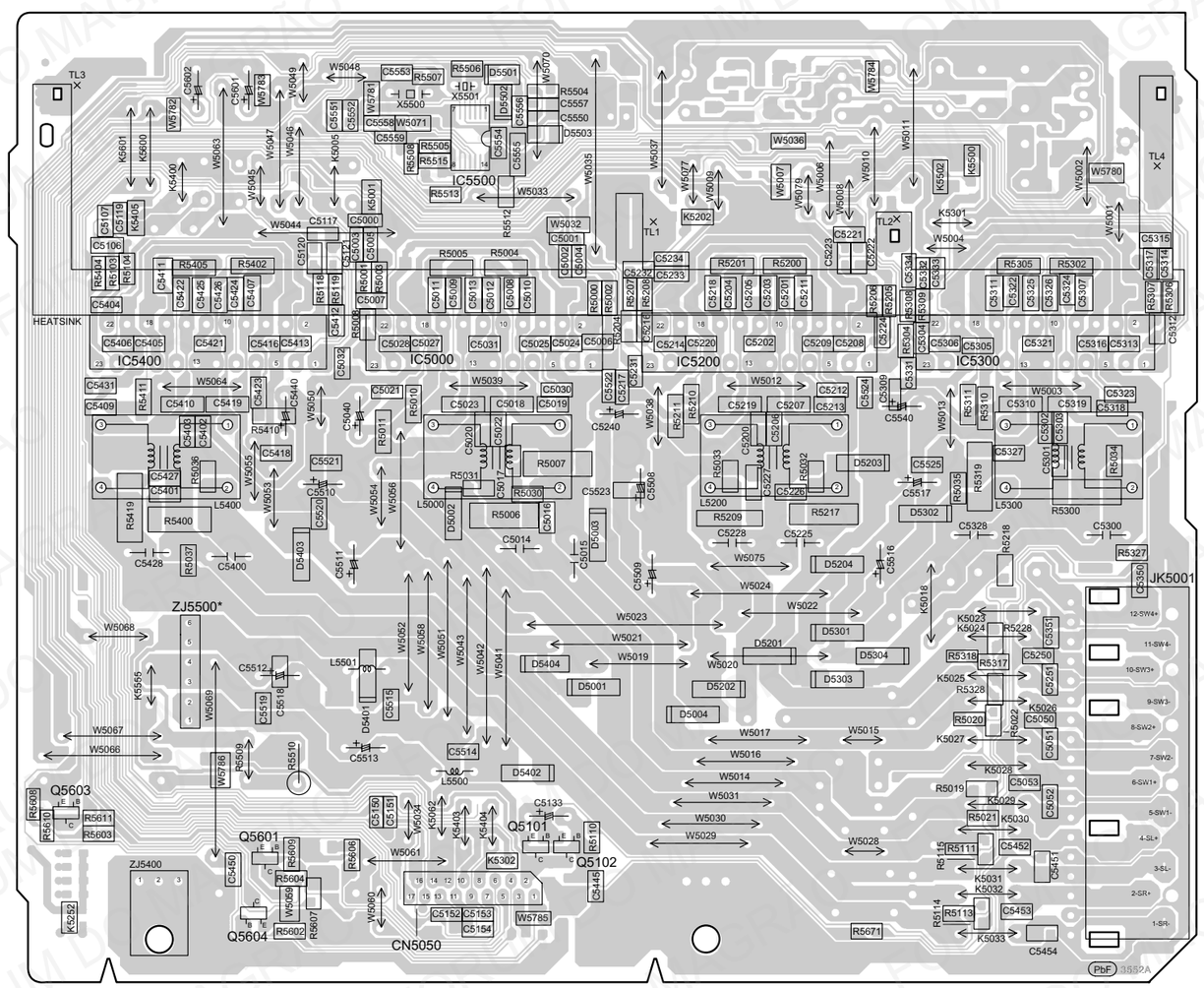


NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX105PH
MEMORY LED / CD INTERFACE / TOP BAR LED / BOTTOM BAR LED / MIC P.C.B.

17.5. D-Amp P.C.B.

D-AMP P.C.B. (REP4801B)



- SUBWOOFER (SB-WAKX105)
- SUBWOOFER (SB-WAKX104)
- SURROUND

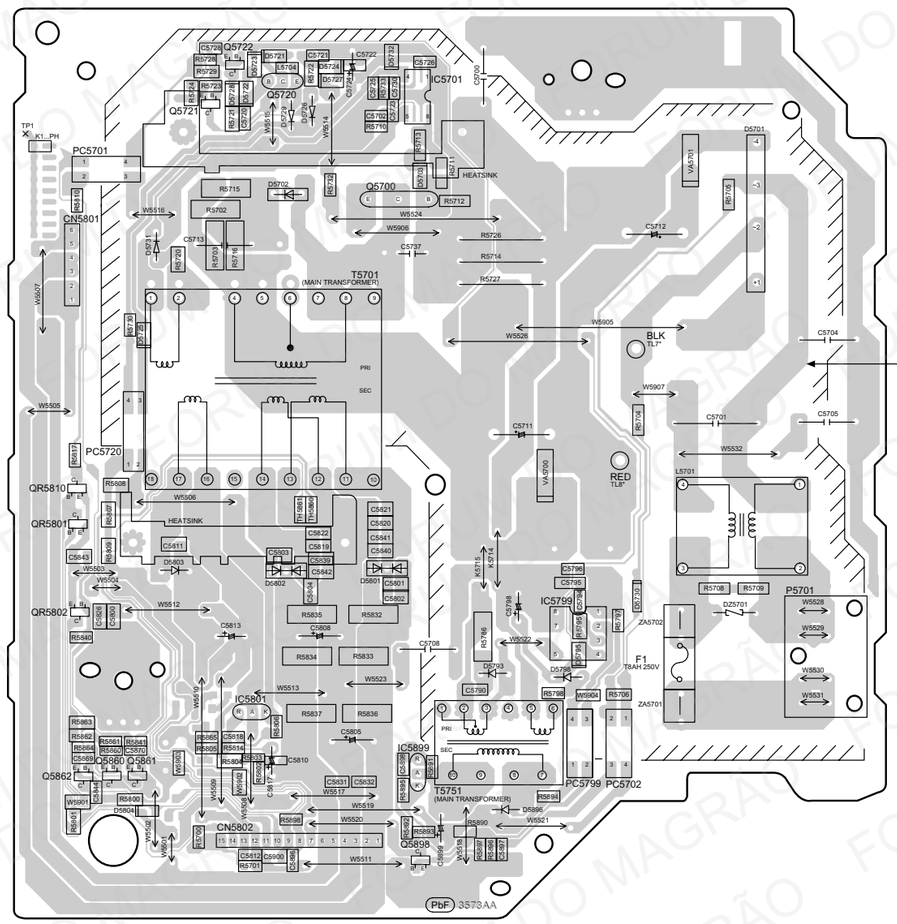
→ SPEAKERS

NOTE: " * " REF IS FOR INDICATION ONLY.

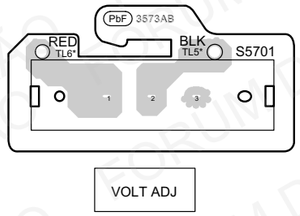
SA-AKX105PH
D-AMP P.C.B.

17.6. SMPS and Voltage Selector P.C.B.

M SMPS P.C.B. (REP4800A)



N VOLTAGE SELECTOR P.C.B. (REP4800A)



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-AKX105PH
SMPS / VOLTAGE SELECTOR P.C.B.

18 Appendix Information of Schematic Diagram

18.1. 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.

18.1.1. CD Servo P.C.B. (1/3)

REF NO.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.2	1.4	1.4	0.7	0.7	1.2	3.3	1.2	0	3.3	3.2	3.3	0	0.1	1.8	1.8	1.7	3.3	0	1.7

REF NO.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.7	1.7	1.7	0	3.3	3.3	1.5	3.3	3.3	2.5	8	3.3	0.7	3.2	3.3	0	3.3	3.3	3.3	3.3

REF NO.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	3.3	3.3	0	3.3	3.3	0	1.2	1.7	1.7	1.5	1.6	0	1.7	1.7	2	2	1.8	1.9	1.9	1.8

REF NO.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0.2	2.4	0	3.3	1.7	1.7	1	1	1	1.2	1.3	1.7	1.7	1.4	1.4	0.5	0	3.3	3.3	0.9

REF NO.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	0	1.2	3.2	1.5	0	0	3.3	0	1.7	1.7	1.2	3.3	0	0	0

REF NO.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	1.2	0	3.3	3.3	3.2	3.3	3.3	3.3	1.5	1.5	1.32	3.3	3.3	0	1.3	1.3	1.3	1.3	3.3	3.3

REF NO.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.2	0	0	3.3	0	0	0	3.3	0	0	3.3	0	3.2	3.2	0	0.8	0.8	1.6	0	0

REF NO.	IC8001																			
MODE	141	142	143	144																
CD PLAY	0	1.2	1.4	0.7																

REF NO.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0.7	3.3	0.7	1.4	0	1.4	0.7	3.3	1.4	1.4	0	1.4	3.3	3.3	3.3	3.3	3.3	0	0

REF NO.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0.1	1.8	1.8	1.7	3.3	0	1.7	1.7	1.7	1.7	0	3.3	3.3	0	3.3	1.5	3.3	0

REF NO.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0	0.6	3.3	1.2	1.2	0	1.2	0.6	3.3	1.2	1.2	0	1.2	0						

REF NO.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.6	9.1	2.5	1.6	2.4	3	3	9	0	0	4.6	4.6	2.6	2.7	2.6	2.7	2	3.1	5	0

SA-AKX105PH CD SERVO P.C.B.

18.1.2. CD Servo P.C.B. (2/3)

REF NO.	IC8251																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	1.5	0	1.5	9.3	9.3	1.7	1.7	3.3	0	0										

REF NO.	IC8301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	2.3	1.5	0	0	0	5	3.2	0	0	0.9	0.9	0.9	0	3.3	0	0				

REF NO.	IC8401																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.8	2.5	3.3	0	3.2	0.8	3.3	3.3												

REF NO.	IC8501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	3.0	3.0	3.0	0	0	3.0	0	0	0	0

REF NO.	IC8501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	0	3.0	0	0	0	0	0	0	3.0	3.0	0	0

REF NO.	IC8501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	3.0	3.0	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC8501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	3.0	0	0	0	0	0	0	0	3.0	3.0	3.0	3.0	0	0	0	0	0	0	0

REF NO.	IC8501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

REF NO.	IC8501																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	3.0	3.0	3.0	3.0	3.0	3.0	0	0	3.0	0	0	0	0	3.0	3.0	3.0	0	0	0	0

REF NO.	IC8501																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	0	0	3.0	3.0	3.0	0	0	0	0	3.0	0	0	0	0	0	3.0	3.0	0	0	0

REF NO.	IC8501																			
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	3.0	0	0	0	0	0	3.0	0	3.0	0	0	0	0	0	3.0	0	0

REF NO.	IC8501																			
MODE	161	162	163	164	165	166	167	168	169											
CD PLAY	0	0	0	0	0	0	0	0	0											

SA-AKX105PH CD SERVO P.C.B.

18.1.3. CD Servo P.C.B. (3/3)

REF NO.	Q8201																			
MODE	E	C	B																	
CD PLAY	2.4	2	3																	

SA-AKX105PH CD SERVO P.C.B.

18.1.4. Main P.C.B. (1/4)

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

REF NO.	IC2000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	0	3.1	2.0	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	0	3.3	3.3
STANDBY	0	0	0	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0	0	3.3	3.3

REF NO.	IC2000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	8.6	0	0.2	0	0.7	4.4	4.4	0.3	4.2	4.2	4.2	4.2	4.3	4.4	4.4	0	2.0	3.1	0	0
STANDBY	8.6	0	0.2	0	0.7	4.4	4.4	0.3	4.2	4.2	4.2	4.2	4.3	4.4	4.4	0	0	0	0	0

REF NO.	IC2000																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
POWER ON	0	3.0	0	4.0	0	4.3	4.0	0	0	3.0	0	0								
STANDBY	0	0	0	0	0	4.3	0	0	0	0	0	0								

REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	8.0	0	8.0	0	8.0	0	8.0	16.0												
STANDBY	8.0	0	8.0	0	8.0	0	8.0	16.0												

REF NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	4.3	4.3	4.3	0	4.3	4.3	4.3	8.6												
STANDBY	4.3	4.3	4.3	0	4.3	4.3	4.3	8.6												

REF NO.	IC2003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	0	3.3	3.3	0	0	0	1.2	0	3.3	3.3	0	1.5	1.6	0	1.1	1.7	3.3	1.8	3.2	3.2
STANDBY	0	3.3	3.3	0	0	0	1.2	0	3.3	3.3	0	1.5	1.6	0	1.1	1.7	3.3	1.8	3.2	0

REF NO.	IC2003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	3.2	3.2	3.3	0	3.0	0	1.9	3.3	0	3.3	0	0	0	0	0	1.7	1.8	0	0	0
STANDBY	0	3.2	3.3	0	3.0	0	1.9	3.3	0	3.3	0	0	0	0	0	1.7	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
POWER ON	0	0	3.0	0	0	0	0	3.3	0	0	0	3.3	3.3	0	0	0	0	0	0	0
STANDBY	0	0	3.0	0	0	0	0	3.3	0	0	0	3.3	3.3	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
POWER ON	0	0	0	3.0	3.0	0	0	0	3.3	0	0	0	3.3	3.3	3.3	3.3	3.3	0	0	0
STANDBY	0	0	0	3.0	3.0	0	0	0	3.3	0	0	0	3.3	3.3	3.3	3.3	3.3	0	0	0

SA-AKX105PH MAIN P.C.B.

18.1.5. Main P.C.B. (2/4)

REF NO.	IC2003																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
POWER ON	0	3.3	3.3	0	0	3.3	3.3	3.3	3.3	0	0	0	0.6	0.9	3.3	0	0.9	3.3	2.6	3.3
STANDBY	0	3.3	3.3	0	0	3.3	3.3	3.3	3.3	0	0	0	0.6	0.9	3.3	0	0.9	3.3	2.6	3.3

REF NO.	IC2004																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	9.1	17.1	5.5	0	8.8	8.8	8.8	17.0												
TUNER	9.1	17.1	5.5	0	8.8	8.8	8.8	17.0												

REF NO.	IC2005																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	9.0	9.0	9.0	0	9.0	9.0	9.0	17.8												
STANDBY	0	0	0	0	0	0	0	17.8												

REF NO.	IC2006																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	0	0	0	0	2.0	3.0	3.0	3.3												
STANDBY	0	0	0	0	2.0	3.0	3.0	3.3												

REF NO.	IC2008																			
MODE	1	2	3	4	5															
POWER ON	5.2	0	3.3	3.3	5.2															
STANDBY	5.2	0	3.3	3.3	5.2															

REF NO.	IC2010																			
MODE	1	2	3	4	5															
POWER ON	18.2	9.3	0	1	2.9															
STANDBY	18.2	9.3	0	1	2.9															

REF NO.	IC2011																			
MODE	1	2	3	4	5															
POWER ON	18.0	5.2	0	1.0	2.9															
STANDBY	18.0	5.2	0	1.0	2.9															

REF NO.	IC2012																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	7.1	0.5	0.5	0	0	0	0	18.0												
STANDBY	7.1	0.5	0.5	0	0	0	0	18.0												

REF NO.	IC2014																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	3.4	0.8	0	0	5.1	0	0	5.2												
STANDBY	3.4	0.8	0	0	5.1	0	0	5.2												

REF NO.	IC5600																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.1	0	0	2.7	2.2	0	2.6	2.3	0	2.5	2.7	2.3	5.3						
STANDBY	0	5.1	0	0	2.7	2.2	0	2.6	2.3	0	2.5	2.7	2.3	5.3						

SA-AKX105PH MAIN P.C.B.

18.1.6. Main P.C.B. (3/4)

REF NO.	IC5700																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-11.0	0	0	34.5	0	-32.9	-24.6	35.6	0	0	-34.0	-31.0	-34.0	0	9.0	34.6	-34.0	-34.0	0	34.0
STANDBY	-11.0	0	0	34.5	0	-32.9	-24.6	35.6	0	0	-34.0	-31.0	-34.0	0	9.0	34.6	-34.0	-34.0	0	34.0

REF NO.	IC5700																			
MODE	21	22	23																	
CD PLAY	0	0	5.0																	
STANDBY	0	0	2.3																	

REF NO.	IC5800																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-11.0	0	0	34.5	0	-32.9	-24.6	35.6	0	0	-34.0	-31.0	-34.0	0	9.0	34.6	-34.0	-34.0	0	34.0
STANDBY	-11.0	0	0	34.5	0	-32.9	-24.6	35.6	0	0	-34.0	-31.0	-34.0	0	9.0	34.6	-34.0	-34.0	0	34.0

REF NO.	IC5800																			
MODE	21	22	23																	
CD PLAY	0	0	5.0																	
STANDBY	0	0	2.3																	

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	1.7	2.3		0	0	0.5		0	0	15.0		0	3.3	0		0	2.0	0	
STANDBY	0	1.7	2.3		0	0	0.5		0	0	15.0		0	3.3	0		0	2.0	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	3.3	2.0	0		0	0	3.3		0	9.0	4.3		0	8.8	0		0	8.8	2.0	
STANDBY	3.3	2.0	0		0	0	3.3		0	9.0	4.3		0	8.8	0		0	8.8	2.0	

REF NO.	Q2010				Q2011				Q2016				Q2017				Q2020			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	8.8	2.0		0	3.3	0		2.3	1.6	1.1		0	3.2	0		5.7	18.2	6.3	
STANDBY	0	8.8	2.0		0	3.3	0		2.3	1.6	1.1		0	3.2	0		5.7	18.2	6.3	

REF NO.	Q2021				Q2023				Q2026				Q2028				Q2029			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	15.0	15.0		18.2	0	18.1		0	0	1.9		8.1	17.2	8.5		8.1	17.2	8.5	
STANDBY	0	15.0	15.0		18.2	0	18.1		0	0	1.9		8.1	17.2	8.5		8.1	17.2	8.5	

REF NO.	Q2030				Q2032				Q2035				Q2037				Q2038			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	8.1	17.2	8.5		8.1	17.2	8.5		0	34.1	2.0		0	4.4	3.0		0	1.9	1.5	
STANDBY	8.1	17.2	8.5		8.1	17.2	8.5		0	34.1	2.0		0	4.4	3.0		0	1.9	1.5	

REF NO.	Q2039				Q2040				Q2041				Q2042				Q2050			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.9	0	1.9		0	4.3	4.4		0	4.4	4.3		0	3.3	0		0	0	9.0	
STANDBY	0.9	0	1.9		0	4.3	4.4		0	4.4	4.3		0	3.3	0		0	0	0.2	

SA-AKX105PH MAIN P.C.B.

18.1.7. Main P.C.B. (4/4)

REF NO.	Q5603				Q5604															
MODE	E	C	B		E	C	B													
CD PLAY	0	3.3	0		0	3.3	0													
STANDBY	0	3.3	0		0	3.3	0													

REF NO.	Q2018				Q2022				Q2024				Q2025				Q2027			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	5.0	0		5.1	7.0	5.8		0	3.2	1.0		0	1.0	5.0		9.0	8.9	9.0	
STANDBY	0	5.0	0		5.1	7.0	5.8		0	3.2	1.0		0	1.0	5.0		9.0	8.9	9.0	

REF NO.	Q2018				Q2022				Q2024				Q2025				Q2027			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	5.0	0		5.1	7.0	5.8		0	3.2	1.0		0	1.0	5.0		9.0	8.9	9.0	
STANDBY	0	5.0	0		5.1	7.0	5.8		0	3.2	1.0		0	1.0	5.0		9.0	8.9	9.0	

REF NO.	Q2031				Q2033				Q5600				Q5601				Q5602			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	3.3	3.2		16.0	18.2	7.1		5.1	5.1	4.5		0	5.0	0		0	0	0.6	
STANDBY	0	3.3	3.2		16.0	18.2	7.1		5.1	5.1	4.5		0	5.0	0		0	0	0.6	

REF NO.	QR2000				QR2001				QR2003				QR2005				QR2006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	0	8.9		4.2	4.2	0		0	3.3	0		0	3.3	0		0	3.2	3.2	
STANDBY	0	0	8.9		4.2	4.2	0		0	3.3	0		0	3.3	0		0	3.2	3.2	

REF NO.	Q2019				QR2004															
MODE	E	C	B		E	C	B													
USB	5.2	5.0	0		0	0	3.3													
STANDBY	5.2	0	0		0	0	0													

SA-AKX105PH MAIN P.C.B.

18.1.8. 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
POWER ON	0	0	0	0	2.0	0	0	0	2.3	0	0	0	3.4	-16.2	-16.2	-19.9	-21.9	-20.0	-21.9	-19.9
STANDBY	0	0	0	0	2.0	0	0	0	2.3	0	0	0	3.4	-16.2	-16.2	-19.9	-21.9	-20.0	-21.9	-19.9

REF NO.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	-19.9	-21.9	-23.7	-21.9	-14.2	-21.9	-16.2	-21.9	-23.9	-24.3	-24.3	-22.0	-21.9	3.40	-21-9	-21.9	-21.9	21.9	-21.9	-21.9
STANDBY	-19.9	-21.9	-23.7	-21.9	-14.2	-21.9	-16.2	-21.9	-23.9	-24.3	-24.3	-22.0	-21.9	3.40	-21-9	-21.9	-21.9	21.9	-21.9	-21.9

REF NO.	IC6000																			
MODE	41	42	43	44																
POWER ON	-22.0	-22.0	3.4	0																
STANDBY	-22.0	-22.0	3.4	0																

REF NO.	Q6002				Q6003				QR6001				QR6003							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
POWER ON	0	5.0	0		0	17.8	0		0	0	0		0	4.0	3.0					
STANDBY	0	5.0	0		0	17.8	0		0	0	0		0	4.0	3.0					

SA-AKX105PH PANEL P.C.B.

18.1.9. 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
POWER ON	2.5	0	0	37	0	-34.1	-28.5	37.3	8.9	0	-37.3	-27.2	-37.3	0	8.9	37.3	-37.1	-37.1	0	37
STANDBY	2.5	0	0	37	0	-34.1	-28.5	37.3	8.9	0	-37.3	-27.2	-37.3	0	8.9	37.3	-37.1	-37.1	0	37

REF NO.	IC5000																			
MODE	21	22	23																	
POWER ON	0	0	5.0																	
STANDBY	0	0	5.0																	

REF NO.	IC5200																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	2.5	0	0	37	0	-34.1	-28.6	37.3	8.9	0	-37.4	-27.2	-37.4	0	8.8	37.3	-37.1	-37.1	0	37
STANDBY	2.5	0	0	37	0	-34.1	-28.6	37.3	8.9	0	-37.4	-27.2	-37.4	0	8.8	37.3	-37.1	-37.1	0	37

REF NO.	IC5200																			
MODE	21	22	23																	
POWER ON	0	0	5																	
STANDBY	0	0	5																	

REF NO.	IC5300																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	2.5	0	0	37	0	-34.1	-28.6	37.3	8.8	-0.2	-37.3	-27.3	-37.4	-0.3	8.8	37.3	-37.3	-37.2	0	37
STANDBY	2.5	0	0	37	0	-34.1	-28.6	37.3	8.8	-0.2	-37.3	-27.3	-37.4	-0.3	8.8	37.3	-37.3	-37.2	0	37

REF NO.	IC5300																			
MODE	21	22	23																	
POWER ON	0	0	5																	
STANDBY	0	0	5																	

REF NO.	IC5400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	2.5	0	0	37	0	-34.1	-28.5	37.3	8.9	0	-37.3	-27.2	-37.3	0	8.9	37.3	-37.1	-37.1	0	37
STANDBY	2.5	0	0	37	0	-34.1	-28.5	37.3	8.9	0	-37.3	-27.2	-37.3	0	8.9	37.3	-37.1	-37.1	0	37

REF NO.	IC5400																			
MODE	21	22	23																	
POWER ON	0	0	5																	
STANDBY	0	0	5																	

REF NO.	IC5500																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
POWER ON	0	1.8	5	0	2.6	2.6	0	0	5.4	5.4	0	0	5.4	5.4						
STANDBY	0	1.8	5	0	2.6	2.6	0	0	5.4	5.4	0	0	5.4	5.4						

REF NO.	Q5101				Q5102				Q5601				Q5604							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
POWER ON	0	3.3	0		0	3.3	0		0	5.0	0		0	0	0.7					
STANDBY	0	3.3	0		0	3.3	0		0	5.0	0		0	0	0.7					

SA-AKX105PH D-AMP P.C.B.

18.1.10. SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	164.8	0	0	19.1	0	1.4	0.5	0												
STANDBY	164.8	0	0	19.1	0	1.4	0.5	0												

REF NO.	IC5799																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	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	K	A	R																	
POWER ON	2.4	2.0	-30.0																	
STANDBY	2.4	2.0	-30.0																	

REF NO.	IC5899																			
MODE	K	A	R																	
POWER ON	1.2	0	0																	
STANDBY	1.2	0	0																	

REF NO.	Q5700				Q5720				Q5721				Q5722				Q5860			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	0	0.5	0		7.3	8.5	7.6		19.7	19.7	19.0		0	19.6	0		0	35.2	0	
STANDBY	0	0.5	0		7.4	8.6	7.7		19.7	19.7	19.0		0	19.6	0		0	35.2	0	

REF NO.	Q5861				Q5862				Q5898				QR5801				QR5802			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	1.3	0	0.7		0	0	0.7		0	3.3	0		0	3.1	0		0	3.3	6.6	
STANDBY	1.3	0	0.7		0	3.3	0		0	3.3	0		0	3.1	0		0	3.3	6.6	

REF NO.	QR5810																			
MODE	E	C	B																	
POWER ON	0	0	3.1																	
STANDBY	0	0	3.1																	

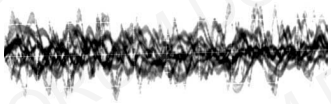
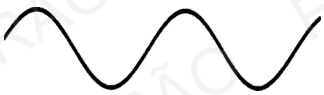
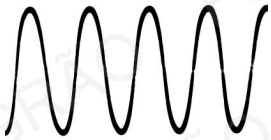
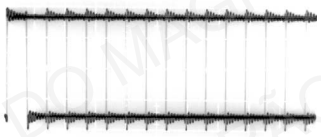
SA-AKX105PH SMPS P.C.B.

18.1.11. Mic P.C.B.

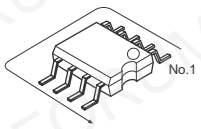
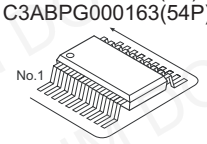
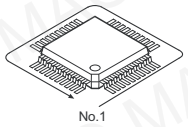
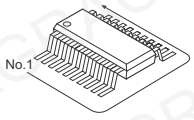
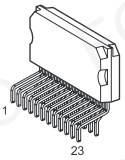
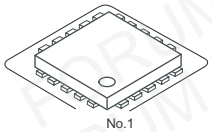
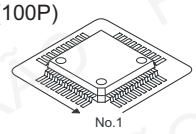
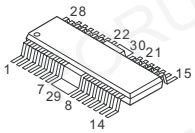
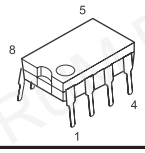
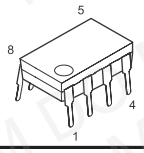
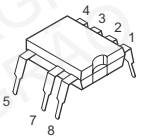
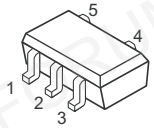
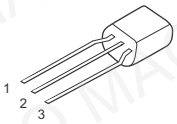
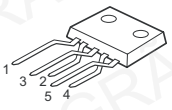
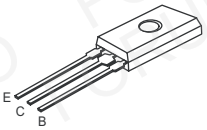
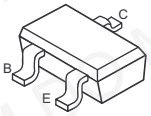
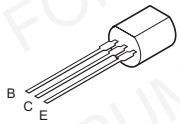
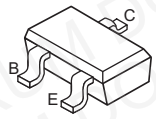
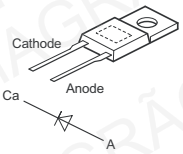
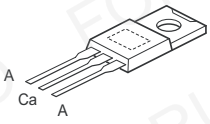
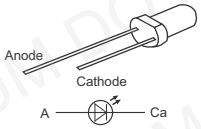
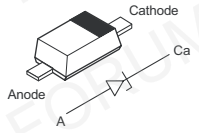
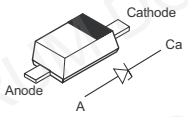
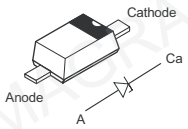
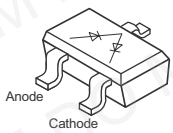
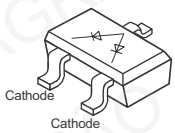
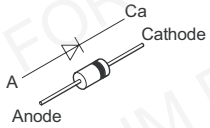
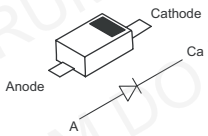
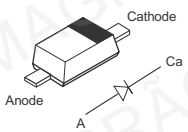
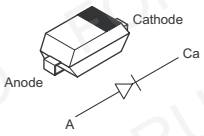
REF NO.	IC6500																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
POWER ON	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0	0	4.3	0	0	8.6	4.3						
STANDBY	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0	0	4.3	0	0	8.6	4.3						

SA-AKX105PH MIC P.C.B.

18.1.12. Waveform Table

WF No. IC52-2,13,14 (PLAY)  0.1Vp-p(200usec/div)	WF No. IC2000-2,3,42,50 (PLAY)  0.48Vp-p(1usec/div)	WF No. IC2000-5,6,7 (PLAY)  2Vp-p(200usec/div)	WF No. IC2000-17,22 (PLAY)  0.48Vp-p(1usec/div)
WF No. IC2000-44,47 (PLAY)  1.1Vp-p(50usec/div)	WF No. IC2003-12,13 (PLAY)  4Vp-p(50nsec/div)	WF No. IC2003-15,16 (PLAY)  3Vp-p(10usec/div)	WF No. IC2005-1,2,6,7 (PLAY)  0.52Vp-p(1usec/div)
WF No. IC5700-10,14 (PLAY)  44Vp-p(1usec/div)	WF No. IC5700-2,21 (PLAY)  2Vp-p(1usec/div)	WF No. IC5800-10,14 (PLAY)  44Vp-p(1usec/div)	WF No. IC5800-2,21 (PLAY)  2Vp-p(1usec/div)
WF No. IC8001-55,56,57,58,59, 60 (PLAY)  0.5Vp-p(2usec/div)	WF No. IC8001-94,95 (PLAY)  2.5Vp-p(200usec/div)	WF No. IC8001-123,125 (PLAY)  0.4Vp-p(5usec/div)	WF No. IC8301-1,2 (PLAY)  2Vp-p(200usec/div)
WF No. IC8301-9 (PLAY)  0.4Vp-p(1usec/div)			

18.2. Illustration of ICs, Transistor and Diode

C0ABBB000067 (8P) C0JBAB000902 (14P) 	C0FBAK000026(16P) C1AB00003130 (14P) C1ZBZ0004646 (8P) C3ABPG000163(54P) 	C0HBB0000057 (44P) 	C0DBEYY00123 (8P) C3FBMY000303 (8P) 	C1BA00000497 (23P) 	C1AB00003566 (20P) C3FBYY000034 (169P) 
C1AB00003256 (52P) MN6627992AB (144P) RFKWMAKX54M0 (100P) 	C0GBY0000117 	C3EBEY000037 (8P) 	C0AABB000125 (8P) 	MIP2F20MSSCF (8P) 	C0DBZYY00311 
C0DAZYY00039 C0DAEYY00040 	C0DAAYG00001 	B1BAAL000018 B1BABG000007 B1ZAZ0000058 	B1ABCF000176 B1ADCE000012 	B1ADCF000001 B1GBCFJJ0051 B1GBCFLL0037 B1GDCFGA0018 B1GBCFGN0016 B1GDCFJJ0047	B1AAJC000019 
B1ABCF000231 B1GBCFJN0038 	B0HFRJ000012 B0ZAZ0000089 	B0ABSM000010 	B3AAA0000487 B3AEA0000127 B3AEA0000172 B3AAA0001129 	B0FBBV000006 	DZ2J033M0L DZ2J24000L DZ2J051M0L 
B0BC5R1A0266 B0BC5R600003 B0BC5R6A0266 	B0BC010A0007 B0BC019A0007 	B0BC035A0007 B0BC2R4A0006 B0BC3R700004 B0BC6R100010 B0BC9R000008	B0ADCC000002 	B0ADDJ000032 	B0EAKM000117 B0EAMM000057 B0HAMP000094 B0JAME000114 
B0ECET000006 	B0ACCK000005 B0ACCK000012 DA2J10100L 	B0HCSP000001 B0JCPD000025 			

18.3. Terminal Function of ICs

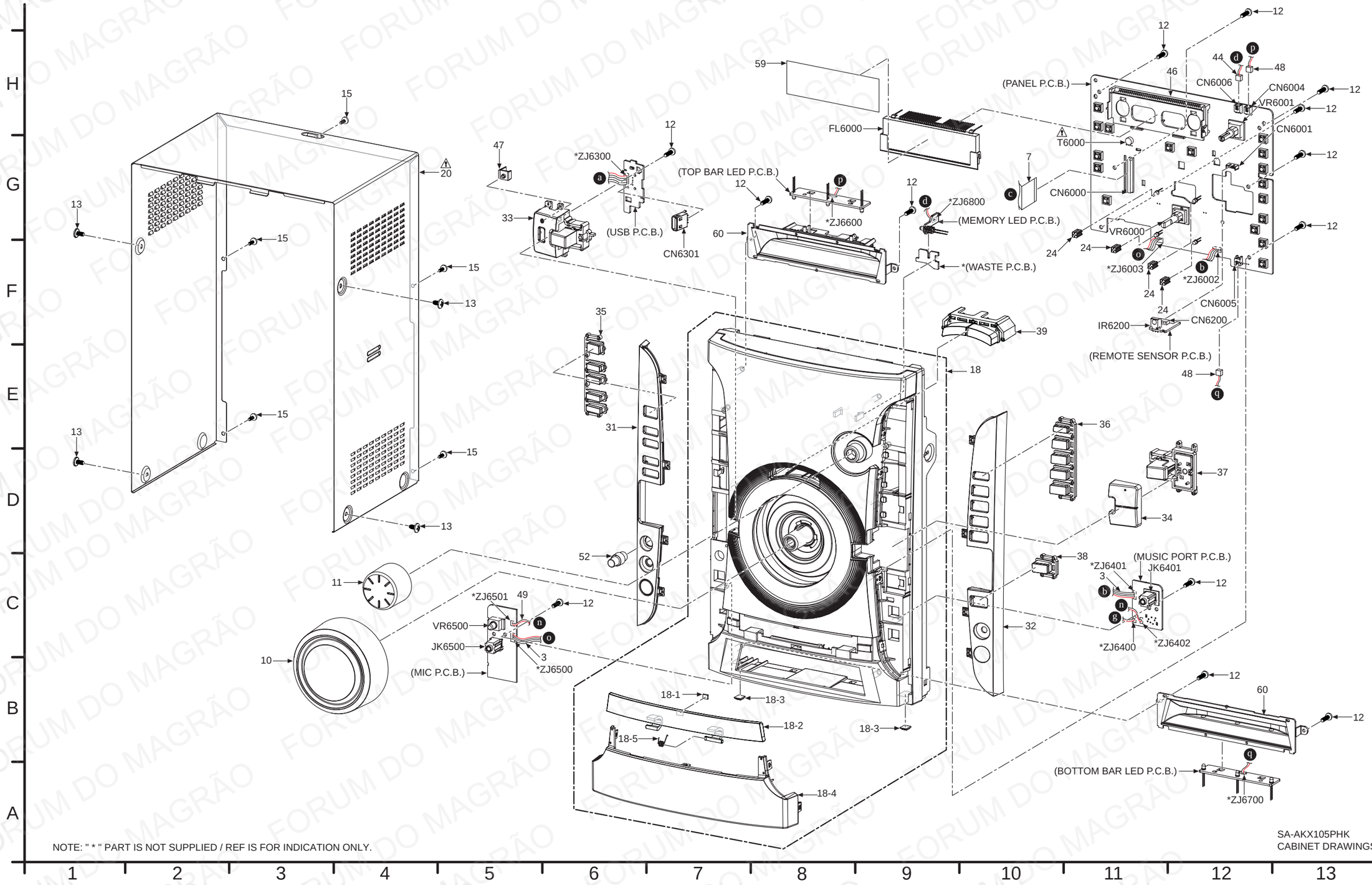
18.3.1. IC2003 (RFKWMAKX54M0): IC MICRO-PROCESSOR

Pin No.	Terminal Name	I/O	Function
1	CLIP ATTN	O	Clipping attenuation
2	ASP_DATA	O	ASP data
3	ASP_CLK	O	ASP Clock
4	OCD_SDA	O	OCD Serial data
5	SW_MUTE	O	Subwoofer Muting
6	OCD_SCL	O	OC Serial Clock
7	M.PORT_SW	I	Music Port Detect
8	HP_SW	I	Headphone Detect
9	VOL_JOGA	I	Volume Jog A Signal
10	VOL_JOGB	I	Volume Jog B Signal
11	MM0D0 (GND)	-	Ground
12	XTOUT	O	Oscillator Output
13	XTIN	I	Oscillator Input
14	VSS	-	Ground
15	XI	I	Oscillator Input
16	XO	O	Oscillator Output
17	VDD3.3	-	+3.3 Voltage Supply
18	VDD1.8	-	+1.8 Voltage Supply
19	NRST	I	Reset Input (Active L)
20	FAN_OUT1	O	Fan Speed Control 1
21	FAN_OUT2	O	Fan Speed Control 2
22	TU_SDA	O	Tuner Serial Data
23	TU_CLK	O	Tuner Clock
24	TU_RST	O	Tuner Reset
25	TU_INT	I	Tuner Interrupt
26	PCONT	O	Power Control
27	SYNC	I	AC Failure Detection Input
28	DCDET2	I	DC Detect (D-AMP IC Failure Detection)
29	ECO_CNTRL	O	Eco Mode Control
30	NC	-	No Connection
31	SMPS_BP	O	SMPS Breatproof
32	ROTARY JOGB	O	Rotary jog for browse operation (Album & Track)
33	ROTARY JOGA	O	Rotary jog for browse operation (Album & Track)
34	EE_DATA	O	EEPROM IC Serial data
35	EE_CS	O	EEPROM IC Chip select
36	EE_CLK	O	EEPROM IC Serial clock
37	VDD18	-	+1.8V Voltage Supply
38	LED DIMMER	O	LCD Display Brightness Control
39	VSS	-	Ground
40	NC	-	No Connection
41	MUTE_F	O	Digital Amp Muting control
42	F_HOP1	O	Frequency Hopping
43	DCDECT1	I	DC Detect (Power Supply Failure Detection)
44	MODE_DA	O	Digital Amp On/Off control
45	BASS_CTR	O	Bass Control
46	MUSIC_CTR	O	Music Control
47	NC	-	No Connection
48	NC	-	No Connection
49	NC	-	No Connection
50	NC	-	No Connection
51	SW_LVL_1	O	Subwoofer Level Setting 1
52	SW_LVL_2	O	Subwoofer Level Setting 2
53	NC	-	No Connection
54	NC	-	No Connection
55	NC	-	No Connection
56	CLOSE_SW	I	CD Close Switch Detection
57	CD_OPEN_SW	I	CD Open Switch Detection
58	CD_RESET_SW	I	CD Reset Detection
59	LOAD_CCW	O	Loading Motor Turning Counter-Clockwise (Tray Close)
60	LOAD_CW	O	Loading Motor Turning Counter-Clockwise (Tray Open)
61	CD_RESET	O	CD Reset
62	USB_IN	I	USB Input Detection
63	VSS	-	Ground
64	CD_BLKCK	I	CD Block Clock
65	CD_MLD	O	CD Loading
66	NC	-	No Connection
67	REGION 3	I	Region Setting 3
68	NC	-	No Connection
69	CR TIMER	I	CR Timer
70	OC	I	USB Over Current
71	EN	O	USB Enable
72	CD_MDATA (SYS_RXD)	O	CD data
73	CD_STAT (SYS_TXD)	I	CD Status
74	CD_MCLK	O	CD Clock
75	NC	-	No Connection
76	NC	-	No Connection
77	NC	-	No Connection
78	AMUTE	I	Amp Muting control
79	USB REC LED	O	USB Rec LED Drive
80	BASS_SHIFT	O	Bass Level Meter Adjustment
81	MUTE_A	O	Audio Output Muting
82	FL_DATA	O	FL Display data input
83	FL_CS	O	FL Display Data Input
84	FL_CLK	O	FL Display Clock
85	REGION 2	I	Region Setting 2
86	RMT	I	Remote Control Signal
87	NC	-	No Connection
88	NC	-	No Connection
89	VDD	-	Voltage supply
90	NC	-	No Connection
91	VSS	-	Ground
92	REGION 1	AN0	Region Setting 1
93	CLIP SENSOR	AN1	Clipping sensor (Volume & ASP Bass control)
94	AUTO BASS	AN2	Auto Bass setting adjustment
95	SMPS_ID	AN3	SMPS Type Detection
96	LVL MTR	AN4	Bass Lever Meter Control
97	TEMP_DET	AN5	Temperature Detect
98	KEY 2	AN6	Key 2 Input
99	KEY 1	AN7	Key 1 Input
100	VREF+	-	Voltage Supply

19 Exploded View and Replacement Parts List

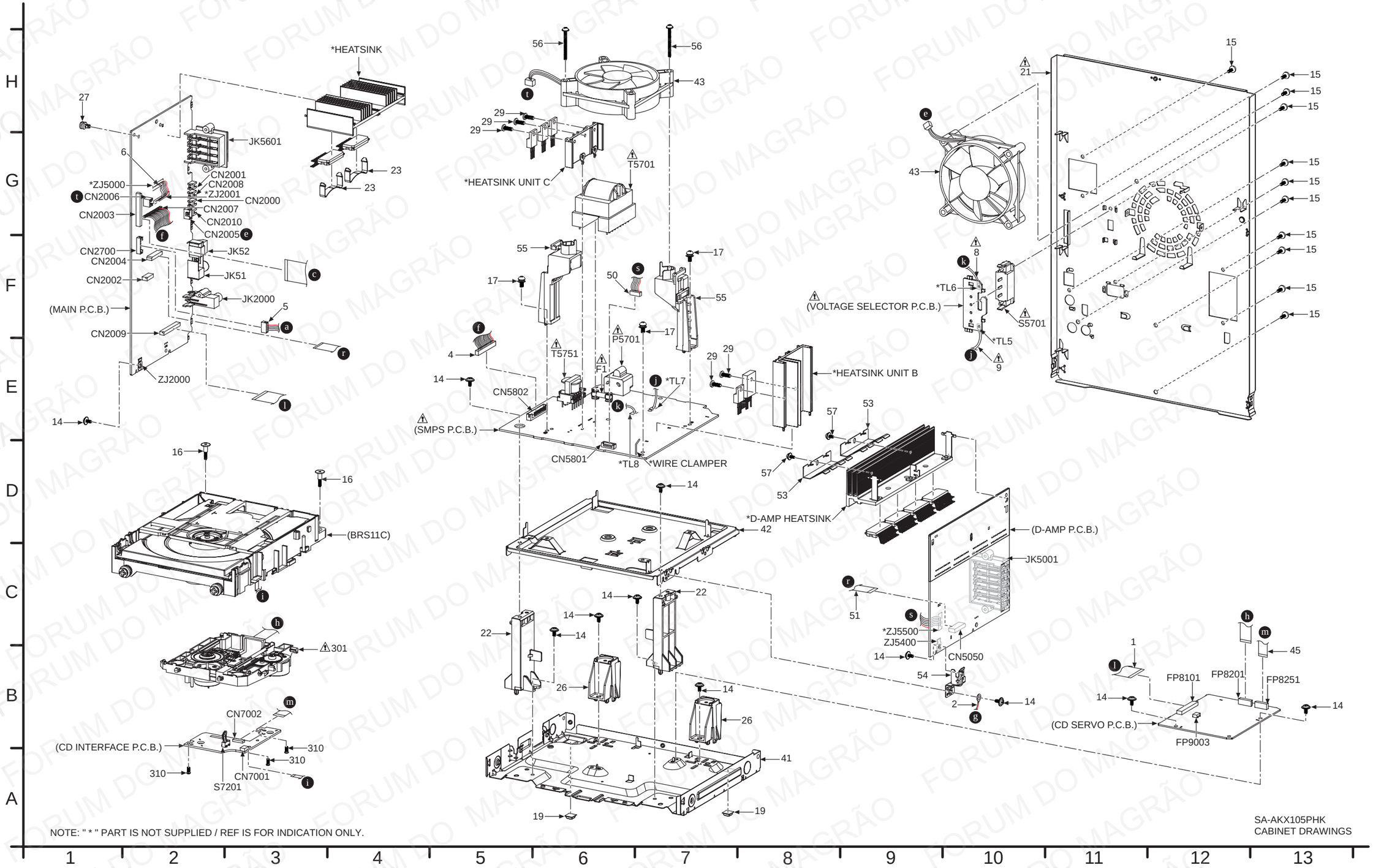
19.1. Exploded View and Mechanical replacement Part List

19.1.1. Cabinet Parts Location



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

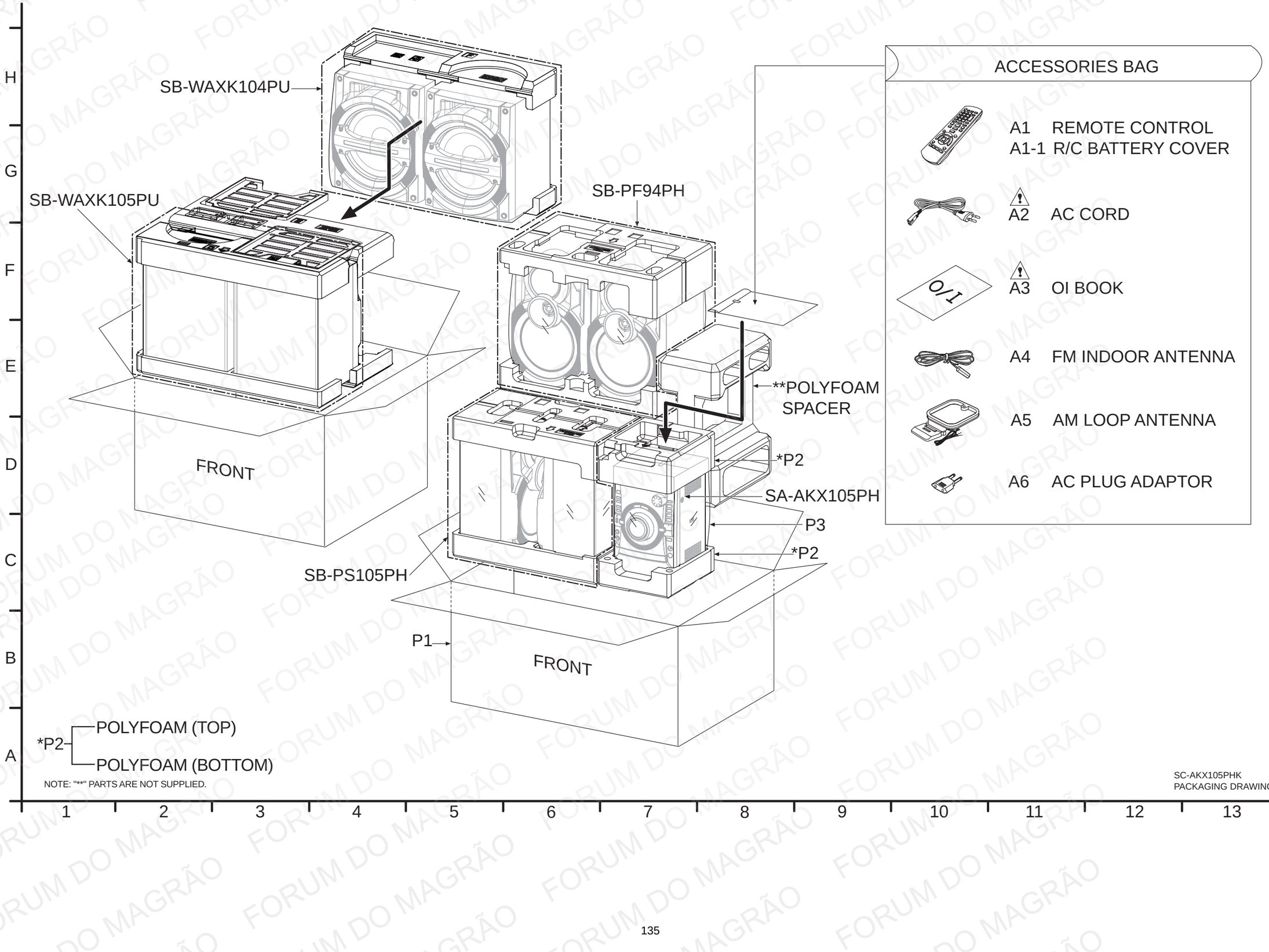
SA-AKX105PHK
CABINET DRAWINGS



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

SA-AKX105PHK
CABINET DRAWINGS

19.1.2. Packaging



19.1.3. 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	Fi:	Finnish

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE1708	30P FFC (MAIN-CD SERVO)	1	
	2	REXX1159-1	2P CABLE WIRE (MUSIC PORT-INNER CHASSIS)	1	
	3	REX1487	4P CABLE WIRE (PANEL-MIC/MUSIC PORT)	2	
	4	REX1527	15P CABLE WIRE (MAIN-SMPS)	1	
	5	REX1472	5P CABLE WIRE (USB-MAIN)	1	
	6	REX1531	6P CABLE WIRE (MAIN- MAIN)	1	
	7	REE1647	27P FFC (MAIN-PANEL)	1	
⚠	8	REXX1123-K	1P RED WIRE (VOLTAGE SELECTOR-SMPS)	1	
⚠	9	REXX1122-K	1P BLACK WIRE (VOLTAGE SELECTOR-SMPS)	1	
	10	RGW0428-S1	VOLUME KNOB	1	
	11	RGW0429-1S	SKIP KNOB	1	
	12	RHD26046-L	SCREW	13	
	13	RHD30007-K2J	SCREW	4	
	14	RHD30111-31	SCREW	11	
	15	RHD30119-S	SCREW	16	
	16	RHDX031008	SCREW	2	
	17	RHDX30005-J	SCREW	3	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	18	RFKGAKX94PHK	FRONT PANEL ASS'Y	1	
	18-1	RMGX0033A-K	CD LID CUSHION	1	
	18-2	RGK2307B-K1	CD LID	1	
	18-3	RKAX0042-K	LEG CUSHION	2	
	18-4	RKW0984-Q1	UNDER WINDOW	1	
	18-5	RMB0930	CD LID SPRING	1	
	19	RKAX0042-K	LEG CUSHION	2	
⚠	20	RKMX1011-K1	TOP CABINET	1	
⚠	21	RGRX1008AA-A	REAR PANEL	1	
	22	RMAX1007-J	CHASSIS SUPPORT	2	
	23	RMCX0035	HEAT SINK CLIP	2	
	24	RMNX0151	LED HOLDER	4	
	26	RMQX1088-J	MECHA HOLDER	2	
	27	RMX0444	PCB SPACER	1	
	29	XTB3+10JFJ	SCREW	5	
	31	RGK2308B-S1	SIDE ORNAMENT L	1	
	32	RGK2309E-S	SIDE ORNAMENT R	1	
	33	RGK2325A-S	USB ORNAMENT	1	
	34	RGK2328-S	PLAY BUTTON ORNAMENT	1	
	35	RGU2764A-S	POWER BUTTON	1	
	36	RGU2791-S	FUNCTION BUTTON	1	
	37	RGU2763-S1	PUSH/PLAY BUTTON	1	
	38	RGU2765-S	CD OPEN CLOSE BUTTON	1	
	39	RGU2792-K	SKIP BUTTON	1	
	41	RMKX1031A-1	BOTTOM CHASSIS	1	
	42	RMKX1037-3	INNER CHASSIS	1	
	43	L6FALEFH0030	FAN UNIT ASS'Y	2	
	44	REX1521	2P CABLE WIRE (PANEL-MEMORY LED)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	45	REE1671	10P FFC (CD SERVO-CD INTER-FACE)	1	
	46	RMNV0079-1	FL HOLDER	1	
	47	RGL0764-Q	USB REC LIGHT PIECE	1	
	48	REX1488	2P CABLE WIRE(TOP/BOTTOM BAR LED-PANEL)	2	
	49	REX1522	2P CABLE WIRE (MUSIC PORT-MIC)	1	
	50	REX1537	6P CABLE WIRE(DAMP-SMPS)	1	
	51	REE1710	17P FFC (MAIN-DAMP)	1	
	52	RGWX0056-1K1	MIC VOLUME KNOB	1	
	53	RMC0465	EARTH SPRING	2	
	54	RMAX1002A-1	D-AMP BRACKET	1	
	55	RMKX1016-3	FAN FIXTURE	2	
	56	XTW3+30TFJ	SCREW	2	
	57	XTW3+8TFJ	SCREW	2	
	59	RGQ0672-R1	FL FILTER SHEET	1	
	60	RGC0046-W	LIGHTING HOUSE	2	
			TRAVERSE DECK		
⚠	301	RAE1034Z-V	TRAVERSE ASS'Y	1	
	310	XTN2+6GFJ	SCREW	3	
			PACKING MATERI-ALS		
	P1	RPG0B24	PACKING CASE	1	
	P2	RPN2350-1	POLYFOAM	1	
	P3	RPFX0198-1	MIRAMAT	1	
			ACCESSORIES		
	A1	N2QAYB000637	REMOTE CONTROL	1	
	A1-1	RKK-PM500EBK	R/C BATTERY COVER	1	
⚠	A2	K2CQ2CA00006	AC CORD	1	
⚠	A3	RQT9706-1M	O/I BOOK (Sp)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	N1DYYYY00011	AM LOOP ANTENNA	1	
	A6	K2DAYYY00002	AC PLUG ADAPTOR	1	

19.2. 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	REP4749B	CD SERVO P.C.B.	1	(RTL)
	PCB2	REP4768N	MAIN P.C.B.	1	(RTL)
	PCB3	REP4793DA	PANEL P.C.B.	1	(RTL)
	PCB4	REP4793DB	REMOTE SENSOR P.C.B.	1	(RTL)
	PCB5	REP4793DC	USB P.C.B.	1	(RTL)
	PCB6	REP4793DA	MUSIC PORT P.C.B.	1	(RTL)
	PCB7	REP4793DA	MIC P.C.B.	1	(RTL)
	PCB8	REP4793DF	TOP BAR LED P.C.B.	1	(RTL)
	PCB9	REP4793DG	BOTTOM BAR LED P.C.B.	1	(RTL)
	PCB10	REP4793DH	MEMORY LED P.C.B.	1	(RTL)
	PCB11	REP4755A	CD INTERFACE P.C.B.	1	(RTL)
	PCB12	REP4801B	D-AMP P.C.B.	1	(RTL)
⚠	PCB13	REP4800A	SMPS P.C.B.	1	(RTL)
⚠	PCB14	REP4800A	VOLTAGE SELECTOR P.C.B.	1	(RTL)
			INTEGRATED CIRCUITS		
	IC52	C1AB00003566	IC	1	
	IC2000	C1AB00003256	IC	1	
	IC2001	C0ABBB000067	IC	1	
	IC2002	C0ABBB000067	IC	1	
	IC2003	RFKWMAKX54M0	IC	1	
	IC2004	C0ABBB000067	IC	1	
	IC2005	C0AABB000125	IC	1	
	IC2006	C3EBEY000037	IC	1	
	IC2008	C0DBZYY00311	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC2010	C0DAAYG00001	IC	1	
	IC2011	C0DAAYG00001	IC	1	
	IC2012	C0ABBB000067	IC	1	
	IC2014	C0DBEYY00123	IC	1	
	IC5000	C1BA00000497	IC	1	
	IC5200	C1BA00000497	IC	1	
	IC5300	C1BA00000497	IC	1	
	IC5400	C1BA00000497	IC	1	
	IC5500	C0JBAB000902	IC	1	
	IC5600	C0JBAB000902	IC	1	
	IC5700	C1BA00000497	IC	1	
	IC5701	C1ZBZ0004646	IC	1	
	IC5799	MIP2F20MSSCF	IC	1	
	IC5800	C1BA00000497	IC	1	
	IC5801	C0DAZYY00039	IC	1	
	IC5899	C0DAEYY00040	IC	1	
	IC6000	C0HBB0000057	IC	1	
	IC6500	C1AB00003130	IC	1	
	IC8001	MN6627992AB	IC	1	
	IC8051	C3ABPG000163	IC	1	
	IC8251	C0GBY0000117	IC	1	
	IC8301	C0FBAK000026	IC	1	
	IC8401	C3FBMY000303	IC	1	
	IC8501	C3FBYY000034	IC	1	
			TRANSISTORS		
	Q2000	B1ADCE000012	TRANSISTOR	1	
	Q2001	B1ABCF000231	TRANSISTOR	1	
	Q2002	B1ABCF000231	TRANSISTOR	1	
	Q2003	B1ABCF000231	TRANSISTOR	1	
	Q2004	B1GDCFJJ0047	TRANSISTOR	1	
	Q2005	B1GDCFJJ0047	TRANSISTOR	1	
	Q2006	B1GDCFJJ0047	TRANSISTOR	1	
	Q2007	B1ABCF000176	TRANSISTOR	1	
	Q2008	B1ABCF000176	TRANSISTOR	1	
	Q2009	B1ABCF000176	TRANSISTOR	1	
	Q2010	B1ABCF000176	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q2011	B1GBCFLL0037	TRANSISTOR	1	
	Q2016	B1ADCE000012	TRANSISTOR	1	
	Q2017	B1GBCFJJ0051	TRANSISTOR	1	
	Q2018	B1GBCFJJ0051	TRANSISTOR	1	
	Q2019	B1ADCE000012	TRANSISTOR	1	
	Q2020	B1AAJC000019	TRANSISTOR	1	
	Q2021	B1ABCF000231	TRANSISTOR	1	
	Q2022	B1AAJC000019	TRANSISTOR	1	
	Q2023	B1ADCE000012	TRANSISTOR	1	
	Q2024	B1ABCF000231	TRANSISTOR	1	
	Q2025	B1ABCF000231	TRANSISTOR	1	
	Q2026	B1ADCE000012	TRANSISTOR	1	
	Q2027	B1ADCE000012	TRANSISTOR	1	
	Q2028	B1ABCF000176	TRANSISTOR	1	
	Q2029	B1ABCF000176	TRANSISTOR	1	
	Q2030	B1ABCF000176	TRANSISTOR	1	
	Q2031	B1ABCF000231	TRANSISTOR	1	
	Q2032	B1ABCF000176	TRANSISTOR	1	
	Q2033	B1AAJC000019	TRANSISTOR	1	
	Q2035	B1BABG000007	TRANSISTOR	1	
	Q2037	B1ABCF000176	TRANSISTOR	1	
	Q2038	B1ABCF000176	TRANSISTOR	1	
	Q2039	B1ADCE000012	TRANSISTOR	1	
	Q2040	B1ABCF000176	TRANSISTOR	1	
	Q2041	B1ABCF000176	TRANSISTOR	1	
	Q2042	B1ABCF000176	TRANSISTOR	1	
	Q2050	B1ADCE000012	TRANSISTOR	1	
	Q5101	B1ABCF000176	TRANSISTOR	1	
	Q5102	B1ABCF000176	TRANSISTOR	1	
	Q5600	B1ADCE000012	TRANSISTOR	1	
	Q5601	B1ABCF000176	TRANSISTOR	2	
	Q5602	B1ABCF000176	TRANSISTOR	1	
	Q5603	B1ABCF000176	TRANSISTOR	1	
	Q5603	B1ADCE000012	TRANSISTOR	1	
	Q5604	B1ABCF000176	TRANSISTOR	2	
	Q5700	B1ZAZ0000058	TRANSISTOR	1	
	Q5720	B1BABG000007	TRANSISTOR	1	
	Q5721	B1ADCF000001	TRANSISTOR	1	
	Q5722	B1ABCF000176	TRANSISTOR	1	
	Q5860	B1ADCF000001	TRANSISTOR	1	
	Q5861	B1ABCF000176	TRANSISTOR	1	
	Q5862	B1GBCFJJ0051	TRANSISTOR	1	
	Q5898	B1ABCF000176	TRANSISTOR	1	
	Q6002	B1BABG000007	TRANSISTOR	1	
	Q6003	B1BAAL000018	TRANSISTOR	1	
	Q8201	B1ADCF000001	TRANSISTOR	1	
	QR2000	B1GBCFJJ0051	TRANSISTOR	1	
	QR2001	B1GBCFJJ0051	TRANSISTOR	1	
	QR2003	B1GBCFJJ0051	TRANSISTOR	1	
	QR2004	B1GBCFGN0016	TRANSISTOR	1	
	QR2005	B1GBCFJJ0051	TRANSISTOR	1	
	QR2006	B1GBCFJJ0051	TRANSISTOR	1	
	QR5801	B1GBCFJN0038	TRANSISTOR	1	
	QR5802	B1GDCFGA0018	TRANSISTOR	1	
	QR5810	B1GBCFLL0037	TRANSISTOR	1	
	QR6001	B1GBCFJJ0051	TRANSISTOR	1	
	QR6003	B1GBCFJJ0051	TRANSISTOR	1	
			DIODES		
	D2000	B0JCPD000025	DIODE	1	
	D2001	DA2J10100L	DIODE	1	
	D2002	DZ2J033M0L	DIODE	1	
	D2003	DZ2J033M0L	DIODE	1	
	D2004	B0BC3R700004	DIODE	1	
	D2006	DA2J10100L	DIODE	1	
	D2007	B0BC3R700004	DIODE	1	
	D2008	DA2J10100L	DIODE	1	
	D2009	DA2J10100L	DIODE	1	
	D2010	B0ADCC000002	DIODE	1	
	D2012	DA2J10100L	DIODE	1	
	D2014	B0ADDJ000032	DIODE	1	
	D2015	B0ACCK000005	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D2017	B0BC5R6A0266	DIODE	1	
	D2018	B0EAKM000117	DIODE	1	
	D2020	B0EAKM000117	DIODE	1	
	D2022	B0EAKM000117	DIODE	1	
	D2028	DA2J10100L	DIODE	1	
	D2032	DA2J10100L	DIODE	1	
	D2300	DA2J10100L	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	
	D5301	B0HCSP000001	DIODE	1	
	D5302	B0HCSP000001	DIODE	1	
	D5303	B0HCSP000001	DIODE	1	
	D5304	B0HCSP000001	DIODE	1	
	D5401	B0HCSP000001	DIODE	1	
	D5402	B0HCSP000001	DIODE	1	
	D5403	B0HCSP000001	DIODE	1	
	D5404	B0HCSP000001	DIODE	1	
	D5501	B0ACCK000012	DIODE	1	
	D5502	B0ACCK000012	DIODE	1	
	D5503	B0BC5R1A0266	DIODE	1	
	D5600	B0ACCK000012	DIODE	1	
	D5601	B0ACCK000012	DIODE	1	
	D5602	DZ2J051M0L	DIODE	1	
	D5700	B0HCSP000001	DIODE	1	
	D5701	B0FBBV000006	DIODE	1	
	D5701	B0HCSP000001	DIODE	1	
	D5702	B0HCSP000001	DIODE	1	
	D5702	B0ZAZ0000089	DIODE	1	
	D5703	B0ACCK000012	DIODE	1	
	D5703	B0HCSP000001	DIODE	1	
	D5721	B0BC010A0007	DIODE	1	
	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	B0ECET000006	DIODE	1	
	D5731	B0EAMM000057	DIODE	1	
	D5732	B0BC035A0007	DIODE	1	
	D5793	B0HAMP000094	DIODE	1	
	D5795	B0BC9R000008	DIODE	1	
	D5798	B0EAMM000057	DIODE	1	
	D5800	B0HCSP000001	DIODE	1	
	D5801	B0ABSM000010	DIODE	1	
	D5801	B0HCSP000001	DIODE	1	
	D5802	B0ABSM000010	DIODE	1	
	D5802	B0HCSP000001	DIODE	1	
	D5803	B0HCSP000001	DIODE	1	
	D5803	B0HFRJ000012	DIODE	1	
	D5804	B0ACCK000012	DIODE	1	
	D5896	B0EAMM000057	DIODE	1	
	D6001	B3AEA0000127	DIODE	1	
	D6002	B3AEA0000127	DIODE	1	
	D6003	B3AEA0000127	DIODE	1	
	D6004	B3AEA0000127	DIODE	1	
	D6005	B0EAMM000057	DIODE	1	
	D6006	B0JAME000114	DIODE	1	
	D6007	B0EAMM000057	DIODE	1	
	D6008	DZ2J24000L	DIODE	1	
	D6009	B0BC2R4A0006	DIODE	1	
	D6010	B0BC035A0007	DIODE	1	
	D6300	B3AAA0000487	DIODE	1	
	D6600	B3AEA0000172	DIODE	1	
	D6601	B3AEA0000172	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D6602	B3AEA0000172	DIODE	1	
	D6700	B3AEA0000172	DIODE	1	
	D6701	B3AEA0000172	DIODE	1	
	D6702	B3AEA0000172	DIODE	1	
	D6800	B3AAA0001129	DIODE	1	
	D8250	B0BC5R600003	DIODE	1	
	DZ2000	B0JCPD000025	DIODE	1	
⚠	DZ5701	ERZV05Z471CS	ZNR	1	
			VARISTORS		
	VA51	EZAEG2A50AX	VARISTOR	1	
	VA5700	J0LY00000168	FILTER	1	
	VA5701	J0LY00000168	FILTER	1	
			SWITCHES		
⚠	S5701	K0ABCA000007	SW AC VOLTAGE SELECTOR	1	
	S6000	EVQ21405RJ	SW RADIO/EXT-IN	1	
	S6001	EVQ21405RJ	SW STOP	1	
	S6002	EVQ21405RJ	SW POWER	1	
	S6003	EVQ21405RJ	SW MEMORY	1	
	S6004	EVQ21405RJ	SW PLAY/PAUSE	1	
	S6005	EVQ21405RJ	SW CD	1	
	S6006	EVQ21405RJ	SW USB	1	
	S6007	EVQ21405RJ	SW D.BASS	1	
	S6008	EVQ21405RJ	SW LATIN PRESET EQ	1	
	S6009	EVQ21405RJ	SW FORWARD	1	
	S6010	EVQ21405RJ	SW REWIND	1	
	S6011	EVQ21405RJ	SW SUPER WOOFER	1	
	S6012	EVQ21405RJ	SW MEMORY REC/ PAUSE	1	
	S6013	EVQ21405RJ	SW USB REC / PAUSE	1	
	S6014	EVQ21405RJ	SW ALBUM/TRACK	1	
	S6015	EVQ21405RJ	SW OPEN/CLOSE	1	
	S6016	EVQ21405RJ	SW MANUAL EQ	1	
	S7201	K0L1BA000158	SW RESET	1	
			CONNECTORS		
	CN2000	K1KA02BA0061	2P CONNECTOR	1	
	CN2001	K1KA02BA0061	2P CONNECTOR	1	
	CN2002	K1MY06AA0124	6P CONNECTOR	1	
	CN2003	K1MY27AA0267	27P CONNECTOR	1	
	CN2004	K1MY17AA0124	17P CONNECTOR	1	
	CN2005	K1KA02AA0186	2P CONNECTOR	1	
	CN2006	K1KA02AA0186	2P CONNECTOR	1	
	CN2007	K1YZ15000001	15P CONNECTOR	1	
	CN2008	K1KA02BA0061	2P CONNECTOR	1	
	CN2009	K1MY30AA0267	30P CONNECTOR	1	
	CN2010	K1KA02BA0061	2P CONNECTOR	1	
	CN2700	K1KA05AA0193	5P CONNECTOR	1	
	CN5050	K1MY17AA0124	17P CONNECTOR	1	
	CN5801	K1KA06AA0180	6P CONNECTOR	1	
	CN5802	K1KA15AA0194	15P CONNECTOR	1	
	CN6000	K1MY27AA0267	27P CONNECTOR	1	
	CN6001	K1KA04A00553	4P CONNECTOR	1	
	CN6004	K1KA02BA0061	2P CONNECTOR	1	
	CN6005	K1KA02BA0061	2P CONNECTOR	1	
	CN6006	K1KA02BA0125	2P CONNECTOR	1	
	CN6200	K1KB04B00043	4P CONNECTOR	1	
	CN6301	K1FY104A0034	USB CONNECTOR	1	
	CN7001	K1MY05BA0539	5P CONNECTOR	1	
	CN7002	K1MY10BA0539	10P CONNECTOR	1	
	FP8101	K1MY30BA0046	30P CONNECTOR	1	
	FP8201	K1MN24A00062	24P CONNECTOR	1	
	FP8251	K1MN10AA0076	10P CONNECTOR	1	
	FP9003	K1KA05AA0051	5P CONNECTOR	1	
			COILS AND INDUCTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L51	G1CR18JA0020	INDUCTOR	1	
	L52	G2A380Y00002	ANTENNA COIL	1	
	L2000	G0A330ZA0045	CHOKE COIL	1	
	L2001	G0A330ZA0045	CHOKE COIL	1	
	L2004	G1C100KA0101	INDUCTOR	1	
	L5000	G0A150L00003	CHOKE COIL	1	
	L5200	G0A150L00003	CHOKE COIL	1	
	L5300	G0A150L00003	CHOKE COIL	1	
	L5400	G0A150L00003	CHOKE COIL	1	
	L5500	J0JKB0000020	INDUCTOR	1	
	L5501	J0JKB0000020	INDUCTOR	1	
	L5600	J0JKB0000020	INDUCTOR	1	
	L5601	J0JKB0000020	INDUCTOR	1	
	L5700	G0A150L00003	CHOKE COIL	1	
⚠	L5701	G0B932H00002	LINE FILTER	1	
	L5704	J0JBC0000019	INDUCTOR	1	
	L5800	G0A150L00003	CHOKE COIL	1	
	L6000	J0JBC0000019	INDUCTOR	1	
	L6400	J0JBC0000019	INDUCTOR	1	
	L6401	J0JBC0000019	INDUCTOR	1	
	L6405	J0JBC0000019	INDUCTOR	1	
	L6500	J0JBC0000019	INDUCTOR	1	
	L8302	G1C100KA0101	INDUCTOR	1	
	LB51	J0JBC0000032	INDUCTOR	1	
	LB2006	J0JBC0000019	INDUCTOR	1	
	LB8002	J0JCC0000407	INDUCTOR	1	
	LB8003	J0JHC0000045	INDUCTOR	1	
	LB8004	J0JHC0000045	INDUCTOR	1	
	LB8005	J0JDC0000104	INDUCTOR	1	
	LB8006	J0JDC0000104	INDUCTOR	1	
	LB8007	J0JDC0000104	INDUCTOR	1	
	LB8008	J0JDC0000104	INDUCTOR	1	
	LB8009	J0JDC0000104	INDUCTOR	1	
	LB8010	J0JDC0000104	INDUCTOR	1	
	LB8011	J0JDC0000104	INDUCTOR	1	
	LB8013	J0JDC0000104	INDUCTOR	1	
	LB8014	J0JDC0000104	INDUCTOR	1	
	LB8015	J0JDC0000104	INDUCTOR	1	
	LB8052	J0JHC0000045	INDUCTOR	1	
	LB8201	J0JHC0000045	INDUCTOR	1	
	LB8202	J0JHC0000045	INDUCTOR	1	
	LB8251	J0JHC0000045	INDUCTOR	1	
	LB8252	J0JHC0000045	INDUCTOR	1	
	LB8301	J0JHC0000045	INDUCTOR	1	
	LB8401	J0JHC0000045	INDUCTOR	1	
	LB8402	J0JHC0000045	INDUCTOR	1	
	LB8501	J0JHC0000045	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	G4DYZ0000062	MAIN TRANSFORMER	1	
⚠	T5751	ETS19AB2E6AG	SUB TRANSFORMER	1	
⚠	T6000	G4DYA0000214	SWITCHING TRANS-FORMER	1	
			PHOTO COUPLERS		
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5702	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	1	
			TERMINALS		
	ZJ2000	K9ZZ00001279	EARTH PLATE	1	
			OSCILLATORS		
	X51	H0A327200181	CRYSTAL OSCILLA-TOR	1	
	X2000	H0A327200181	CRYSTAL OSCILLA-TOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	X2001	H2B800400007	CRYSTAL OSCILLATOR	1	
	X5500	H2A6023A0011	CRYSTAL OSCILLATOR	1	
	X5501	H2A7003A0011	CRYSTAL OSCILLATOR	1	
	X5601	H2A6023A0011	CRYSTAL OSCILLATOR	1	
	X5602	H2A7003A0011	CRYSTAL OSCILLATOR	1	
	X8101	H0J338300002	CRYSTAL OSCILLATOR	1	
			VARIABLE RESISTORS		
	VR6000	EVEKE2F3524B	VOLUME JOG	1	
	VR6001	K9AA012Y0004	VARIABLE RESISTOR	1	
	VR6500	EVUF2AF15B14	MIC JOG	1	
			REMOTE SENSOR		
	IR6200	B3RAB0000084	REMOTE SENSOR	1	
			FL DISPLAY		
	FL6000	A2BB00000184	LCD DISPLAY	1	
			FUSE		
⚠	F1	K5D802BNA005	FUSE	1	
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			THERMISTORS		
⚠	TH5860	D4CCY1040001	THERMISTOR	1	
⚠	TH5861	D4CCY1040001	THERMISTOR	1	
			TERMINAL		
	ZJ5400	K4CZ01000027	TERMINAL	1	
			JACKS		
	JK51	K4ZZ02000103	JK FM ANT	1	
	JK52	K4AC02B00042	JK AM ANT	1	
	JK2000	K2HA204B0153	JK AUX IN	1	
	JK5001	K4AL12B00007	JK SPEAKERS (SUBWOOFER/SURROUND)	1	
	JK5601	K4AZ08A00004	JK SPEAKERS (FRONT)	1	
	JK6401	K2HC103A0031	JK MUSIC PORT	1	
	JK6500	K2HC103A0031	JK MIC	1	
⚠	P5701	K2AA2B000011	AC INLET	1	
			CHIP JUMPERS		
	C2107	D0GBR00JA008	0 1/10W	1	
	C2108	D0GBR00JA008	0 1/10W	1	
	K1	D0GBR00JA008	0 1/10W	1	
	K5001	D0GDR00JA017	0 1/8W	1	
	K5202	D0GBR00JA008	0 1/10W	1	
	K5252	D0GBR00JA008	0 1/10W	1	
	K5302	D0GBR00JA008	0 1/10W	1	
	K5405	D0GDR00JA017	0 1/8W	1	
	K5500	D0GBR00JA008	0 1/10W	1	
	K5502	D0GBR00JA008	0 1/10W	1	
	K8002	ERJ2GE0R00X	0 1/16W	1	
	K8007	ERJ2GE0R00X	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	K8201	D0GBR00JA008	0 1/10W	1	
	K8202	D0GBR00JA008	0 1/10W	1	
	K8205	D0GBR00JA008	0 1/10W	1	
	L54	D0GBR00JA008	0 1/10W	1	
	L6502	D0GBR00JA008	0 1/10W	1	
	LB2000	D0GBR00JA008	0 1/10W	1	
	LB2001	D0GBR00JA008	0 1/10W	1	
	LB2002	D0GBR00JA008	0 1/10W	1	
	LB2003	D0GBR00JA008	0 1/10W	1	
	LB2004	D0GBR00JA008	0 1/10W	1	
	LB2005	D0GBR00JA008	0 1/10W	1	
	LB2007	D0GBR00JA008	0 1/10W	1	
	LB6500	D0GBR00JA008	0 1/10W	1	
	W1	D0GBR00JA008	0 1/10W	1	
	W2	D0GBR00JA008	0 1/10W	1	
	W3	D0GBR00JA008	0 1/10W	1	
	W4	D0GBR00JA008	0 1/10W	1	
	W5	D0GBR00JA008	0 1/10W	1	
	W6	D0GFR00JA017	0 1/4W	1	
	W7	D0GBR00JA008	0 1/10W	1	
	W8	D0GBR00JA008	0 1/10W	1	
	W9	D0GBR00JA008	0 1/10W	1	
	W10	D0GBR00JA008	0 1/10W	1	
	W11	D0GBR00JA008	0 1/10W	1	
	W14	D0GBR00JA008	0 1/10W	1	
	W15	D0GBR00JA008	0 1/10W	1	
	W16	D0GFR00JA017	0 1/4W	1	
	W17	D0GBR00JA008	0 1/10W	1	
	W18	D0GFR00JA017	0 1/4W	1	
	W19	D0GFR00JA017	0 1/4W	1	
	W22	D0GDR00JA017	0 1/8W	1	
	W23	D0GBR00JA008	0 1/10W	1	
	W24	D0GFR00JA017	0 1/4W	1	
	W25	D0GFR00JA017	0 1/4W	1	
	W26	D0GFR00JA017	0 1/4W	1	
	W27	D0GDR00JA017	0 1/8W	1	
	W28	D0GFR00JA017	0 1/4W	1	
	W29	D0GDR00JA017	0 1/8W	1	
	W30	D0GDR00JA017	0 1/8W	1	
	W31	D0GFR00JA017	0 1/4W	1	
	W32	D0GDR00JA017	0 1/8W	1	
	W33	D0GFR00JA017	0 1/4W	1	
	W34	D0GFR00JA017	0 1/4W	1	
	W35	D0GFR00JA017	0 1/4W	1	
	W36	D0GFR00JA017	0 1/4W	1	
	W37	D0GFR00JA017	0 1/4W	1	
	W38	D0GFR00JA017	0 1/4W	1	
	W39	D0GFR00JA017	0 1/4W	1	
	W40	D0GFR00JA017	0 1/4W	1	
	W41	D0GBR00JA008	0 1/10W	1	
	W42	D0GFR00JA017	0 1/4W	1	
	W43	D0GDR00JA017	0 1/8W	1	
	W44	D0GBR00JA008	0 1/10W	1	
	W45	D0GDR00JA017	0 1/8W	1	
	W46	D0GFR00JA017	0 1/4W	1	
	W47	D0GFR00JA017	0 1/4W	1	
	W48	D0GFR00JA017	0 1/4W	1	
	W49	D0GFR00JA017	0 1/4W	1	
	W50	D0GFR00JA017	0 1/4W	1	
	W51	D0GDR00JA017	0 1/8W	1	
	W52	D0GDR00JA017	0 1/8W	1	
	W53	D0GFR00JA017	0 1/4W	1	
	W54	D0GFR00JA017	0 1/4W	1	
	W55	D0GDR00JA017	0 1/8W	1	
	W56	D0GFR00JA017	0 1/4W	1	
	W57	D0GFR00JA017	0 1/4W	1	
	W58	D0GFR00JA017	0 1/4W	1	
	W59	D0GDR00JA017	0 1/8W	1	
	W60	D0GDR00JA017	0 1/8W	1	
	W61	D0GFR00JA017	0 1/4W	1	
	W62	D0GFR00JA017	0 1/4W	1	
	W63	D0GFR00JA017	0 1/4W	1	
	W64	D0GFR00JA017	0 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W65	D0GFR00JA017	0 1/4W	1	
	W66	D0GDR00JA017	0 1/8W	1	
	W67	D0GDR00JA017	0 1/8W	1	
	W68	D0GFR00JA017	0 1/4W	1	
	W69	D0GDR00JA017	0 1/8W	1	
	W70	D0GFR00JA017	0 1/4W	1	
	W71	D0GDR00JA017	0 1/8W	1	
	W72	D0GDR00JA017	0 1/8W	1	
	W73	D0GDR00JA017	0 1/8W	1	
	W201	D0GBR00JA008	0 1/10W	1	
	W202	D0GDR00JA017	0 1/8W	1	
	W401	D0GBR00JA008	0 1/10W	1	
	W403	D0GBR00JA008	0 1/10W	1	
	W5007	D0GDR00JA017	0 1/8W	1	
	W5032	D0GFR00JA017	0 1/4W	1	
	W5036	D0GBR00JA008	0 1/10W	1	
	W5059	D0GDR00JA017	0 1/8W	1	
	W5071	D0GBR00JA008	0 1/10W	1	
	W5780	D0GDR00JA017	0 1/8W	1	
	W5781	D0GBR00JA008	0 1/10W	1	
	W5782	D0GBR00JA008	0 1/10W	1	
	W5783	D0GBR00JA008	0 1/10W	1	
	W5784	D0GBR00JA008	0 1/10W	1	
	W5785	D0GBR00JA008	0 1/10W	1	
	W5786	D0GDR00JA017	0 1/8W	1	
	W5901	D0GDR00JA017	0 1/8W	1	
	W5902	D0GDR00JA017	0 1/8W	1	
	W5903	D0GBR00JA008	0 1/10W	1	
	W5904	D0GBR00JA008	0 1/10W	1	
			RESISTORS		
	R51	D0GB102JA008	1K 1/10W	1	
	R52	D0GB102JA008	1K 1/10W	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 1/10W	1	
	R61	D0GB473JA008	47K 1/10W	1	
	R62	D0GB473JA008	47K 1/10W	1	
	R64	D0GBR00JA008	0 1/10W	1	
	R2001	D0GB822JA008	8.2K 1/10W	1	
	R2002	D0GB822JA008	8.2K 1/10W	1	
	R2003	D0GB392JA008	3.9K 1/10W	1	
	R2004	D0GB392JA008	3.9K 1/10W	1	
	R2005	D0GB103JA008	10K 1/10W	1	
	R2006	D0GB103JA008	10K 1/10W	1	
	R2007	D0GB332JA008	3.3K 1/10W	1	
	R2008	D0GB332JA008	3.3K 1/10W	1	
	R2010	D0GBR00JA008	0 1/10W	1	
	R2011	D0GBR00JA008	0 1/10W	1	
	R2012	D0GB681JA008	680 1/10W	1	
	R2013	D0GBR00JA008	0 1/10W	1	
	R2014	D0GB103JA008	10K 1/10W	1	
	R2015	D0GB681JA008	680 1/10W	1	
	R2016	D0GB473JA008	47K 1/10W	1	
	R2017	D0GB332JA008	3.3K 1/10W	1	
	R2018	D0GB332JA008	3.3K 1/10W	1	
	R2019	D0GB683JA008	68K 1/10W	1	
	R2020	D0GBR00JA008	0 1/10W	1	
	R2021	D0GBR00JA008	0 1/10W	1	
	R2024	D0GB392JA008	3.9K 1/10W	1	
	R2025	D0GB392JA008	3.9K 1/10W	1	
	R2026	D0GB473JA008	47K 1/10W	1	
	R2027	D0GBR00JA008	0 1/10W	1	
	R2028	D0GB2R2JA007	2.2 1/10W	1	
	R2029	D0GB473JA008	47K 1/10W	1	
	R2030	D0GB473JA008	47K 1/10W	1	
	R2031	D0GB473JA008	47K 1/10W	1	
	R2032	D0GB473JA008	47K 1/10W	1	
	R2033	D0GB334JA008	330K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2035	D0GB271JA008	270 1/10W	1	
	R2036	D0GB823JA008	82K 1/10W	1	
	R2037	D0GB101JA008	100 1/10W	1	
	R2039	D0GB223JA008	22K 1/10W	1	
	R2040	D0GB473JA008	47K 1/10W	1	
	R2041	D0GB683JA008	68K 1/10W	1	
	R2042	D0GB102JA008	1K 1/10W	1	
	R2043	D0GB223JA008	22K 1/10W	1	
	R2044	D0GB223JA008	22K 1/10W	1	
	R2045	D0GB223JA008	22K 1/10W	1	
	R2046	D0GB104JA008	100K 1/10W	1	
	R2048	D0AF330JA039	33 1/2W	1	
	R2049	D0GB681JA008	680 1/10W	1	
	R2050	D0GB223JA008	22K 1/10W	1	
	R2051	D0GB681JA008	680 1/10W	1	
	R2052	D0GB681JA008	680 1/10W	1	
	R2053	D0GB223JA008	22K 1/10W	1	
	R2054	D0GBR00JA008	0 1/10W	1	
	R2056	D0GB681JA008	680 1/10W	1	
	R2057	D0GB681JA008	680 1/10W	1	
	R2058	D0GB102JA008	1K 1/10W	1	
	R2059	D0GB102JA008	1K 1/10W	1	
	R2060	D0GB682JA008	6.8K 1/10W	1	
	R2061	D0GB682JA008	6.8K 1/10W	1	
	R2062	D0GB154JA008	150K 1/10W	1	
	R2063	D0GB123JA008	12K 1/10W	1	
	R2064	D0GB153JA008	15K 1/10W	1	
	R2065	D0GB473JA008	47K 1/10W	1	
	R2066	D0GB473JA008	47K 1/10W	1	
	R2067	D0GB473JA008	47K 1/10W	1	
	R2068	D0GBR00JA008	0 1/10W	1	
	R2069	D0GB102JA008	1K 1/10W	1	
	R2070	D0GB473JA008	47K 1/10W	1	
	R2071	D0GB123JA008	12K 1/10W	1	
	R2072	D0GBR00JA008	0 1/10W	1	
	R2073	D0GB104JA008	100K 1/10W	1	
	R2074	D0GB473JA008	47K 1/10W	1	
	R2075	D0GB473JA008	47K 1/10W	1	
	R2076	D0GB102JA008	1K 1/10W	1	
	R2077	D0GB102JA008	1K 1/10W	1	
	R2078	D0GB563JA008	56K 1/10W	1	
	R2079	D0AF330JA039	33 1/2W	1	
	R2082	D0GB104JA008	100K 1/10W	1	
	R2083	D0GB473JA008	47K 1/10W	1	
	R2084	D0GB103JA008	10K 1/10W	1	
	R2087	D0GBR00JA008	0 1/10W	1	
	R2089	D0GB103JA008	10K 1/10W	1	
	R2091	D0GBR00JA008	0 1/10W	1	
	R2092	D0GBR00JA008	0 1/10W	1	
	R2093	D0GB392JA008	3.9K 1/10W	1	
	R2094	D0GB392JA008	3.9K 1/10W	1	
	R2095	D0GB473JA008	47K 1/10W	1	
	R2096	D0GB473JA008	47K 1/10W	1	
	R2097	D0GB152JA008	1.5K 1/10W	1	
	R2098	D0GB472JA008	4.7K 1/10W	1	
	R2099	D0GB103JA008	10K 1/10W	1	
	R2100	D0GB152JA008	1.5K 1/10W	1	
	R2101	D0GB101JA008	100 1/10W	1	
	R2102	D0GB472JA008	4.7K 1/10W	1	
	R2103	D0GB681JA008	680 1/10W	1	
	R2105	D0GB104JA008	100K 1/10W	1	
	R2107	D0AF220JA039	22 1/2W	1	
	R2108	D0GB473JA008	47K 1/10W	1	
	R2110	D0GB106JA008	10M 1/10W	1	
	R2111	D0GB473JA008	47K 1/10W	1	
	R2112	D0GB103JA008	10K 1/10W	1	
	R2113	D0GB103JA008	10K 1/10W	1	
	R2114	D0GB473JA008	47K 1/10W	1	
	R2115	D0GB473JA008	47K 1/10W	1	
	R2117	D0GB473JA008	47K 1/10W	1	
	R2118	D0GB473JA008	47K 1/10W	1	
	R2119	D0GB123JA008	12K 1/10W	1	
	R2120	D0GB473JA008	47K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R2121	D0GB475JA008	4.7M	1/10W	1	
	R2123	D0GB564JA008	560K	1/10W	1	
	R2124	D0GB223JA008	22K	1/10W	1	
	R2125	D0GB102JA008	1K	1/10W	1	
	R2126	D0GB473JA008	47K	1/10W	1	
	R2127	D0GBR00JA008	0	1/10W	1	
	R2128	D0GBR00JA008	0	1/10W	1	
	R2129	D0GBR00JA008	0	1/10W	1	
	R2130	D0GB102JA008	1K	1/10W	1	
	R2131	D0GB102JA008	1K	1/10W	1	
	R2132	D0GB102JA008	1K	1/10W	1	
	R2133	D0GBR00JA008	0	1/10W	1	
	R2134	D0GBR00JA008	0	1/10W	1	
	R2135	D0GB392JA008	3.9K	1/10W	1	
	R2136	D0GBR00JA008	0	1/10W	1	
	R2137	D0GB472JA008	4.7K	1/10W	1	
	R2138	D0GB472JA008	4.7K	1/10W	1	
	R2139	D0GB472JA008	4.7K	1/10W	1	
	R2140	D0GBR00JA008	0	1/10W	1	
	R2141	D0GB472JA008	4.7K	1/10W	1	
	R2145	D0GB153JA008	15K	1/10W	1	
	R2146	D0GB124JA008	120K	1/10W	1	
	R2147	D0GB153JA008	15K	1/10W	1	
	R2148	D0GB102JA008	1K	1/10W	1	
	R2149	D0GB471JA008	470	1/10W	1	
	R2150	D0GB124JA008	120K	1/10W	1	
	R2151	D0GB183JA008	18K	1/10W	1	
	R2152	D0GB153JA008	15K	1/10W	1	
	R2153	D0GB104JA008	100K	1/10W	1	
	R2154	D0GB153JA008	15K	1/10W	1	
	R2155	D0GB273JA008	27K	1/10W	1	
	R2156	D0GB105JA008	1M	1/10W	1	
	R2157	D0GBR00JA008	0	1/10W	1	
	R2161	D0GB273JA008	27K	1/10W	1	
	R2162	D0GBR00JA008	0	1/10W	1	
	R2163	D0GBR00JA008	0	1/10W	1	
	R2164	D0GBR00JA008	0	1/10W	1	
	R2165	D0GB102JA008	1K	1/10W	1	
	R2167	D0GB222JA008	2.2K	1/10W	1	
	R2168	D0GBR00JA008	0	1/10W	1	
	R2171	D0GB273JA008	27K	1/10W	1	
	R2173	D0GB153JA008	15K	1/10W	1	
	R2174	D0GB103JA008	10K	1/10W	1	
	R2176	D0HB152ZA002	1.5K	1/10W	1	
	R2177	D0GB153JA008	15K	1/10W	1	
	R2178	D0GB103JA008	10K	1/10W	1	
	R2179	D0GB123JA008	12K	1/10W	1	
	R2180	D0GB104JA008	100K	1/10W	1	
	R2182	D0GB103JA008	10K	1/10W	1	
	R2184	D0GB273JA008	27K	1/10W	1	
	R2185	D0GB103JA008	10K	1/10W	1	
	R2189	D0GB473JA008	47K	1/10W	1	
	R2192	D0HB102ZA002	1K	1/10W	1	
	R2193	D0GBR00JA008	0	1/10W	1	
	R2196	D0GB102JA008	1K	1/10W	1	
	R2198	D0GB102JA008	1K	1/10W	1	
	R2201	D0GB122JA008	1.2K	1/10W	1	
	R2202	D0GB122JA008	1.2K	1/10W	1	
	R2205	D0GB472JA008	4.7K	1/10W	1	
	R2206	D0GB472JA008	4.7K	1/10W	1	
	R2218	D0GBR00JA008	0	1/10W	1	
	R2224	D0GBR00JA008	0	1/10W	1	
	R2225	D0GBR00JA008	0	1/10W	1	
	R2226	D0GB473JA008	47K	1/10W	1	
	R2227	D0GB473JA008	47K	1/10W	1	
	R2229	D0GB103JA008	10K	1/10W	1	
	R2238	D0GB182JA008	1.8K	1/10W	1	
	R2239	D0GB182JA008	1.8K	1/10W	1	
	R2241	D0GB223JA008	22K	1/10W	1	
	R2242	D0GB223JA008	22K	1/10W	1	
	R2244	D0GB682JA008	6.8K	1/10W	1	
	R2245	D0GB682JA008	6.8K	1/10W	1	
	R2246	D0GB101JA008	100	1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R2247	D0GBR00JA008	0	1/10W	1	
	R2248	D0GB153JA008	15K	1/10W	1	
	R2250	D0GB183JA008	18K	1/10W	1	
	R2251	D0GB123JA008	12K	1/10W	1	
	R2254	D0GB105JA008	1M	1/10W	1	
	R2255	D0GB105JA008	1M	1/10W	1	
	R2256	D0GB223JA008	22K	1/10W	1	
	R2257	D0GB223JA008	22K	1/10W	1	
	R2258	D0GB153JA008	15K	1/10W	1	
	R2259	D0GB153JA008	15K	1/10W	1	
	R2264	D0GB103JA008	10K	1/10W	1	
	R2265	D0GB103JA008	10K	1/10W	1	
	R2266	D0GB682JA008	6.8K	1/10W	1	
	R2267	D0GB682JA008	6.8K	1/10W	1	
	R2268	D0GB272JA008	2.7K	1/10W	1	
	R2269	D0GB393JA008	39K	1/10W	1	
	R2270	D0GB393JA008	39K	1/10W	1	
	R2271	D0GB104JA008	100K	1/10W	1	
	R2272	D0GB272JA008	2.7K	1/10W	1	
	R2273	D0GB2R2JA007	2.2	1/10W	1	
	R2274	D0GB2R2JA007	2.2	1/10W	1	
	R2275	D0GB2R2JA007	2.2	1/10W	1	
	R2276	D0GB271JA008	270	1/10W	1	
	R2278	D0GB101JA008	100	1/10W	1	
	R2279	D0GBR00JA008	0	1/10W	1	
	R2281	D0GB682JA008	6.8K	1/10W	1	
	R2290	D0GB272JA008	2.7K	1/10W	1	
	R2291	D0GB272JA008	2.7K	1/10W	1	
	R2292	D0GB153JA008	15K	1/10W	1	
	R2293	D0GB153JA008	15K	1/10W	1	
	R2294	D0GB682JA008	6.8K	1/10W	1	
	R2295	D0GB682JA008	6.8K	1/10W	1	
	R2296	D0GBR00JA008	0	1/10W	1	
	R2305	D0GB562JA008	5.6K	1/10W	1	
	R2308	D0GB562JA008	5.6K	1/10W	1	
	R2310	D0GB224JA008	220K	1/10W	1	
	R2311	D0HB152ZA002	1.5K	1/10W	1	
	R2320	D0GB562JA008	5.6K	1/10W	1	
	R2321	D0GB562JA008	5.6K	1/10W	1	
	R2329	D0GB103JA008	10K	1/10W	1	
	R2332	D0GB103JA008	10K	1/10W	1	
	R2333	ERG2SJ471E	470	2W	1	
	R2334	ERG2SJ471E	470	2W	1	
	R2335	D0GB102JA008	1K	1/10W	1	
	R2336	ERG2SJ471E	470	2W	1	
	R2337	ERG2SJ471E	470	2W	1	
	R2338	ERG2SJ471E	470	2W	1	
	R2339	ERG2SJ471E	470	2W	1	
	R2340	ERG2SJ471E	470	2W	1	
	R2341	ERG2SJ471E	470	2W	1	
	R2343	D0GBR00JA008	0	1/10W	1	
	R2344	D0GB332JA008	3.3K	1/10W	1	
	R2345	D0GB332JA008	3.3K	1/10W	1	
	R2346	D0GB332JA008	3.3K	1/10W	1	
	R2347	D0GB332JA008	3.3K	1/10W	1	
	R2348	D0GB822JA008	8.2K	1/10W	1	
	R2349	D0GB104JA008	100K	1/10W	1	
	R2350	D0GB273JA008	27K	1/10W	1	
	R2353	D0GBR00JA008	0	1/10W	1	
	R2354	D0GBR00JA008	0	1/10W	1	
	R2355	D0GB153JA008	15K	1/10W	1	
	R2356	D0GB102JA008	1K	1/10W	1	
	R2357	D0GB475JA008	4.7M	1/10W	1	
	R2358	D0GB103JA008	10K	1/10W	1	
	R2359	D0GB102JA008	1K	1/10W	1	
	R2360	D0GB104JA008	100K	1/10W	1	
	R2361	D0GB103JA008	10K	1/10W	1	
	R2362	D0GB474JA008	470K	1/10W	1	
	R2363	D0GB333JA008	33K	1/10W	1	
	R2364	D0GB222JA008	2.2K	1/10W	1	
	R2365	D0GB102JA008	1K	1/10W	1	
	R2366	D0GB102JA008	1K	1/10W	1	
	R2372	D0GB102JA008	1K	1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2373	D0GB394JA008	390K 1/10W	1	
	R2374	D0GB102JA008	1K 1/10W	1	
	R2375	D0GB394JA008	390K 1/10W	1	
	R2376	D0GB102JA008	1K 1/10W	1	
	R2377	D0GB102JA008	1K 1/10W	1	
	R2378	D0GB101JA008	100 1/10W	1	
	R2379	D0GB681JA008	680 1/10W	1	
	R2380	D0GBR00JA008	0 1/10W	1	
	R2381	D0GB123JA008	12K 1/10W	1	
	R2382	D0AF270JA039	27 1/2W	1	
	R2383	D0GB823JA008	82K 1/10W	1	
	R2384	D0GB274JA007	270K 1/10W	1	
	R2385	D0GB474JA008	470K 1/10W	1	
	R2386	D0GB473JA008	47K 1/10W	1	
	R2387	D0GB682JA008	6.8K 1/10W	1	
	R2388	D0GB221JA007	220 1/10W	1	
	R2389	D0GB104JA008	100K 1/10W	1	
	R2390	D0GB823JA008	82K 1/10W	1	
	R2392	D0AF270JA039	27 1/2W	1	
	R2393	D0GB274JA008	270K 1/10W	1	
	R2394	D0GB221JA008	220 1/10W	1	
	R2395	D0GB104JA008	100K 1/10W	1	
	R2396	D0GB101JA008	100 1/10W	1	
	R2397	D0GB474JA008	470K 1/10W	1	
	R2398	D0GBR00JA008	0 1/10W	1	
	R2399	D0GBR00JA008	0 1/10W	1	
	R2400	D0GBR00JA008	0 1/10W	1	
	R2402	D0GB273JA008	27K 1/10W	1	
	R2404	D0GB223JA008	22K 1/10W	1	
	R2405	D0GB333JA008	33K 1/10W	1	
	R2406	D0GB473JA008	47K 1/10W	1	
	R2408	D0HB102ZA002	1K 1/10W	1	
	R2409	ERJ3RBD272V	2.7K 1/16W	1	
	R2410	D0GBR00JA008	0 1/10W	1	
	R2421	D0GB153JA008	15K 1/10W	1	
	R2422	D0GBR00JA008	0 1/10W	1	
	R2423	D0GBR00JA008	0 1/10W	1	
	R2424	ERJ3RBD682V	6.8K 1/16W	1	
	R2425	D0GB472JA008	4.7K 1/10W	1	
	R2426	D0GB683JA008	68K 1/10W	1	
	R2427	D0GB683JA008	68K 1/10W	1	
	R2429	D0GB105JA008	1M 1/10W	1	
	R2431	D0GFR00JA017	0 1/4W	1	
	R2432	D0GBR00JA008	0 1/10W	1	
	R2433	D0GBR00JA008	0 1/10W	1	
	R2434	D0GB682JA008	6.8K 1/10W	1	
	R2435	D0GB182JA008	1.8K 1/10W	1	
	R2436	D0GB223JA008	22K 1/10W	1	
	R2438	D0GB682JA008	6.8K 1/10W	1	
	R2439	D0GB223JA008	22K 1/10W	1	
	R2440	D0GB182JA008	1.8K 1/10W	1	
	R2442	D0GB473JA008	47K 1/10W	1	
	R2443	D0GB331JA008	330 1/10W	1	
	R5000	D0GB562JA008	5.6K 1/10W	1	
	R5001	D0GB562JA008	5.6K 1/10W	1	
	R5002	D0GB562JA008	5.6K 1/10W	1	
	R5003	D0GB562JA008	5.6K 1/10W	1	
	R5004	D0GF100JA014	10 1/4W	1	
	R5005	D0GF100JA014	10 1/4W	1	
	R5006	D0GZ220JA012	22 1W	1	
	R5007	D0GZ220JA012	22 1W	1	
	R5008	D0GB101JA008	100 1/10W	1	
	R5010	D0GF100JA014	10 1/4W	1	
	R5011	D0GF100JA014	10 1/4W	1	
	R5019	D0GB154JA008	150K 1/10W	1	
	R5020	D0GB104JA008	100K 1/10W	1	
	R5021	D0GB221JA007	220 1/10W	1	
	R5022	D0GB122JA008	1.2K 1/10W	1	
	R5030	D0GB562JA008	5.6K 1/10W	1	
	R5031	D0GB562JA008	5.6K 1/10W	1	
	R5032	D0GB562JA008	5.6K 1/10W	1	
	R5033	D0GB562JA008	5.6K 1/10W	1	
	R5034	D0GB562JA008	5.6K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5035	D0GB562JA008	5.6K 1/10W	1	
	R5036	D0GB562JA008	5.6K 1/10W	1	
	R5037	D0GB562JA008	5.6K 1/10W	1	
	R5103	D0GB562JA008	5.6K 1/10W	1	
	R5104	D0GB562JA008	5.6K 1/10W	1	
	R5110	D0GB822JA008	8.2K 1/10W	1	
	R5111	D0GB104JA008	100K 1/10W	1	
	R5113	D0GB154JA008	150K 1/10W	1	
	R5114	D0GB122JA008	1.2K 1/10W	1	
	R5115	D0GB122JA008	1.2K 1/10W	1	
	R5118	D0GB562JA008	5.6K 1/10W	1	
	R5119	D0GB562JA008	5.6K 1/10W	1	
	R5200	D0GF100JA014	10 1/4W	1	
	R5201	D0GF100JA014	10 1/4W	1	
	R5204	D0GB101JA008	100 1/10W	1	
	R5205	D0GB562JA008	5.6K 1/10W	1	
	R5206	D0GB562JA008	5.6K 1/10W	1	
	R5207	D0GB562JA008	5.6K 1/10W	1	
	R5208	D0GB562JA008	5.6K 1/10W	1	
	R5209	D0GZ220JA012	22 1W	1	
	R5210	D0GF100JA014	10 1/4W	1	
	R5211	D0GF100JA014	10 1/4W	1	
	R5217	D0GZ220JA012	22 1W	1	
	R5218	D0GB104JA008	100K 1/10W	1	
	R5228	D0GB124JA008	120K 1/10W	1	
	R5300	D0GZ220JA012	22 1W	1	
	R5302	D0GF100JA014	10 1/4W	1	
	R5304	D0GB101JA008	100 1/10W	1	
	R5305	D0GF100JA014	10 1/4W	1	
	R5306	D0GB562JA008	5.6K 1/10W	1	
	R5307	D0GB562JA008	5.6K 1/10W	1	
	R5308	D0GB562JA008	5.6K 1/10W	1	
	R5309	D0GB562JA008	5.6K 1/10W	1	
	R5310	D0GF100JA014	10 1/4W	1	
	R5311	D0GF100JA014	10 1/4W	1	
	R5317	D0GB122JA008	1.2K 1/10W	1	
	R5318	D0GB124JA008	120K 1/10W	1	
	R5319	D0GZ220JA012	22 1W	1	
	R5327	D0GB122JA008	1.2K 1/10W	1	
	R5328	D0GB104JA008	100K 1/10W	1	
	R5400	D0GZ220JA012	22 1W	1	
	R5402	D0GF100JA014	10 1/4W	1	
	R5404	D0GB101JA008	100 1/10W	1	
	R5405	D0GF100JA014	10 1/4W	1	
	R5410	D0GF100JA014	10 1/4W	1	
	R5411	D0GF100JA014	10 1/4W	1	
	R5419	D0GZ220JA012	22 1W	1	
	R5504	D0GB220JA008	22 1/10W	1	
	R5505	D0GB101JA008	100 1/10W	1	
	R5506	D0GB105JA008	1M 1/10W	1	
	R5507	D0GB105JA008	1M 1/10W	1	
	R5508	D0GB105JA008	1M 1/10W	1	
	R5510	ERG2SJ102E	1K 2W	1	
	R5512	D0GBR00JA008	0 1/10W	1	
	R5513	D0GB101JA008	100 1/10W	1	
	R5515	D0GBR00JA008	0 1/10W	1	
	R5601	D0GB220JA008	22 1/10W	1	
	R5602	D0GB103JA008	10K 1/10W	1	
	R5602	D0GB105JA008	1M 1/10W	1	
	R5603	D0GB103JA008	10K 1/10W	1	
	R5603	D0GB105JA008	1M 1/10W	1	
	R5604	D0GB122JA008	1.2K 1/10W	1	
	R5605	D0GBR00JA008	0 1/10W	1	
	R5606	D0GB105JA008	1M 1/10W	1	
	R5607	D0GB101JA008	100 1/10W	1	
	R5608	D0GB103JA008	10K 1/10W	1	
	R5608	D0GBR00JA008	0 1/10W	1	
	R5609	D0GB103JA008	10K 1/10W	1	
	R5609	ERG2SJ102E	1K 2W	1	
	R5610	D0GBR00JA008	0 1/10W	1	
	R5611	D0GB103JA008	10K 1/10W	1	
	R5611	D0GB122JA008	1.2K 1/10W	1	
	R5612	D0GB103JA008	10K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5613	D0GB103JA008	10K 1/10W	1	
	R5614	D0GB122JA008	1.2K 1/10W	1	
	R5615	D0GB122JA008	1.2K 1/10W	1	
	R5616	D0GB103JA008	10K 1/10W	1	
	R5617	D0GB822JA008	8.2K 1/10W	1	
	R5618	D0GB104JA008	100K 1/10W	1	
	R5619	D0GB154JA008	150K 1/10W	1	
	R5621	D0GB104JA008	100K 1/10W	1	
	R5622	D0GB154JA008	150K 1/10W	1	
	R5629	D0YRR0000001	0 31.5W	1	
	R5630	D0YRR0000001	0 31.5W	1	
	R5631	D0YRR0000001	0 31.5W	1	
	R5632	D0YRR0000001	0 31.5W	1	
	R5633	D0YRR0000001	0 31.5W	1	
	R5634	D0YRR0000001	0 31.5W	1	
	R5635	D0YRR0000001	0 31.5W	1	
	R5671	D0GBR00JA008	0 1/10W	1	
	R5700	D0GB562JA008	5.6K 1/10W	1	
	R5701	D0GB224JA008	220K 1/10W	1	
	R5701	D0GB562JA008	5.6K 1/10W	1	
	R5702	D0GF100JA014	10 1/4W	1	
	R5702	D0GZ204JA012	200K 1W	1	
	R5703	D0GF100JA014	10 1/4W	1	
	R5703	D0GZ204JA012	200K 1W	1	
	R5704	D0GF100JA014	10 1/4W	1	
	R5704	ERJ8GEYJ224V	220K 1/4W	1	
	R5705	D0GF100JA014	10 1/4W	1	
	R5705	ERJ8GEYJ224V	220K 1/4W	1	
	R5706	D0GB562JA008	5.6K 1/10W	1	
	R5706	D0GD824JA017	820K 1/8W	1	
	R5707	D0GB562JA008	5.6K 1/10W	1	
	R5708	D0GB101JA008	100 1/10W	1	
⚠	R5708	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5709	D0GZ220JA012	22 1W	1	
⚠	R5709	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5710	D0GB394JA008	390K 1/10W	1	
	R5710	D0GZ220JA012	22 1W	1	
	R5711	D0GB562JA008	5.6K 1/10W	1	
	R5711	D0GF100JA014	10 1/2W	1	
	R5712	D0GB562JA008	5.6K 1/10W	1	
	R5712	ERJ8GEYJ153V	15K 1/4W	1	
	R5713	ERJ8GEYJ331V	330 1/4W	1	
	R5714	ERX2SJR22P	22 2W	1	
	R5715	D0GZ204JA012	200K 1W	1	
	R5716	D0GZ204JA012	200K 1W	1	
	R5720	D0GD220JA017	22 1/8W	1	
	R5721	D0GD103JA017	10K 1/8W	1	
	R5722	D0GD122JA017	1.2K 1/8W	1	
	R5723	D0GB102JA008	1K 1/10W	1	
	R5724	D0GD121JA017	120 1/8W	1	
	R5726	ERX2SJR22P	0.22 2W	1	
	R5727	ERX2SZJR13P	0.13 2W	1	
	R5728	D0GB104JA008	100K 1/10W	1	
	R5729	D0GD103JA017	10K 1/8W	1	
	R5730	D0GB102JA008	1K 1/10W	1	
	R5732	D0GB101JA008	100 1/10W	1	
	R5733	D0GB473JA008	47K 1/10W	1	
	R5786	D0GZ204JA012	200K 1W	1	
	R5795	D0GD474JA017	470K 1/8W	1	
	R5797	D0GB153JA008	15K 1/10W	1	
	R5798	D0GB220JA008	22 1/10W	1	
	R5800	D0GB562JA008	5.6K 1/10W	1	
	R5800	D0GD153JA017	15K 1/8W	1	
	R5801	D0GB562JA008	5.6K 1/10W	1	
	R5801	D0GD223JA017	22K 1/8W	1	
	R5802	D0GF100JA014	10 1/2W	1	
	R5802	ERJ3RBD103V	10K 1/16W	1	
	R5803	D0GF100JA014	10 1/2W	1	
	R5803	ERJ3RBD103V	10K 1/16W	1	
	R5804	D0GF100JA014	10 1/2W	1	
	R5804	ERJ3RBD823V	82K 1/16W	1	
	R5805	D0GF100JA014	10 1/2W	1	
	R5805	ERJ3RBD332V	3.3K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5806	D0GB153JA008	15K 1/10W	1	
	R5806	D0GB562JA008	5.6K 1/10W	1	
	R5807	D0GB562JA008	5.6K 1/10W	1	
	R5807	D0GD331JA017	330 1/8W	1	
	R5808	D0GB101JA008	100 1/10W	1	
	R5808	D0GD222JA017	2.2K 1/8W	1	
	R5809	D0GD331JA017	330 1/8W	1	
	R5809	D0GZ220JA012	22 1W	1	
	R5810	D0GB331JA008	330 1/10W	1	
	R5810	D0GZ220JA012	22 1W	1	
	R5811	D0GB562JA008	5.6K 1/10W	1	
	R5812	D0GB562JA008	5.6K 1/10W	1	
	R5814	D0GB822JA008	8.2K 1/10W	1	
	R5817	D0GB331JA008	330 1/10W	1	
	R5832	D0GZ222JA012	2.2K 1W	1	
	R5833	D0GZ222JA012	2.2K 1W	1	
	R5834	D0GZ222JA012	2.2K 1W	1	
	R5835	D0GZ222JA012	2.2K 1W	1	
	R5836	D0GZ222JA012	2.2K 1W	1	
	R5837	D0GZ222JA012	2.2K 1W	1	
	R5840	D0GB823JA008	82K 1/10W	1	
	R5841	D0GB124JA008	120K 1/10W	1	
	R5860	ERJ3GEYF103V	10K 1/10W	1	
	R5861	ERJ3RBD182V	1.8K 1/16W	1	
	R5862	D0GD183JA017	18K 1/8W	1	
	R5863	D0GD183JA017	18K 1/8W	1	
	R5864	ERJ3GEYF103V	10K 1/10W	1	
	R5865	ERJ3RBD181V	180 1/16W	1	
	R5890	D0GB222JA008	2.2K 1/10W	1	
	R5891	ERJ3RBD333V	33K 1/16W	1	
	R5892	D0HB102ZA002	1K 1/10W	1	
	R5893	ERJ3RBD103V	10K 1/16W	1	
	R5894	D0GB151JA008	150 1/10W	1	
	R5895	D0GB153JA008	15K 1/10W	1	
	R5896	D0GB104JA008	100K 1/10W	1	
	R5897	D0GB101JA008	100 1/10W	1	
	R5898	ERJ3RBD103V	10K 1/16W	1	
	R6000	D0GB122JA008	1.2K 1/10W	1	
	R6001	D0GB152JA008	1.5K 1/10W	1	
	R6002	D0GB332JA008	3.3K 1/10W	1	
	R6003	D0GB222JA008	2.2K 1/10W	1	
	R6004	D0GB472JA008	4.7K 1/10W	1	
	R6005	D0GB682JA008	6.8K 1/10W	1	
	R6006	D0GB473JA008	47K 1/10W	1	
	R6007	D0GB331JA008	330 1/10W	1	
	R6008	D0GB101JA008	100 1/10W	1	
	R6009	D0GB821JA008	820 1/10W	1	
	R6010	D0GB470JA008	47 1/10W	1	
	R6011	D0GB222JA008	2.2K 1/10W	1	
	R6012	D0GB152JA008	1.5K 1/10W	1	
	R6013	D0GB153JA008	15K 1/10W	1	
	R6014	D0GB153JA008	15K 1/10W	1	
	R6015	D0GB682JA008	6.8K 1/10W	1	
	R6016	D0GB332JA008	3.3K 1/10W	1	
	R6017	D0GB472JA008	4.7K 1/10W	1	
	R6018	D0GB122JA008	1.2K 1/10W	1	
	R6019	D0GB272JA008	2.7K 1/10W	1	
	R6020	D0GB103JA008	10K 1/10W	1	
	R6021	D0GB271JA008	270 1/10W	1	
	R6022	D0GB271JA008	270 1/10W	1	
	R6023	D0GB271JA008	270 1/10W	1	
	R6024	D0GB103JA008	10K 1/10W	1	
	R6025	D0GB331JA008	330 1/10W	1	
	R6026	D0GB681JA008	680 1/10W	1	
	R6027	D0GB271JA008	270 1/10W	1	
	R6028	D0GB181JA008	180 1/10W	1	
	R6029	D0GB221JA007	220 1/10W	1	
	R6030	D0GB471JA008	470 1/10W	1	
	R6031	D0GB221JA007	220 1/10W	1	
	R6032	D0GB331JA008	330 1/10W	1	
	R6033	D0GB823JA008	82K 1/10W	1	
	R6034	D0GB331JA008	330 1/10W	1	
	R6035	D0GBR00JA008	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6037	D0GB331JA008	330 1/10W	1	
	R6038	D0GB562JA008	5.6K 1/10W	1	
	R6039	D0GB470JA008	47 1/10W	1	
	R6040	D0GB103JA008	10K 1/10W	1	
	R6041	D0GB103JA008	10K 1/10W	1	
	R6047	D0GB1R0JA008	1.0 1/10W	1	
	R6048	D0GB103JA008	10K 1/10W	1	
	R6049	D0GB473JA008	47K 1/10W	1	
	R6050	D0GB103JA008	10K 1/10W	1	
	R6051	D0GB1R0JA008	1.0 1/10W	1	
	R6053	D0GB100JA008	10 1/10W	1	
	R6054	D0GB223JA008	22K 1/10W	1	
	R6055	D0GB181JA008	180 1/10W	1	
	R6056	D0GB473JA008	47K 1/10W	1	
	R6057	D0GB221JA007	220 1/10W	1	
	R6500	D0GB101JA008	100 1/10W	1	
	R6501	D0GB682JA008	6.8K 1/10W	1	
	R6502	D0GB104JA008	100K 1/10W	1	
	R6503	D0GB472JA008	4.7K 1/10W	1	
	R6504	D0GB333JA008	33K 1/10W	1	
	R6505	D0GB331JA008	330 1/10W	1	
	R6506	D0GB561JA008	560 1/10W	1	
	R6507	D0GB681JA008	680 1/10W	1	
	R6600	D0GB151JA008	150 1/10W	1	
	R6601	D0GB151JA008	150 1/10W	1	
	R6602	D0GB151JA008	150 1/10W	1	
	R6700	D0GB151JA008	150 1/10W	1	
	R6701	D0GB151JA008	150 1/10W	1	
	R6702	D0GB151JA008	150 1/10W	1	
	R8001	ERJ2GE0R00X	0 1/16W	1	
	R8002	D0GB103JA008	10K 1/10W	1	
	R8003	D0GB102JA008	1K 1/10W	1	
	R8004	D0GB102JA008	1K 1/10W	1	
	R8005	D0GB105JA008	1M 1/10W	1	
	R8006	D0GB221JA008	220 1/10W	1	
	R8010	D0GA104JA023	100K 1/16W	1	
	R8011	D0GA104JA023	100K 1/16W	1	
	R8012	D0GBR00JA008	0 1/10W	1	
	R8013	D0GBR00JA008	0 1/10W	1	
	R8014	D0GBR00JA008	0 1/10W	1	
	R8015	D0GBR00JA008	0 1/10W	1	
	R8016	D0GBR00JA008	0 1/10W	1	
	R8017	D0GBR00JA008	0 1/10W	1	
	R8018	D0GA473JA023	47K 1/16W	1	
	R8019	D0GA473JA023	47K 1/16W	1	
	R8020	D0GA473JA023	47K 1/16W	1	
	R8021	D0GA330JA023	33 1/16W	1	
	R8022	D0GB100JA008	10 1/10W	1	
	R8025	ERJ2GE0R00X	0 1/16W	1	
	R8026	ERJ2GE0R00X	0 1/16W	1	
	R8027	D0GB100JA008	10 1/10W	1	
	R8029	D0GA330JA023	33 1/16W	1	
	R8030	D0GA104JA023	100K 1/16W	1	
	R8031	D0GA103JA023	10K 1/16W	1	
	R8032	D0GBR00JA008	0 1/10W	1	
	R8033	ERJ2GE0R00X	0 1/16W	1	
	R8034	ERJ2GE0R00X	0 1/16W	1	
	R8035	D0GBR00JA008	0 1/10W	1	
	R8036	D0GB101JA008	100 1/10W	1	
	R8037	D0GB101JA008	100 1/10W	1	
	R8038	D0GB101JA008	100 1/10W	1	
	R8039	D0GBR00JA008	0 1/10W	1	
	R8040	D0GB101JA008	100 1/10W	1	
	R8041	D0GA103JA023	10K 1/16W	1	
	R8042	D0GA103JA023	10K 1/16W	1	
	R8043	ERJ2GE0R00X	0 1/16W	1	
	R8044	ERJ2GE0R00X	0 1/16W	1	
	R8045	ERJ2GE0R00X	0 1/16W	1	
	R8046	D0GA103JA023	10K 1/16W	1	
	R8047	D0GA103JA023	10K 1/16W	1	
	R8201	D0GBR00JA008	0 1/10W	1	
	R8202	D0GBR00JA008	0 1/10W	1	
	R8203	D0GBR00JA008	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R8204	D0GBR00JA008	0 1/10W	1	
	R8205	D0GBR00JA008	0 1/10W	1	
	R8206	D0GBR00JA008	0 1/10W	1	
	R8209	D0GB225JA008	2.2M 1/10W	1	
	R8210	D0GB821JA008	820 1/10W	1	
	R8211	D0GB272JA008	2.7K 1/10W	1	
	R8212	D0GB4R7JA008	4.7 1/10W	1	
	R8214	D0GB103JA008	10K 1/10W	1	
	R8215	D0GB5R6JA008	5.6 1/10W	1	
	R8251	D0GA330JA023	33 1/16W	1	
	R8252	D0GB102JA008	1K 1/10W	1	
	R8254	D0GB562JA008	5.6K 1/10W	1	
	R8255	D0GB332JA008	3.3K 1/10W	1	
	R8256	D0GB101JA008	100 1/10W	1	
	R8257	D0GB562JA008	5.6K 1/10W	1	
	R8258	D0GB273JA008	27K 1/10W	1	
	R8259	D0GB472JA008	4.7K 1/10W	1	
	R8260	D0GB473JA008	47K 1/10W	1	
	R8261	D0GB101JA008	100 1/10W	1	
	R8262	D0GB100JA008	10 1/10W	1	
	R8263	D0GB102JA008	1K 1/10W	1	
	R8264	D0GB122JA008	1.2K 1/10W	1	
	R8265	D0GB104JA008	100K 1/10W	1	
	R8301	D0GBR00JA008	0 1/10W	1	
	R8302	D0GBR00JA008	0 1/10W	1	
	R8501	ERJ2GE0R00X	0 1/16W	1	
	R8502	D0GA473JA023	47K 1/16W	1	
	R8503	D0GA473JA023	47K 1/16W	1	
	R8504	D0GA473JA023	47K 1/16W	1	
	R8505	D0GA473JA023	47K 1/16W	1	
	R8506	D0GA473JA023	47K 1/16W	1	
	R8507	D0GA473JA023	47K 1/16W	1	
	R9001	ERJ2RKD300X	30 1/16W	1	
	R9002	ERJ2RKD300X	30 1/16W	1	
	R9003	D0GA153JA023	15K 1/16W	1	
	R9004	D0GA153JA023	15K 1/16W	1	
	R9005	D0GA103JA023	10K 1/16W	1	
			CAPACITORS		
	C51	F1H1H102A219	1000pF 50V	1	
	C52	F1H1A474A107	0.47uF 10V	1	
	C57	F1H1H120A230	12pF 50V	1	
	C58	F1H1H120A230	12pF 50V	1	
	C59	F1H1A105A025	1uF 10V	1	
	C60	F1H1A105A025	1uF 10V	1	
	C61	F1G1C104A077	0.1uF 16V	1	
	C62	F1G1C104A077	0.1uF 16V	1	
	C63	F1H0J105A051	1uF 6.3V	1	
	C2000	F1H1H103A219	0.01uF 50V	1	
	C2003	F1H1H103A219	0.01uF 50V	1	
	C2004	F1H1H103A219	0.01uF 50V	1	
	C2005	F1H1H102A219	1000pF 50V	1	
	C2007	F1H1H103A219	0.01uF 50V	1	
	C2008	F1J1A106A043	10uF 10V	1	
	C2009	F1H1H103A219	0.01uF 50V	1	
	C2010	F1H1A474A107	0.47uF 10V	1	
	C2012	D0GBR00JA008	0 1/10W	1	
	C2013	F1H1H104B047	0.1uF 50V	1	
	C2015	F1H1H2210001	220pF 50V	1	
	C2016	F1H1H2210001	220pF 50V	1	
	C2017	F1H1A684A025	0.68uF 10V	1	
	C2018	F1H1A684A025	0.68uF 10V	1	
	C2020	F1J1A106A043	10uF 10V	1	
	C2021	F1J1A106A043	10uF 10V	1	
	C2022	F1H1H102A219	1000pF 50V	1	
	C2023	F1H1H102A219	1000pF 50V	1	
	C2024	F1H1H102A219	1000pF 50V	1	
	C2026	F1H1H102A219	1000pF 50V	1	
	C2027	F2A1C100A207	10uF 16V	1	
	C2028	F1H0J105A051	1uF 6.3V	1	
	C2029	F1H0J105A051	1uF 6.3V	1	
	C2030	F1J1A106A043	10uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	C2031	F1H0J105A051	1uF	6.3V	1	
	C2032	F1H0J105A051	1uF	6.3V	1	
	C2033	F1H0J105A051	1uF	6.3V	1	
	C2034	F1H0J105A051	1uF	6.3V	1	
	C2036	D0GBR00JA008	0	1/10W	1	
	C2037	F1H1H473A783	0.047uF	50V	1	
	C2038	F2A1C100A207	10uF	16V	1	
	C2039	F2A1C100A207	10uF	16V	1	
	C2040	F1J1A106A043	10uF	10V	1	
	C2041	F2A0J101B034	100uF	6.3V	1	
	C2042	F1J1A106A043	10uF	10V	1	
	C2043	F1H1H102A219	1000pF	50V	1	
	C2044	D0GBR00JA008	0	1/10W	1	
	C2045	D0GBR00JA008	0	1/10W	1	
	C2046	F1H1H102A219	1000pF	50V	1	
	C2047	F2A1H1R0A213	1.0uF	50V	1	
	C2048	F2A1H1R0A213	1.0uF	50V	1	
	C2049	F1H1H101B052	100pF	50V	1	
	C2050	F1H1H101B052	100pF	50V	1	
	C2051	F1H1H103A219	0.01uF	50V	1	
	C2052	F1H0J105A051	1uF	6.3V	1	
	C2053	F1H1H102A219	1000pF	50V	1	
	C2054	F1H1H102A219	1000pF	50V	1	
	C2055	F1H1H470A004	47pF	50V	1	
	C2056	F2A1A330B138	33uF	10V	1	
	C2057	F2A1H4R7A213	4.7uF	50V	1	
	C2059	F1H1H470A004	47pF	50V	1	
	C2060	F1H1H101B052	100pF	50V	1	
	C2061	F2A1H1R0A213	1.0uF	50V	1	
	C2062	F1H1A224A061	0.22uF	10V	1	
	C2063	F1H1A225A051	2.2uF	10V	1	
	C2064	F1H1H101B052	100pF	50V	1	
	C2066	F2A1H1R0A213	1.0uF	50V	1	
	C2067	F1H0J105A051	1uF	6.3V	1	
	C2068	F1H0J105A051	1uF	6.3V	1	
	C2069	F2A1A330B138	33uF	10V	1	
	C2070	F1H1A474A107	0.47uF	10V	1	
	C2071	F1H1A474A107	0.47uF	10V	1	
	C2072	F1H1H222A219	2200pF	50V	1	
	C2073	F1H1H222A219	2200pF	50V	1	
	C2074	F1H1H104B047	0.1uF	50V	1	
	C2075	F1H1H104B047	0.1uF	50V	1	
	C2076	F1H1H104B047	0.1uF	50V	1	
	C2077	F1H1H104B047	0.1uF	50V	1	
	C2078	F1H1H473A783	0.047uF	50V	1	
	C2079	F1H1H473A783	0.047uF	50V	1	
	C2080	F1H1A334A028	0.33uF	10V	1	
	C2081	F1H1A334A028	0.33uF	10V	1	
	C2082	F1H1H332A013	3300pF	50V	1	
	C2083	F1H1H223A219	0.022uF	50V	1	
	C2084	F1H1C823A001	0.082uF	16V	1	
	C2085	F2A1H3R3A213	3.3uF	50V	1	
	C2086	F2A1H3R3A213	3.3uF	50V	1	
	C2087	F1H0J4750004	4.7uF	6.3V	1	
	C2088	F1H1C823A001	0.082uF	16V	1	
	C2089	F2A1H3R3A213	3.3uF	50V	1	
	C2090	F2A1H1R0A213	1.0uF	50V	1	
	C2092	F1H1C683A087	0.068uF	16V	1	
	C2093	F2A1C102A019	1000uF	16V	1	
	C2094	F1H1C104A042	0.1uF	16V	1	
	C2095	F1H1C104A042	0.1uF	16V	1	
	C2096	F1H1H152A219	1500pF	50V	1	
	C2099	F1H1H103A219	0.01uF	50V	1	
	C2102	F1H1C104A042	0.1uF	16V	1	
	C2109	F2A1H1R0A213	1.0uF	50V	1	
	C2110	F2A1E2210093	220uF	25V	1	
	C2111	F1H1H103A219	0.01uF	50V	1	
	C2112	F1H1H470A004	47pF	50V	1	
	C2113	F1H1H101B052	100pF	50V	1	
	C2114	F2A1C221B456	220uF	16V	1	
	C2115	F1J1A106A043	10uF	10V	1	
	C2116	F1J1A106A043	10uF	10V	1	
	C2117	F1J1A106A043	10uF	10V	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	C2118	F1H1A394A036	0.39uF	10V	1	
	C2119	F2A0J221B034	220uF	6.3V	1	
	C2121	F1H1H680A230	68pF	50V	1	
	C2122	F1J1A106A043	10uF	10V	1	
	C2123	F1H1H180A230	18pF	50V	1	
	C2124	F1J1A106A043	10uF	10V	1	
	C2125	F1H0J105A051	1uF	6.3V	1	
	C2126	F1H1H680A230	68pF	50V	1	
	C2127	F1H1H471A219	470pF	50V	1	
	C2128	F1H1H562A219	5600pF	50V	1	
	C2129	F1H1H180A230	18pF	50V	1	
	C2130	F1J1H104A459	0.1uF	50V	1	
	C2131	F1H1H103A219	0.01uF	50V	1	
	C2132	F2A1A330B138	33uF	10V	1	
	C2133	F1H1H471A219	470pF	50V	1	
	C2134	F1H0J4750004	4.7uF	6.3V	1	
	C2135	F1H0J4750004	4.7uF	6.3V	1	
	C2136	F1H0J105A051	1uF	6.3V	1	
	C2137	F1H1C104A042	0.1uF	16V	1	
	C2139	F2A0J221B034	220uF	6.3V	1	
	C2141	F1H1C104A042	0.1uF	16V	1	
	C2143	F1H1C104A042	0.1uF	16V	1	
	C2144	F1H0J105A051	1uF	6.3V	1	
	C2148	F1H1H223A219	0.022uF	50V	1	
	C2150	F2A1H3R3A213	3.3uF	50V	1	
	C2153	F1J1A106A043	10uF	10V	1	
	C2163	F1H1H331A013	330pF	50V	1	
	C2165	F1H1C683A087	0.068uF	16V	1	
	C2166	F1H1C683A087	0.068uF	16V	1	
	C2167	F1H1A474A107	0.47uF	10V	1	
	C2168	F1H1A184A107	0.18uF	10V	1	
	C2169	F1H1A184A107	0.18uF	10V	1	
	C2171	F2A1C102A019	1000uF	16V	1	
	C2173	F2A0J2220055	2200uF	6.3V	1	
	C2179	F1J1A106A043	10uF	10V	1	
	C2180	F1J1A106A043	10uF	10V	1	
	C2181	F1H1A474A025	0.47uF	10V	1	
	C2182	F1H1A474A025	0.47uF	10V	1	
	C2183	F1H1H682A219	6800pF	50V	1	
	C2184	F1H1H682A219	6800pF	50V	1	
	C2185	F1J1A106A043	10uF	10V	1	
	C2186	F1J1A106A043	10uF	10V	1	
	C2187	F1H1H103A219	0.01uF	50V	1	
	C2188	F2A1A330B138	33uF	10V	1	
	C2189	F1H1C104A042	0.1uF	16V	1	
	C2190	F2A1C221B456	220uF	16V	1	
	C2191	F1H1H103A219	0.01uF	50V	1	
	C2192	F1H0J105A051	1uF	6.3V	1	
	C2193	F1H0J105A051	1uF	6.3V	1	
	C2194	F1H1H103A219	0.01uF	50V	1	
	C2196	F2A0J101A181	100uF	6.3V	1	
	C2198	F2A1C102A019	1000uF	16V	1	
	C2199	F1H1A225A051	2.2uF	10V	1	
	C2200	F2A1E2210093	220uF	25V	1	
	C2201	F1H1H103A219	0.01uF	50V	1	
	C2202	D0GBR00JA008	0	1/10W	1	
	C2204	F1H1C823A001	0.082uF	16V	1	
	C2205	F1H1C823A001	0.082uF	16V	1	
	C2212	D0GBR00JA008	0	1/10W	1	
	C2213	D0GBR00JA008	0	1/10W	1	
	C2226	F2A0J821B044	820uF	6.3V	1	
	C2234	F2A1E102B396	1000uF	25V	1	
	C2238	F1H0J2250008	2.2uF	6.3V	1	
	C2239	F1H1C104A042	0.1uF	16V	1	
	C2241	F1H1C104A042	0.1uF	16V	1	
	C2242	F1J1E1040003	0.1uF	25V	1	
	C2243	F1H1C104A042	0.1uF	16V	1	
	C2244	F1H0J105A051	1uF	6.3V	1	
	C2245	F1H0J105A051	1uF	6.3V	1	
	C2246	F1H1C104A042	0.1uF	16V	1	
	C2247	F1H1C104A042	0.1uF	16V	1	
	C2248	F1H0J105A051	1uF	6.3V	1	
	C2249	F2A1A330B138	33uF	10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2251	F1J1A106A043	10uF 10V	1	
	C2252	F2A0J101A181	100uF 6.3V	1	
	C2253	F2A0J221B034	220uF 6.3V	1	
	C2254	F1H0J105A051	1uF 6.3V	1	
	C2255	F1H0J105A051	1uF 6.3V	1	
	C2256	F2A0J221B034	220uF 6.3V	1	
	C2257	F1H1H103A219	0.01uF 50V	1	
	C2258	F1H1H103A219	0.01uF 50V	1	
	C2277	F1J1A106A043	10uF 10V	1	
	C2278	F1H1H103A219	0.01uF 50V	1	
	C2279	F1H1A184A107	0.18uF 10V	1	
	C2280	F1H1C683A087	0.068uF 16V	1	
	C2281	F1H1A184A107	0.18uF 10V	1	
	C2282	F1H1C683A087	0.068uF 16V	1	
	C5000	F1H1H102A219	1000pF 50V	1	
	C5001	F1H1H102A219	1000pF 50V	1	
	C5002	F1H1A474A107	0.47uF 10V	1	
	C5003	F1H1A474A107	0.47uF 10V	1	
	C5004	F1H1A474A107	0.47uF 10V	1	
	C5005	F1H1A474A107	0.47uF 10V	1	
	C5006	F1H1H331A004	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	ECQV1H474JL3	0.47uF 50V	1	
	C5015	ECQV1H474JL3	0.47uF 50V	1	
	C5016	F1H1H104B047	0.1uF 50V	1	
	C5017	F1H1H104B047	0.1uF 50V	1	
	C5018	F1K2A1040007	0.1uF 100V	1	
	C5019	F1H1H104B047	0.1uF 50V	1	
	C5020	F1H1H104B047	0.1uF 50V	1	
	C5021	F1H1H104B047	0.1uF 50V	1	
	C5022	F1H1H104B047	0.1uF 50V	1	
	C5023	F1K2A1040007	0.1uF 100V	1	
	C5024	F1H1H104B047	0.1uF 50V	1	
	C5025	F1H1H104B047	0.1uF 50V	1	
	C5027	F1H1H104B047	0.1uF 50V	1	
	C5028	F1H1H104B047	0.1uF 50V	1	
	C5030	F1H1H330A230	33pF 50V	1	
	C5031	F1H1A474A107	0.47uF 10V	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	F1H1H104B047	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	F1H1H104B047	0.1uF 50V	1	
	C5207	F1K2A1040007	0.1uF 100V	1	
	C5208	F1H1H104B047	0.1uF 50V	1	
	C5209	F1H1H104B047	0.1uF 50V	1	
	C5211	F1J2A221A030	220pF 100V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5212	F1H1H330A230	33pF 50V	1	
	C5213	F1H1H104B047	0.1uF 50V	1	
	C5214	F1H1H104B047	0.1uF 50V	1	
	C5216	F1H1H331A013	330pF 50V	1	
	C5217	F1H1H104B047	0.1uF 50V	1	
	C5218	F1J2A221A030	220pF 100V	1	
	C5219	F1K2A1040007	0.1uF 100V	1	
	C5220	F1H1H104B047	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	ECQV1H474JL3	0.47uF 50V	1	
	C5226	F1H1H104B047	0.1uF 50V	1	
	C5227	F1H1H104B047	0.1uF 50V	1	
	C5228	ECQV1H474JL3	0.47uF 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	
	C5300	ECQV1H684JL3	0.68uF 50V	1	
	C5301	F1H1H104B047	0.1uF 50V	1	
	C5302	F1H1H104B047	0.1uF 50V	1	
	C5303	F1H1H104B047	0.1uF 50V	1	
	C5304	F1H1H331A013	330pF 50V	1	
	C5305	F1H1H104B047	0.1uF 50V	1	
	C5306	F1H1H104B047	0.1uF 50V	1	
	C5307	F1J2A221A030	220pF 100V	1	
	C5309	F1H1H104B047	0.1uF 50V	1	
	C5310	F1K2A1040007	0.1uF 100V	1	
	C5311	F1J2A221A030	220pF 100V	1	
	C5312	F1H1H331A013	330pF 50V	1	
	C5313	F1H1H104B047	0.1uF 50V	1	
	C5314	F1H1A474A001	0.47uF 10V	1	
	C5315	F1H1H102A219	1000pF 50V	1	
	C5316	F1H1H104B047	0.1uF 50V	1	
	C5317	F1H1A474A001	0.47uF 10V	1	
	C5318	F1H1H104B047	0.1uF 50V	1	
	C5319	F1K2A1040007	0.1uF 100V	1	
	C5321	F1H1C474A140	0.47uF 16V	1	
	C5322	F1H1H153A219	0.015uF 50V	1	
	C5323	F1H1H330A230	33pF 50V	1	
	C5324	F1H1H153A219	0.015uF 50V	1	
	C5325	F1J2A221A030	220pF 100V	1	
	C5326	F1J2A221A030	220pF 100V	1	
	C5327	F1H1H104B047	0.1uF 50V	1	
	C5328	ECQV1H684JL3	0.68uF 50V	1	
	C5331	F1H1H102A219	1000pF 50V	1	
	C5332	F1H1A474A001	0.47uF 10V	1	
	C5333	F1H1H102A219	1000pF 50V	1	
	C5334	F1H1A474A001	0.47uF 10V	1	
	C5350	F1H1H102A219	1000pF 50V	1	
	C5351	F1H1H102A219	1000pF 50V	1	
	C5400	ECQV1H474JL3	0.47uF 50V	1	
	C5401	F1H1H104B047	0.1uF 50V	1	
	C5402	F1H1H104B047	0.1uF 50V	1	
	C5403	F1H1H104B047	0.1uF 50V	1	
	C5404	F1H1H331A013	330pF 50V	1	
	C5405	F1H1H104B047	0.1uF 50V	1	
	C5406	F1H1H104B047	0.1uF 50V	1	
	C5407	F1J2A221A030	220pF 100V	1	
	C5409	F1H1H104B047	0.1uF 50V	1	
	C5410	F1K2A1040007	0.1uF 100V	1	
	C5411	F1J2A221A030	220pF 100V	1	
	C5412	F1H1H331A013	330pF 50V	1	
	C5413	F1H1H104B047	0.1uF 50V	1	
	C5416	F1H1H104B047	0.1uF 50V	1	
	C5418	F1H1H104B047	0.1uF 50V	1	
	C5419	F1K2A1040007	0.1uF 100V	1	
	C5421	F1H1C474A140	0.47uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	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	F1H1H104B047	0.1uF	50V	1	
	C5428	ECQV1H474JL3	0.47uF	50V	1	
	C5431	F1H1H102A219	1000pF	50V	1	
	C5440	F2A2A220A388	22uF	100V	1	
	C5445	F1H1H104B047	0.1uF	50V	1	
	C5450	F1H1H104B047	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	F1H1H104B047	0.1uF	50V	1	
	C5515	F1H1H104B047	0.1uF	50V	1	
	C5516	F2A1H221B436	220uF	50V	1	
	C5517	F2A1H221B436	220uF	50V	1	
	C5518	F1H1H104B047	0.1uF	50V	1	
	C5519	F1H1H104B047	0.1uF	50V	1	
	C5520	F1H1H104B047	0.1uF	50V	1	
	C5521	F1H1H104B047	0.1uF	50V	1	
	C5522	F1H1H104B047	0.1uF	50V	1	
	C5523	F1H1H104B047	0.1uF	50V	1	
	C5524	F1H1H104B047	0.1uF	50V	1	
	C5525	F1H1H104B047	0.1uF	50V	1	
	C5540	F2A2A220A388	22uF	100V	1	
	C5550	F1H1H103A219	0.01uF	50V	1	
	C5551	F1H1H391A013	390pF	50V	1	
	C5552	F1H1H391A013	390pF	50V	1	
	C5553	F1H1H101B052	100pF	50V	1	
	C5554	F1H1H104B047	0.1uF	50V	1	
	C5555	F1K1C1060001	10uF	16V	1	
	C5556	F1H1H103A219	0.01uF	50V	1	
	C5557	F1H1H101B052	100pF	50V	1	
	C5558	F1H1H470A004	47pF	50V	1	
	C5559	F1H1H470A004	47pF	50V	1	
	C5600	F1H1H103A219	0.01uF	50V	1	
	C5601	F1H1H103A219	0.01uF	50V	1	
	C5601	F2A1C100A207	10uF	16V	1	
	C5602	F1H1H101B052	100pF	50V	1	
	C5603	F1H1H391A013	390pF	50V	1	
	C5604	F1H1H101B052	100pF	50V	1	
	C5605	F1H1H391A013	390pF	50V	1	
	C5606	F1H1H102A219	1000pF	50V	1	
	C5607	F1H1H102A219	1000pF	50V	1	
	C5610	F1H1H104B047	0.1uF	50V	1	
	C5611	F1H1H104B047	0.1uF	50V	1	
	C5612	F1H1H102A219	1000pF	50V	1	
	C5613	F1H1H102A219	1000pF	50V	1	
	C5614	F1H1H470A004	47pF	50V	1	
	C5615	F1H1H470A004	47pF	50V	1	
	C5616	F1H1H104B047	0.1uF	50V	1	
	C5617	F1H1H104B047	0.1uF	50V	1	
	C5623	F1K1C1060001	10uF	16V	1	
	C5624	F1H1H104B047	0.1uF	50V	1	
	C5626	F2A0J101A245	100uF	6.3V	1	
⚠	C5700	F1BAF471A013	470pF		1	
	C5700	F1H1H102A219	1000pF	50V	1	
⚠	C5701	F0CAF224A105	0.22uF		1	
	C5701	F1H1A474A107	0.47uF	10V	1	
	C5702	F1H1A474A107	0.47uF	10V	1	
	C5702	F1H1H102A219	1000pF	50V	1	
	C5703	F2A1H221B436	220uF	50V	1	
⚠	C5704	F1BAF471A013	470pF		1	
	C5704	F2A1H221B436	220uF	50V	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
⚠	C5705	F1BAF471A013	470pF		1	
	C5705	F1H1H104B047	0.1uF	50V	1	
	C5706	F1H1H104B047	0.1uF	50V	1	
	C5707	F1H1H331A013	330pF	50V	1	
⚠	C5708	F1BAF1020020	1000pF		1	
	C5709	F1H1H104B047	0.1uF	50V	1	
	C5711	F1H1H104B047	0.1uF	50V	1	
	C5711	F2A2E8210001	820uF	250V	1	
	C5712	F1H1H330A230	33pF	50V	1	
	C5712	F2A2E8210001	820uF	250V	1	
	C5713	F0C2J1030007	0.01uF	630V	1	
	C5713	F1K2A1040007	0.1uF	100V	1	
	C5714	F1H1H104B047	0.1uF	50V	1	
	C5715	F1J2A221A030	220pF	100V	1	
	C5716	F1J2A221A030	220pF	100V	1	
	C5717	F1H1H153A219	0.015uF	50V	1	
	C5718	F1H1H104B047	0.1uF	50V	1	
	C5719	F1H1A474A107	0.47uF	10V	1	
	C5720	F1H1H101B052	100pF	50V	1	
	C5720	F1H1H104B047	0.1uF	50V	1	
	C5721	F1H1H153A219	0.015uF	50V	1	
	C5721	F1H1H2210001	220pF	50V	1	
	C5722	F1H1H102A219	1000pF	50V	1	
	C5722	F1J2A221A030	220pF	100V	1	
	C5723	F1H1H471A219	470pF	50V	1	
	C5723	F1J2A221A030	220pF	100V	1	
	C5724	F1H1H104B047	0.1uF	50V	1	
	C5724	F2A1H5600009	56uF	50V	1	
	C5725	F1H1H104B047	0.1uF	50V	1	
	C5725	F1K2A1040007	0.1uF	100V	1	
	C5726	F1H1H104B047	0.1uF	50V	2	
	C5727	F1H1H104B047	0.1uF	50V	1	
	C5728	F1H1H102A219	1000pF	50V	1	
	C5729	F1H1A474A107	0.47uF	10V	1	
	C5730	F1H1E105A153	1uF	25V	1	
	C5730	F1H1H331A013	330pF	50V	1	
	C5731	F1H1H102A219	1000pF	50V	1	
	C5732	F1H1A474A107	0.47uF	10V	1	
	C5733	F1H1H102A219	1000pF	50V	1	
	C5734	ECQV1H474JL3	0.47uF	50V	1	
	C5735	ECQV1H474JL3	0.47uF	50V	1	
	C5736	F1H1H104B047	0.1uF	50V	1	
	C5737	F1A3A222A065	2200pF	1000V	1	
	C5737	F1H1H104B047	0.1uF	50V	1	
	C5738	F1H1H103A219	0.01uF	50V	1	
	C5740	F1H1H103A219	0.01uF	50V	1	
	C5790	F1K2J2220002	2200pF	630V	1	
	C5794	F1H1H102A219	1000pF	50V	1	
	C5795	F1K1H105A251	1uF	50V	1	
	C5796	F1H1H104B047	0.1uF	50V	1	
	C5798	F2A1E221B422	220uF	25V	1	
	C5800	F1H1H102A219	1000pF	50V	1	
	C5800	F1J2E1030004	0.01uF	250V	1	
	C5801	F1H1A474A107	0.47uF	10V	1	
	C5802	F1H1A474A107	0.47uF	10V	1	
	C5803	F1H1H331A013	330pF	50V	1	
	C5804	F2A2A220A388	22uF	100V	1	
	C5805	F1H1H104B047	0.1uF	50V	1	
	C5805	F2A1H2220043	2200uF	50V	1	
	C5807	F1H1H104B047	0.1uF	50V	1	
	C5808	F1H1H330A230	33pF	50V	1	
	C5808	F2A1H2220043	2200uF	50V	1	
	C5809	F1K2A1040007	0.1uF	100V	1	
	C5810	F1H1H104B047	0.1uF	50V	2	
	C5811	F1J2A221A030	220pF	100V	1	
	C5812	F1H1H104B047	0.1uF	50V	1	
	C5812	F1H1H153A219	0.015uF	50V	1	
	C5813	F1J2A221A030	220pF	100V	1	
	C5813	F2A1V331B150	330uF	35V	1	
	C5814	F1H1H104B047	0.1uF	50V	1	
	C5815	F1H1C474A140	0.47uF	16V	1	
	C5816	F1H1H104B047	0.1uF	50V	1	
	C5817	F1H1H153A219	0.015uF	50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5817	F2A2AR100002	0.10uF 100V	1	
	C5818	F1H1H104B047	0.1uF 50V	1	
	C5818	F1J2A221A030	220pF 100V	1	
	C5819	F1J2A221A030	220pF 100V	1	
	C5819	F1J2E1030004	0.01uF 250V	1	
	C5820	F1H1H104B047	0.1uF 50V	1	
	C5820	F1J2E1030004	0.01uF 250V	1	
	C5821	F1J2E1030004	0.01uF 250V	1	
	C5821	F1K2A1040007	0.1uF 100V	1	
	C5822	F1H1H104B047	0.1uF 50V	1	
	C5822	F1J2E1030004	0.01uF 250V	1	
	C5823	F1H1H104B047	0.1uF 50V	1	
	C5825	F1H1A474A107	0.47uF 10V	1	
	C5826	F1H1H331A013	330pF 50V	1	
	C5826	F1J2E1030004	0.01uF 250V	1	
	C5827	F1H1H102A219	1000pF 50V	1	
	C5828	F1H1A474A107	0.47uF 10V	1	
	C5829	F1H1H102A219	1000pF 50V	1	
	C5830	ECQV1H474JL3	0.47uF 50V	1	
	C5831	ECQV1H474JL3	0.47uF 50V	1	
	C5831	F1H1H104B047	0.1uF 50V	1	
	C5832	F1H1H104B047	0.1uF 50V	2	
	C5833	F1H1H104B047	0.1uF 50V	1	
	C5834	F1H1H103A219	0.01uF 50V	1	
	C5835	F2A1C100A207	10uF 16V	1	
	C5836	F1H1H103A219	0.01uF 50V	1	
	C5839	F1J2E1030004	0.01uF 250V	1	
	C5840	F1J2E1030004	0.01uF 250V	1	
	C5841	F1J2E1030004	0.01uF 250V	1	
	C5842	F1J2E1030004	0.01uF 250V	1	
	C5843	F1J1A106A043	10uF 10V	1	
	C5844	F1J1A106A043	10uF 10V	1	
	C5869	F1H1H104B047	0.1uF 50V	1	
	C5870	F1H1H104B047	0.1uF 50V	1	
	C5896	F1H1H104B047	0.1uF 50V	1	
	C5897	F1H1H103A219	0.01uF 50V	1	
	C5898	F1H1H104B047	0.1uF 50V	1	
	C5899	F2A1A221B161	220uF 10V	1	
	C5900	F1J1A106A043	10uF 10V	1	
	C6003	F1H1H104B047	0.1uF 50V	1	
	C6004	F1H1H102A219	1000pF 50V	1	
	C6005	F1H1H102A219	1000pF 50V	1	
	C6007	F1H1H102A219	1000pF 50V	1	
	C6008	F1H1H102A219	1000pF 50V	1	
	C6009	F1H1H102A219	1000pF 50V	1	
	C6010	F1H1H331A013	330pF 50V	1	
	C6011	F1H1H102A219	1000pF 50V	1	
	C6012	F1H1H331A013	330pF 50V	1	
	C6013	F1H1H331A013	330pF 50V	1	
	C6014	F1H1H102A219	1000pF 50V	1	
	C6016	F1H1H102A219	1000pF 50V	1	
	C6018	F1H1H102A219	1000pF 50V	1	
	C6019	F1H1H102A219	1000pF 50V	1	
	C6020	F1H1H102A219	1000pF 50V	1	
	C6021	F1H1H103A219	0.01uF 50V	1	
	C6022	F1H1H102A219	1000pF 50V	1	
	C6023	F2A1H470B412	47uF 50V	1	
	C6024	F1H1H562A219	5600pF 50V	1	
	C6025	F1H1H101B052	100pF 50V	1	
	C6026	F1H1H101B052	100pF 50V	1	
	C6027	F1H1H101B052	100pF 50V	1	
	C6028	F2A1H470B412	47uF 50V	1	
	C6029	F2A1C101A155	100uF 16V	1	
	C6030	F1H1H101B052	100pF 50V	1	
	C6031	F1H1H104B047	0.1uF 50V	1	
	C6032	F2A1H220B411	22uF 50V	1	
	C6200	F1H1H101B052	100pF 50V	1	
	C6201	F1H1H102A219	1000pF 50V	1	
	C6202	F2A1H220A182	22uF 50V	1	
	C6400	F1H1H391A013	390pF 50V	1	
	C6402	F1H1H331A013	330pF 50V	1	
	C6404	F1H1H331A013	330pF 50V	1	
	C6406	F1H1C104A008	0.1uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6408	F1H1H104B047	0.1uF 50V	1	
	C6409	F1H1H103A219	0.01uF 50V	1	
	C6412	F1H1H103A219	0.01uF 50V	1	
	C6500	F2A1H4R7A213	4.7uF 50V	1	
	C6502	F2A1C100A207	10uF 16V	1	
	C6503	F1H1H470A004	47pF 50V	1	
	C6504	F2A1HR10A015	0.10uF 50V	1	
	C6505	F2A1C100A207	10uF 16V	1	
	C6506	F1H1H472A219	4700pF 50V	1	
	C6507	F2A1H4R7A213	4.7uF 50V	1	
	C6509	F2A1H1R0A213	1.0uF 50V	1	
	C6510	F2A1H1R0A213	1.0uF 50V	1	
	C6511	F1H1H102A219	1000pF 50V	1	
	C6513	F2A1HR10A015	0.10uF 50V	1	
	C6514	F2A1H2R2A234	2.2uF 50V	1	
	C6515	F1H1H102A219	1000pF 50V	1	
	C6516	F1H1H103A219	0.01uF 50V	1	
	C6517	F1H1H103A219	0.01uF 50V	1	
	C8001	F1G1A1040006	0.1uF 10V	1	
	C8002	F1J1A106A043	10uF 10V	1	
	C8003	F1G1A1040006	0.1uF 10V	1	
	C8004	F1J1A106A043	10uF 10V	1	
	C8005	F1H0J225A005	2.2uF 6.3V	1	
	C8007	F1H1A334A025	0.33uF 10V	1	
	C8008	F1H1H223A219	0.022uF 50V	1	
	C8009	F1H1H680A230	68pF 50V	1	
	C8010	F1G1A1040006	0.1uF 10V	1	
	C8011	F1G1A1040006	0.1uF 10V	1	
	C8012	F1G1A1040006	0.1uF 10V	1	
	C8013	F2G0J101A031	100uF 6.3V	1	
	C8014	F1H1H103A885	0.01uF 50V	1	
	C8015	F1G1H120A565	12pF 50V	1	
	C8016	F1G1H120A565	12pF 50V	1	
	C8017	F1J1A106A043	10uF 10V	1	
	C8018	F1H1A334A028	0.33uF 10V	1	
	C8019	F1H1H102A219	1000pF 50V	1	
	C8020	F1H1H681A013	680pF 50V	1	
	C8021	F1H1C823A001	0.082uF 16V	1	
	C8022	F1H0J4750005	4.7uF 6.3V	1	
	C8025	F1H0J4750005	4.7uF 6.3V	1	
	C8026	F1H0J4750005	4.7uF 6.3V	1	
	C8027	F1H1H102A219	1000pF 50V	1	
	C8028	F1G1A1040006	0.1uF 10V	1	
	C8029	F1G1A1040006	0.1uF 10V	1	
	C8030	F1G1A1040006	0.1uF 10V	1	
	C8031	F1G1A1040006	0.1uF 10V	1	
	C8032	F1G1A1040006	0.1uF 10V	1	
	C8033	F1G1A1040006	0.1uF 10V	1	
	C8034	F1G1A1040006	0.1uF 10V	1	
	C8035	F1G1A1040006	0.1uF 10V	1	
	C8036	F1G1A1040006	0.1uF 10V	1	
	C8037	F1G1A1040006	0.1uF 10V	1	
	C8038	F1G1A1040006	0.1uF 10V	1	
	C8039	F1G1A1040006	0.1uF 10V	1	
	C8040	F1G1A1040006	0.1uF 10V	1	
	C8041	F1G1A1040006	0.1uF 10V	1	
	C8042	F1G1A1040006	0.1uF 10V	1	
	C8043	F1G1A1040006	0.1uF 10V	1	
	C8044	F1H0J4750005	4.7uF 6.3V	1	
	C8045	F1G1A1040006	0.1uF 10V	1	
	C8046	F1G1A1040006	0.1uF 10V	1	
	C8047	F1H1H153A885	0.015uF 50V	1	
	C8048	F1G1A1040006	0.1uF 10V	1	
	C8049	F1J1A106A043	10uF 10V	1	
	C8050	F1H1A105A025	1uF 10V	1	
	C8051	F1G1A1040006	0.1uF 10V	1	
	C8052	F1G1A1040006	0.1uF 10V	1	
	C8053	F1G1A1040006	0.1uF 10V	1	
	C8054	F1G1A1040006	0.1uF 10V	1	
	C8055	F1G1A1040006	0.1uF 10V	1	
	C8056	F1G1A1040006	0.1uF 10V	1	
	C8057	F1G1A1040006	0.1uF 10V	1	
	C8058	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C8059	F1G1A1040006	0.1uF 10V	1	
	C8060	F1H1A105A025	1uF 10V	1	
	C8061	F1G1A1040006	0.1uF 10V	1	
	C8062	F1J1A106A043	10uF 10V	1	
	C8063	F1J1A106A043	10uF 10V	1	
	C8064	F2G0J221A031	220uF 6.3V	1	
	C8065	F1J1A106A043	10uF 10V	1	
	C8066	F1G1A1040006	0.1uF 10V	1	
	C8067	F1J1A106A043	10uF 10V	1	
	C8068	F1H1H332A013	3300pF 50V	1	
	C8069	F1H1H332A013	3300pF 50V	1	
	C8070	F1J1A106A043	10uF 10V	1	
	C8071	F1G1A1040006	0.1uF 10V	1	
	C8072	F1G1A1040006	0.1uF 10V	1	
	C8073	F1G1A1040006	0.1uF 10V	1	
	C8074	F1G1A1040006	0.1uF 10V	1	
	C8075	F1J1A106A043	10uF 10V	1	
	C8076	F1J1A106A043	10uF 10V	1	
	C8101	F1H1C104A008	0.1uF 16V	1	
	C8102	F1H1C104A008	0.1uF 16V	1	
	C8201	F1J1A106A043	10uF 10V	1	
	C8202	F1G1A1040006	0.1uF 10V	1	
	C8203	F1H1H103A885	0.01uF 50V	1	
	C8204	F1J1A106A043	10uF 10V	1	
	C8251	F2G1C4700061	47uF 16V	1	
	C8252	F1H1H103A885	0.01uF 50V	1	
	C8253	F1H1A154A001	0.15uF 10V	1	
	C8254	F1H1H153A885	0.015uF 50V	1	
	C8255	F1H1H182A219	1800pF 50V	1	
	C8256	F1H1H102A219	1000pF 50V	1	
	C8258	F1H1H122A219	1200pF 50V	1	
	C8259	F1J1A106A043	10uF 10V	1	
	C8260	F1H1H103A885	0.01uF 50V	1	
	C8261	F1H1A105A025	1uF 10V	1	
	C8262	F2G0J101A031	100uF 6.3V	1	
	C8401	F1J1A106A043	10uF 10V	1	
	C8402	F2G0J101A031	100uF 6.3V	1	
	C8403	F1H1H103A885	0.01uF 50V	1	
	C8501	F1J1A106A043	10uF 10V	1	
	C8502	F1H1A105A025	1uF 10V	1	
	C8503	F1H1A105A025	1uF 10V	1	
	C8504	F1G1A1040006	0.1uF 10V	1	
	C8505	F1G1A1040006	0.1uF 10V	1	
	C8506	F1G1A1040006	0.1uF 10V	1	
	C8507	F1G1A1040006	0.1uF 10V	1	
	C8508	F1G1A1040006	0.1uF 10V	1	
	C8509	F1G1A1040006	0.1uF 10V	1	
	C8510	F1G1A1040006	0.1uF 10V	1	
	C8511	F1G1A1040006	0.1uF 10V	1	
	C8512	F1G1A1040006	0.1uF 10V	1	
	C8513	F1H0J4750005	4.7uF 6.3V	1	
	C8514	F1H0J4750005	4.7uF 6.3V	1	
	C9006	F1G1A1040006	0.1uF 10V	1	
			SERVICE FIXTURE & TOOLS		
	SFT1	REX1527	15P CABLE WIRE (MAIN-SMPS)	1	