

Service
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Service Manual

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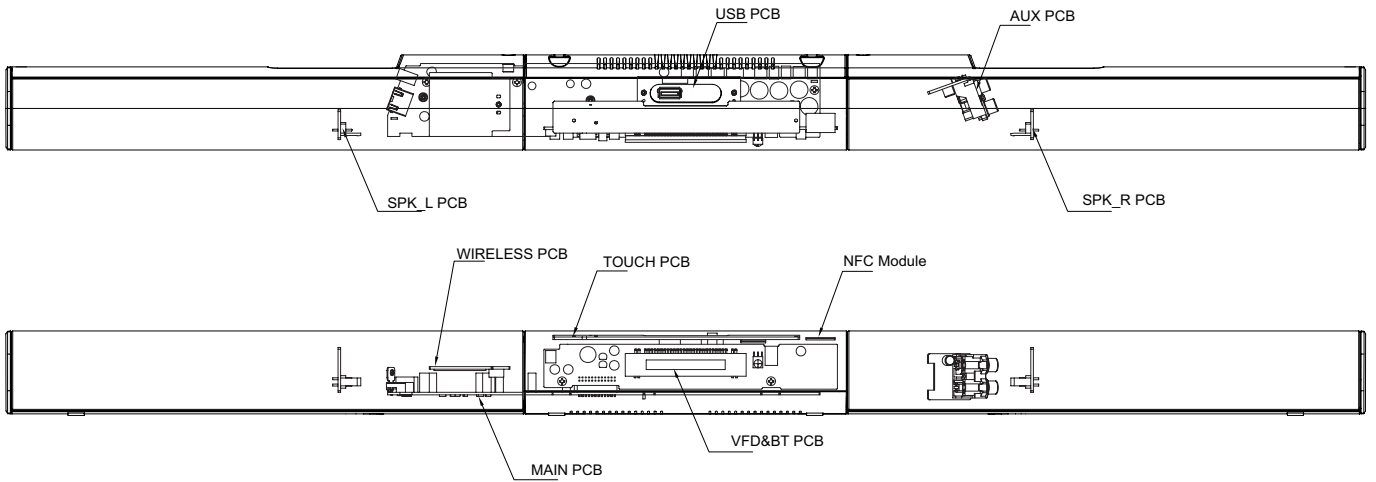
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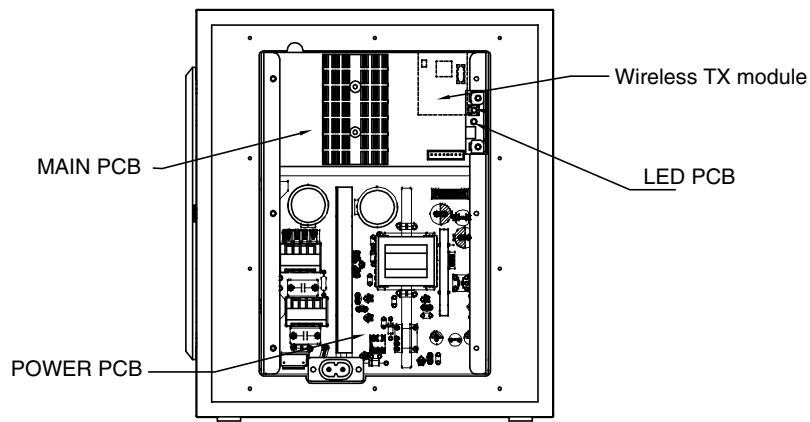
Version 4.0



LOCATION OF PCBA



Main Unit



Subwoofer

Reminder: As BT and NFC need to be paired, and BT is under VFD&BT PCB, when any of the BT , NFC and VFD&BT PCB need to be replaced, all of this three parts need to be replaced together.

VERSIONS VARIATION:

Board in used	Type/Versions	HTL3140
MAIN+MP3&USB+SPK+VFD&BT+AUX&OPTICAL Board		M+C
WIRELESS Board		M+C
AMP+LED Board		M+C
POWER Board		M+C

*M= Module Level Repair

*C = Component Level Repair

Technical Specification

Amplifier

Total output power: 120W RMS (+/- 0.5 dB, 10% THD)

- Frequency response: 20 Hz-20 kHz / ± 3 dB
- Signal-to-noise ratio: > 65 dB (CCIR) / (A-weighted)
- Input sensitivity:
 - AUX: 900 mV
 - AUDIO IN: 500 mV

Audio

- S/PDIF Digital audio input:
 - Coaxial: IEC 60958-3
 - Optical: TOSLINK

USB

- Compatibility: Hi-Speed USB (2.0)
- Class support: USB Mass Storage Class (MSC)
- File system: FAT16, FAT32, NTFS
- Supports MP3 and WMA file formats
- Sampling frequency:
 - MP3: 8 kHz, 11 kHz, 12 kHz, 16 kHz, 22 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - WMA: 44.1 kHz, 48 kHz
- Constant bit rate:
 - MP3: 8 kbps-320 kbps
 - WMA: 32 kbps-192 kbps
- Version:
 - WMA: V7, V8, V9

Bluetooth

- Bluetooth profiles: A2DP, AVRCP
- Bluetooth version: 3.0 + EDR

Main unit

- Power supply:
 - Model (Philips branded AC power adapter): DYS602-210309W; AS650-210-AA309
 - Input: 100-240V~, 50/60 Hz 1.5 A
 - Output: 21V $\overline{\text{---}}$, 3.09A
- Standby power consumption: ≤ 0.5 W
- Speaker impedance
 - Woofer: 8 ohm
 - tweeter: 16 ohm
- Speaker drivers: 2 x (90mm/3.5" x 34mm/1.3") woofer + 2 x 31mm/1.2" tweeter
- Dimensions (WxHxD): 843 x 52 x 60 mm
- Weight: 1.4 kg

Subwoofer

- Power supply: 220-240V~, 50-60 Hz (for 12,05 & 51 version)
110-240V~, 50-60 Hz (for 98 version)
- Power consumption: 35 W
- Standby power consumption: ≤ 0.5 W
- Impedance: 3 ohm
- Speaker drivers: 1 x 134 mm (5.25") woofer
- Dimensions (WxHxD): 226 x 251 x 306 mm
- Weight: 3.9 kg

Remote control batteries

- 1 x AAA-R03-1.5 V

Safety

Risk of electric shock or fire!

- Never expose the product and accessories to rain or water. Never place liquid containers, such as vases, near the product. If liquids are spilt on or into the product, disconnect it from the power outlet immediately. Contact Consumer Care to have the product checked before use.
- Never place the product and accessories near naked flames or other heat sources, including direct sunlight.
- Never insert objects into the ventilation slots or other openings on the product.
- Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Disconnect the product from the power outlet before lightning storms.
- When you disconnect the power cord, always pull the plug, never the cable.

Risk of short circuit or fire!

- Before you connect the product to the power outlet, ensure that the power voltage matches the value printed on the back or bottom of the product. Never connect the product to the power outlet if the voltage is different.

Risk of injury or damage to this product!

- Never place the product or any objects on power cords or on other electrical equipment.
- If the product is transported in temperatures below 5°C, unpack the product and wait until its temperature matches room temperature before connecting it to the power outlet.
- Parts of this product can be made of glass. Handle with care to avoid injury and damage.

Risk of overheating!

- Never install this product in a confined space. Always leave a space of at least four inches around the product for ventilation. Ensure curtains or other objects never cover the ventilation slots on the product.

Risk of contamination!

- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.
- Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
- Batteries contain chemical substances, they should be disposed of properly.

Risk of swallowing batteries!

- The product/remote control may contain a coin/button type battery, which can be swallowed. Keep the battery out of reach of children at all times! If swallowed, the battery can cause serious injury or death. Severe internal burns can occur within two hours of ingestion.
- If you suspect that a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.
- When you change the batteries, always keep all new and used batteries out of reach of children. Ensure that the battery compartment is completely secure after you replace the battery.
- If the battery compartment cannot be completely secured, discontinue use of the product. Keep out of reach of children and contact the manufacturer:



This is CLASS II apparatus with double insulation, and no protective earth provided.

Care for your product

Use only microfiber cloth to clean the product.

Care of the environment



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste.

Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.



Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste. Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

Software upgrade instruction

1) Restore factory setting

a) In Aux mode, within three seconds, press < - (Volume), BASS - and TREBLE - > to reset the default settings programmed at the factory.

»» When the factory settings restore is complete, the product automatically switches off and restarts.

2) Check software version

a) In HDMI ARC source mode, press < TREBLE -, BASS- and - (Volume) > on the remote control.

3) Software Upgrade via USB

a) Check the latest software version on www.philips.com/support.

- Search for your model and click on "Software and drivers".

b) Download the software into a USB storage device.

1. Unzip the download if zipped, and make sure that the unzipped file is named "HTL3110.BIN".
2. Put the "HTL3110.BIN" file in the root directory.

c) Connect the USB storage device to the USB connector on this product.

d) Switch this product to the HDMI ARC source, and switch your TV to the HDMI source.

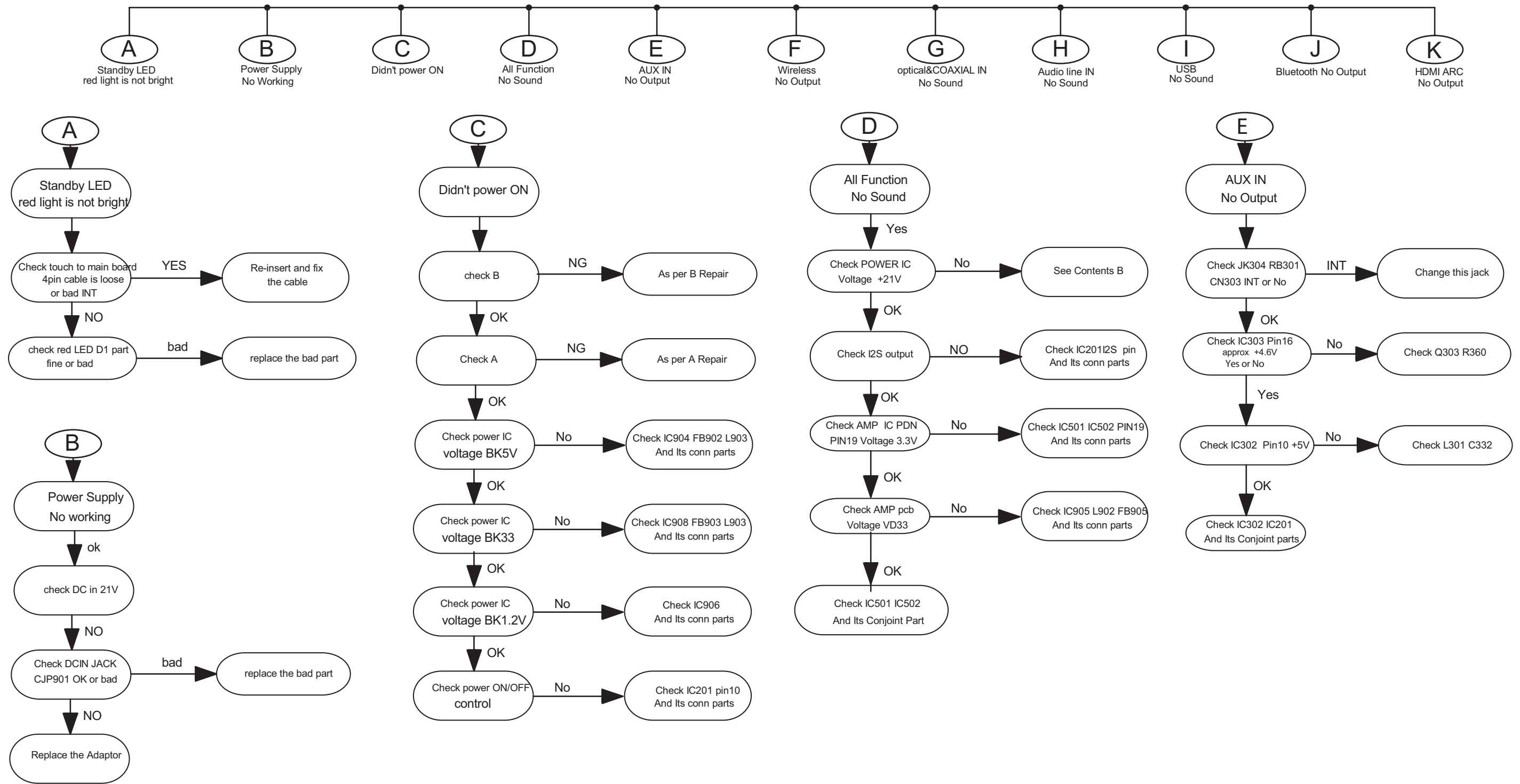
e) On the remote control, within 6 seconds press < Mute > twice, and <VOL +> once, then hold down <SURROUND ON.>

f) Press < Mute > button on R/C to start the update.

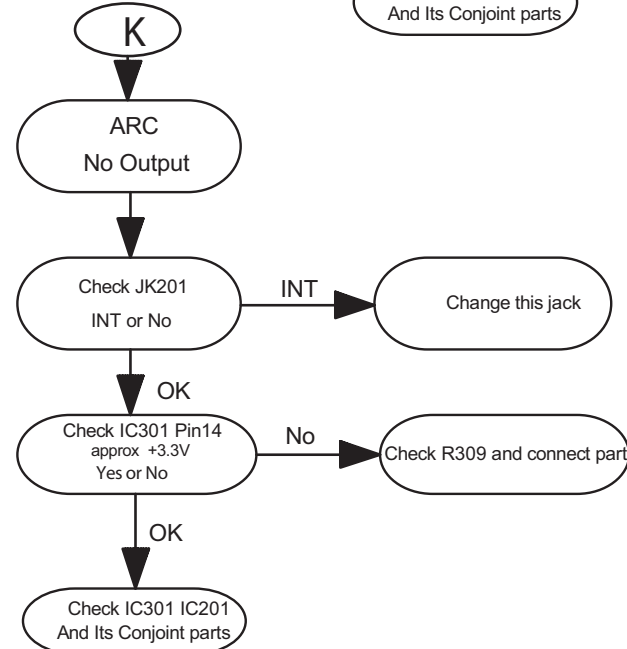
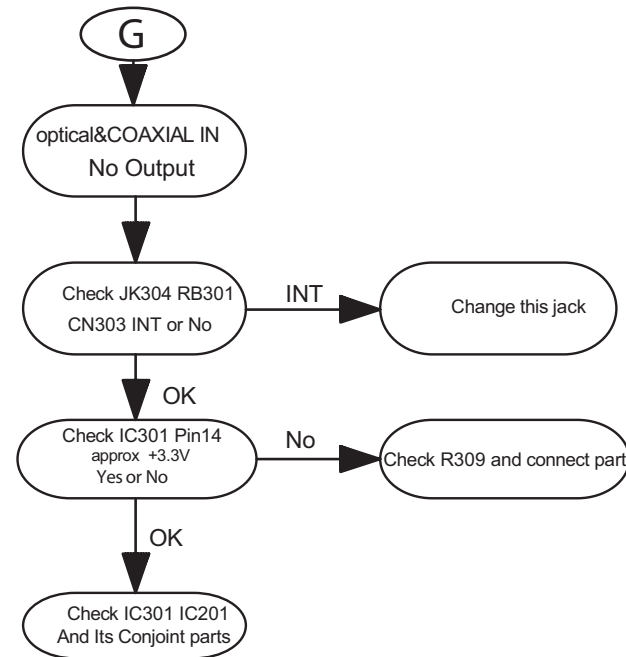
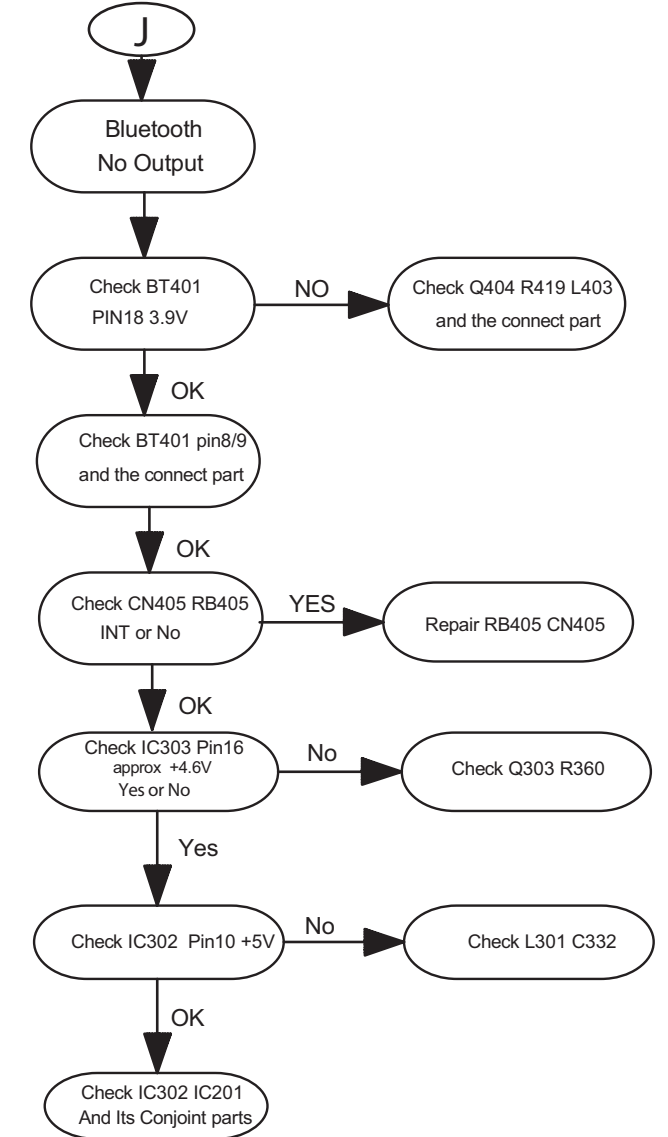
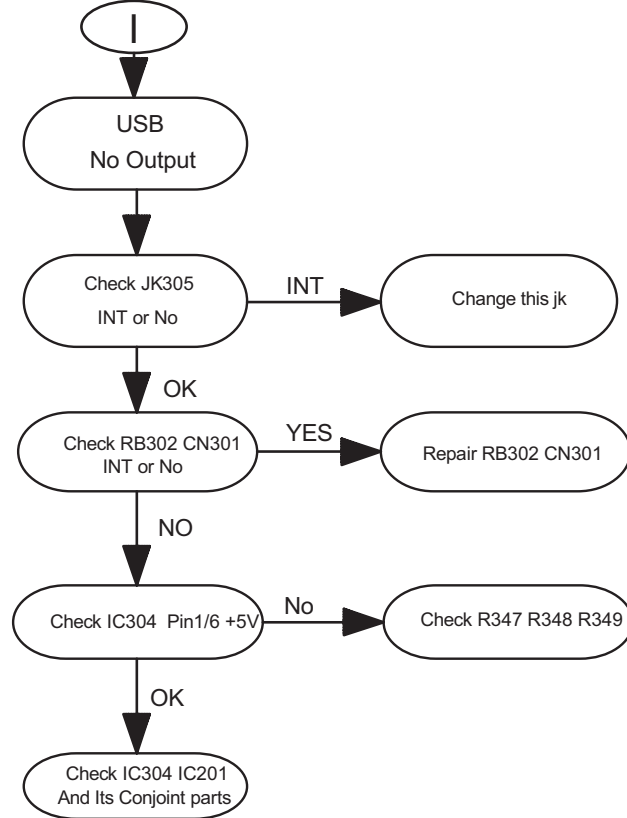
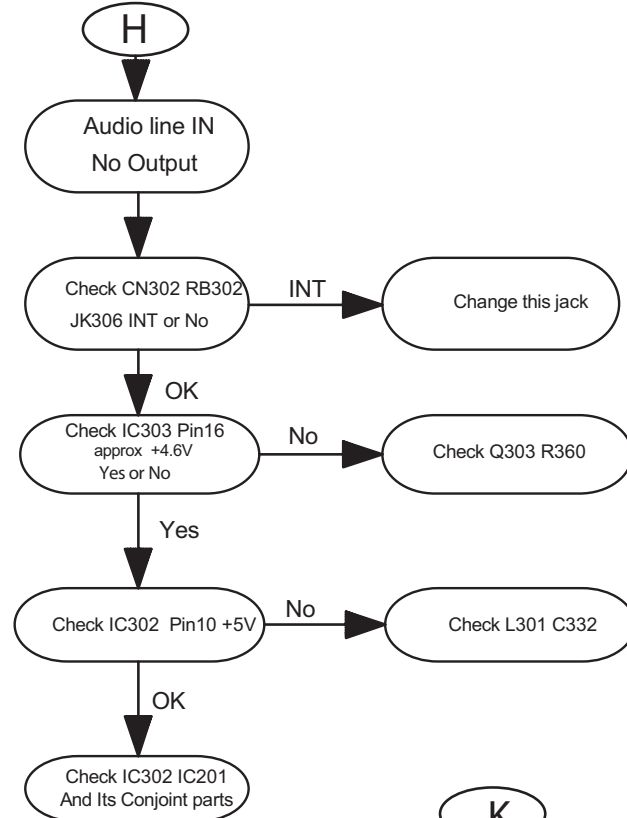
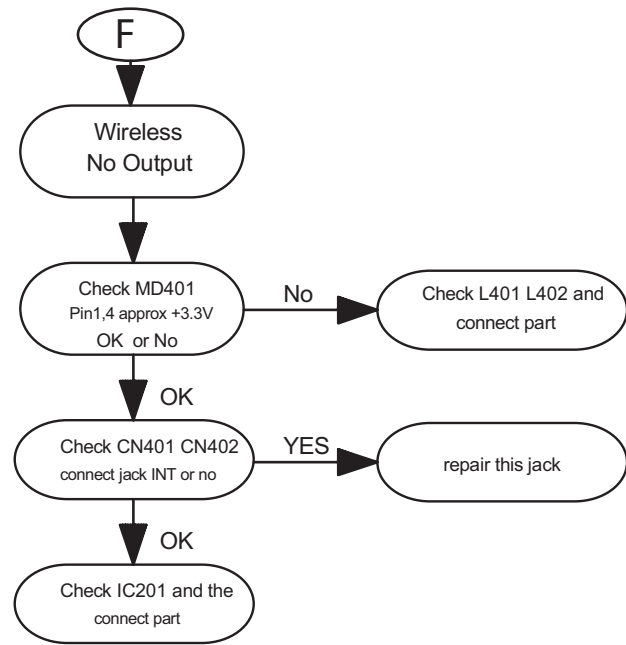
g) Wait until the update is completed.

- If the update is complete, this product automatically turns off and on again.

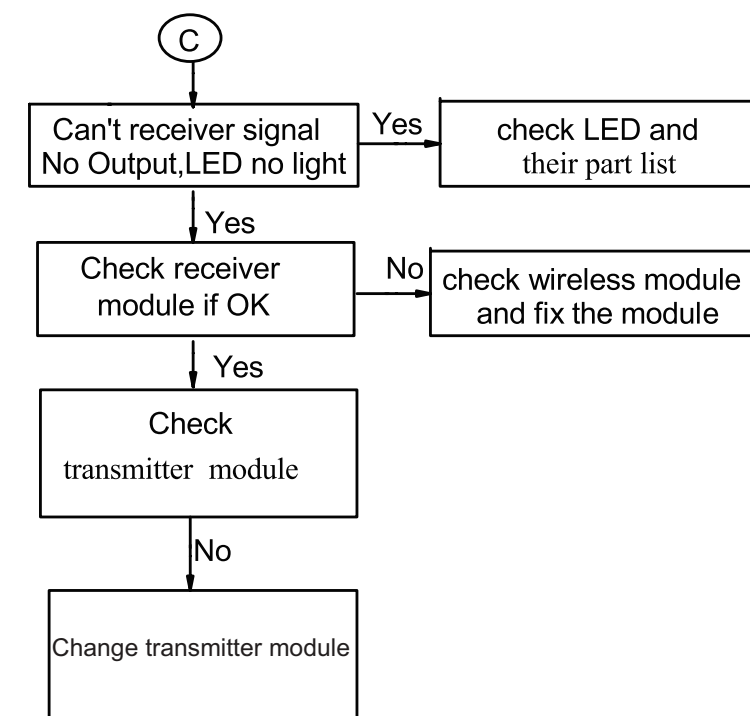
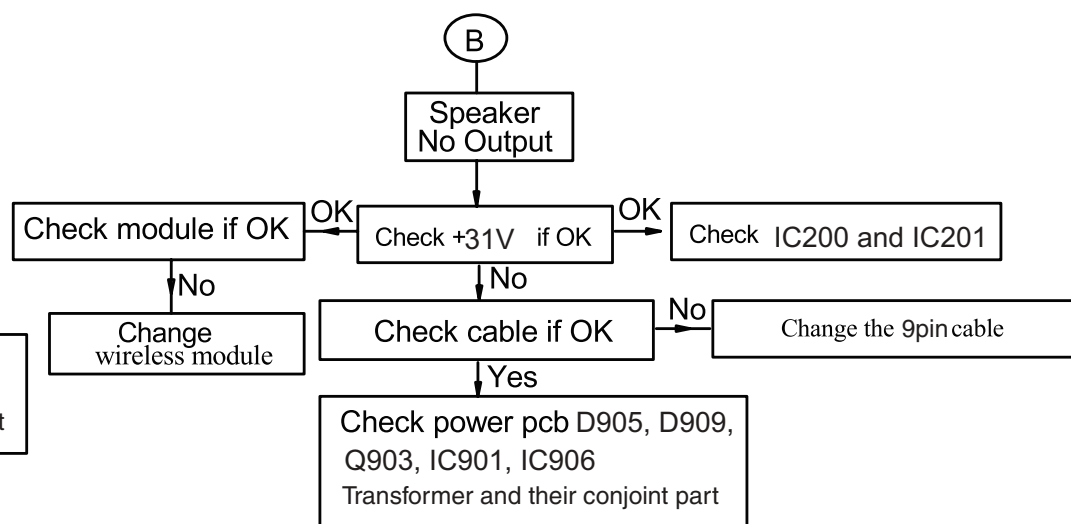
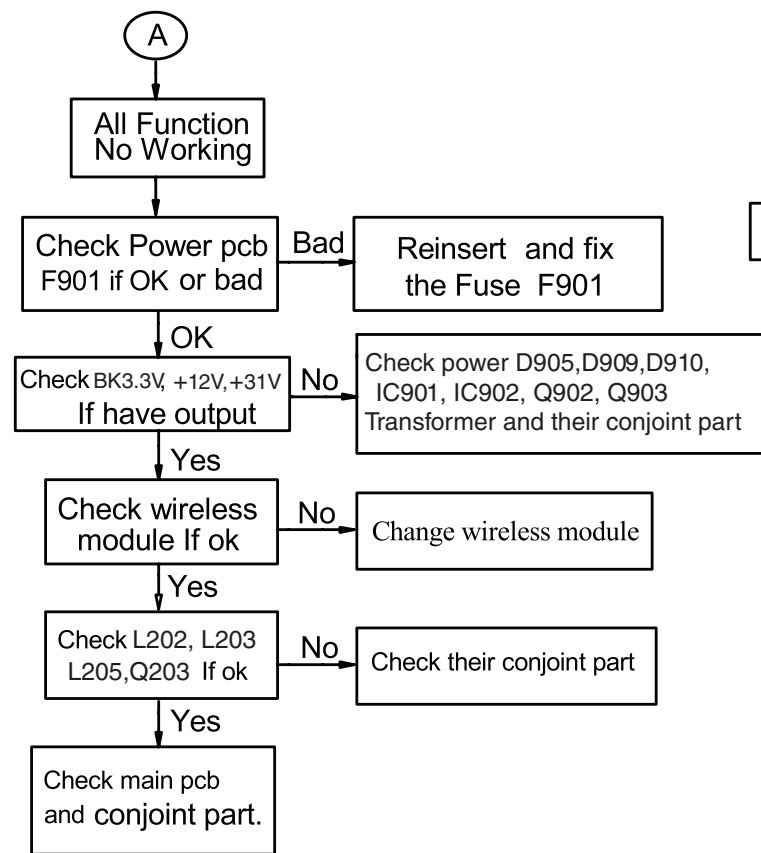
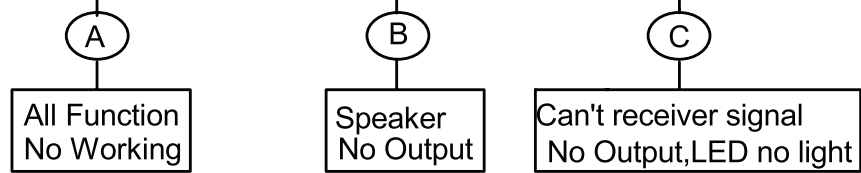
MAIN UNIT REPAIR CHART 1/2



MAIN UNIT REPAIR CHART 2/2



SUBWOOFER REPAIR CHART



Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

Dismantling of the SPK L/R assembly

- 1) Loosen 2*2 screws "A" at both side of SPK_L/R as shown in figure 1.

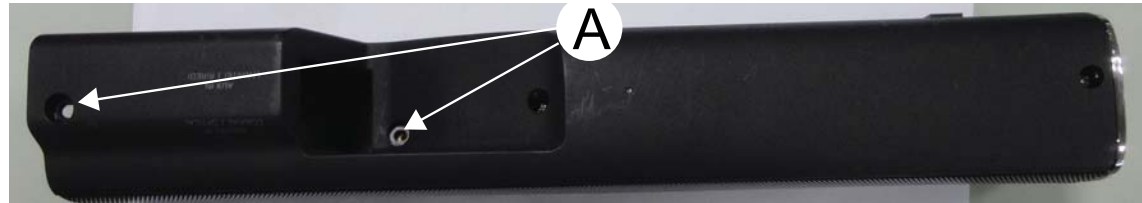


Figure 1

Dismantling of the SPK L/R Boards

- 1) Loosen 2*2 screws "B" at both side of SPK_L/R to remove the rear Housing as shown in figure 2.

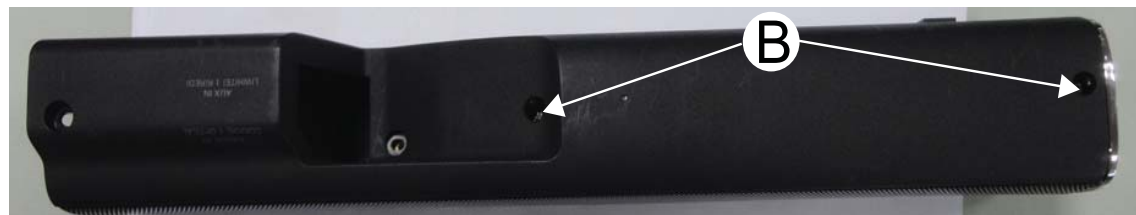


Figure 2

Dismantling of the Bottom cover

- 1) Loosen 4 screws "C" at the bottom cover as shown in figure 3.

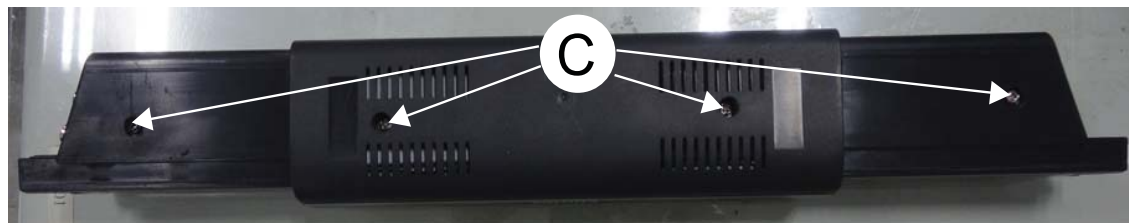


Figure 3

Dismantling of the AUX & OPTICAL Board

- 1) Loosen 2 screws "D" & "E" to remove the brakcet as shown in figure 4 and figure 5.
- 3) Loosen 1 screws "F" at the brakcet to remvoe the AUX & OPTICAL board as shown in figure 6.

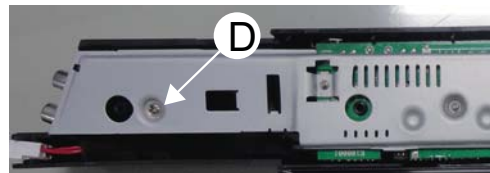


Figure 4

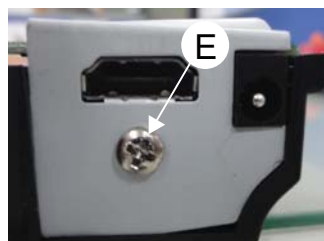


Figure 5

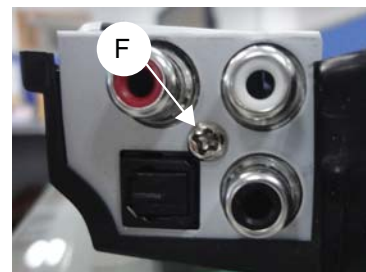


Figure 6

Dismantling of the VFD+BT Boards

- 1) Loosen 2 screws "G" on the top of VFD+BT board as shown in figure 7.

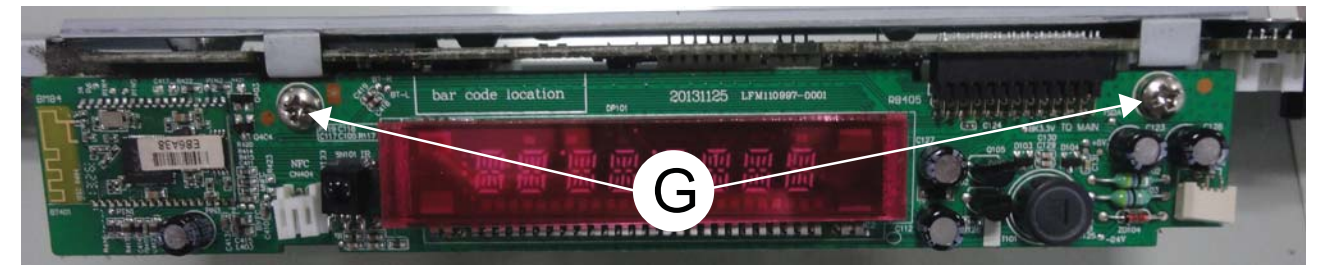


Figure 7

Dismantling of the MAIN Boards

- 1) Loosen 4 screws "H" on the top of Main Board as shown in figure 8.

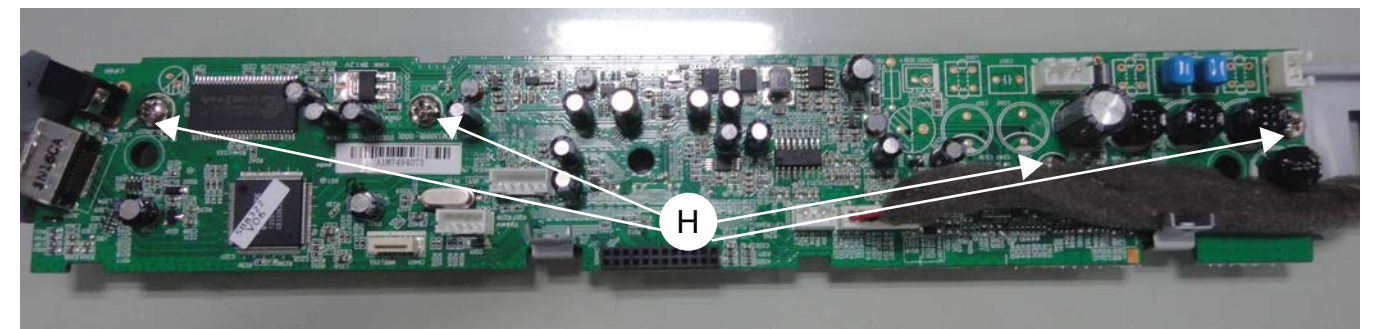


Figure 8

Dismantling of the MP3&USB Boards

- 1) Loosen 2 screws "I" on the top of MP3&USB Board as shown in figure 9.

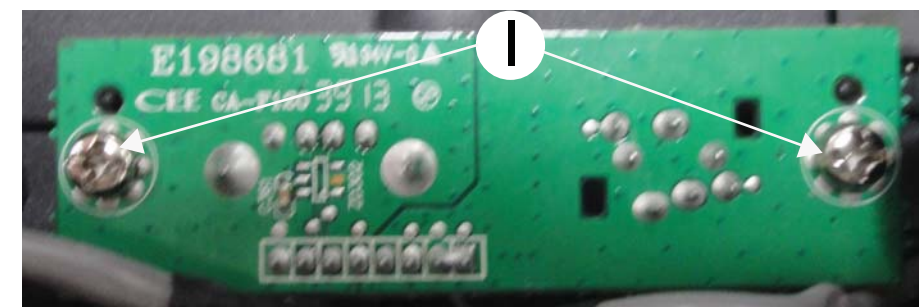


Figure 9

1) Loosen 1 screws "J" on the top of WIRELESS Board as shown in figure 10.



Figure 10

Dismantling of the TOUCH Boards assembly

1) Remove the top lens to take the TOUCH Board out as shown in figure 11.



Figure 11

SERVICE POSITIONS

Servie A



Dismantling Instructions(SUBWOOFER)

Dismantling of Back panel assembly

1) Loosen 8 screws "K" to remove the back panel as shown in figure 12.

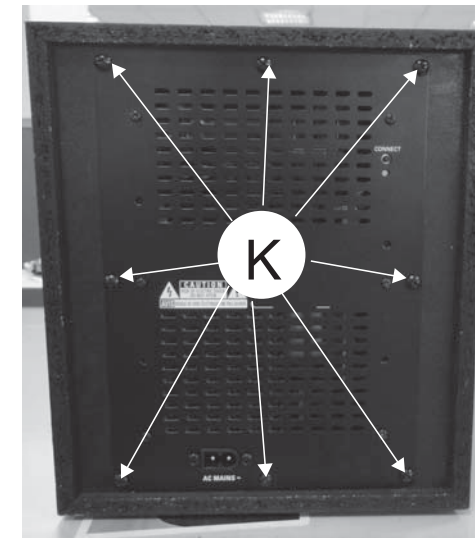


Figure 12

Dismantling of AMP&LED Boards

1) Loosen 4 screws "L" on the top of AMP&LED Boards as shown in figure 13.

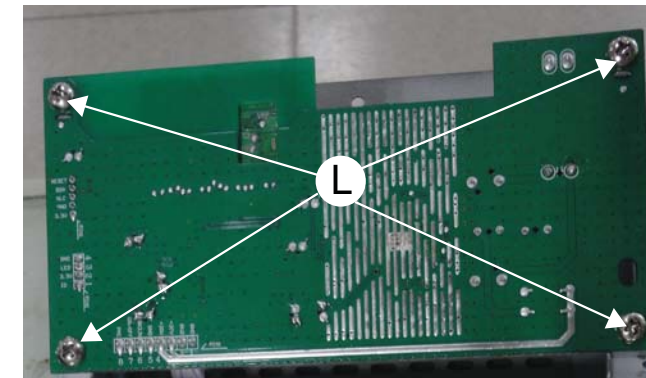


Figure 13

Dismantling of POWER Boards

1) Loosen 4 screws "M" on the top of POWER Boards as shown in figure 14.

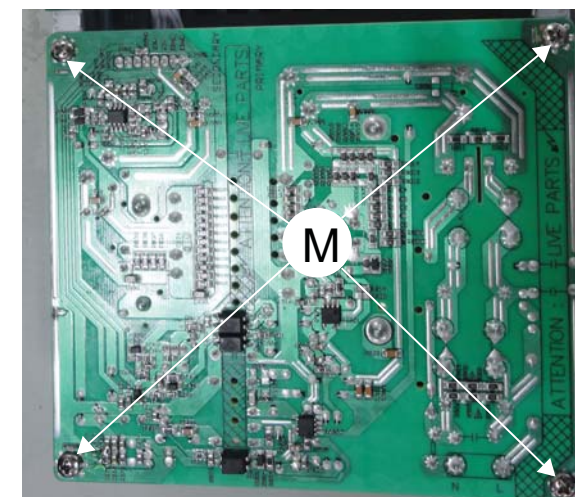
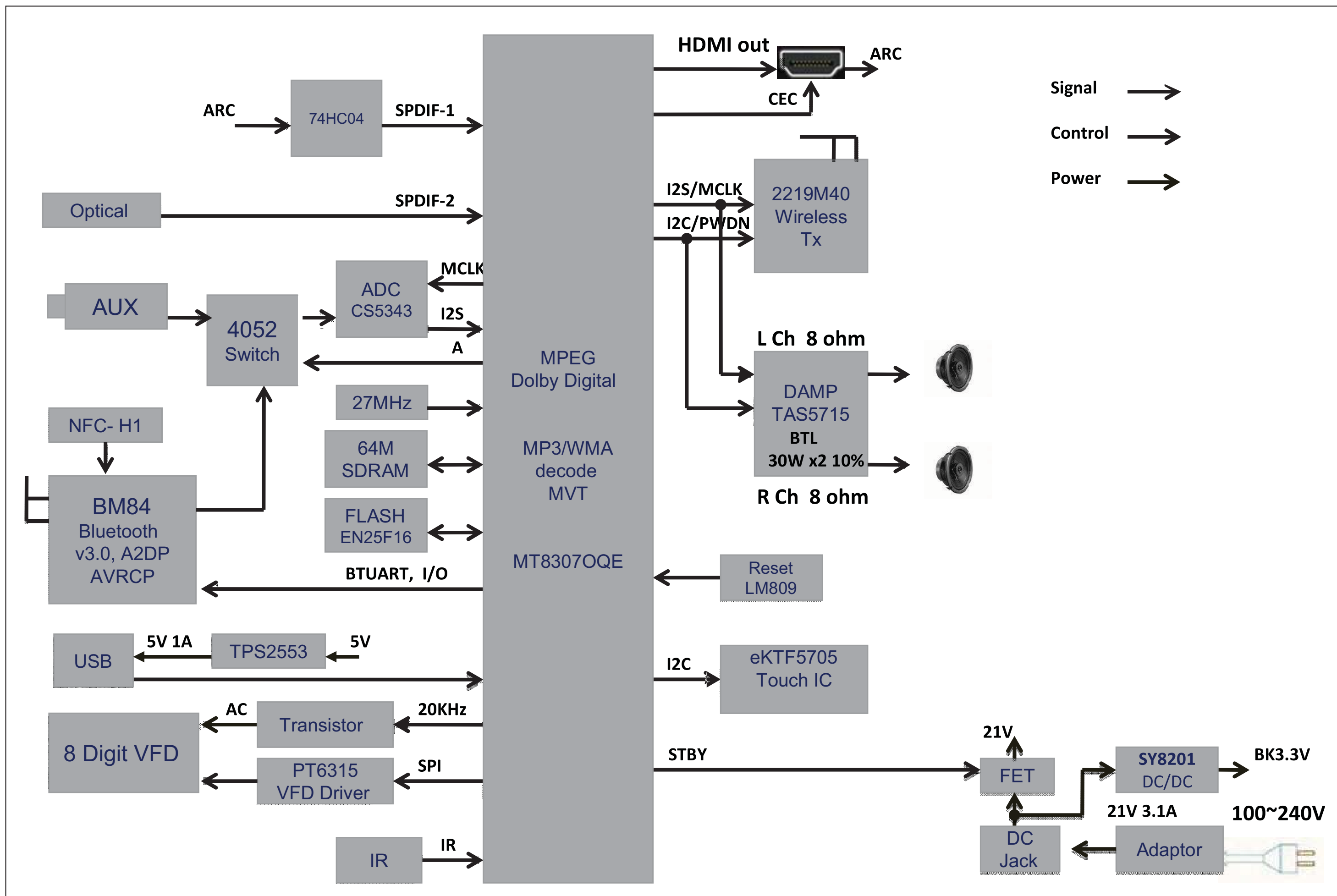
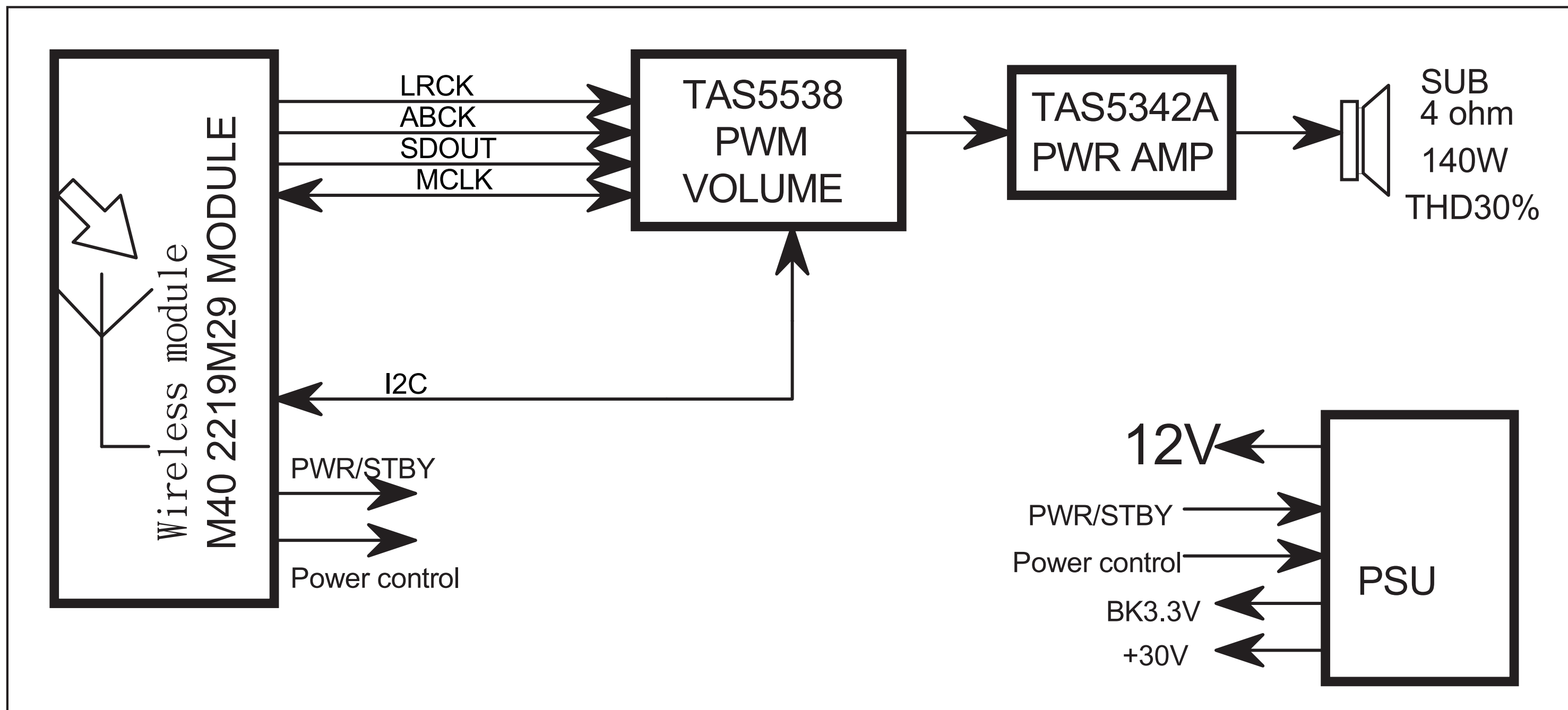
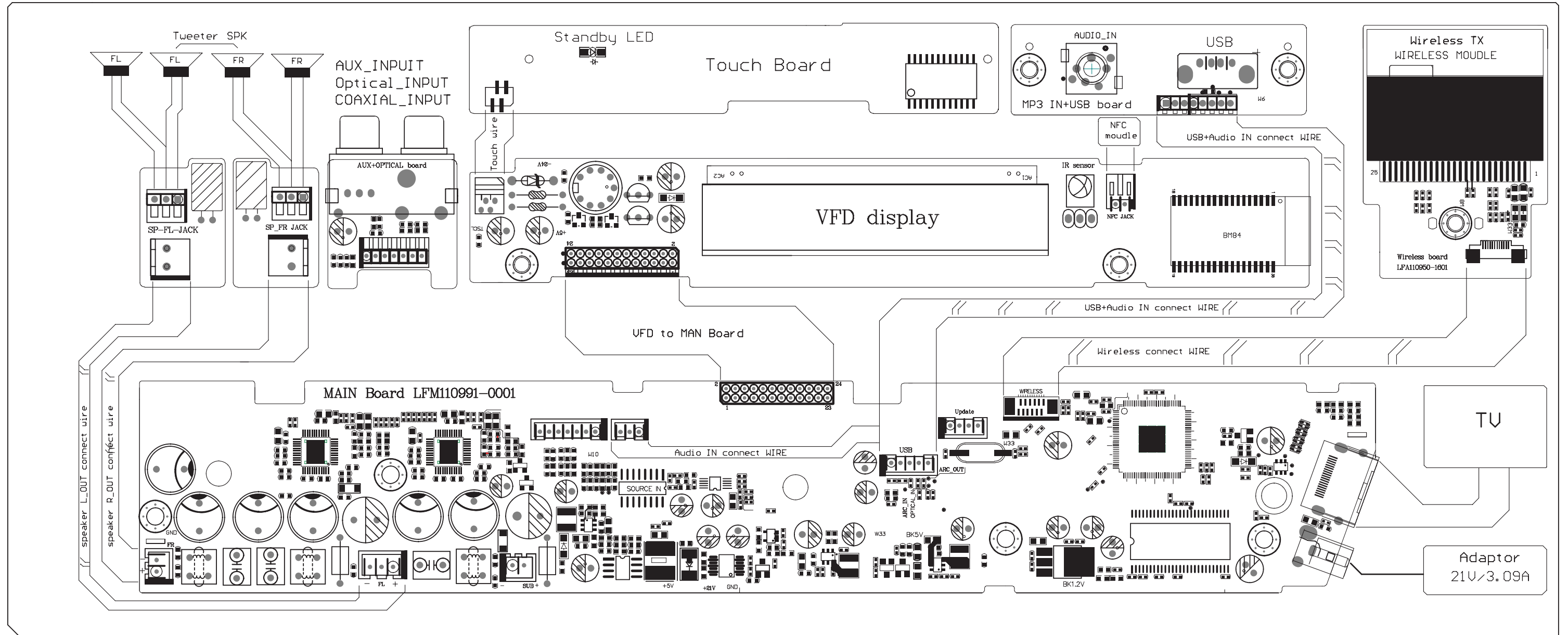
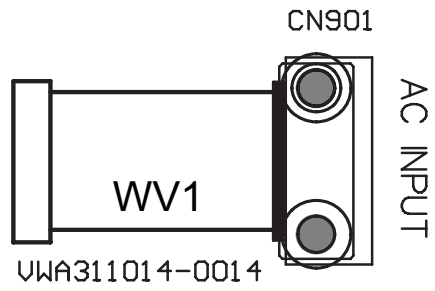


Figure 14

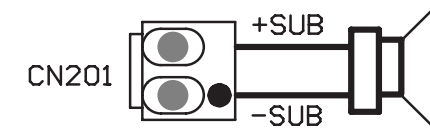




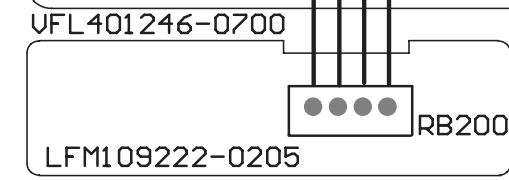
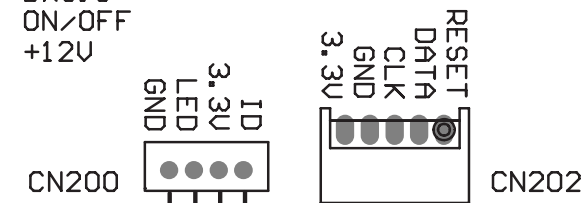
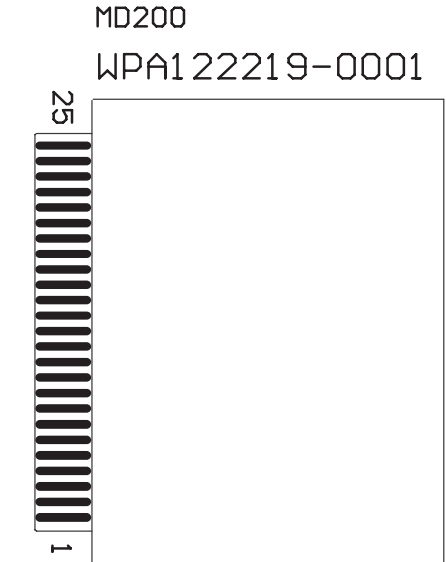
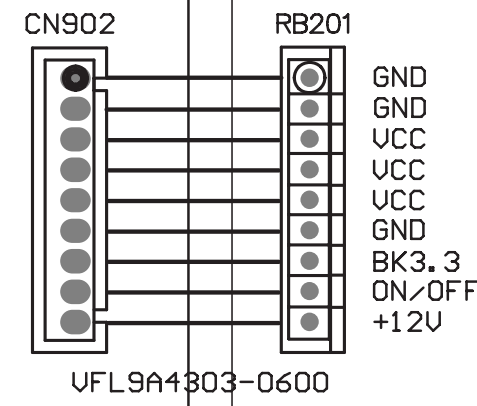




PSU PCB
LCP109320-0003



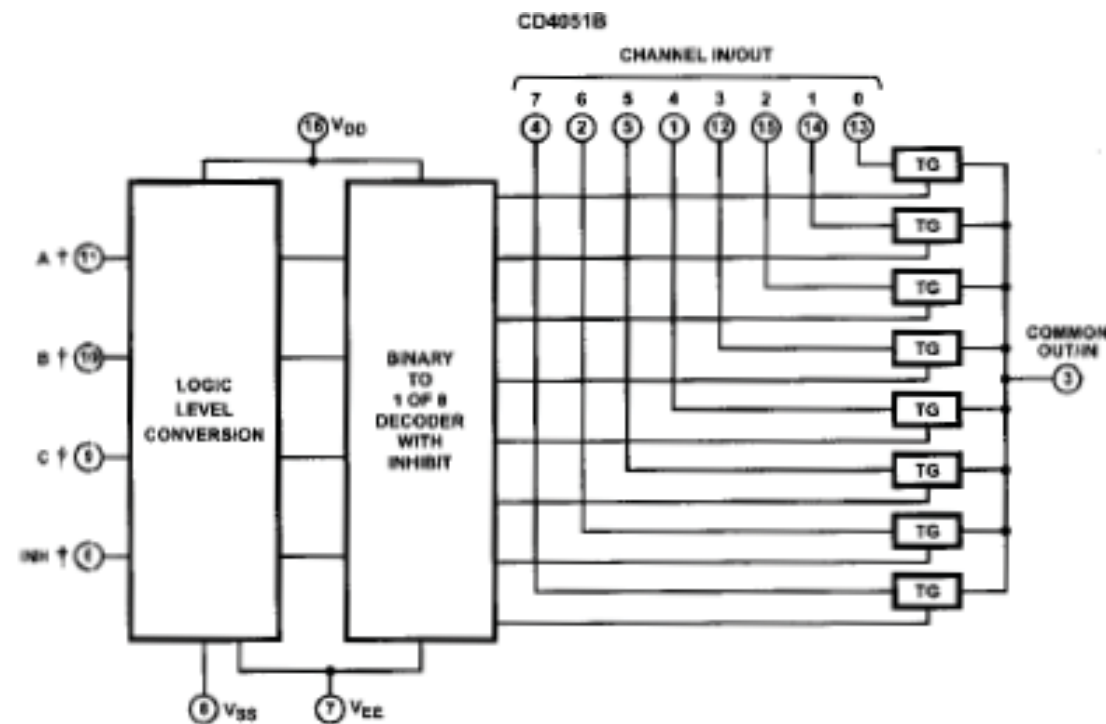
AMP PCB
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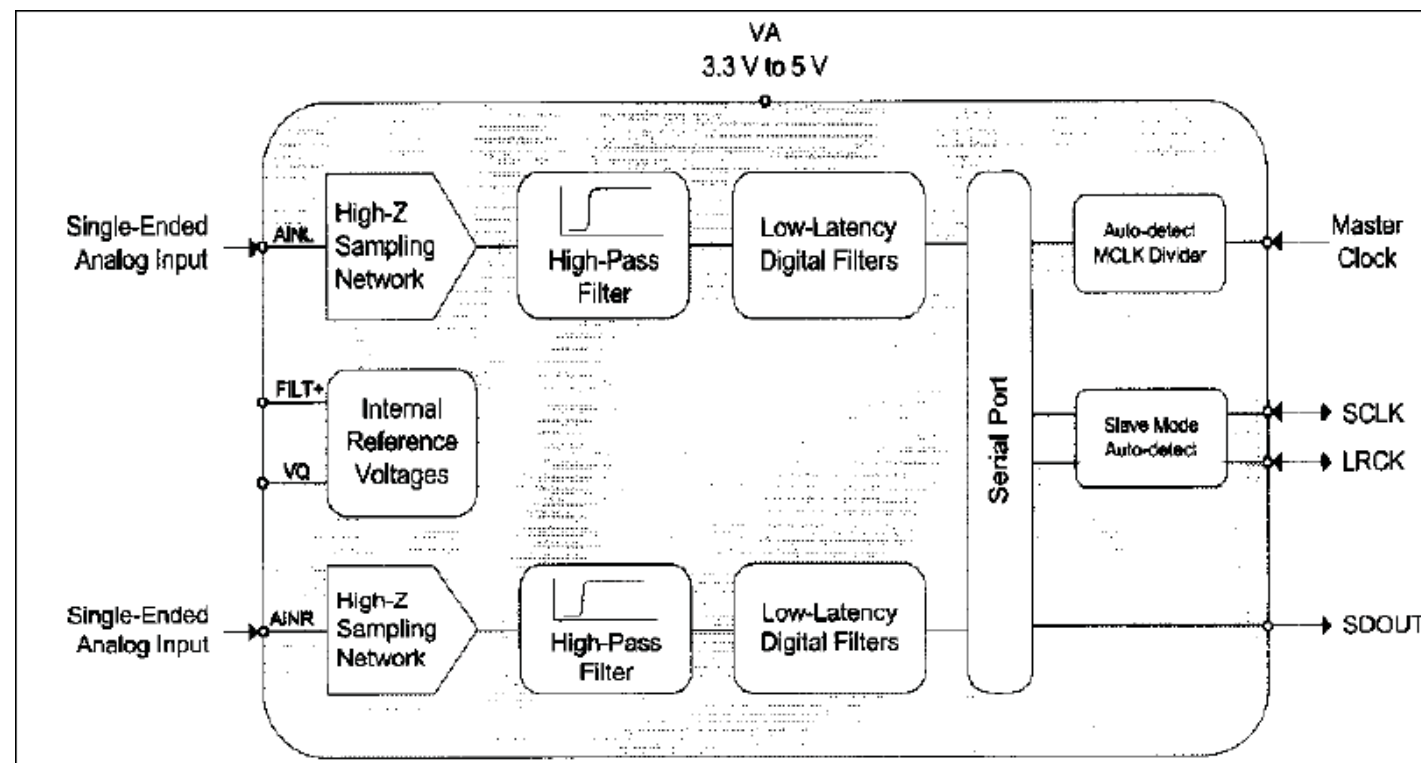
MAIN+MP3&USB+SPK+VFD&BT+AUX&OPTICAL BOARD

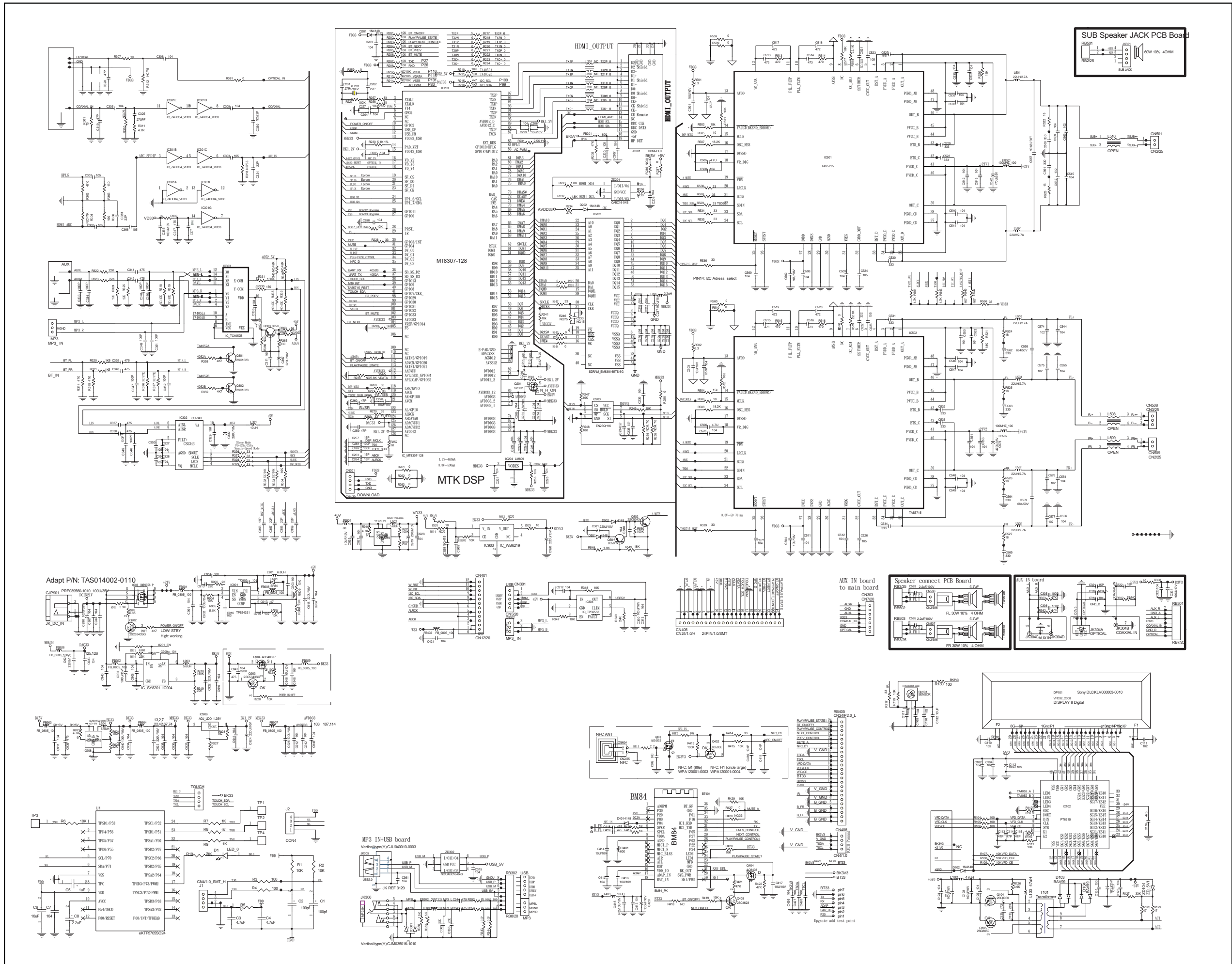
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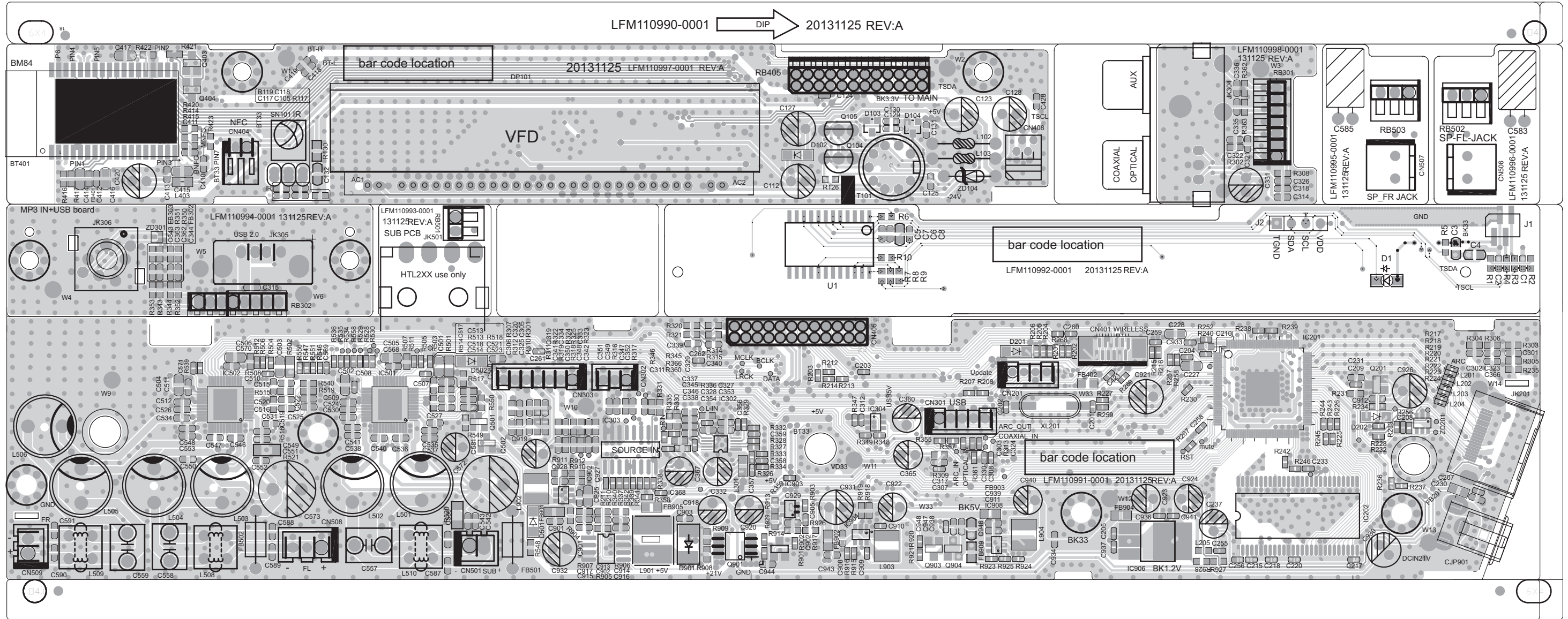
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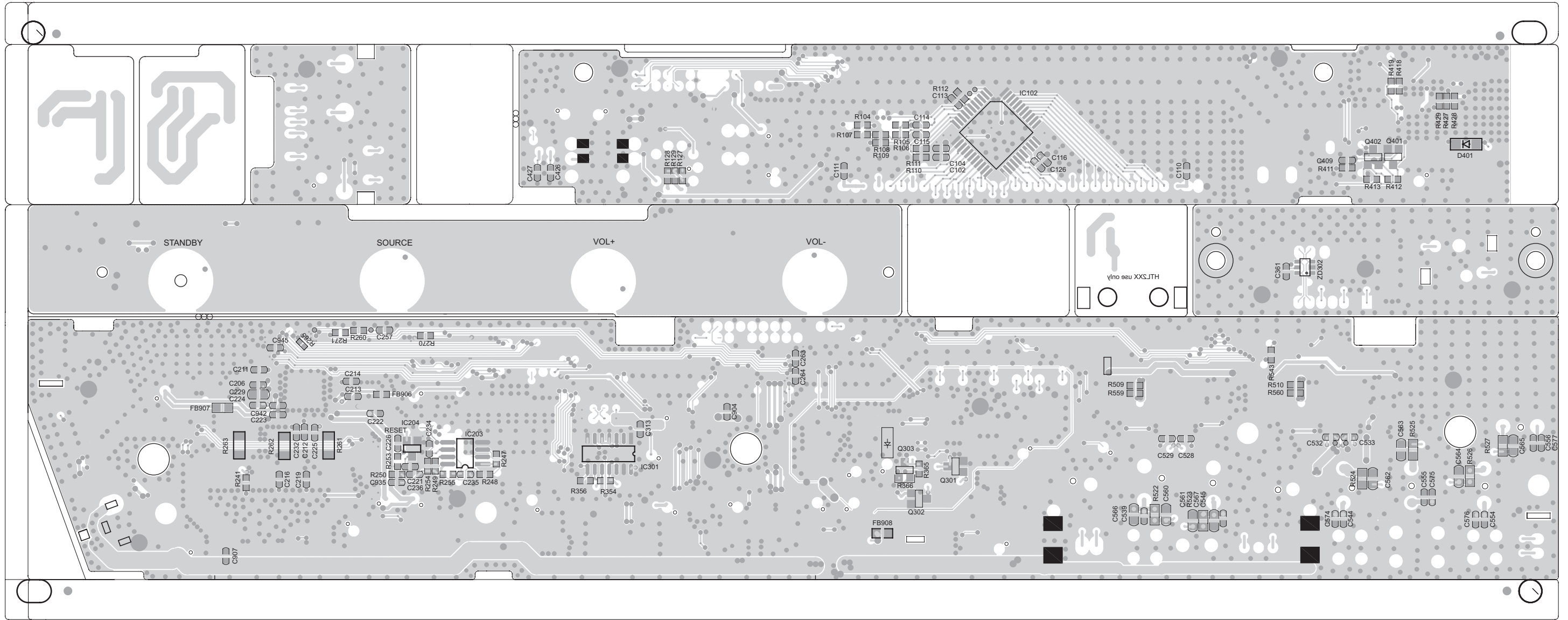


IC302 INTERNAL IC DIAGRAM - CS5343-CZZ





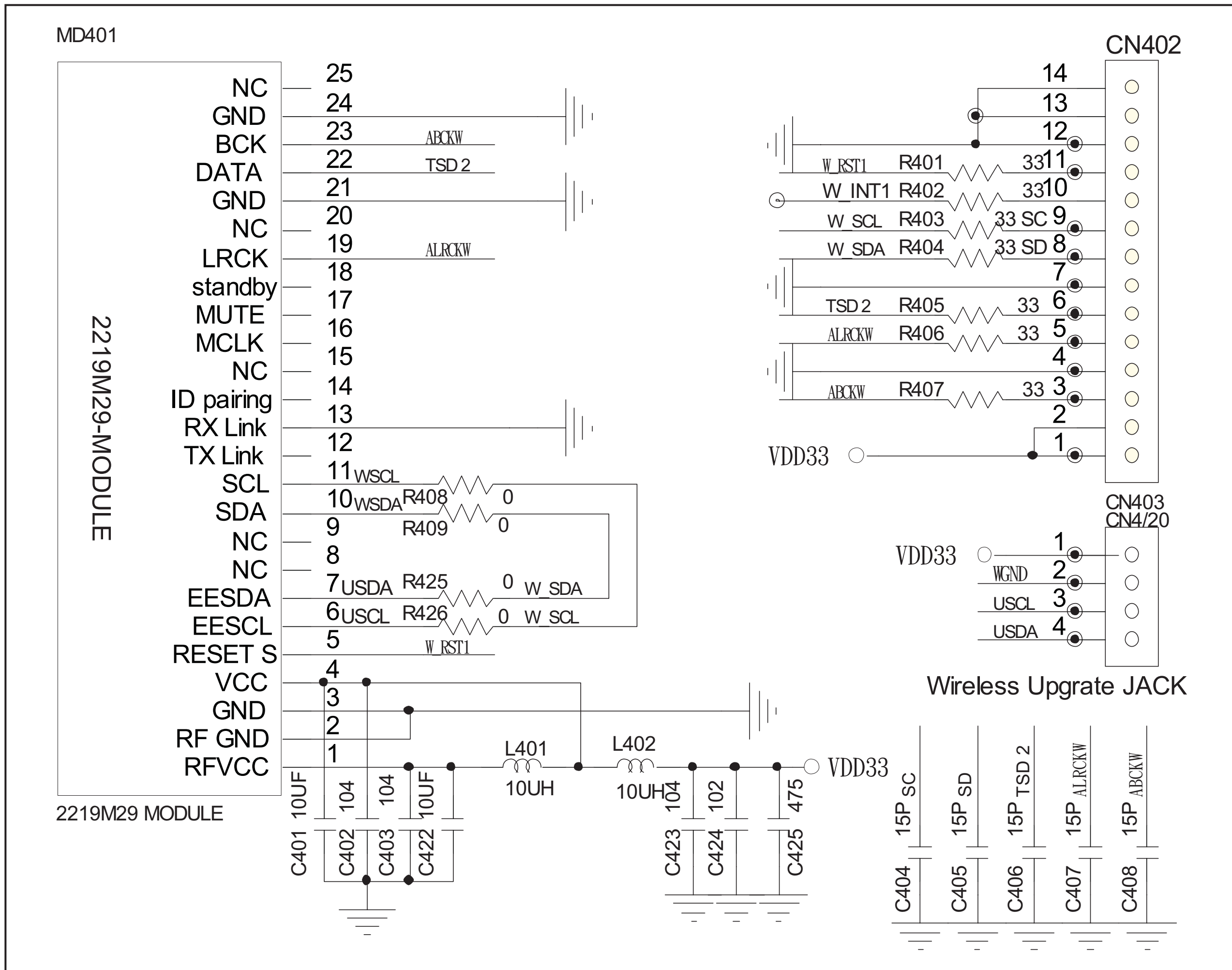


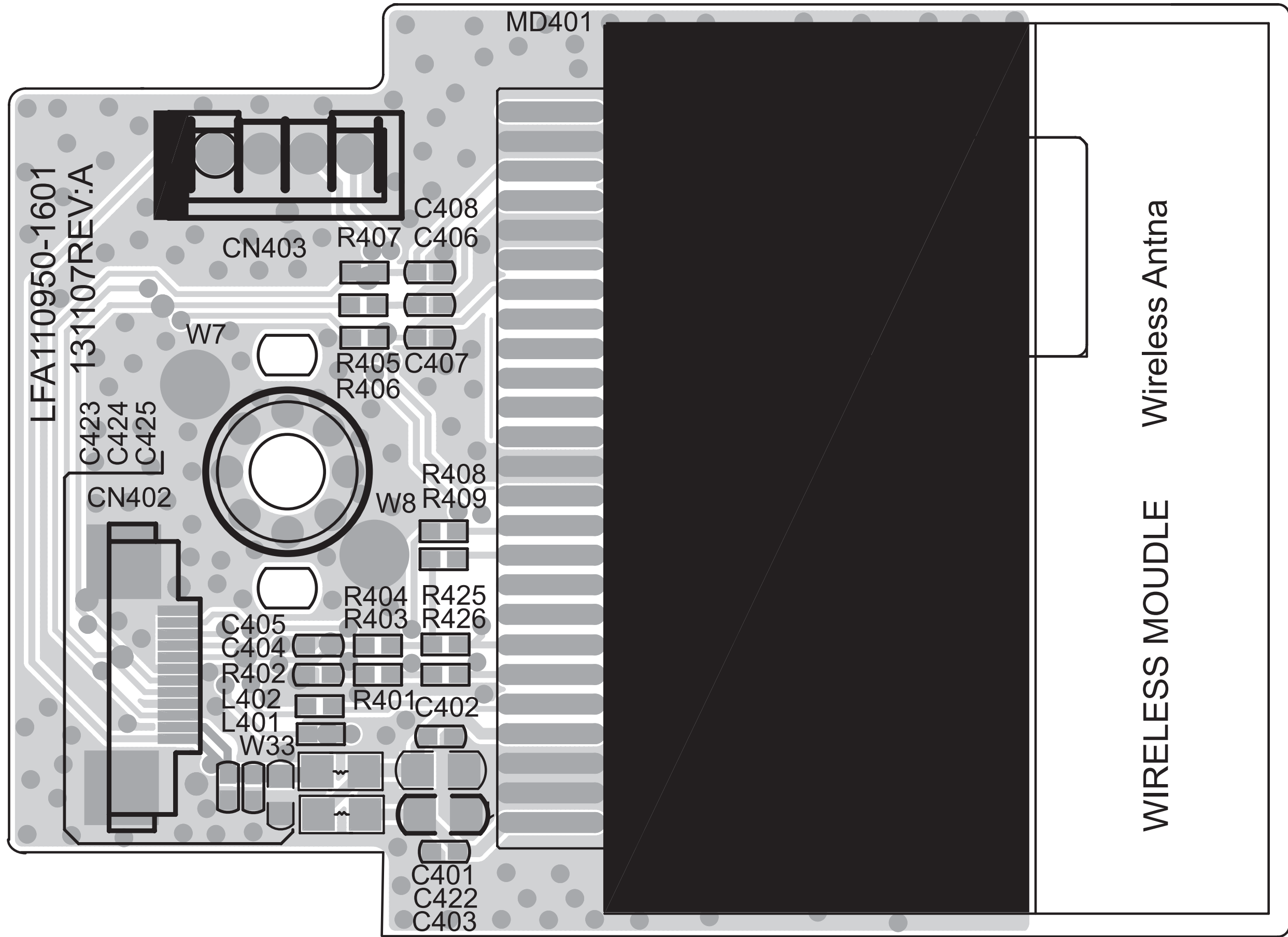


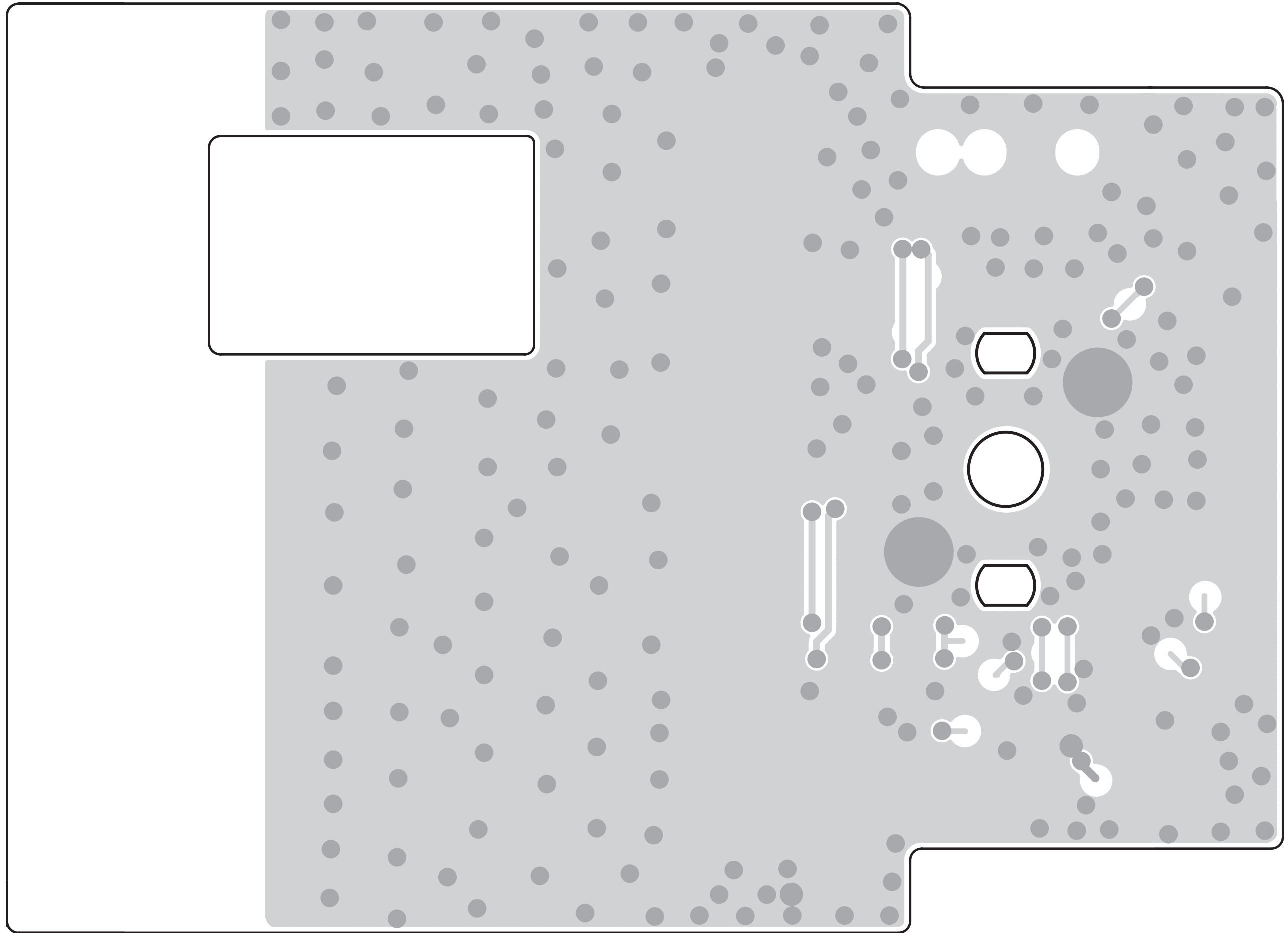
WIRELESS BOARD

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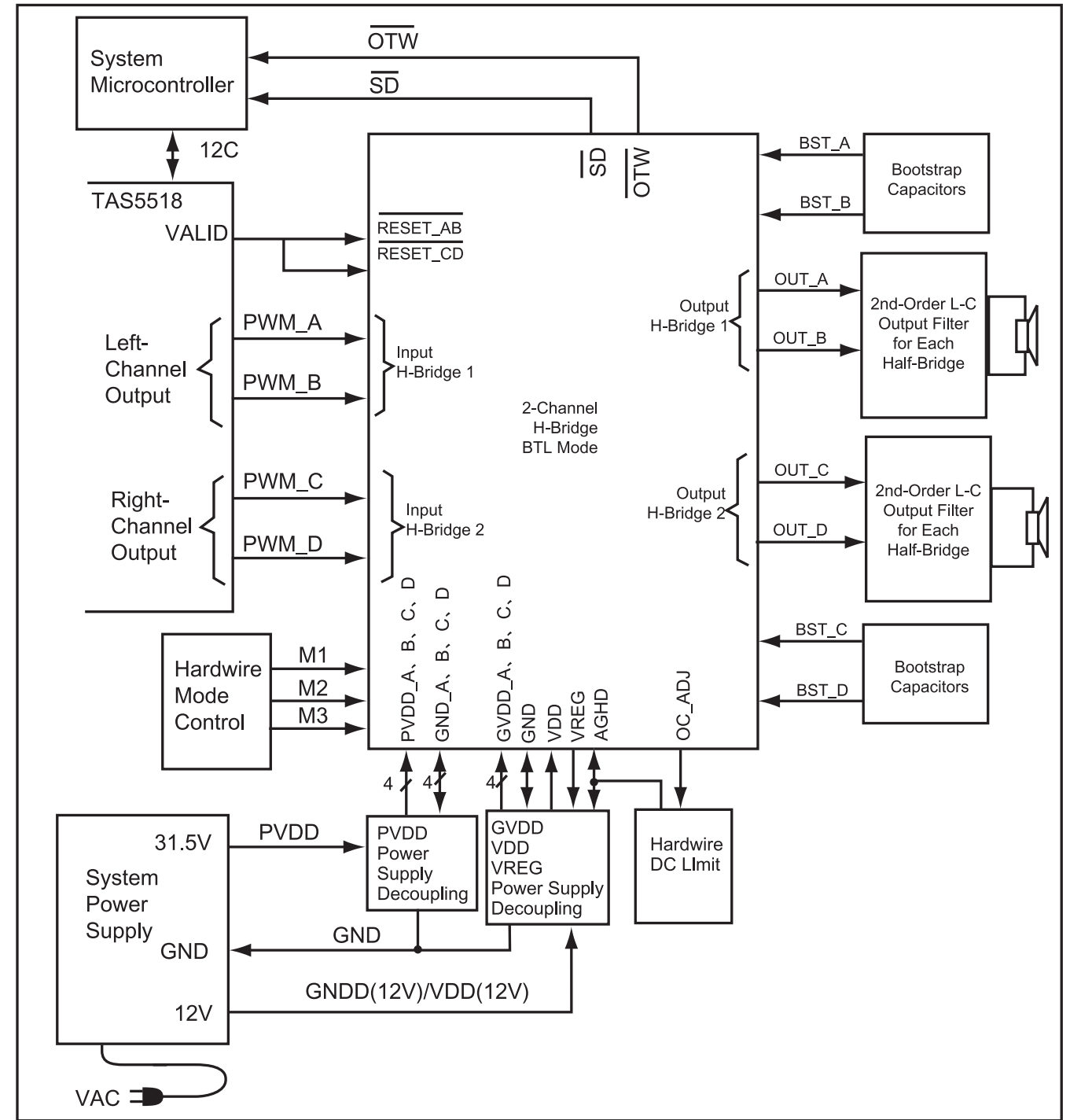


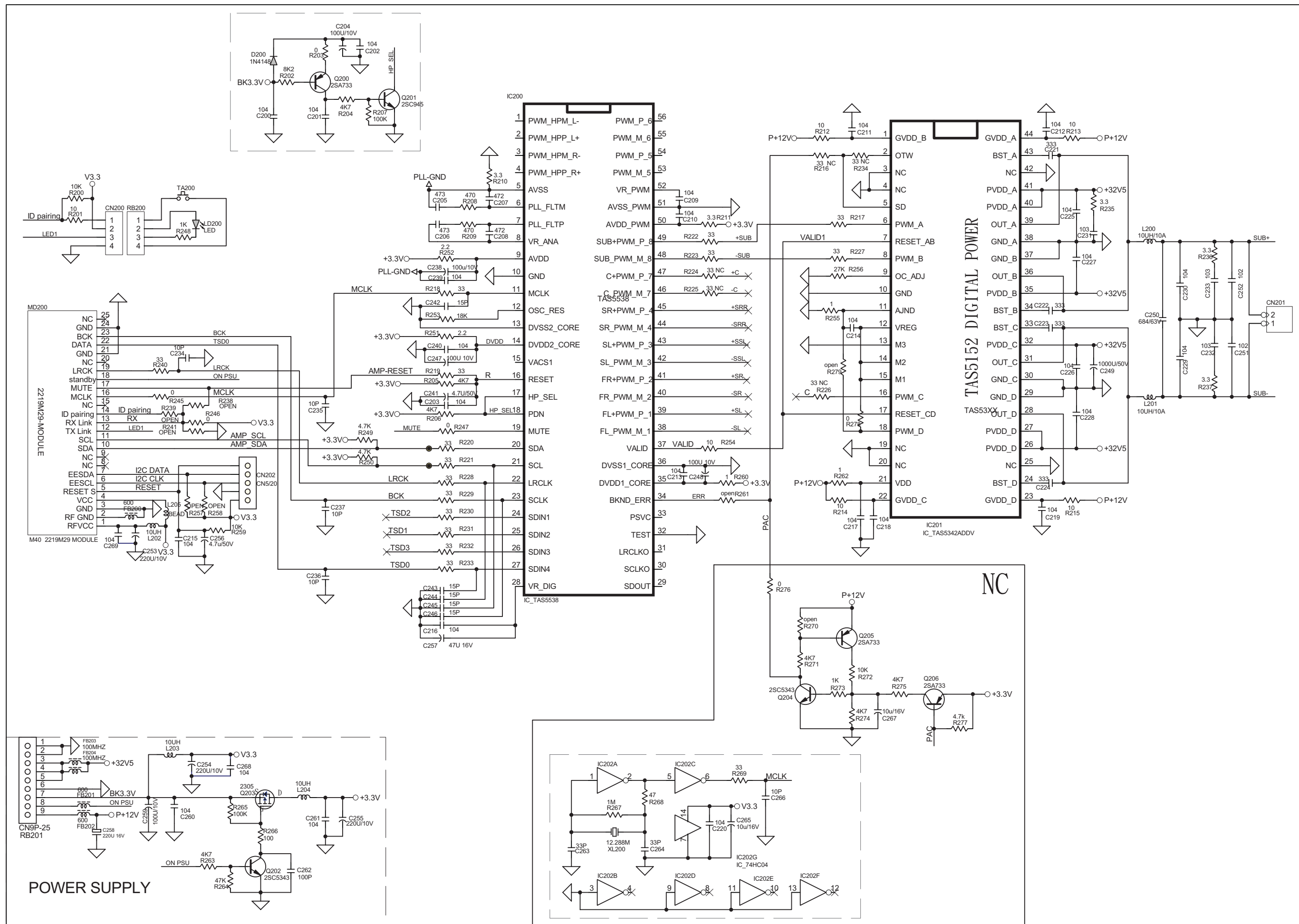


AMP & LED BOARD

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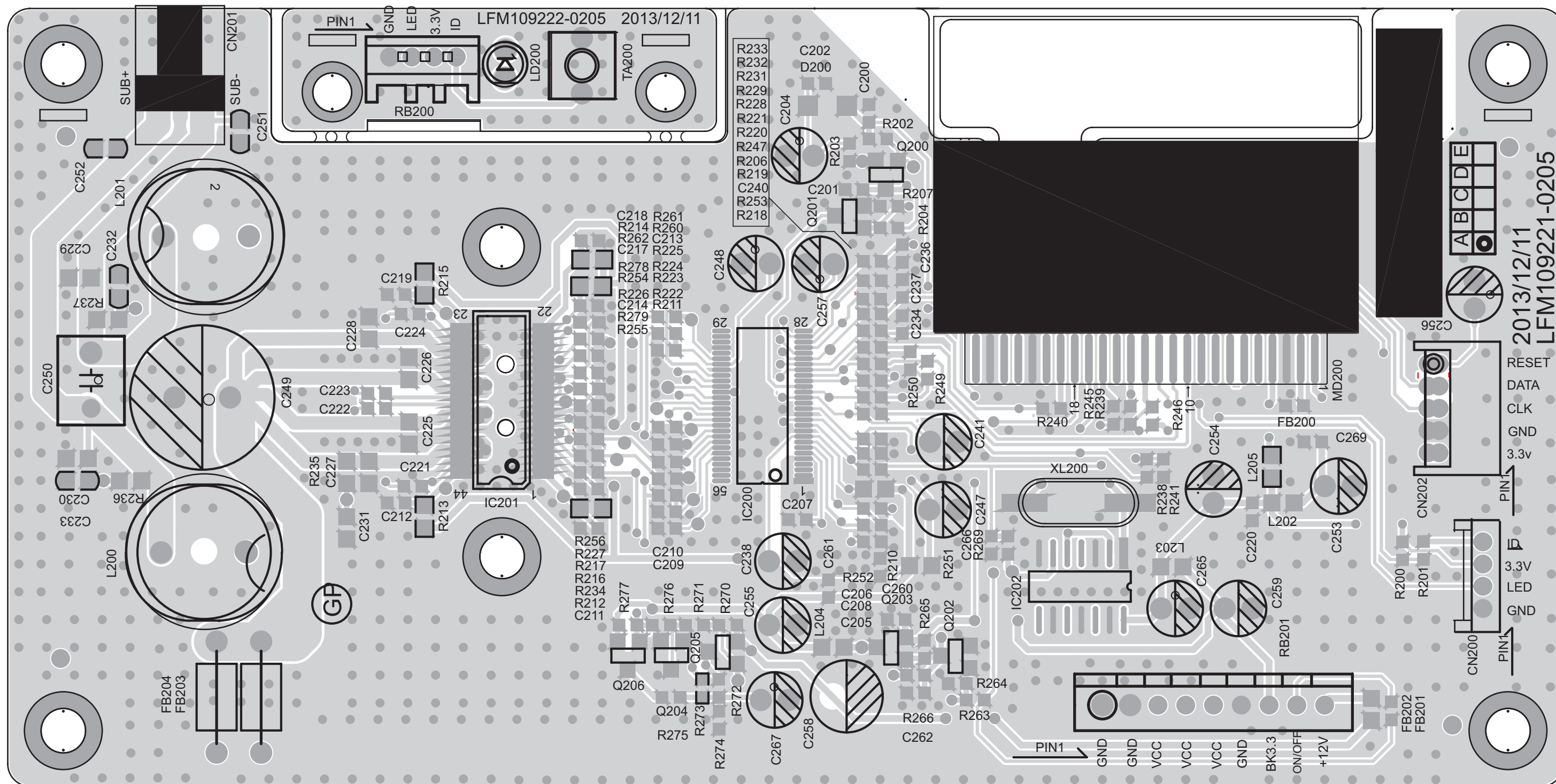
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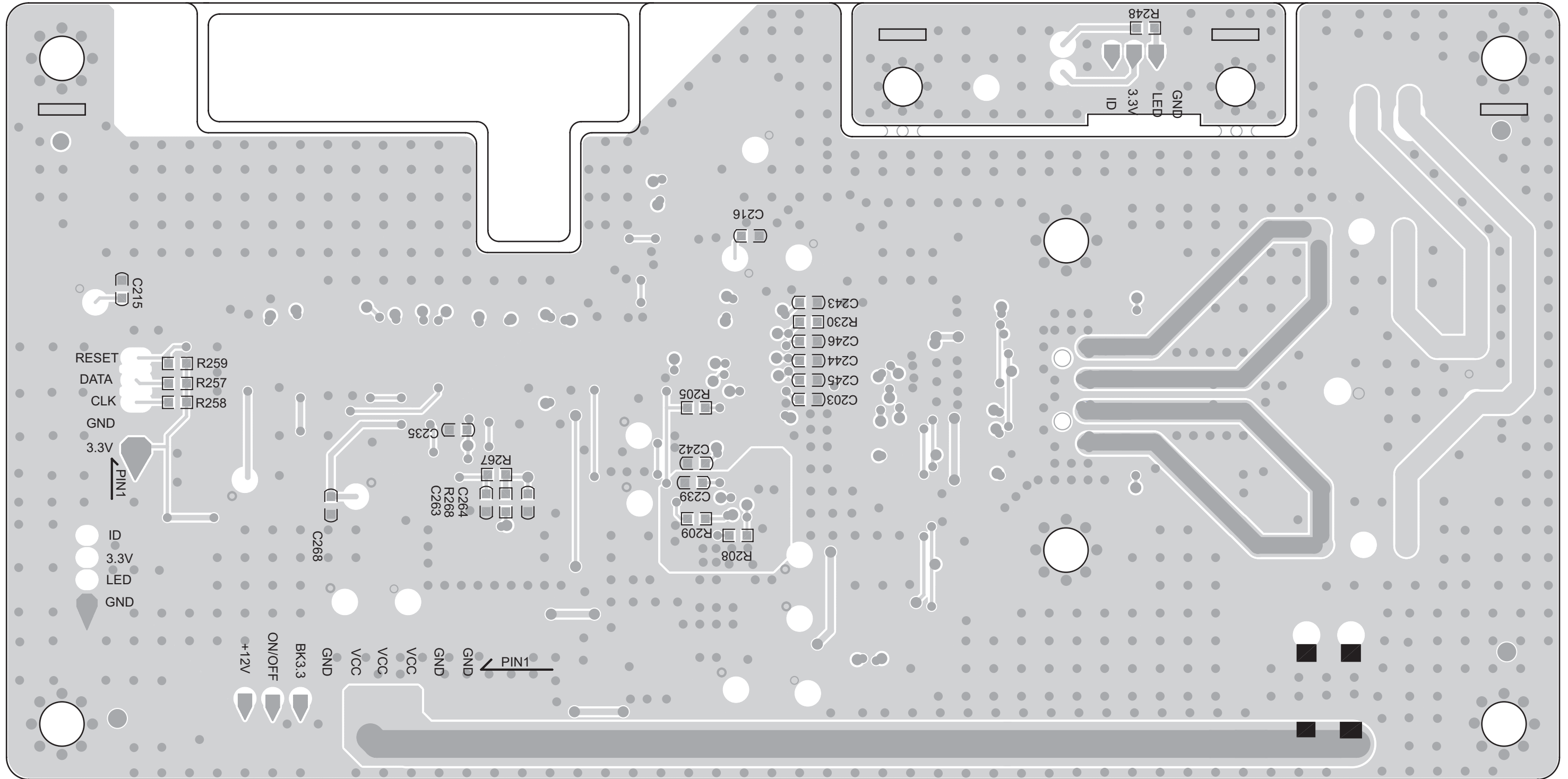


POWER SUPPLY

NC



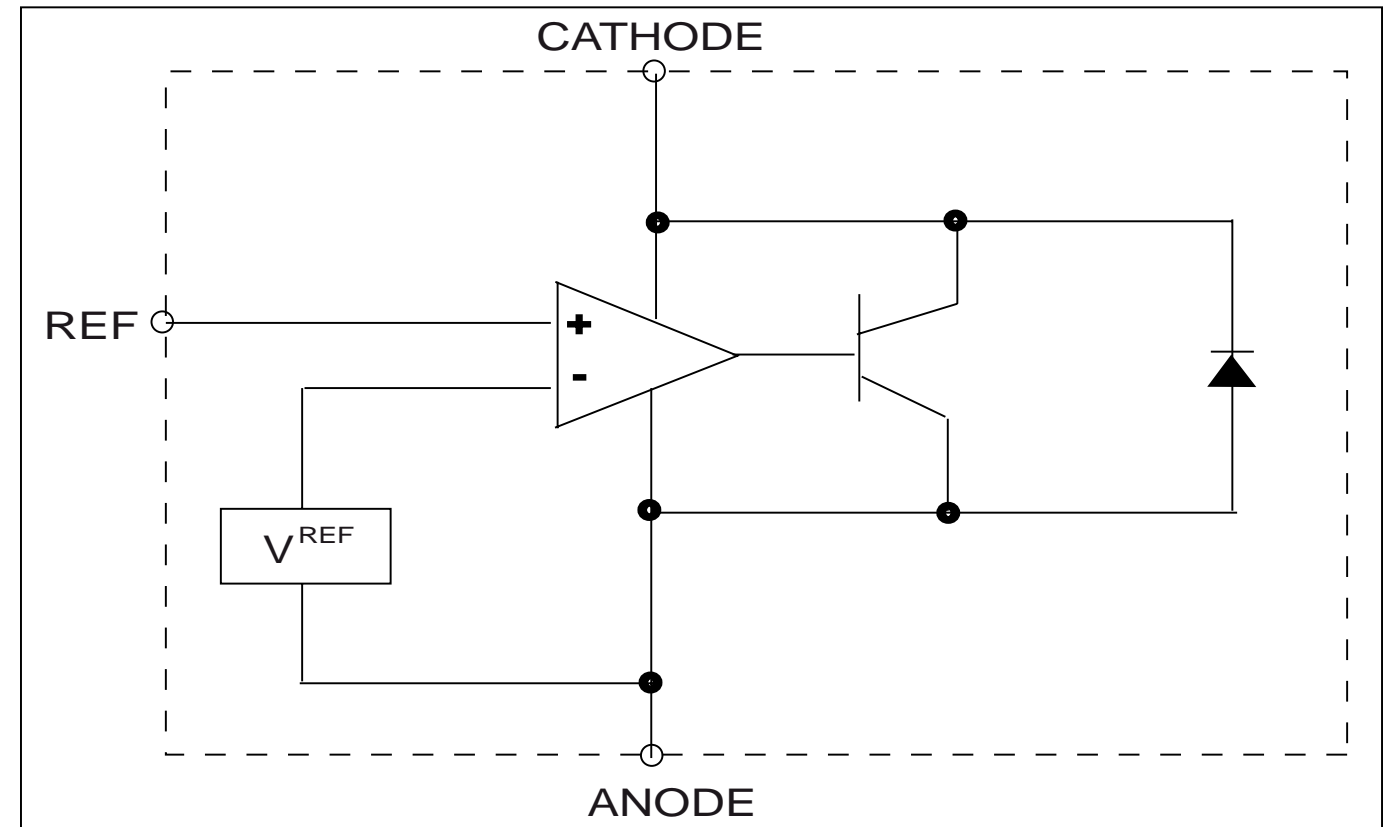
Component Layout_Bottom View

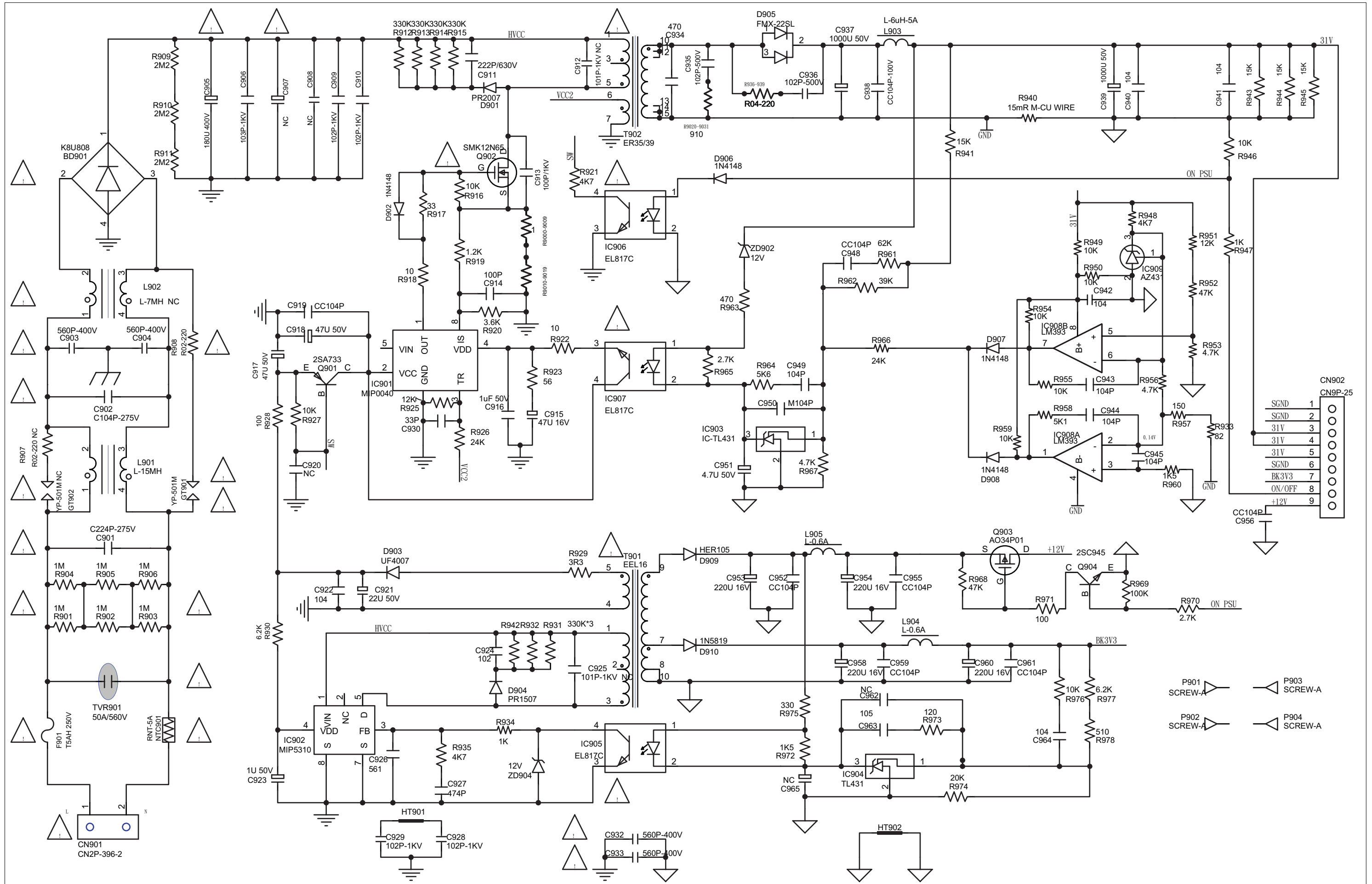


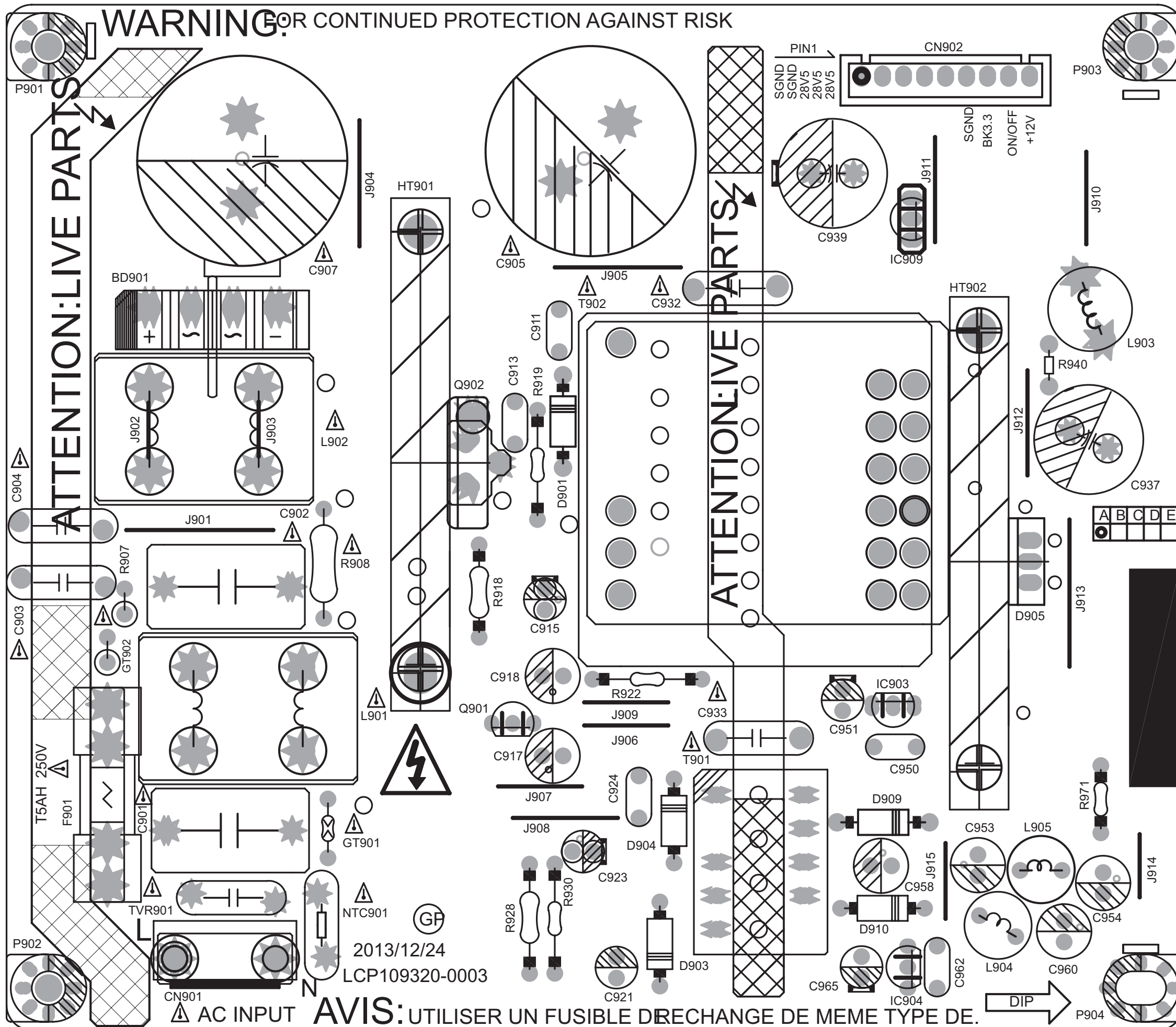
POWER BOARD

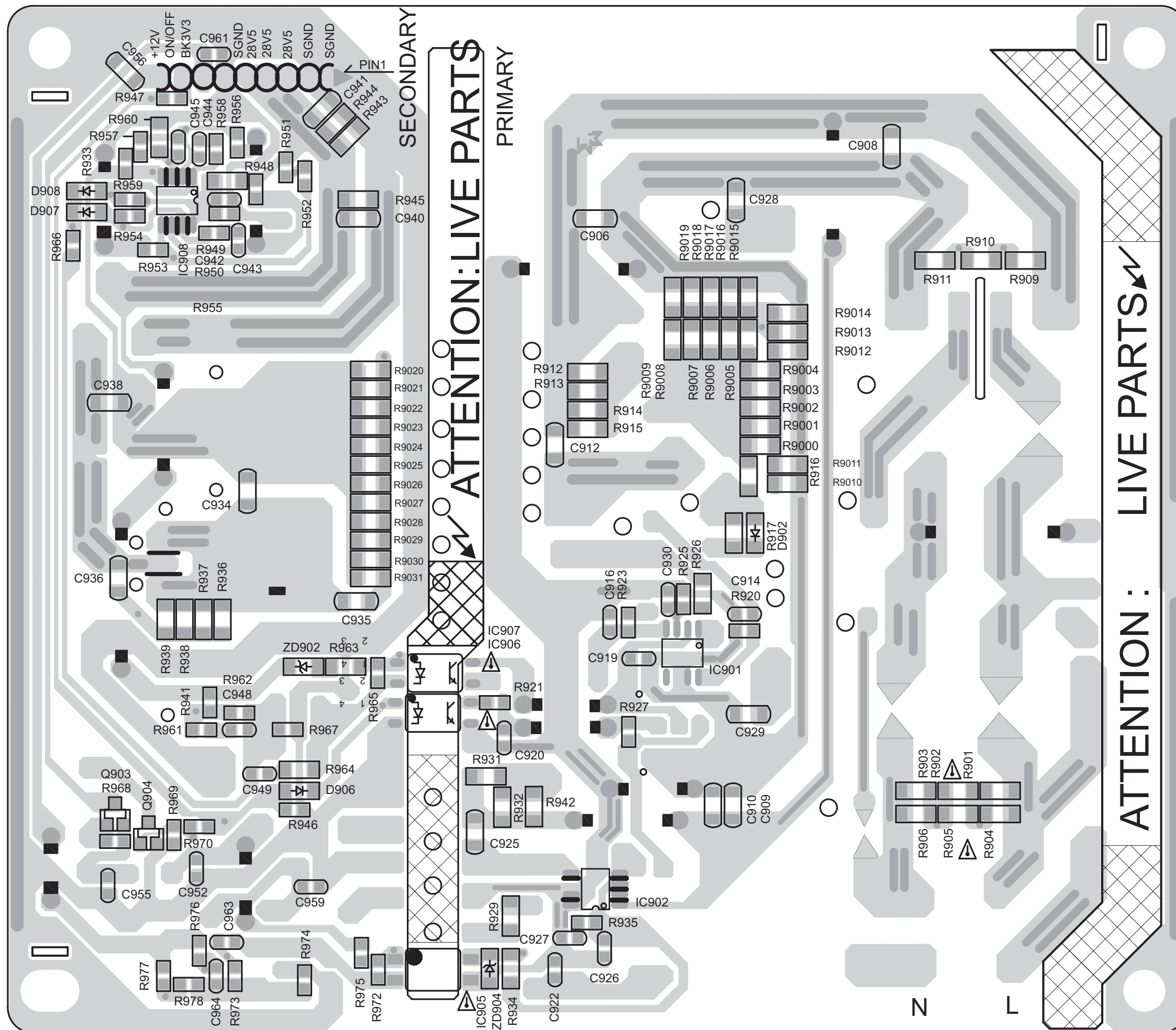
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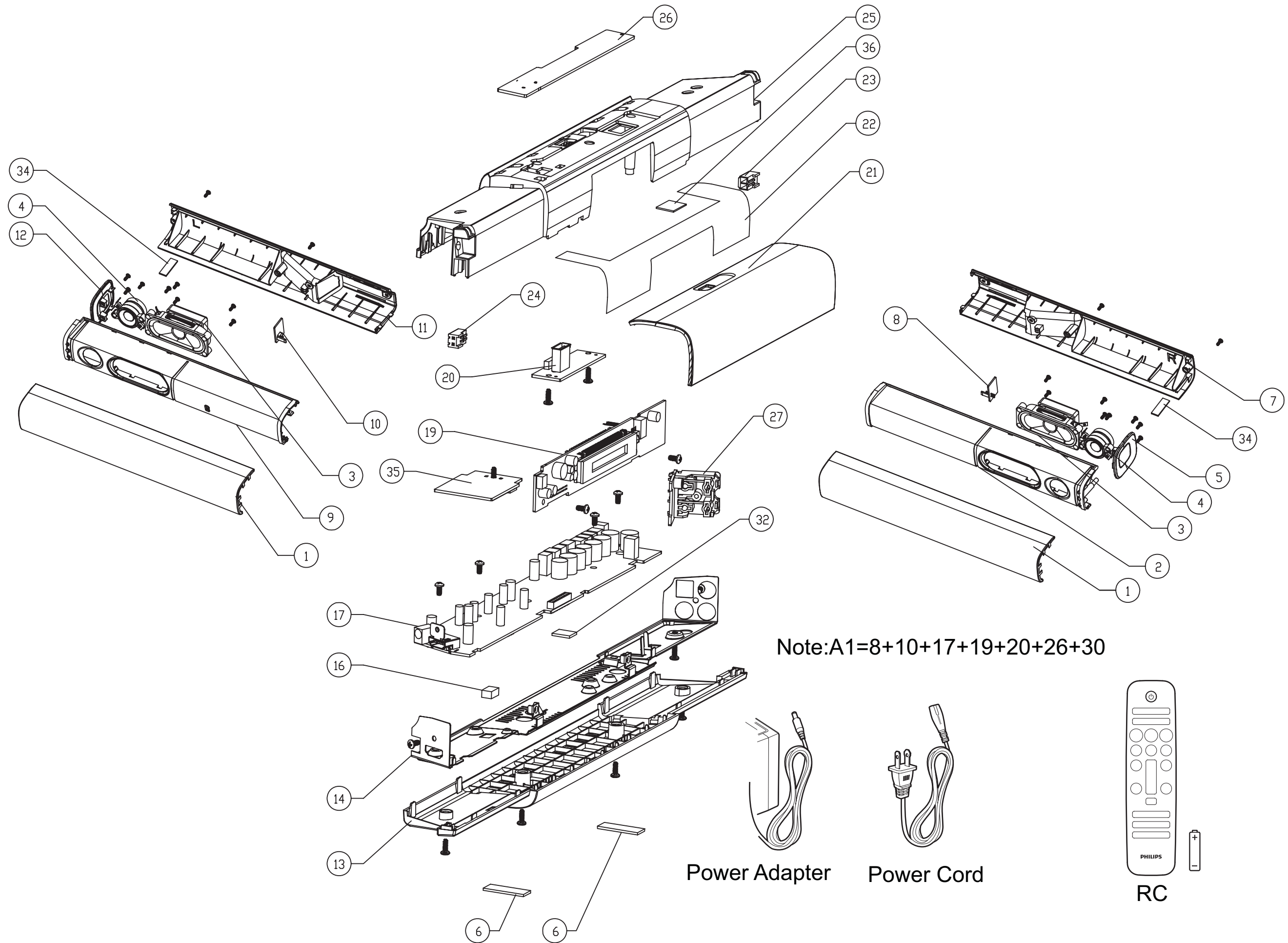
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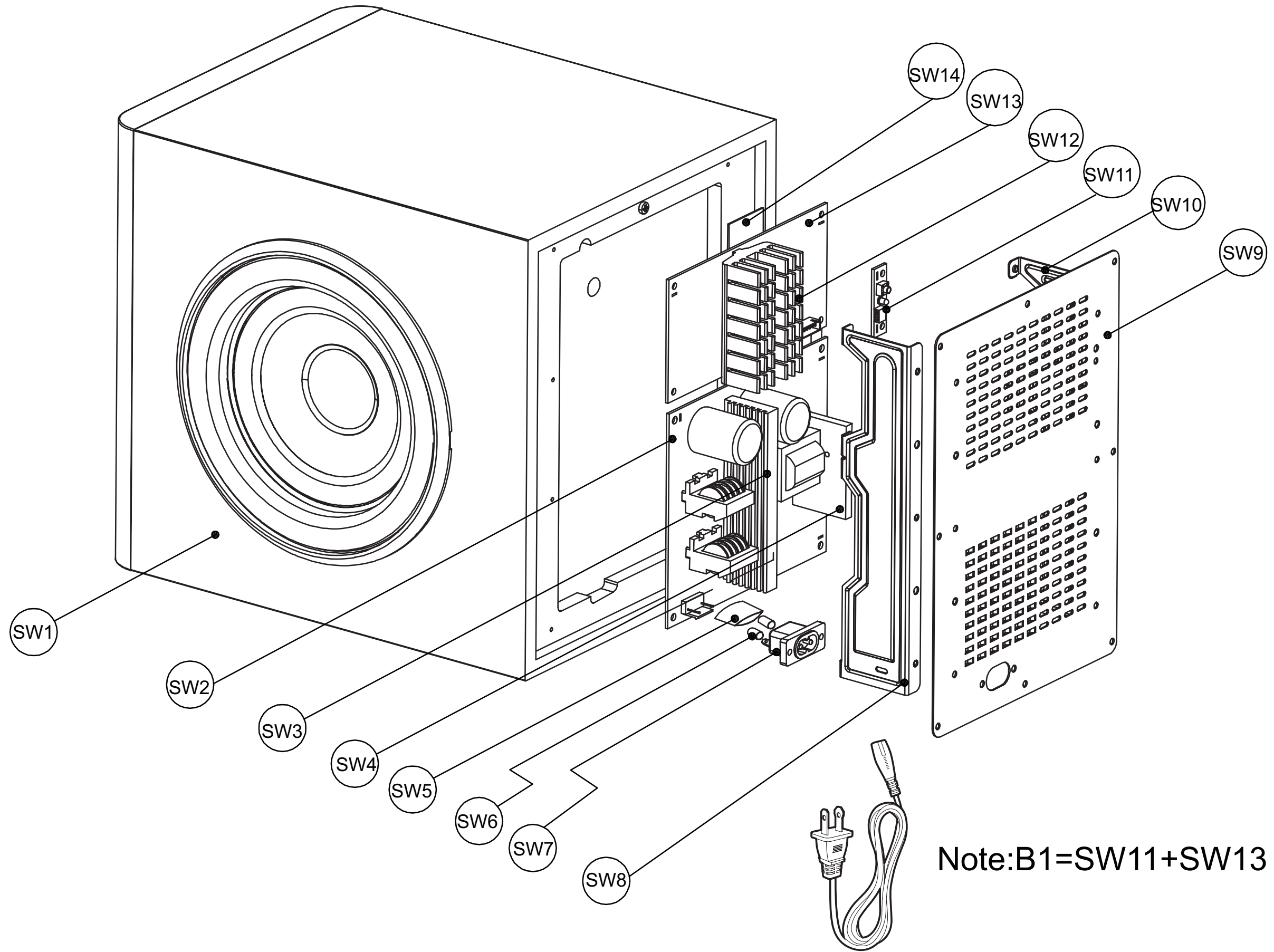












Note: B1=SW11+SW13

Power Cord

REVISION LIST

Version 1.0

*Initial release

Version 2.0

*Add HTL3140B/93 Version ,Add HTL3140S/12 Version

Version 3.0

Chapter 2 “check software version” has updated.

Version 4.0

Chapter 1 has updated,add reminder: VFD&BT PCB and NFC repaired.