

Service  
Service  
Service



# Service Manual

## TABLE OF CONTENTS

	Chapter
Technical Specification, PCBs Location.....	1
Safety Instruction .....	2
Instruction for Use.....	3
Mechanical and Dismantling Instructions.....	4
Service Modes, Troubleshooting.....	5
Overall Block Diagram, Wiring Diagram.....	6
Electrical Diagram.....	7
Exploded View Diagram & Service Part List.....	8
Revision List.....	9

**Caution:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

*Remark: The Service Manual only for S/N starting from GS1Axxxxxxxxx. For defective sets with S/N GS1Bxxxxxxxxx, please refer to Service Manual with code number 314178536661.*

© Copyright 2011 Philips Consumer Electronics B.V. Eindhoven, The Netherlands  
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

Published BG AVM ASD-CY Printed in The Netherlands Subject to modification

3141 785 36331

Version 1.1



# PHILIPS

## 1.1 Specifications

---

Specifications are subject to change without notice

### Playable media

- BD-Video
- DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL (Dual Layer)
- VCD/SVCD
- Audio CD, CD-R/CD-RW, MP3 media, WMA media, JPEG files
- DivX (Ultra)/DivX Plus HD media, MKV media
- USB storage device

### File format

- Video: .avi, .divx, .mp4, .mkv
- Audio: .mp3, .wma, .wav
- Picture: .jpg, .gif, .png

### Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (75 ohm)
- HDMI output 480p, 576p, 720p, 1080i, 1080p, 1080p24

### Audio

- 2 Channel analog output
  - Audio Front L&R : 2 Vrms (> 1 kohm)
- Digital output: 0.5 Vp-p (75 ohm)
  - Coaxial
- HDMI output
- Sampling frequency:
  - MP3: 32 kHz 44.1 kHz 48 kHz
  - WMA: 44.1 kHz 48 kHz
- Constant bit rate:
  - MP3: 112 kbps - 320 kbps
  - WMA: 48 kbps - 192 kbps

### USB

- Compatibility: Hi-Speed USB (2.0)
- Class support: USB Mass Storage Class (UMS)
- File system: FAT16, FAT32
- Support HDD (a portable hard drive disc): an external power source may be needed.

### Main unit

- Power supply rating: AC 110-120V $\bar{r}$ -50Hz 60Hz
- Power consumption: 18 W
- Power consumption in standby mode: < 1 W
- Dimensions (w x h x d): 435 X 41 X 195.5 (mm)
- Net Weight: 1.47 kg

### Accessories supplied

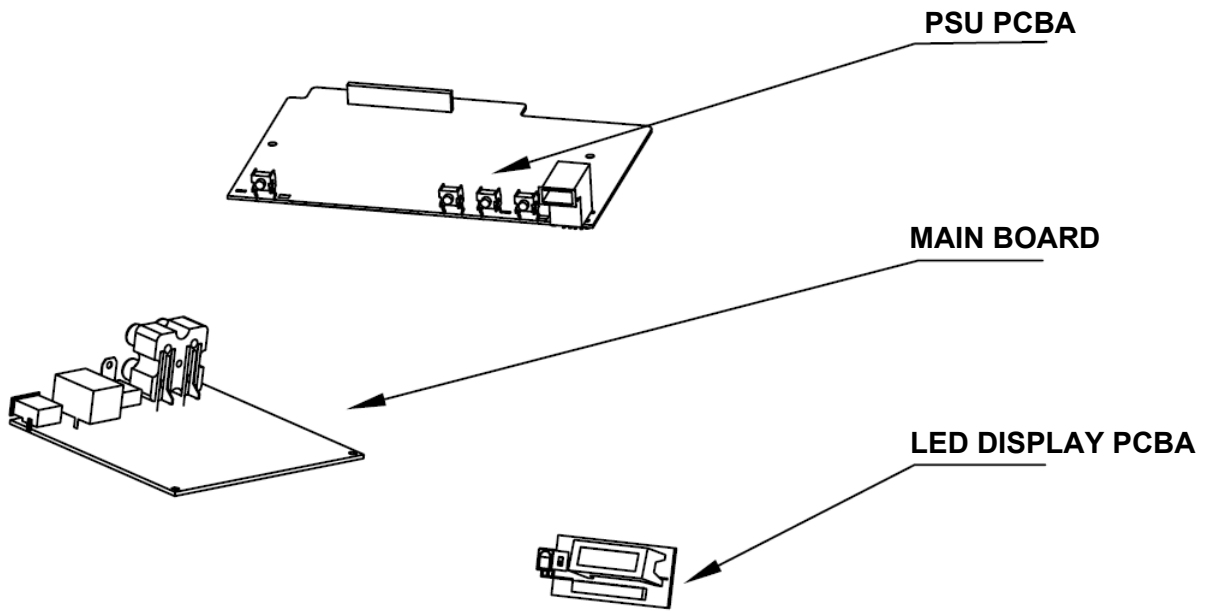
- Remote control and batteries
- User manual

### Laser Specification

- Laser Type (Diode): AlGaInN (BD), AlGaInP (DVD/CD)
- Wave length: 405+7nm/-7nm (BD), 655+10nm/-10nm (DVD), 790+10/-20nm (CD)
- Output power: 1mW (BD), 0.26mW (DVD), 0.3mW (CD)

1.1 PCBs Location

---



VERSION VARIATIONS

Type/Versions:		BDP3406					
Service policy		F7					
<b>Board in used:</b>							
<b>MAIN BOARD</b>		M					
<b>PSU PCBA</b>		M					
<b>LED DISPLAY PCBA</b>		M					

\*TIPS: C -- Component Lever Repair.  
 M -- Module Lever Repair  
 X -- OCX

## Software check and upgrade

### Preparation to upgrade software

- 1) Start the CD burning software & create a folder named "UPGAL
- 2) Then copy the Bin file (BDP3XXXXX-XXX-XXXXXX.bin) into it,
- 3) Burn the data onto the blank CD.

#### A. Procedure for software upgrade

##### A) Upgrade software via Disc

- 1) Power on the set and insert the prepared Upgrade CDR.
- 2) The set will start reading disc & response with the following display TV screen:  
Now searching for upgrade software!  
Please wait...!
- 3) Then screen will display :  
software upgrades for this player has been found! Do you want to upgrade?  
  

Cancel	Start
--------	-------
- 4) Press Right cursor button to choose "Start", then press <OK>;
- 5) The software will upgrade and screen will display as below:  
Upgrade is ongoing, Please wait...  
Please do not unplug or switch off the device.
- 6) Restart the set.

##### B) Update software via USB Flash Drive:

- 1) Go to [www.philips.com/support](http://www.philips.com/support) to check if the latest software version is available for this player.
- 2) Download the software onto a USB flash drive's root DIR named "UPGAL
- 3) Insert the USB flash drive to the USB jack of the rear panel.
- 4) In the Home menu, select <Setup>-<Advanced>-<Software update>-<USB>.
- 5) Then press OK
- 6) You'll see now searching for new software, please wait.....
- 7) Waiting, you'll see "software for this player has been found ....."
- 8) Then select "Start" and press "OK"
- 9) Then you'll see "upgrade is ongoing .....", wait until it ends.
- 10) Player will restart automatically or press "Restart now" to restart, after restarting the upgrade ends.

#### B. Read out the software versions to confirm upgrading

- 4) In homemenu, enter "setup"->"advanced"->"version info", press "OK"

and other information will display on the TV screen as below:

```
Model:XXX.XXX
Versions
subinfo:xxxx
system SW:xxxx
ethernet MAC:xxxxxxxx
http://www.philips.com/support
```

Caution: The set must not be power off during upgrading, otherwise the Main board will be damaged entirely.

## 2.0 Safety instruction

---

### 1. General safety

Safety regulations require that during a repair:

. Connect the unit to the mains via an isolation transformer.

. Replace safety components indicated by the symbol

Only by components identical to the original ones.

Any

Other component substitution (other than original type)

May increase risk of fire or electrical shock hazard.

Safety regulations require that after a repair, you must

Return the unit in its original condition. Pay, in particular,

Attention to the following points:

. Route the wires/cables correctly, and fix them with the

mounted cable clamps

. Check the insulation of the mains lead for external

Damage

. Check the electrical DC resistance between the mains

Plug and the secondary side:

1) Unplug the mains cord, and connect a wire between

The two pins of the mains plug.

2) Set the mains switch the "on" position (keep the

Mains cord unplug).

3) Measure the resistance value between the mains

plug and the front panel, controls, and chassis bottom.

4) Repair or correct unit when the resistance measurement is less than 1M  $\Omega$

5) Verify this, before you return the unit to the customer/user (ref. UL-standard no. 1492).

6) Switch the unit "off", and remove the wire between

the two pins of the mains plug.

### 2. Laser safety

This unit employs a laser. Only qualified service personnel

May remove the cover, or attempt to service this device

(due to possible eye injury).

Laser device unit

Type :Semiconductor laser GaAlAs

Wavelength :650nm (DVD)

:780nm (VCD/CD)

Output power :7mW(DVD)

:10mW(DVD/CD)

Beam divergence:60 degree

Note: Use of controls or adjustments or performance of procedure other than those specified herein, may result in hazardous radiation exposure. Avoid direct exposure to beam.

### 3.0 Instruction for Use

---

You can download this information from the following websites:

<http://www.philips.com/support>

<http://www.p4c.philips.com>

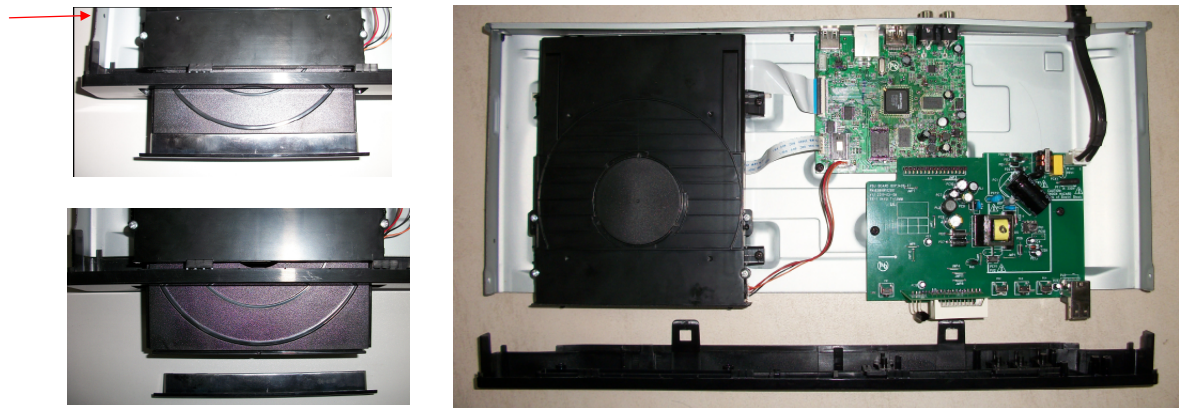
## 4.0 MECHANICAL AND DISMANTLING INSTRUCTIONS

The following guidelines show how to dismantle the player.

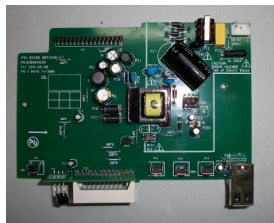
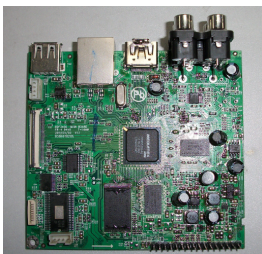
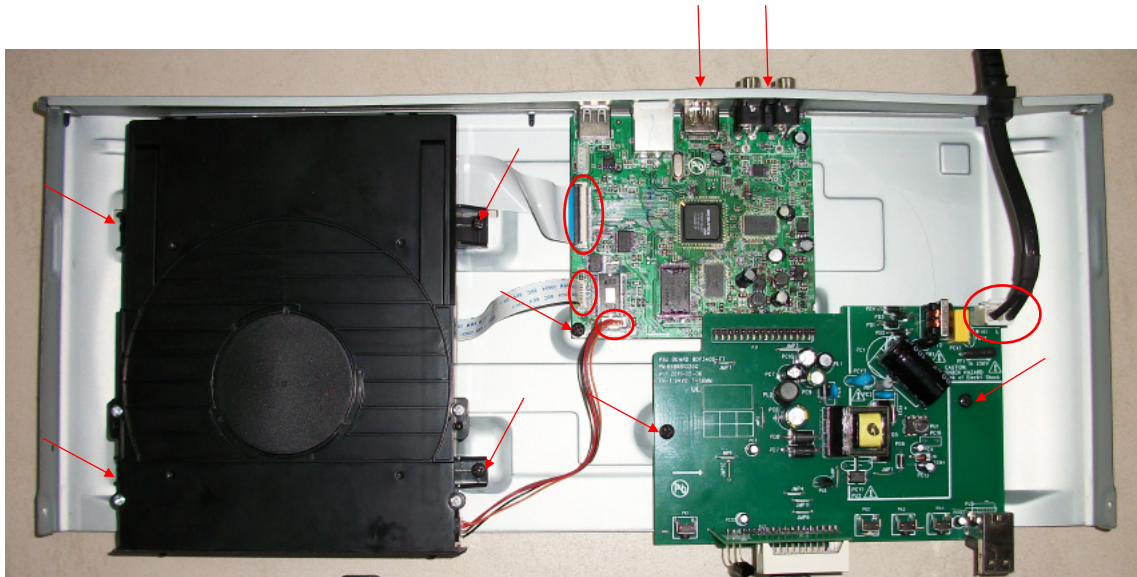
Step1: Remove 4 screws around the Top Cover, and then remove the Top Cover

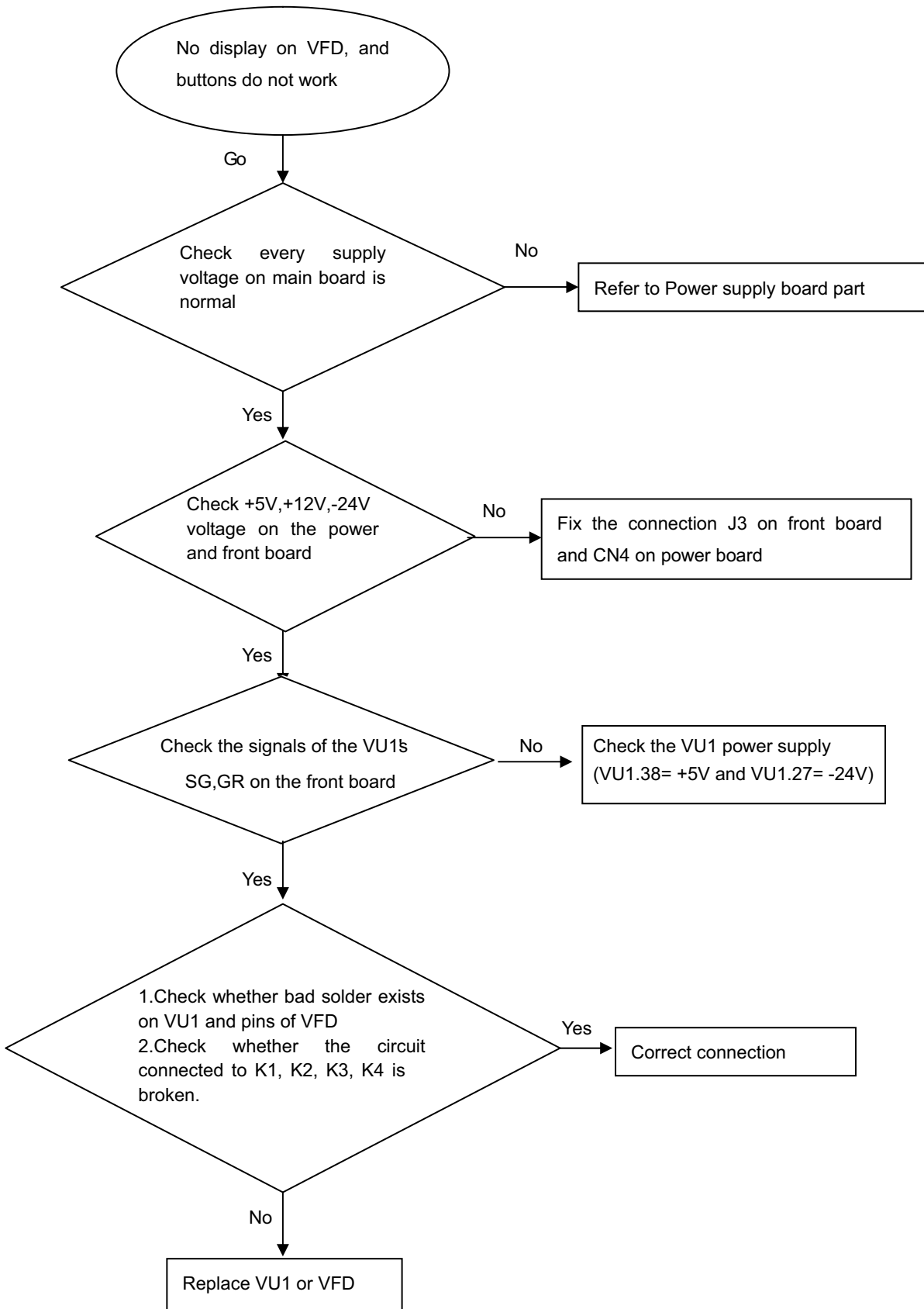


Step2: Dismantling Front Panel, the CD door should be removed first, then gently pull the Panel out from the set.  
use an acute press the reset hole to release the disc tray; remove the door from the tray;  
PS: insert reset hole once the disc tray jammed

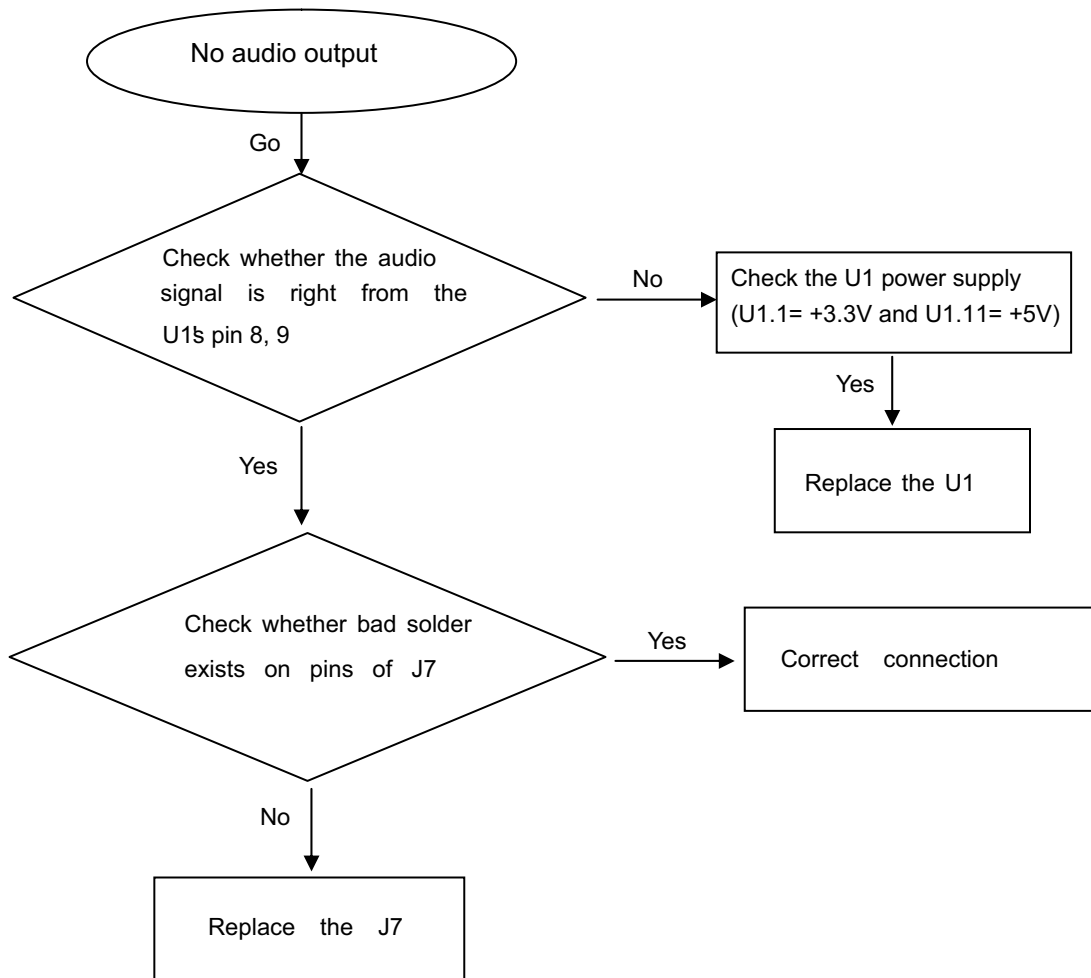


Step3: Remove the 9 screws on board to dismantle the DVD BOARD & PSU BOARD & DECK

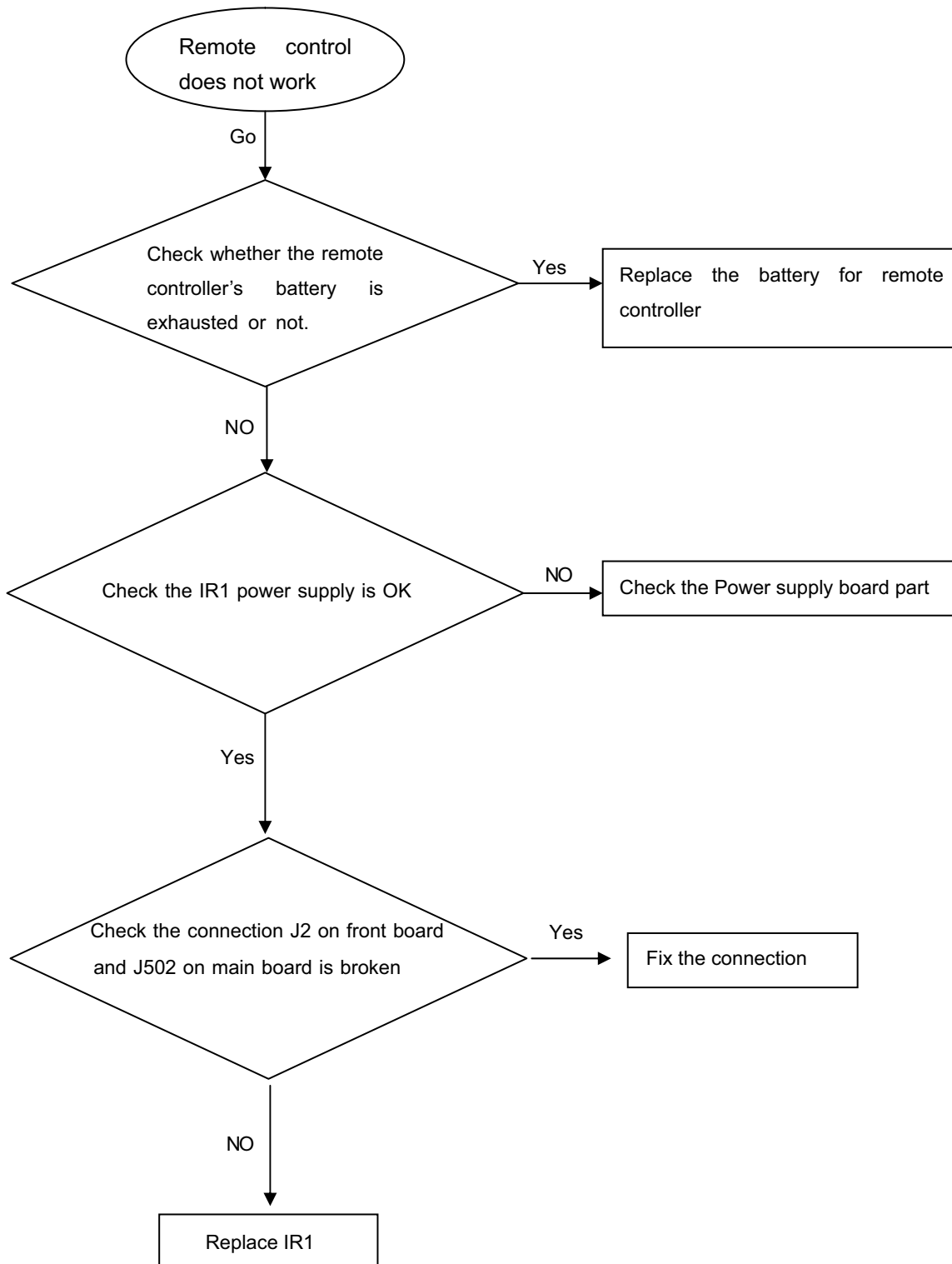


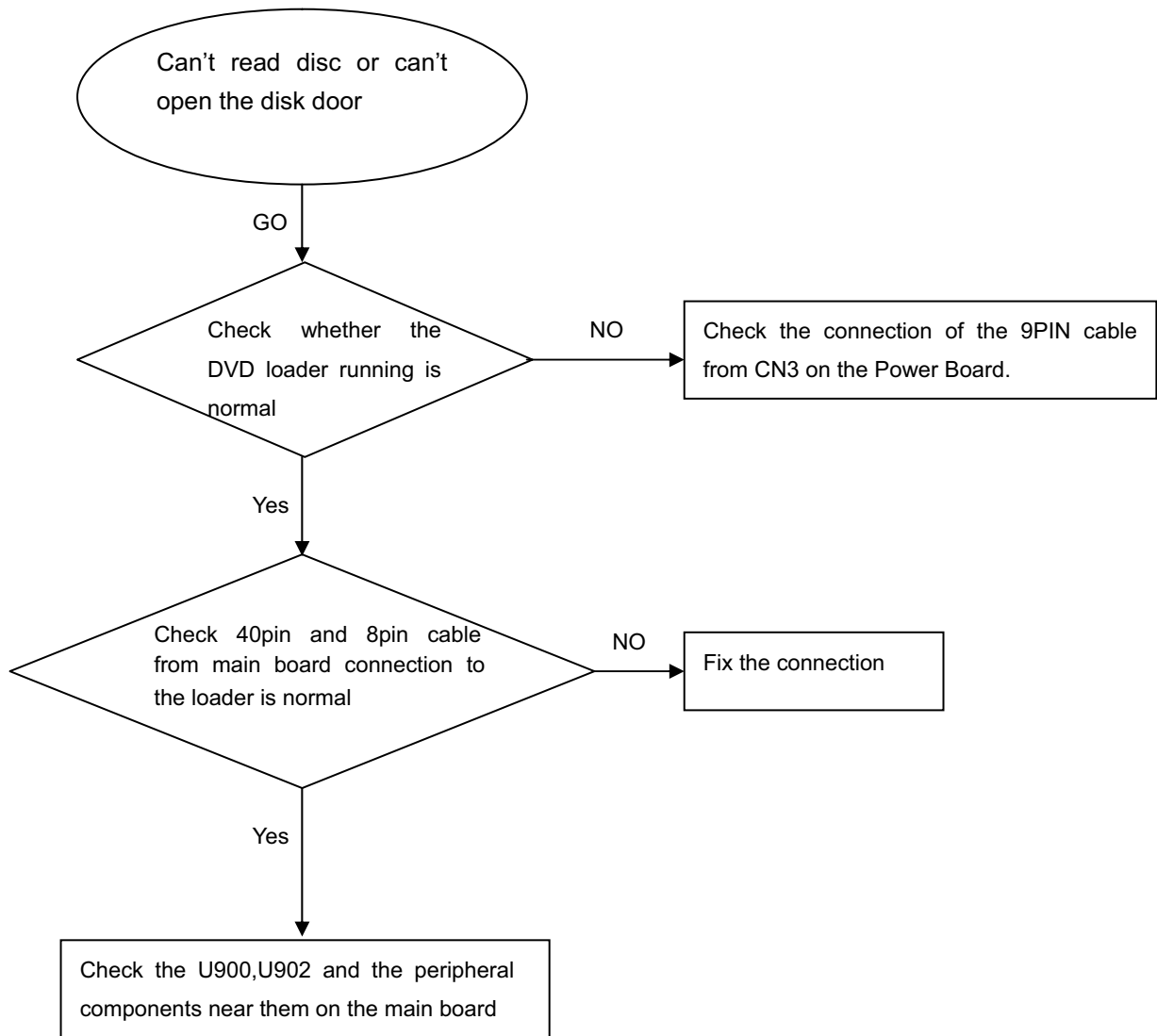
**No display on VFD, and buttons do not work**



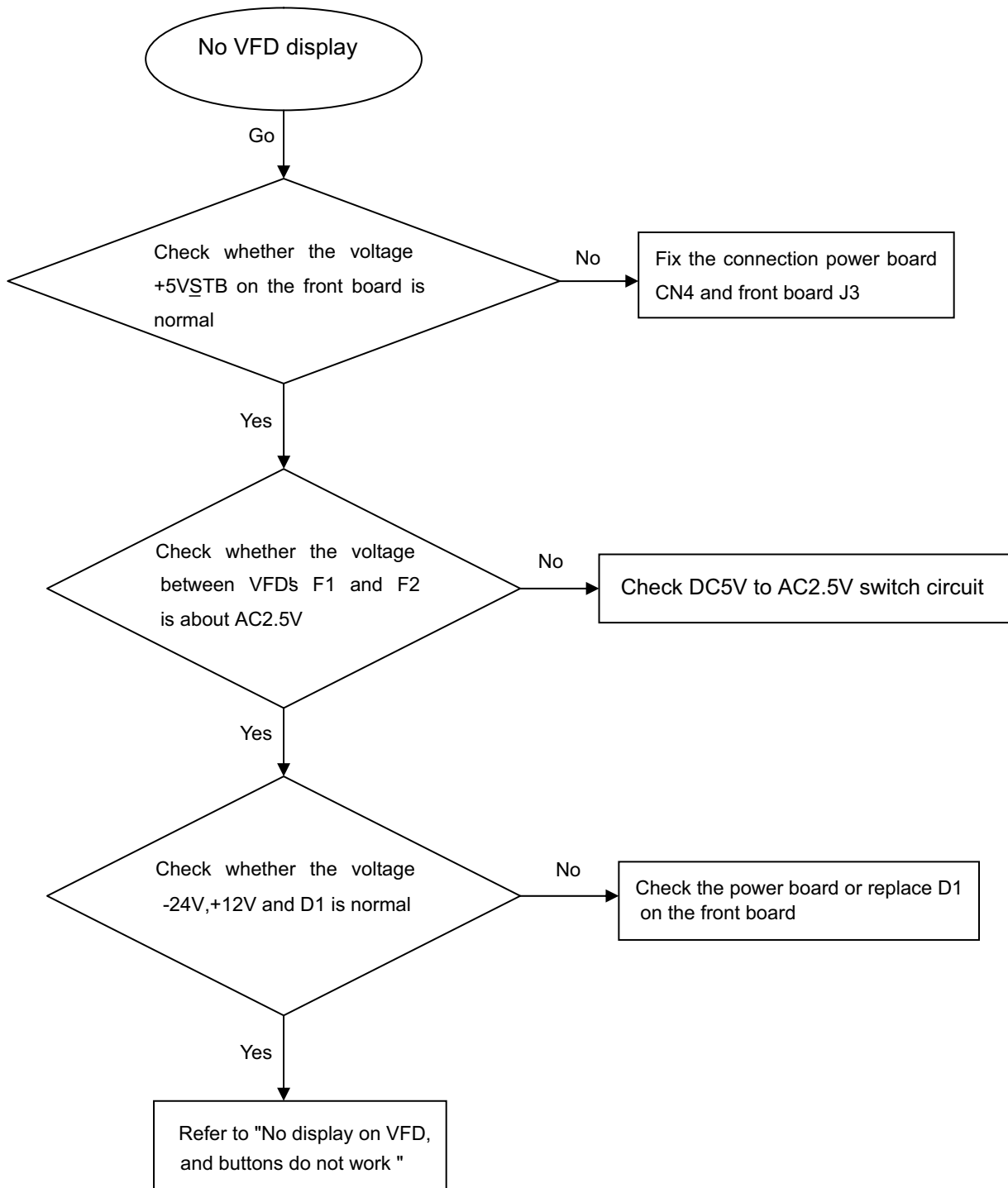
**No audio output**

## Remote control does not work

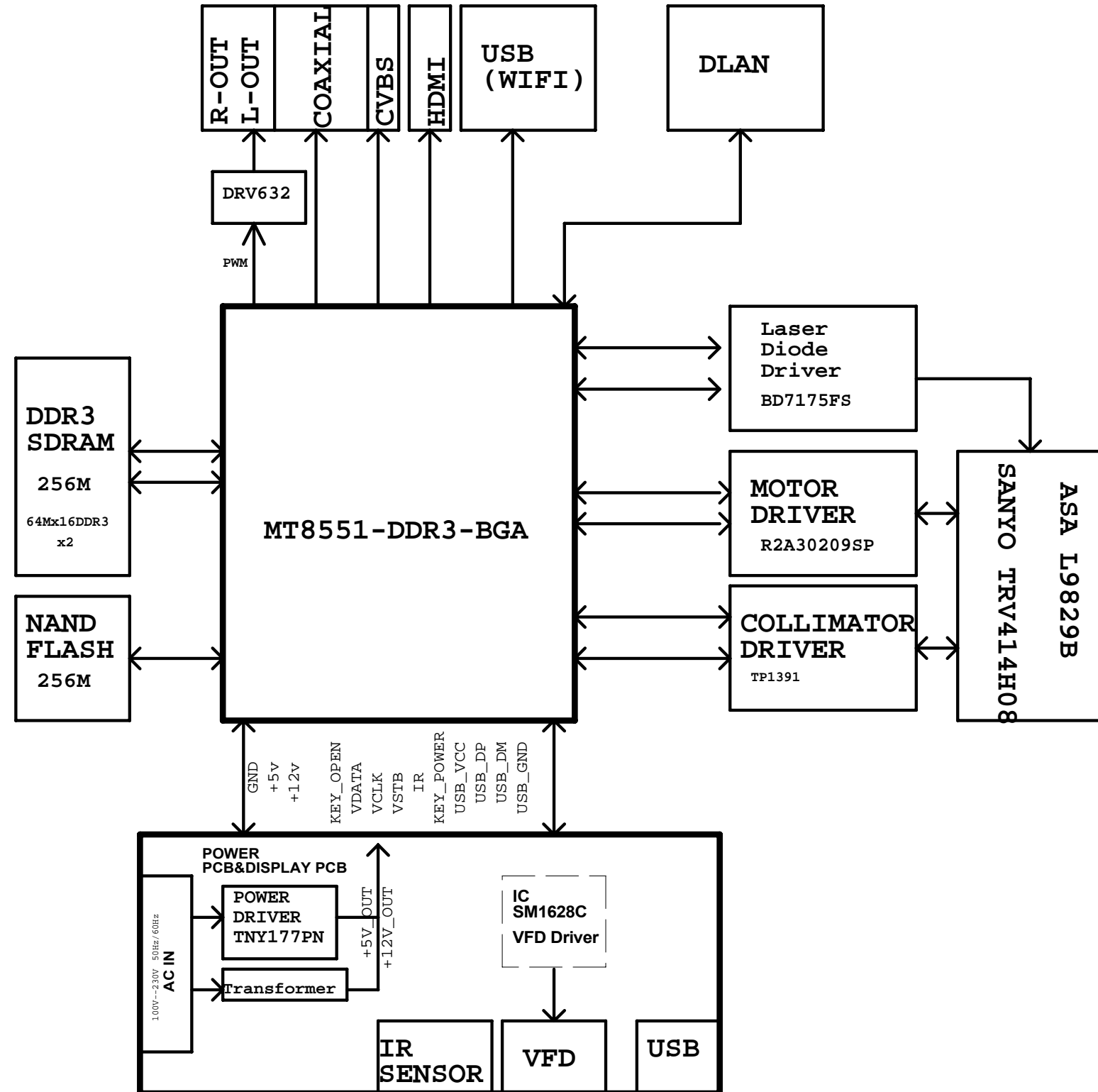


**Can't read disc or can't open the disk door**

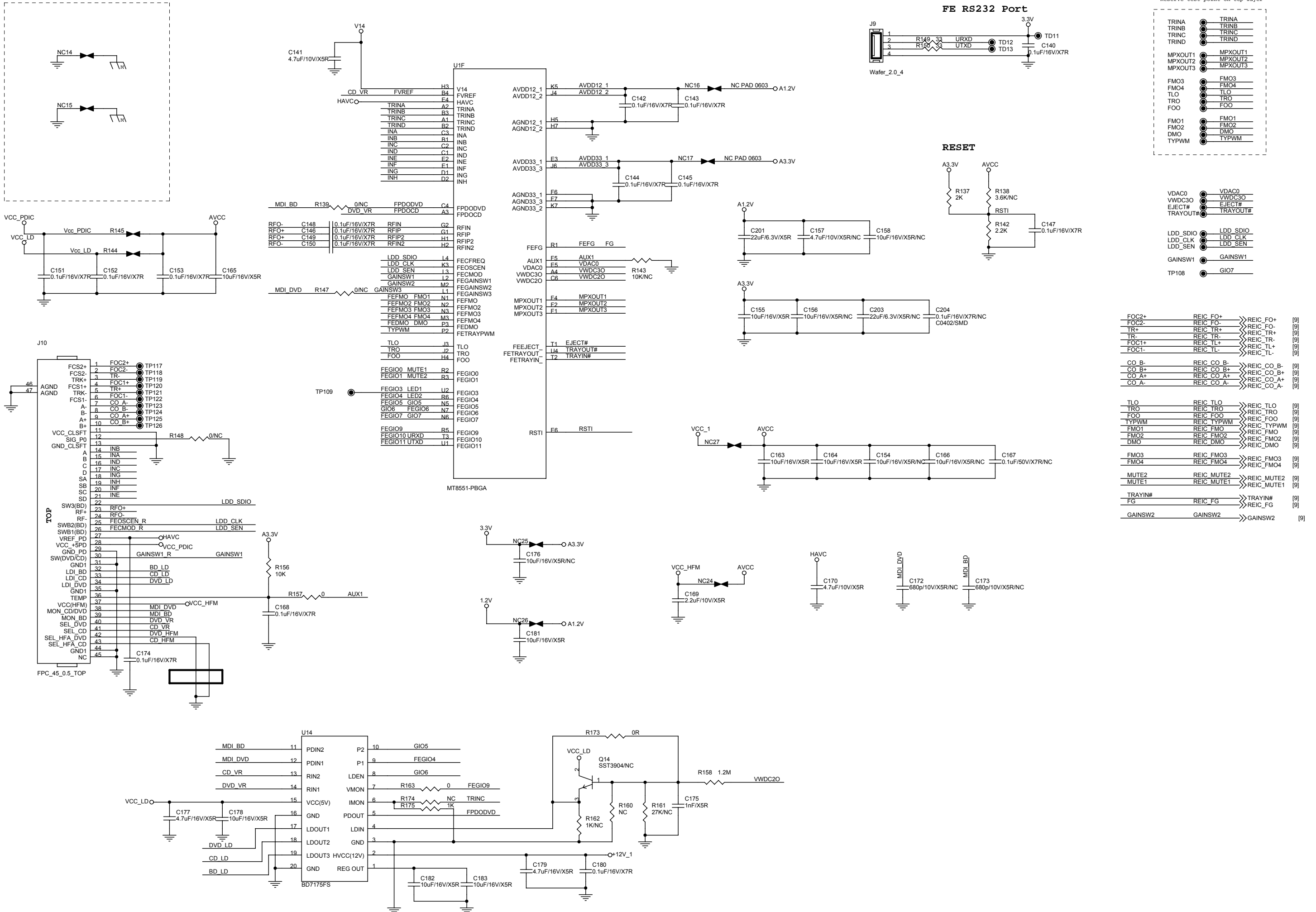
## No VFD display



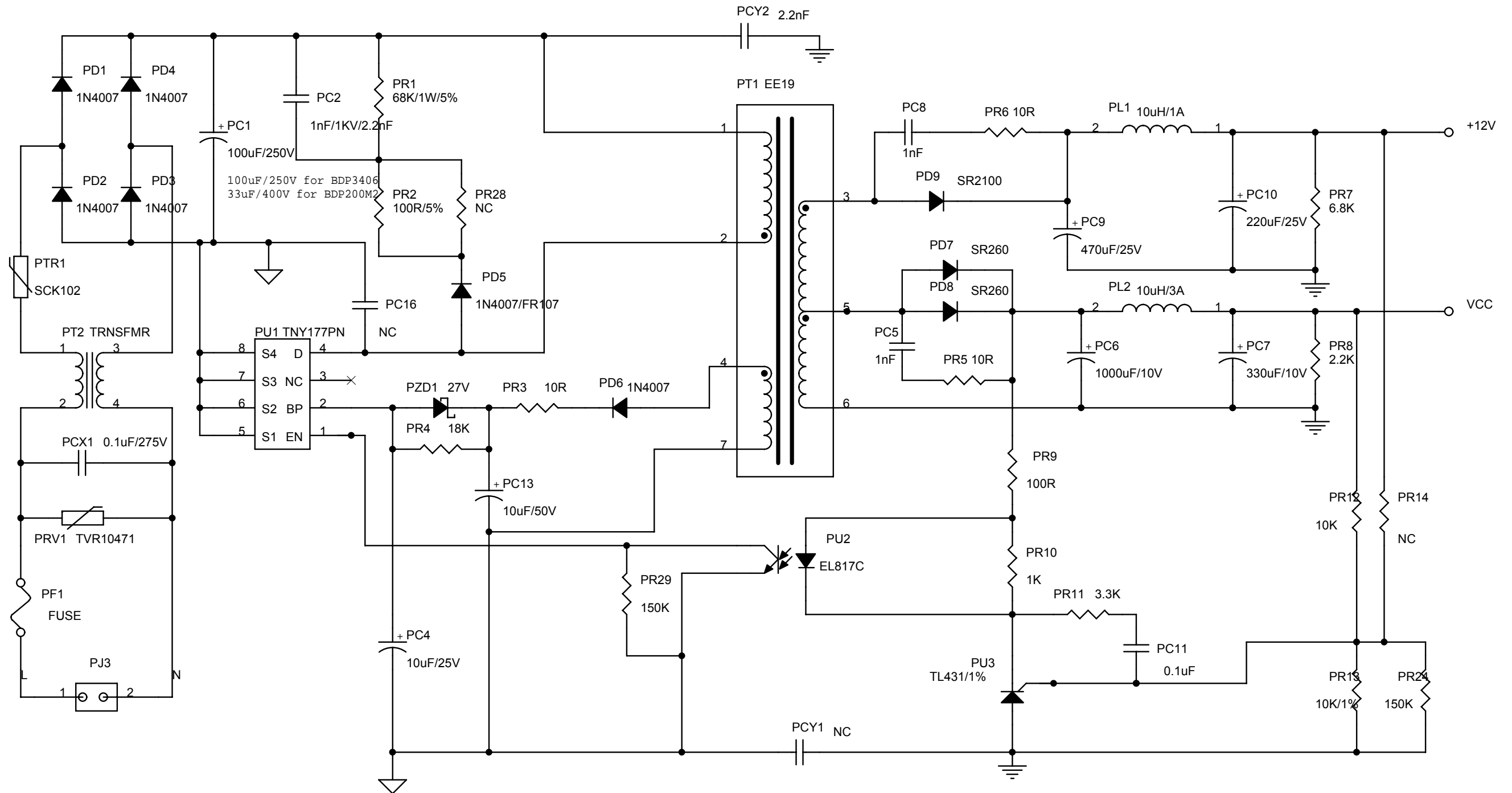
OVERALL BLOCK DIAGRAM

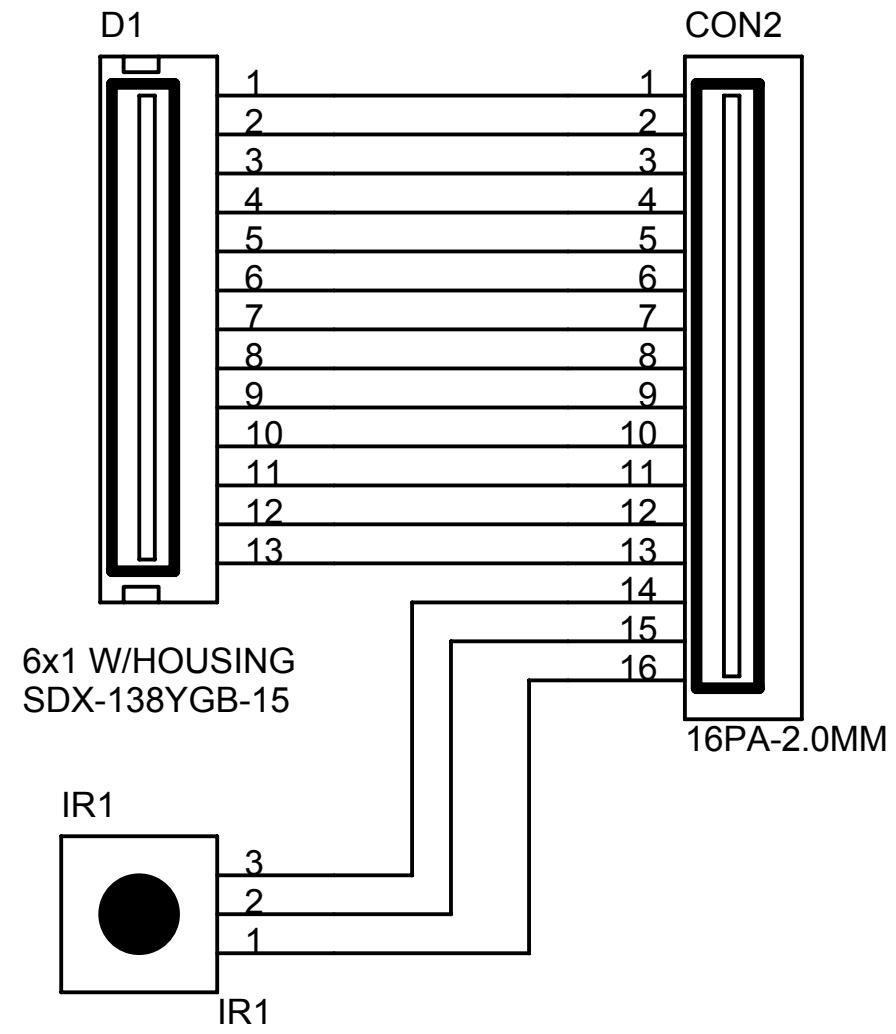


# CIRCUIT DIAGRAM-Front Board

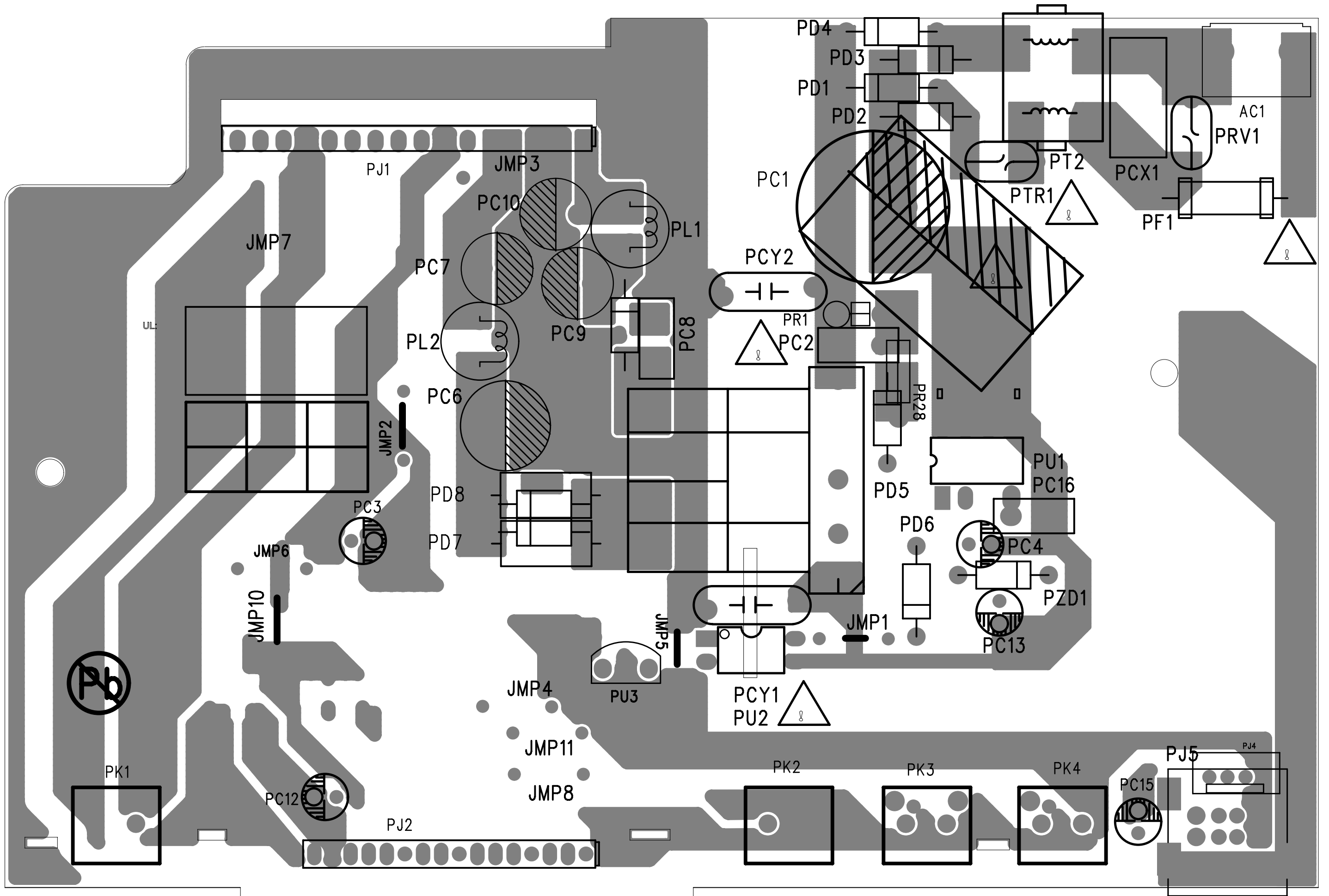


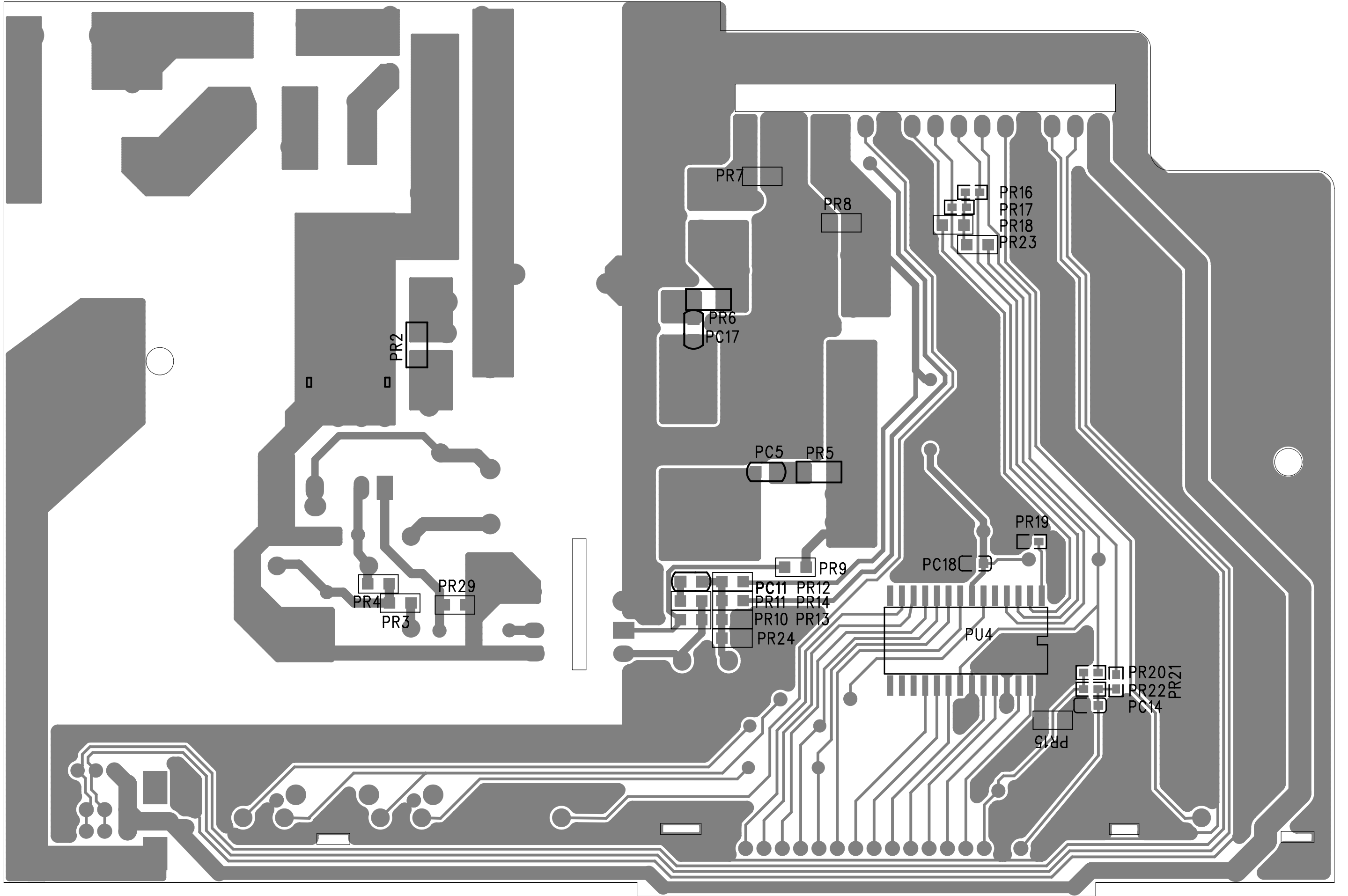
CIRCUIT DIAGRAM-PSU Board

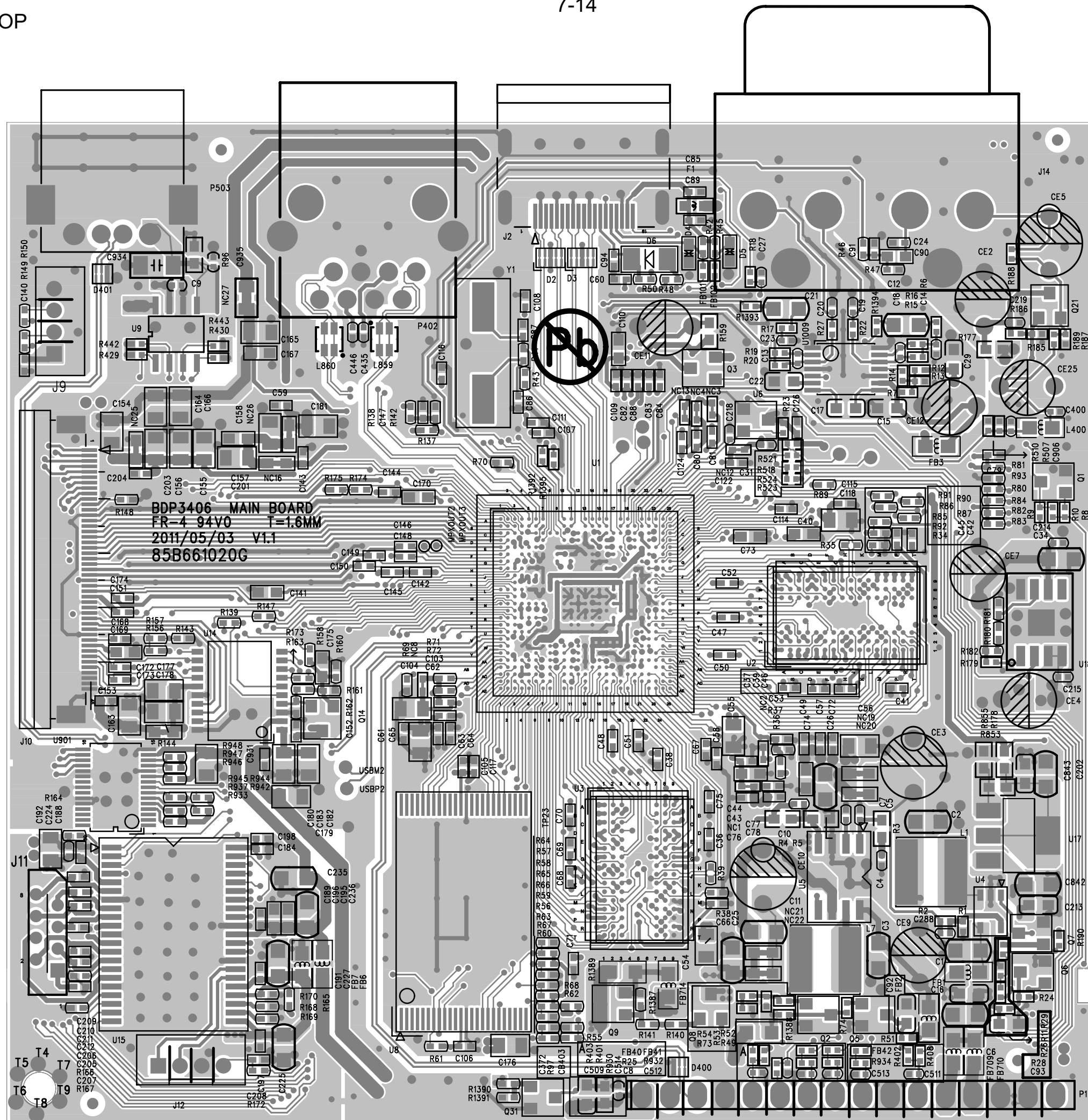


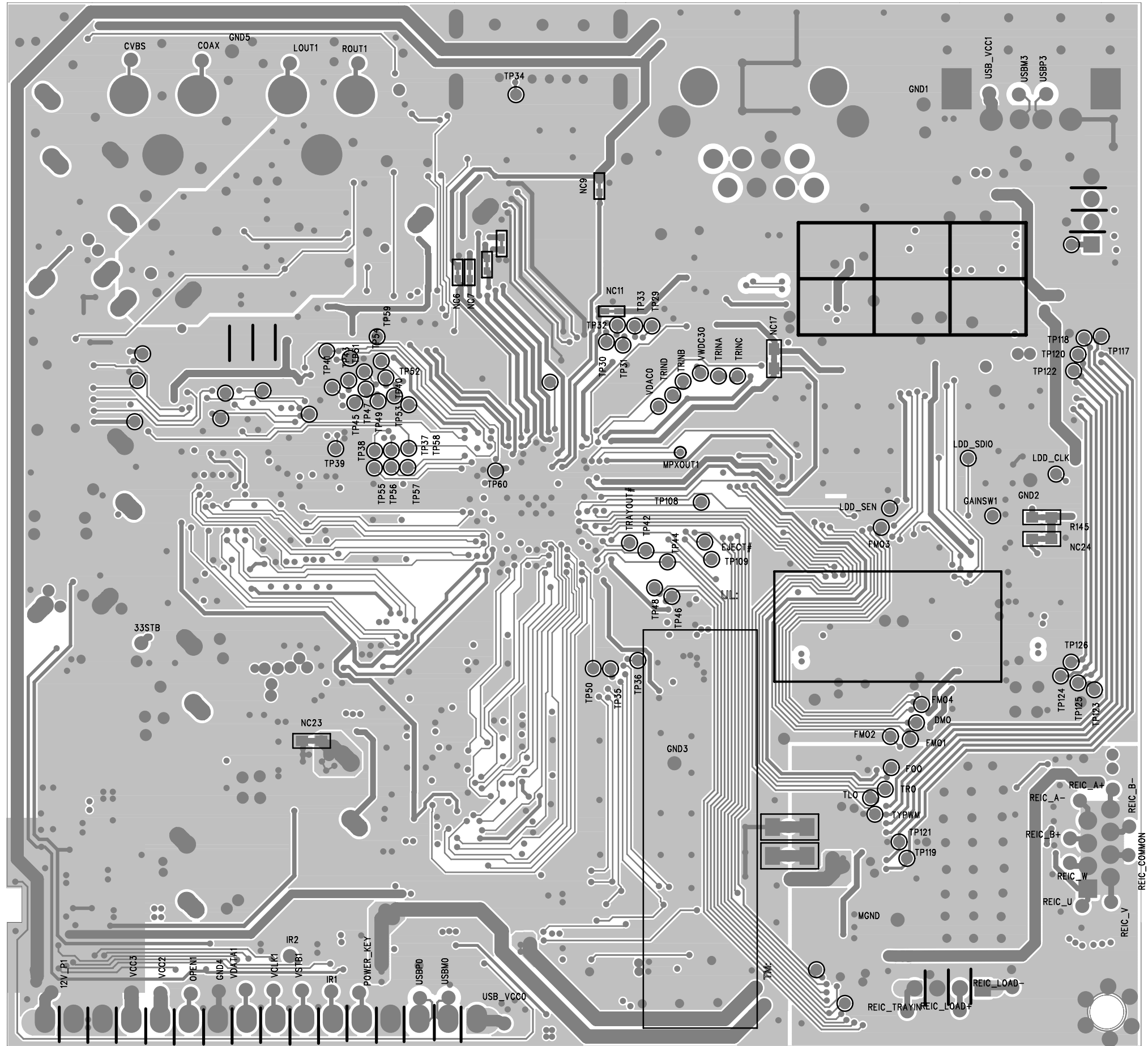


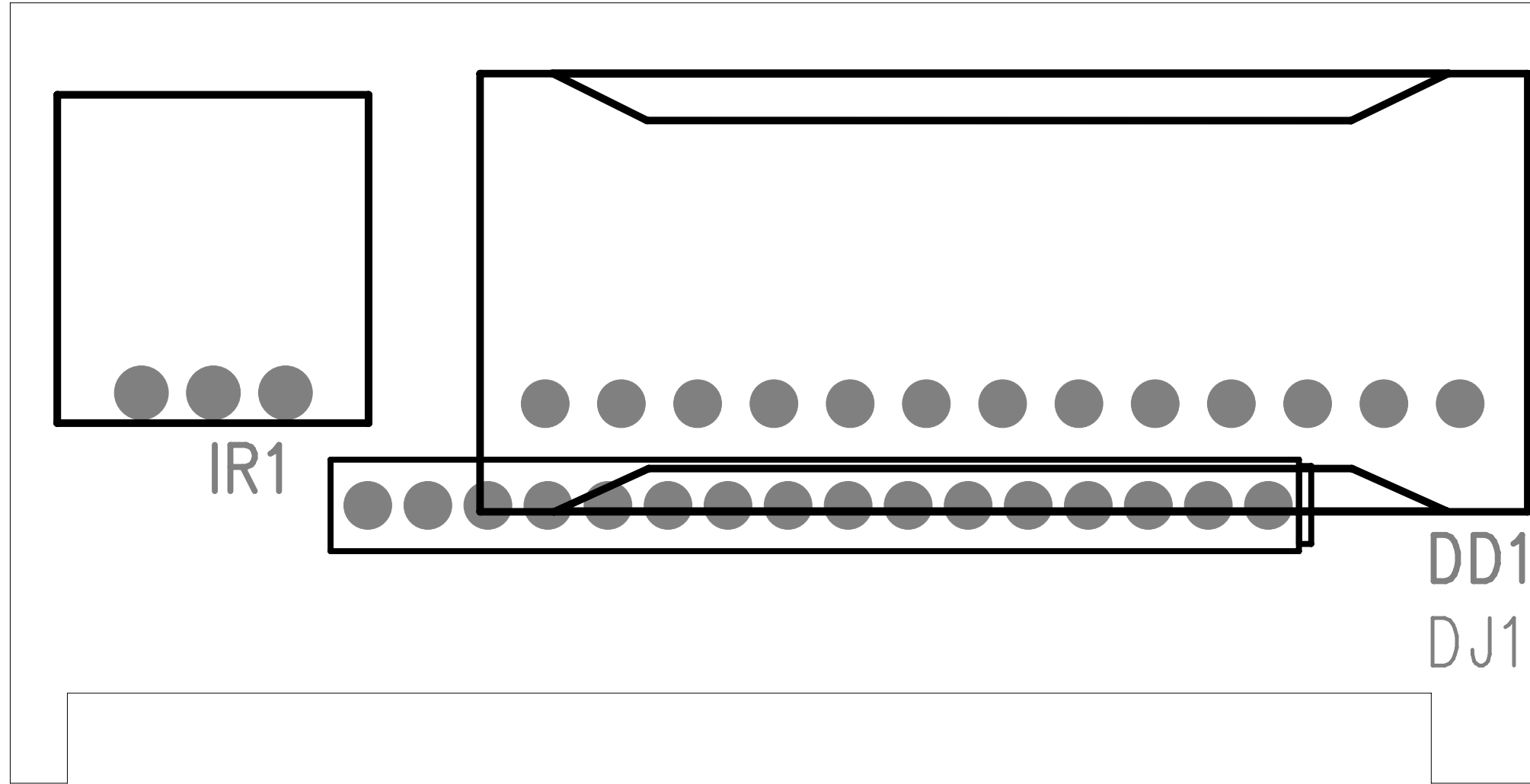


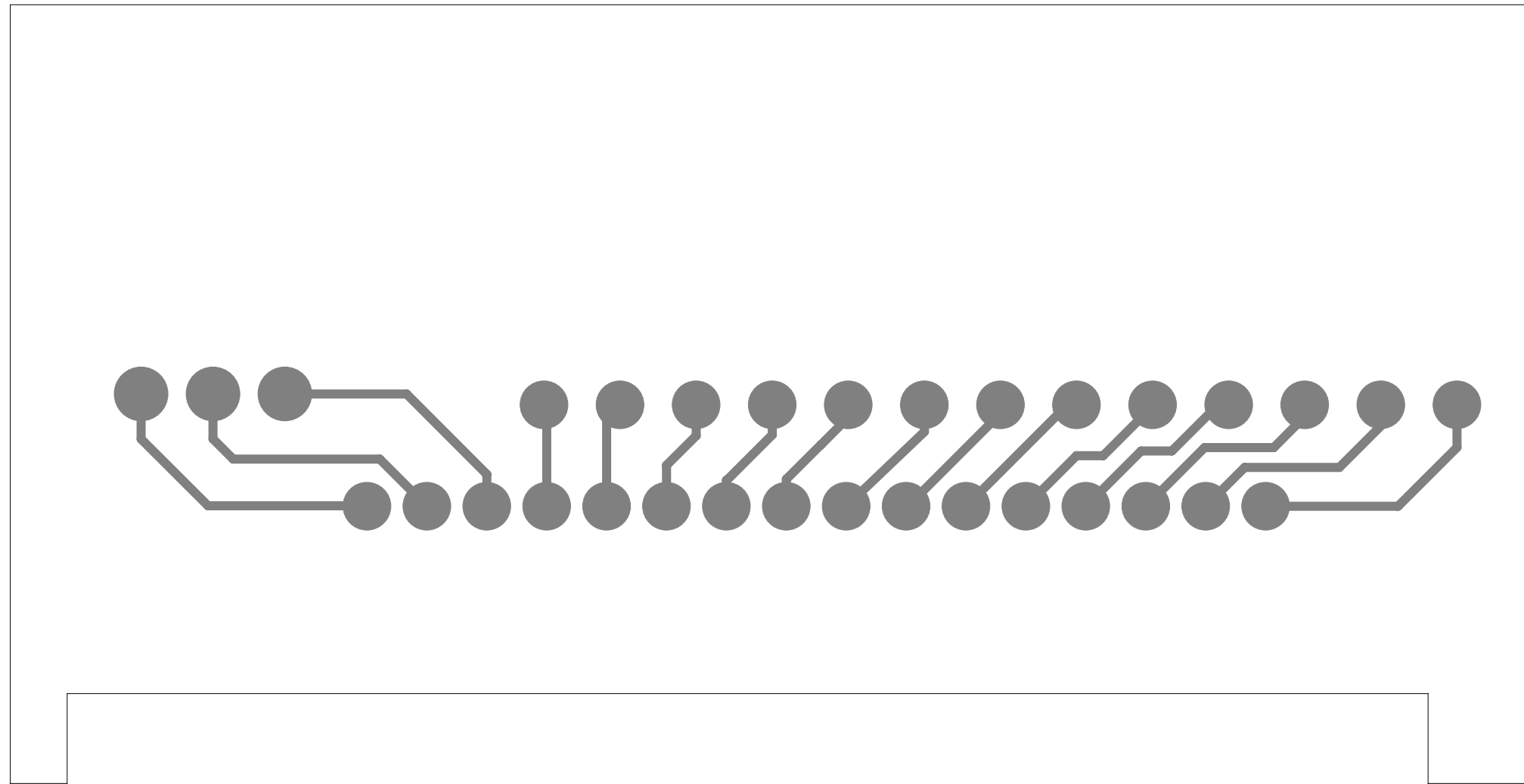


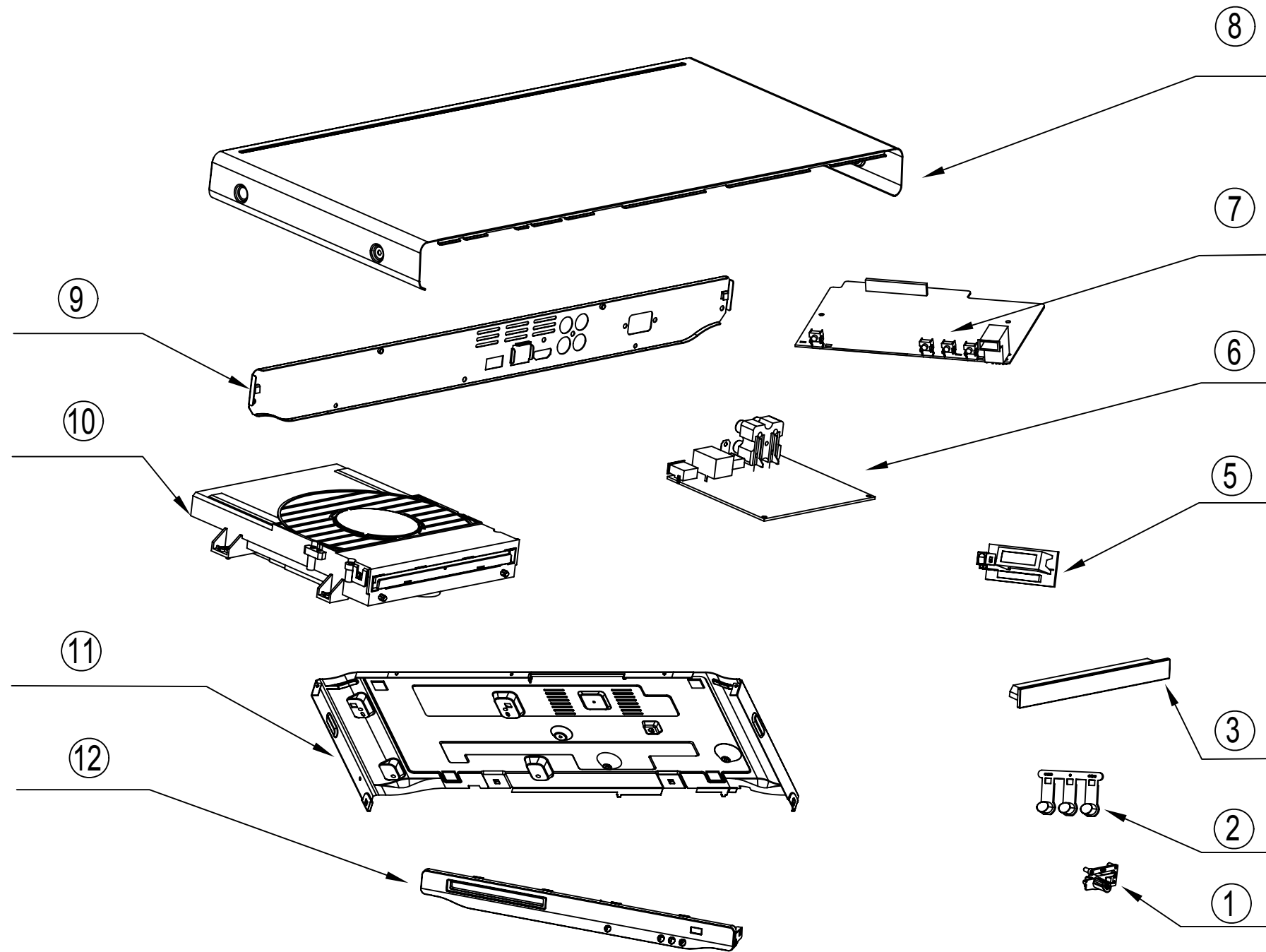












## 9.0 REVISION LIST

---

### Version 1.0

- \* Initial release

### Version 1.1

- \* Remove all Main Board schematic diagrams to compromise DRM security. To swap main board in case of damage.