

LO-SANG

SERVICE MANUAL

FOR

LEM3283FDT/RU

REV.A

Contact Info:

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LEM3283FDT/RU

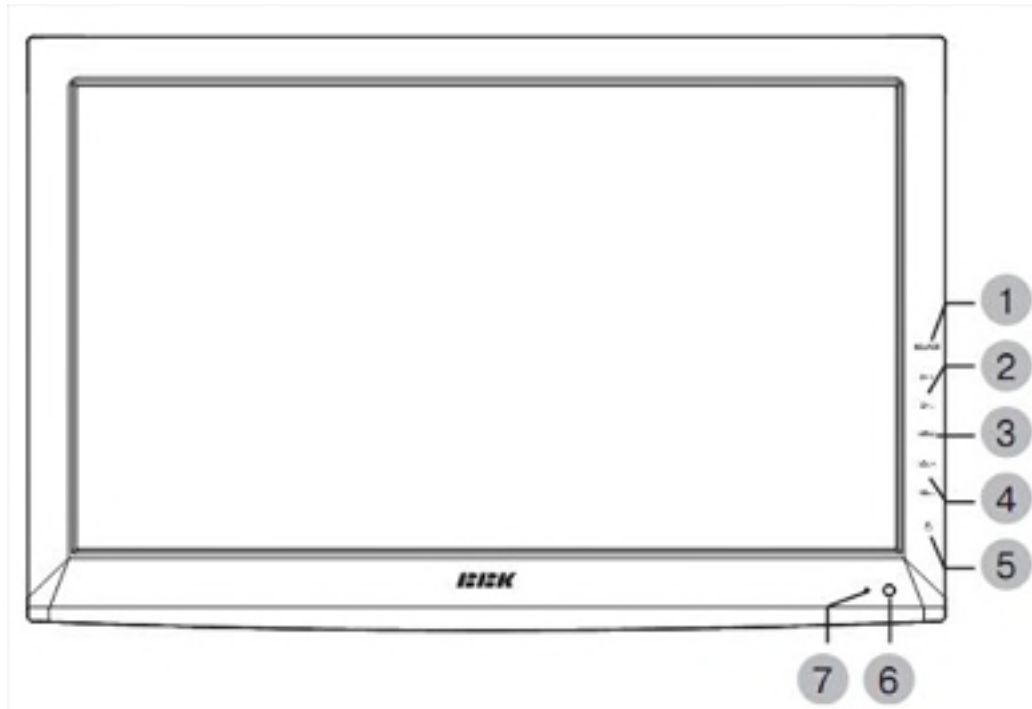
LCD Panel is CMO V315H3-LE4

1. Specification

1.1) SIDE Panel Function

Front

Controls on the Right-Hand Side



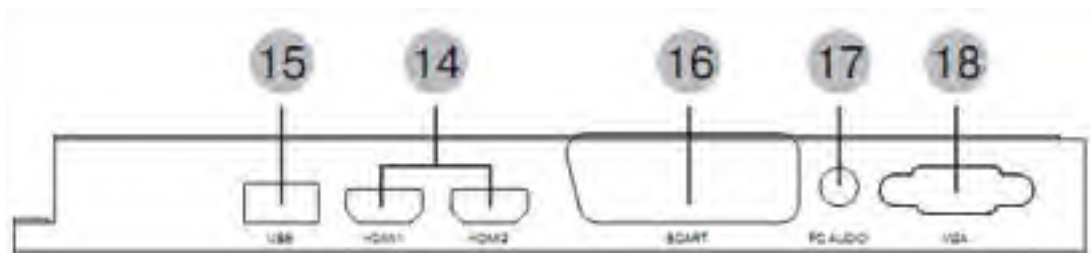
Item	Button Name	Function
1	SOURCE	Fast switch between source
2	CH + / CH -	Increase TV channel/Up navigation key Decrease TV channel/Down navigation key
3	MENU	Display the main menu on screen; used to go to the previous level of OSD.
4	VOL+ / VOL -	Increase and Decrease volume; used for decrement value in adjustment function
5		 “Power stand by” - ON / OFF
6	IR -Remote	IR sensor (Receive IR from remote control)
7	LED	(Orange –Standby, Green – Operating)

(All pictures used in this manual are only for illustration purposes. Those pictures may be different from the actual.)

1.2) Input / Output Signal Connections



No.	Terminal
8.	SPDIF COAX OUT
9.	HEADPHONE OUTPUT
10.	(Y Pb/cb Pr/Cr) INPUT
11.	AV (VIDEO) INPUT
12.	LEFT/RIGHT AUDIO INPUT for (AV/YPbPr)
13.	TV RF ANT.
14.	HDMI 3 INPUT

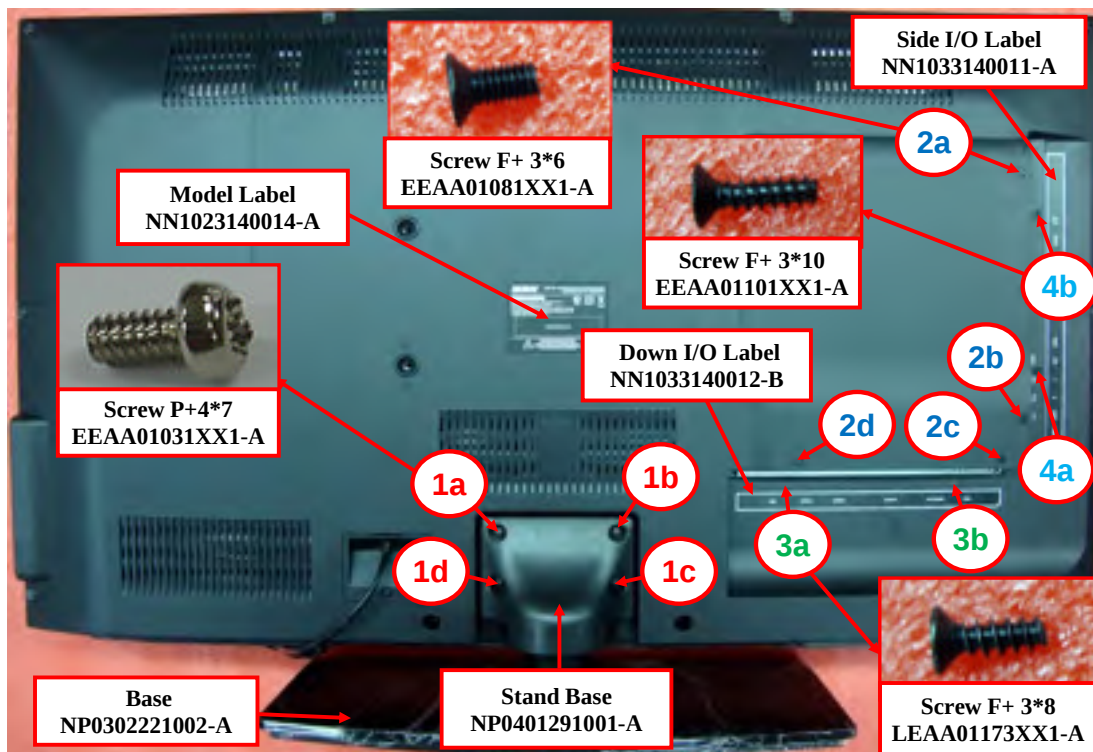


No.	Terminal
14.	HDMI 1&2 INPUT
15.	USB PORT
16.	SCART INPUT/OUTPUT
17.	VGA AUDIO INPUT
18.	VGA INPUT

(All pictures used in this manual are only for illustration purposes. Those pictures may be different from the actual.)

2.DE-Assemble Process

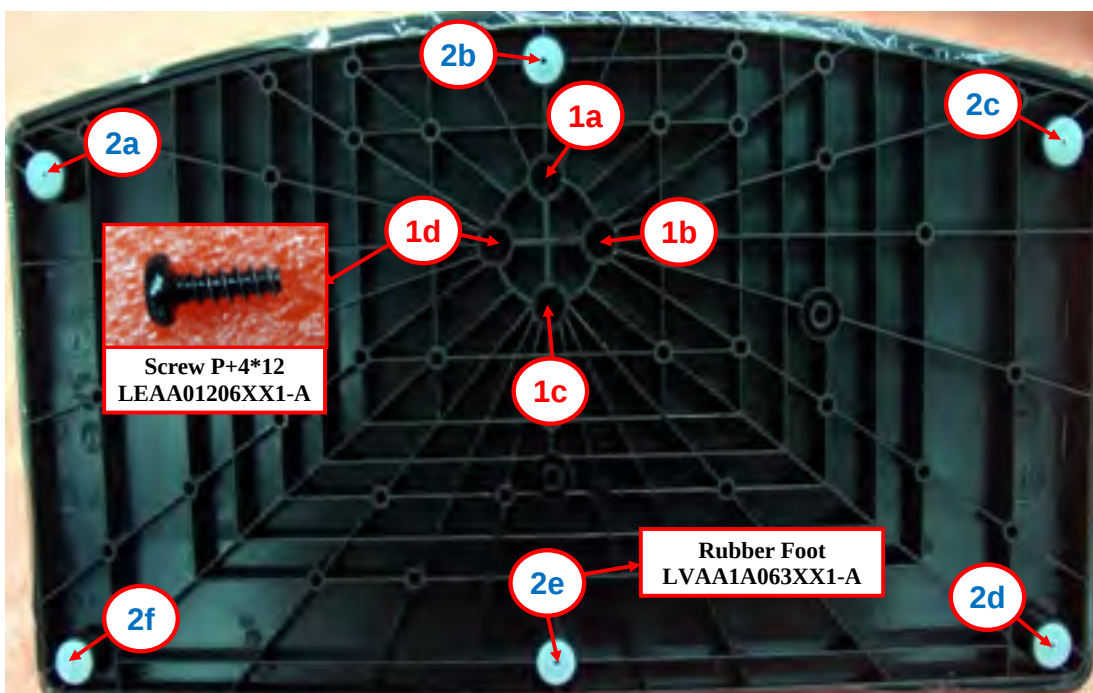
2.1) Stand De-Assemble



- 1) Remove the screw Pan Head 4*7 ISO NI*4pcs with Screw Torque = 6 ± 0.5 KGF.CM2
- 2) Remove the screw Flat Head 3*6 ISO BLK*4pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 3) Remove the screw Flat Head 3*8 ISO BLK*2pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 4) Remove the screw Flat Head 3*10 ISO BLK*2pcs with Screw Torque = 4 ± 0.5 KGF.CM2

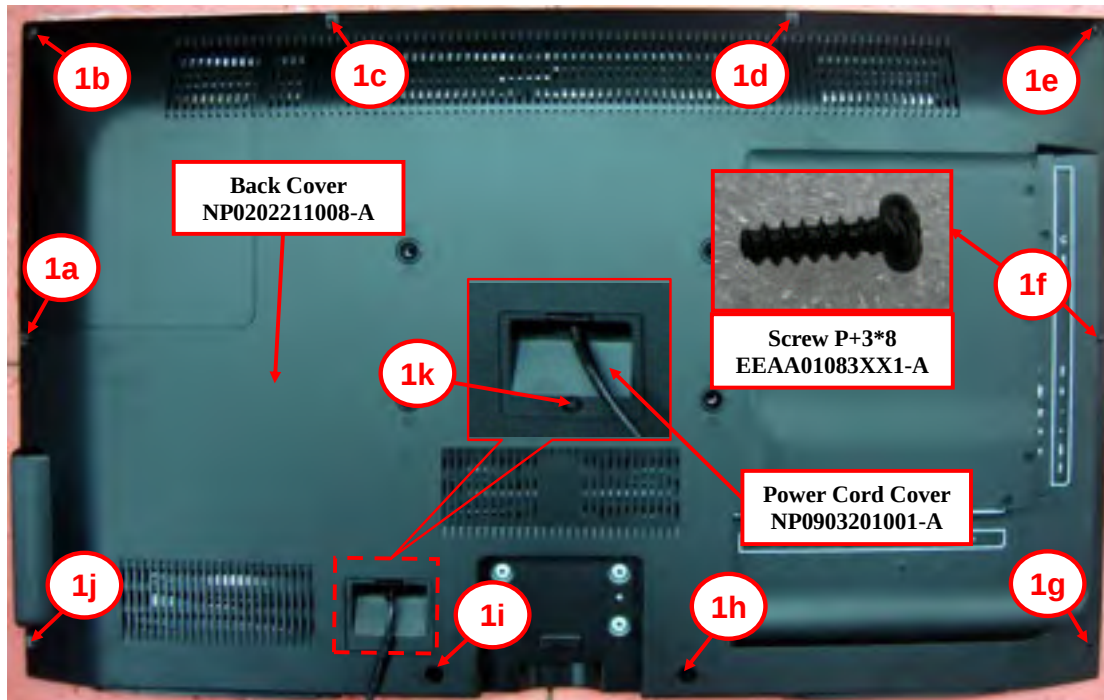
*Remark : State the **Color** & **Type** of Stand Base and Stand when requesting the Spare Parts

2.2) BASE de-assemble



- 1) Remove the screw Pan Head 4*12 Harden BLK * 4pcs with Screw Torque = 6 ± 0.5 KGF.CM2

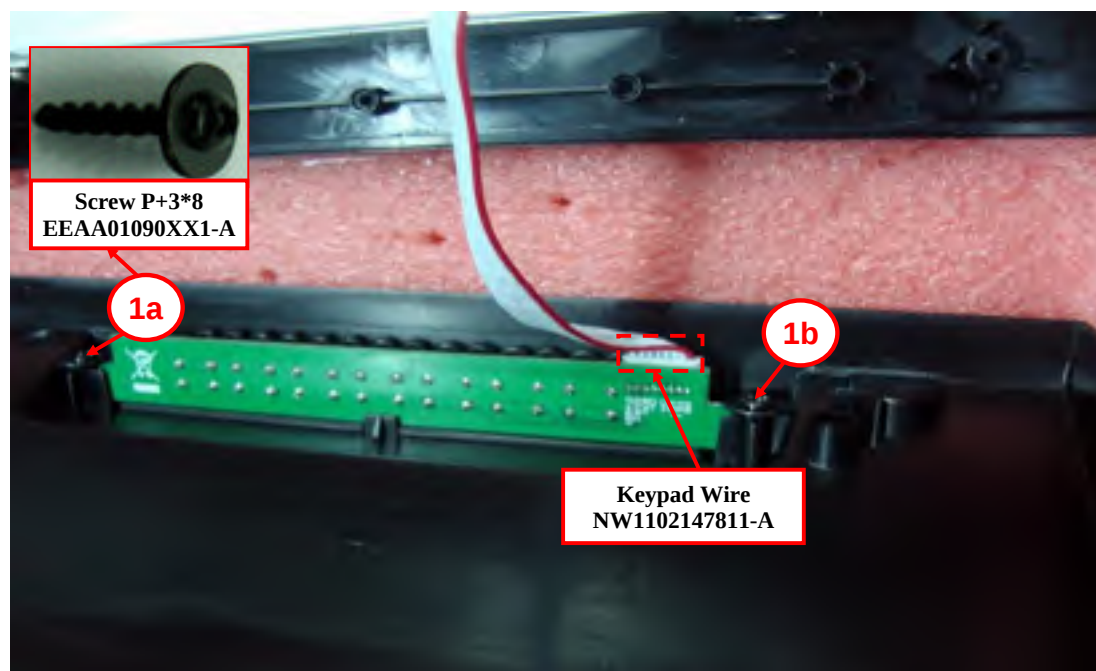
2.3) Back Cover De-Assemble and power cord cover



1) Remove the screw B Head 3*8 Harden BLK *11 pcs with Screw Torque = 4 ± 0.5 KGF.CM2

*Remark : State the **Color** of Back Cover when requesting the Spare Parts

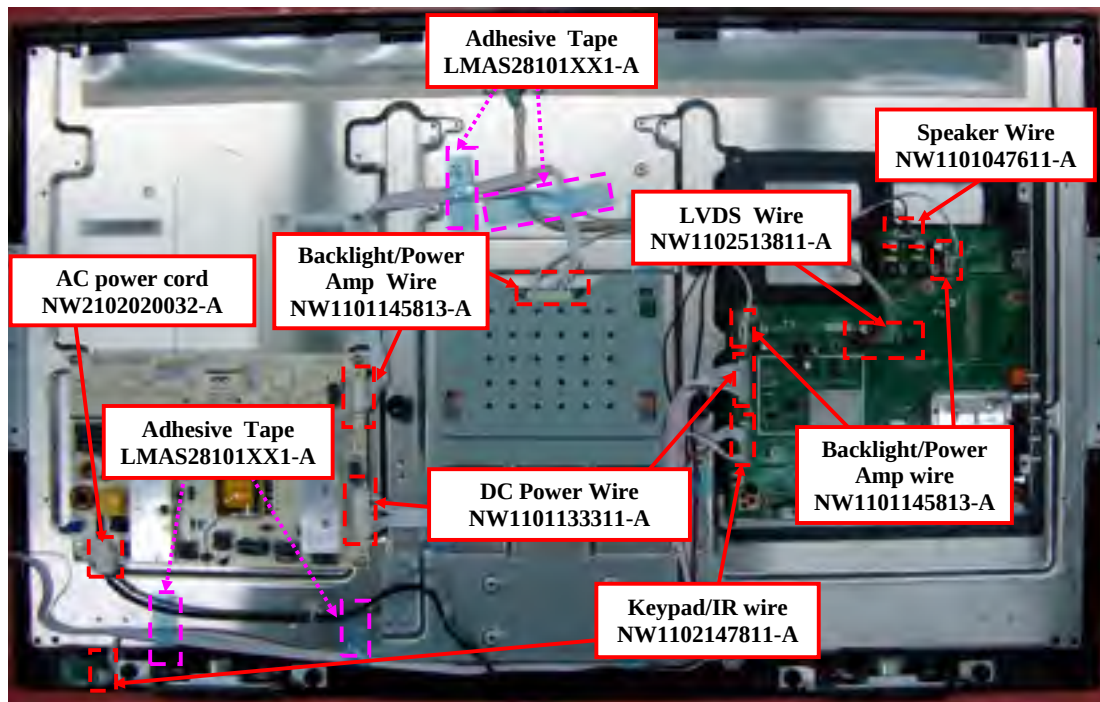
2.4) Remove the Back Cover from the front cover



1) Remove the screw TWM P+3.0*8 Harden BLK*2pcs with Screw Torque= 4 ± 0.5 KGF.CM2

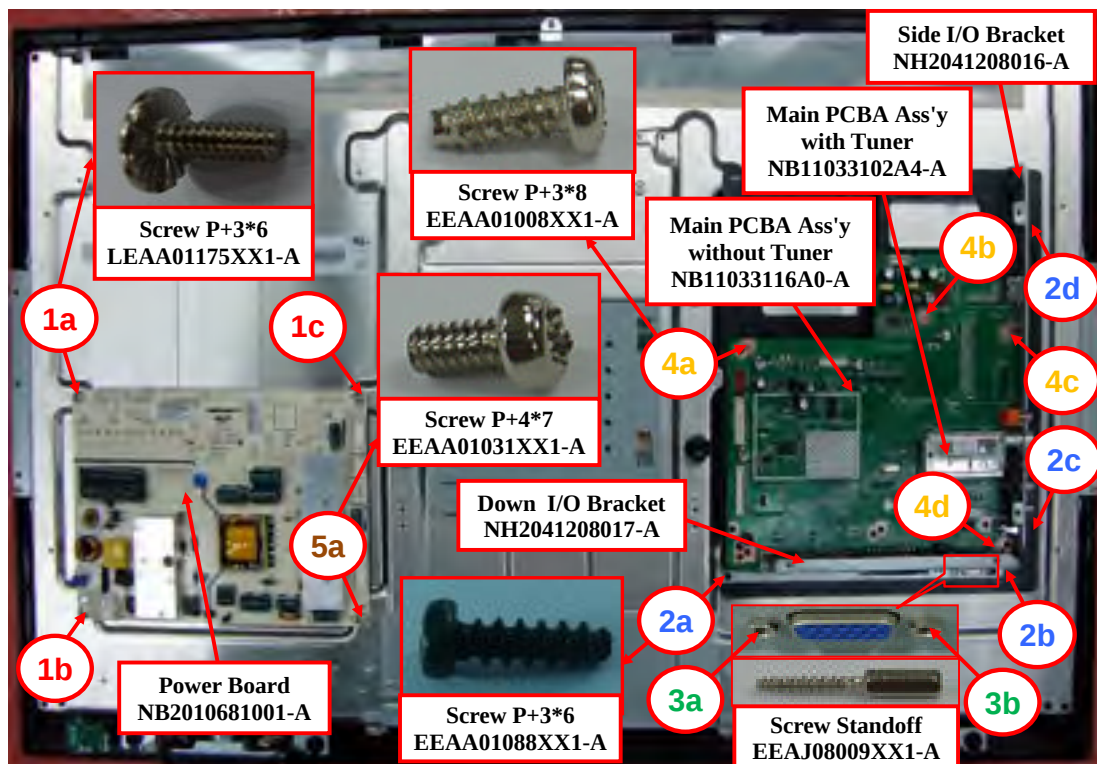
2) Remove the Keypad wire

2.5) Remove the all wire and Adhesive Tape



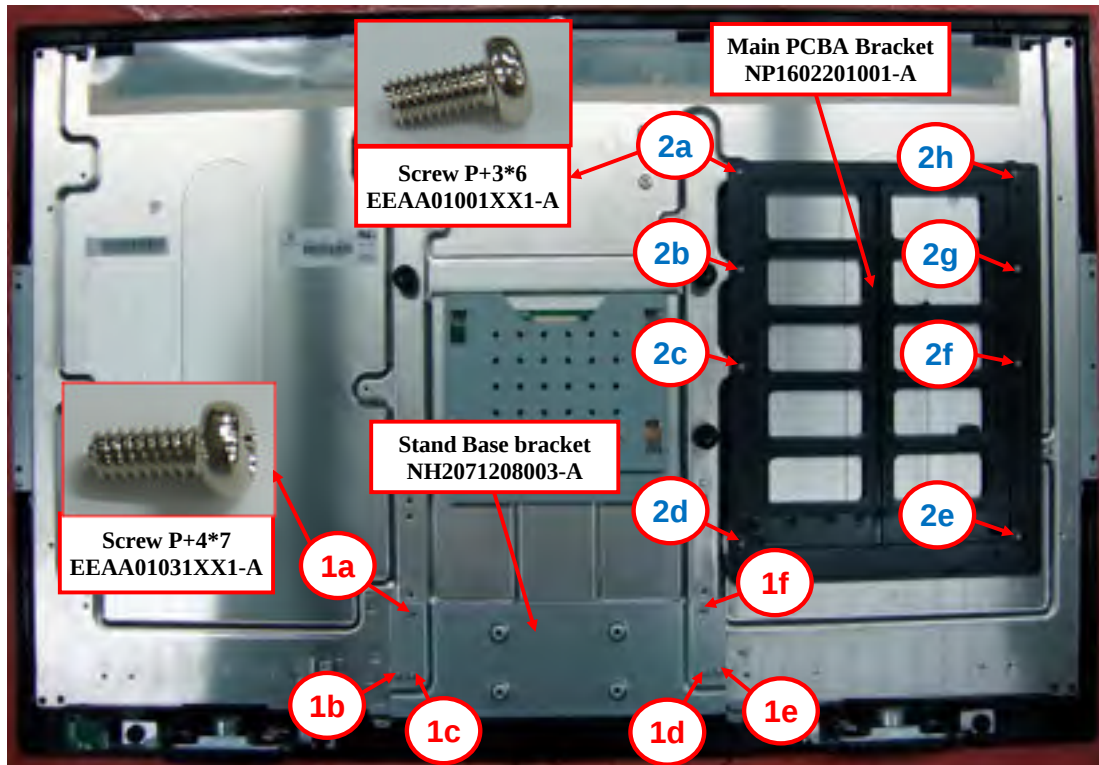
- 1) Remove the Adhesive Tape
- 2) Remove the all wire shown as above

2.6) Detach the (Power Board, Main PCBA Ass'y) and I/O Bracket



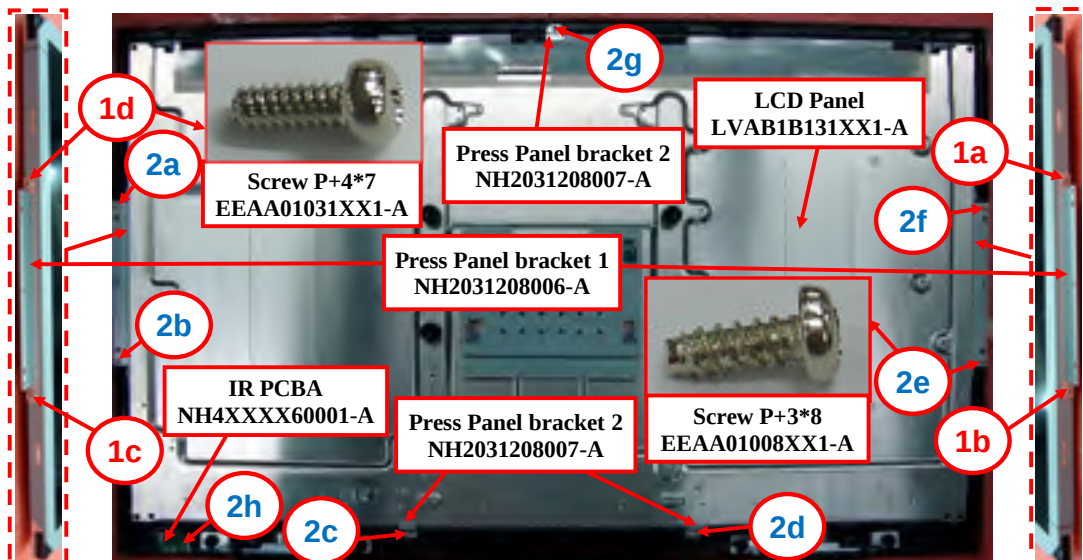
- 1) Remove the screw TWM P+3*6 with tooth surface ISO Ni*3pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 2) Remove the screw Pan Head 3*6 ISO BLK*4pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 3) Remove the Screw Standoff* 2pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 4) Remove the screw Pan Head 3*8 ISO NI*4pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 5) Remove the screw Pan Head 4*7 ISO NI*1pcs with Screw Torque = 6 ± 0.5 KGF.CM2

2.7)Remove the Main PCBA and Stand Base metal bracket



- 1)Remove the screw Pan Head 4*7 ISO NI*6pcs with Screw Torque = 6 ± 0.5 KGF.CM2
- 2)Remove the screw Pan Head 3*6 ISO NI*8pcs with Screw Torque = 4 ± 0.5 KGF.CM2

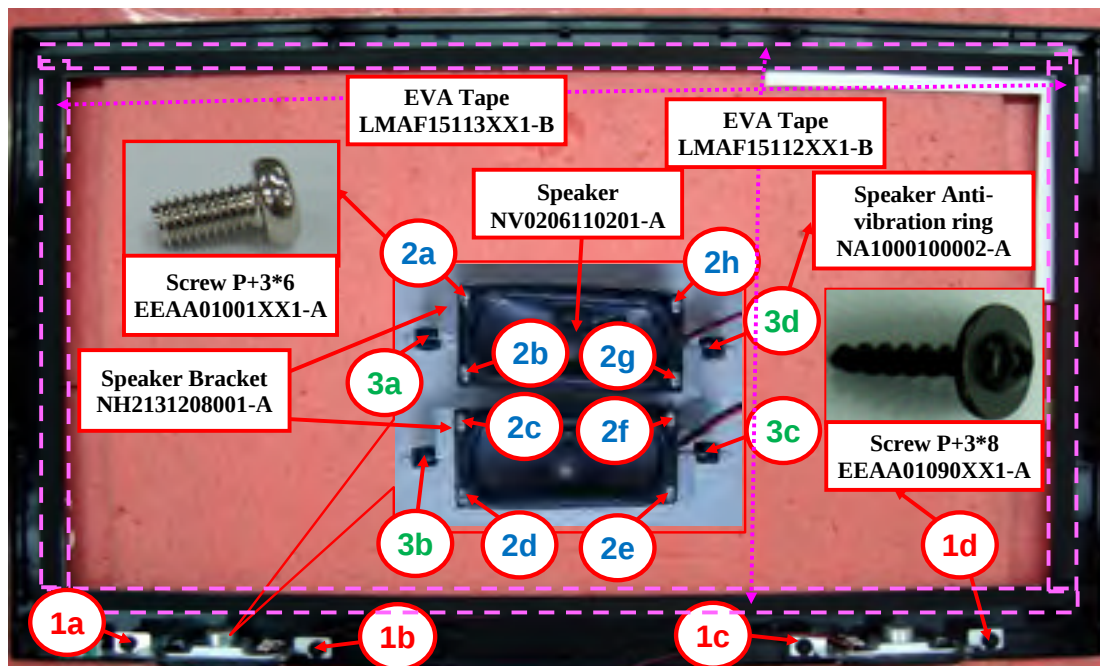
2.8)Detach the IR board, Converter bracket from LCD Panel



- 1)Remove the screw Pan Head 4*7 ISO NI *4 pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 2)Remove the screw Pan Head 3*8 ISO NI*8pcs with Screw Torque = 4 ± 0.5 KGF.CM2

*Remark : State the Type of LCD Panel when requesting the Spare Parts

2.9) Remove the Speaker and EVA Tape



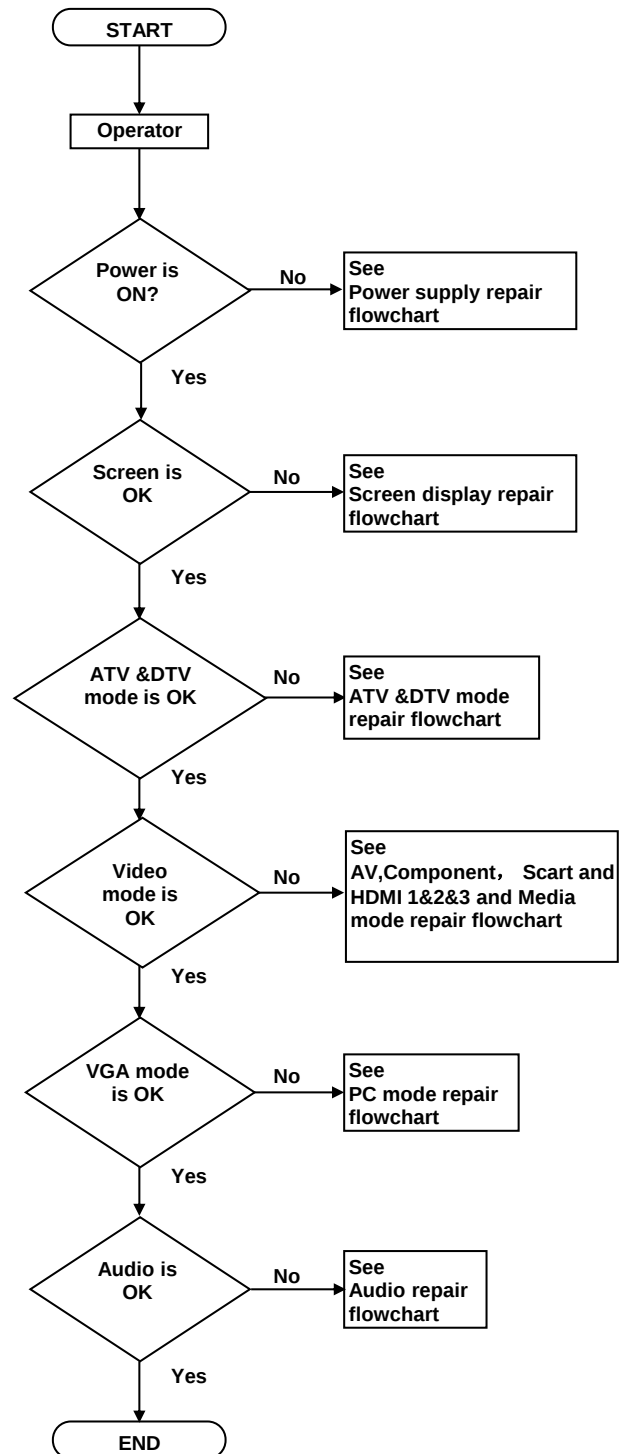
1) Remove the screw TWM P+3.0*8 Harden BLK*4pcs with Screw Torque=4+/- 0.5 KGF.CM2

2) Remove the screw Pan Head 3*6 ISO NI*8pcs with Screw Torque = 4±0.5 KGF.CM2

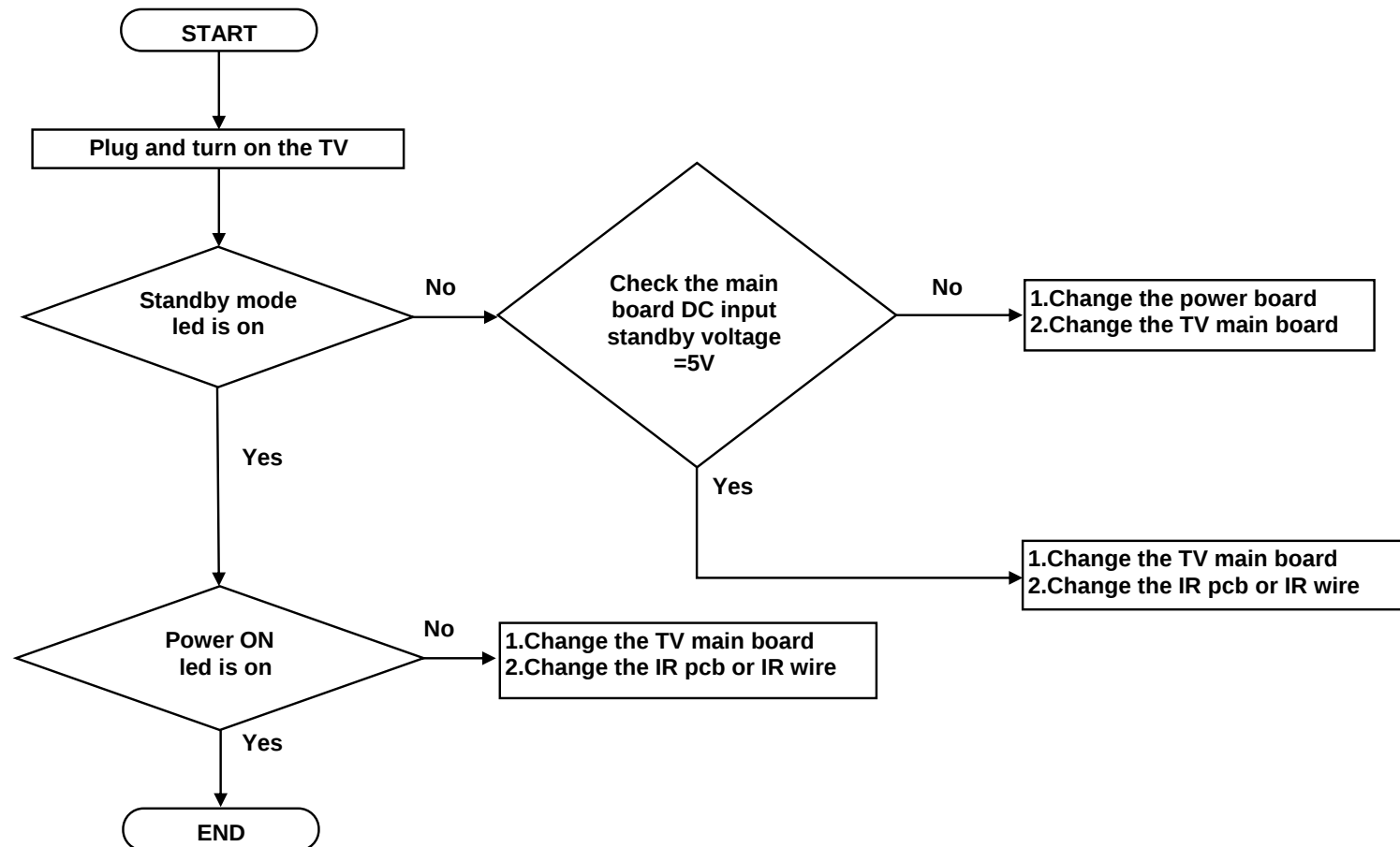
*Remark : State the **Color** of Front Cover when requesting the Spare Parts

END

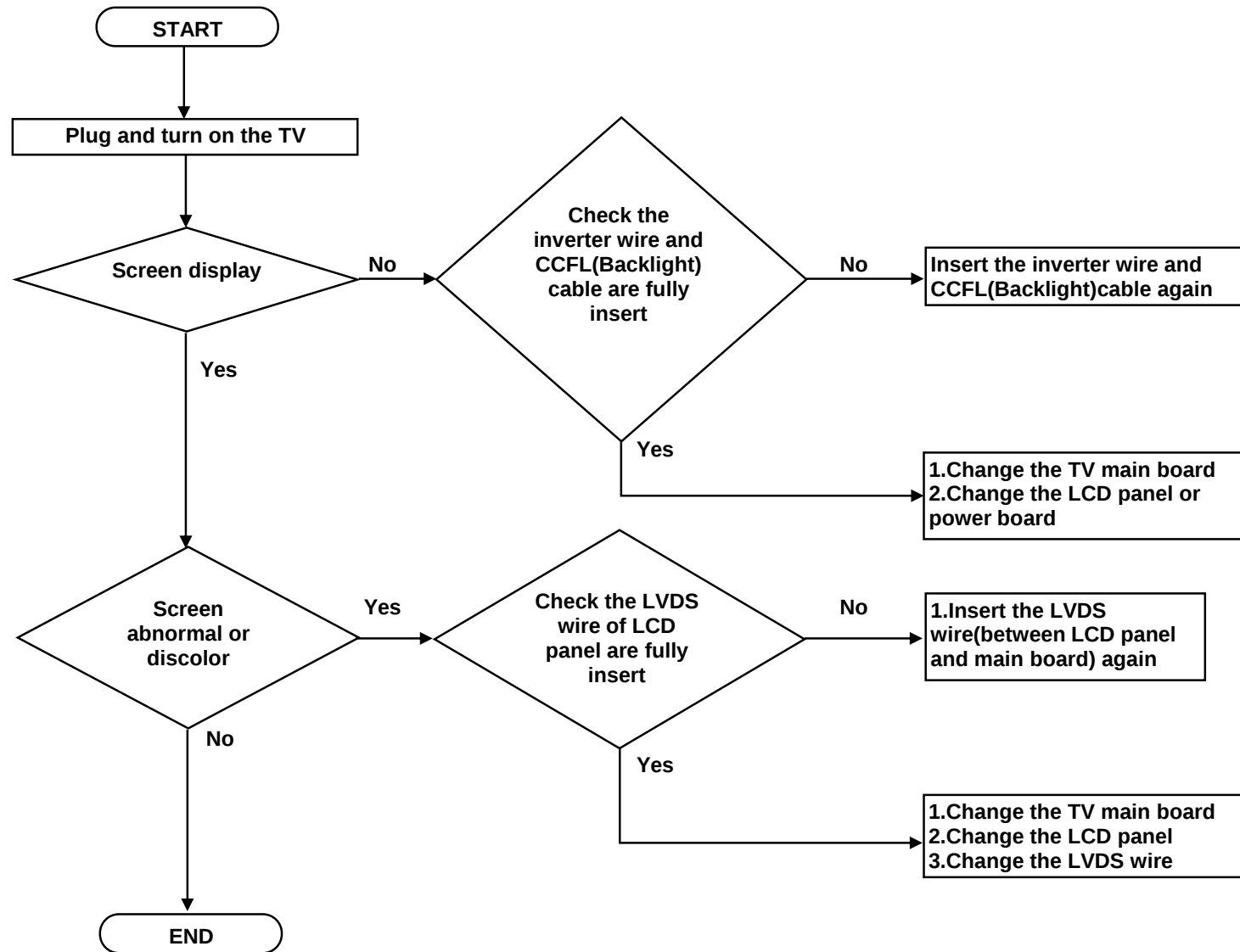
3) Fault finding tree



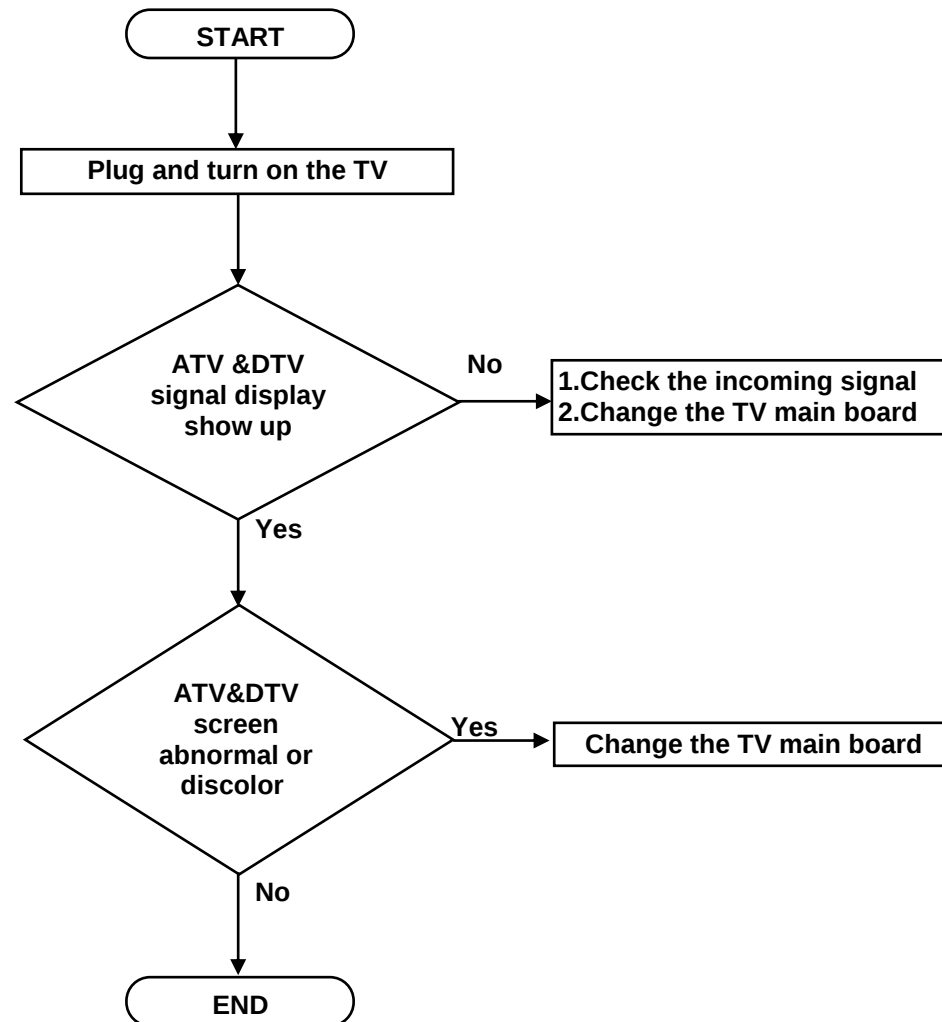
3.1) Power supply repair flowchart



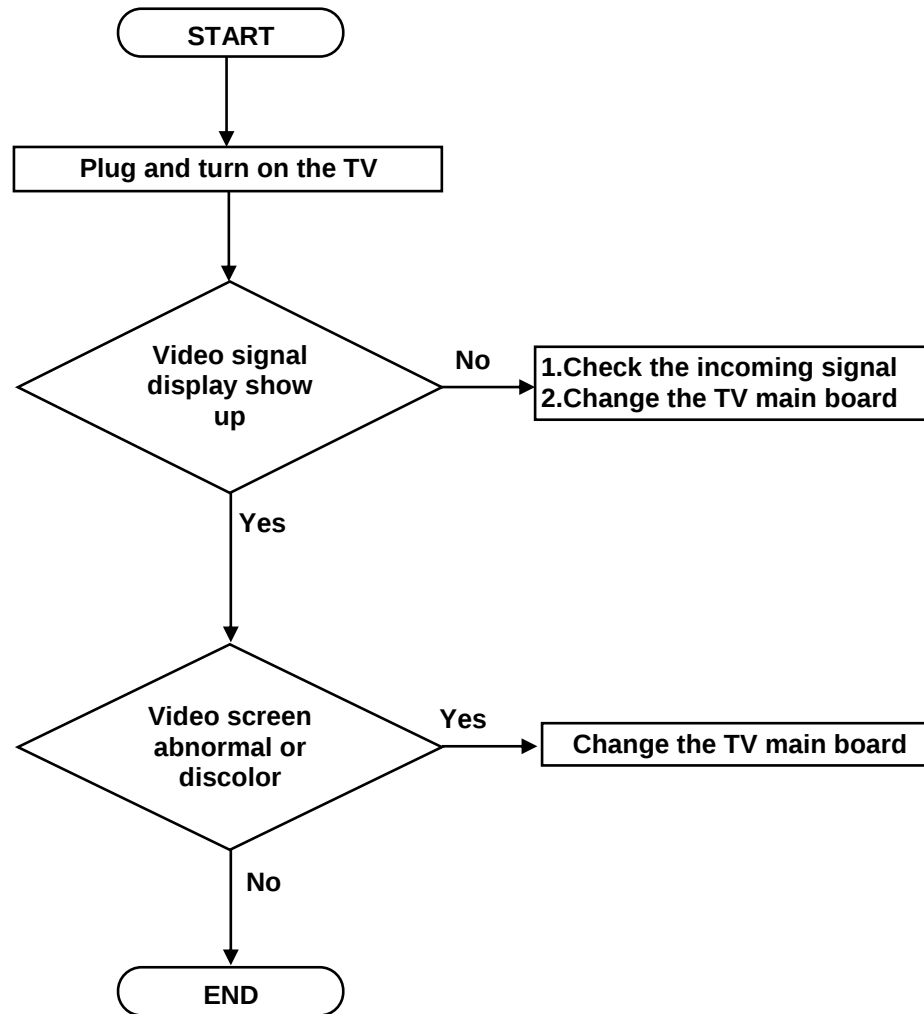
3.2) Screen Display repair flowchart



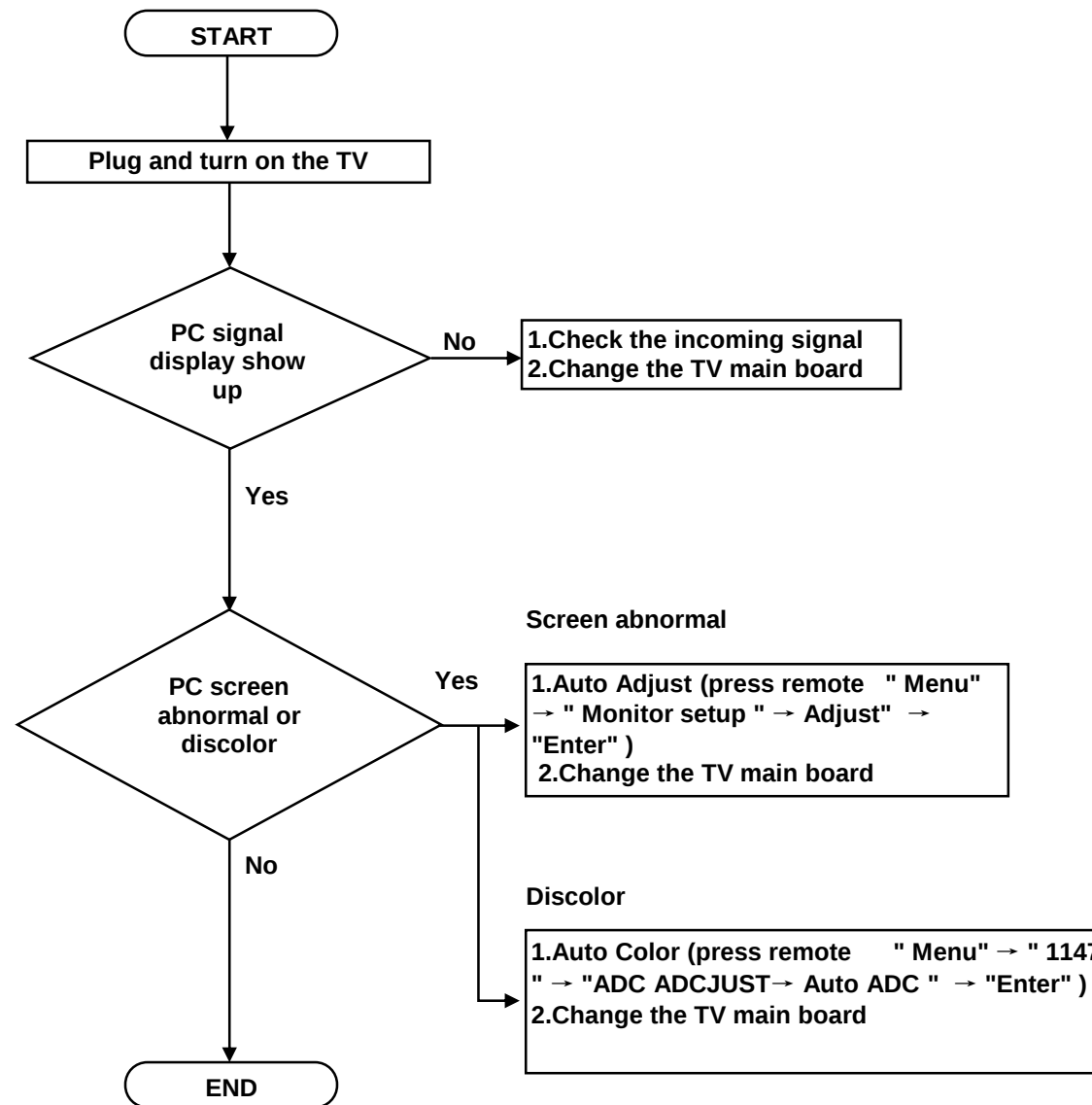
3.3)ATV &DTV mode repair flowchart



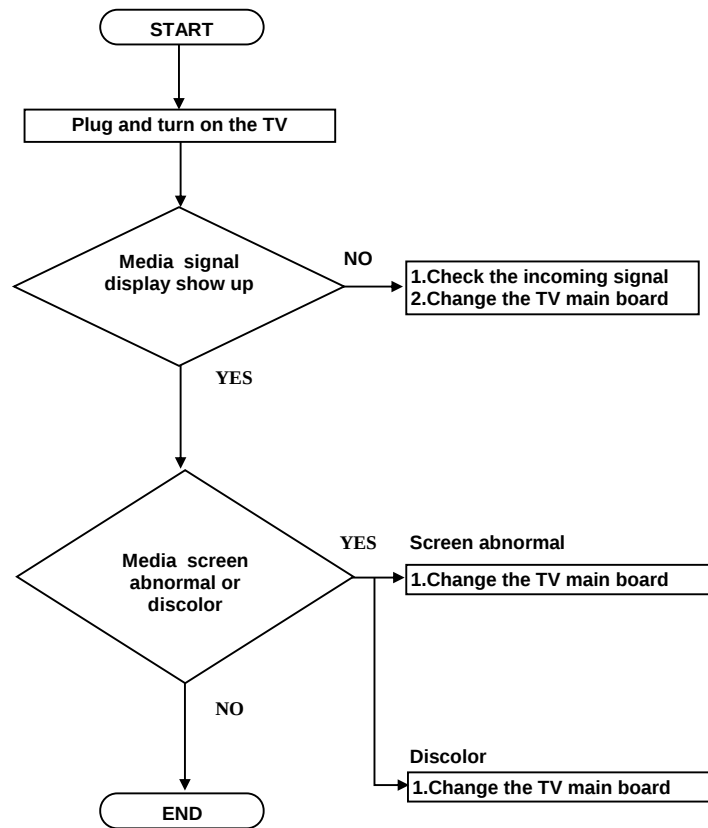
3.4) AV,YPBPR ,Scart and HDMI1,2,3 mode repair flowchart



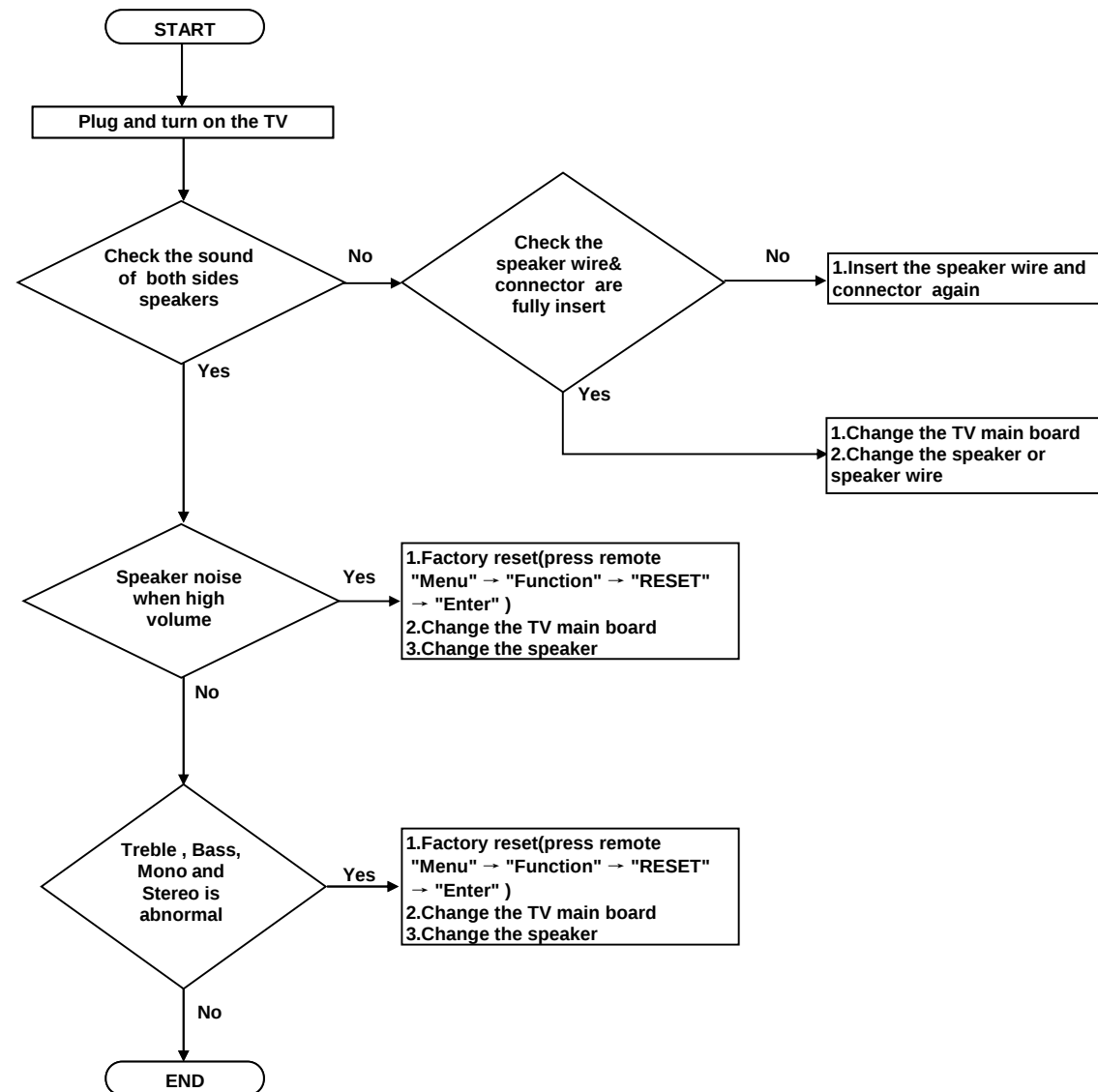
3.5) PC mode repair flowchart



3.6) MEDIA mode repair flowchart



3.7)Audio repair flowchart



REMARK : After Default Setting , PC mode must " Auto Color"(press remote "Menu" → "1147" → "ADC ADJUST"→ "Auto ADC" → "Enter")

3.8) Factory Mode Setting

Press remote " LCD MENU" then "1"→"1"→"4"→"7" on remote go to **Factory Mode**

Factory Menu		Functionality:
Factory Setting	Burning Mode	Used in factory for Burn-in to check the stability of the TV set.
ADC ADJ	Auto ADC	Auto color adjust for PC mode
INIT TV	Reset Factory	Restore the default value of this Factory Menu OSD.
Version Info TV	Compile Date Compile Time Checksum	Show the firmware version used in this TV model

3.9) ATV/DTV mode Child Lock Default and Super Password Setting

Mode	Setting	Default Password	Super Password
ATV/DTV	Press remote "LCD Menu" →"LOCK "→ "Lock Sistem" →" ►/Enter"	“0000”	“7948”

3.10 T* MSD 309 Firmware update SOP

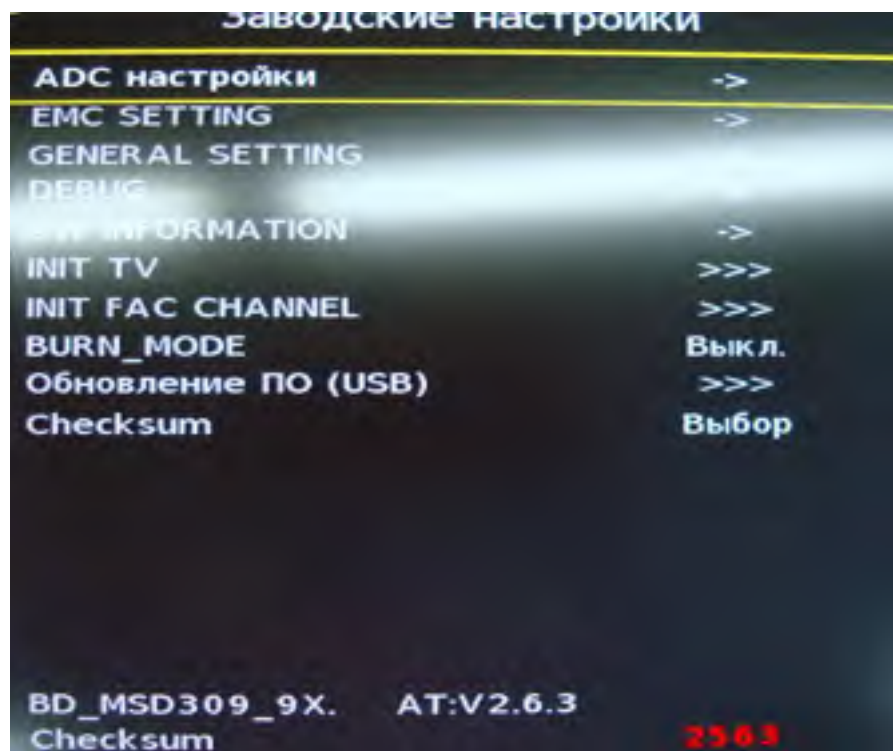
Update tool:



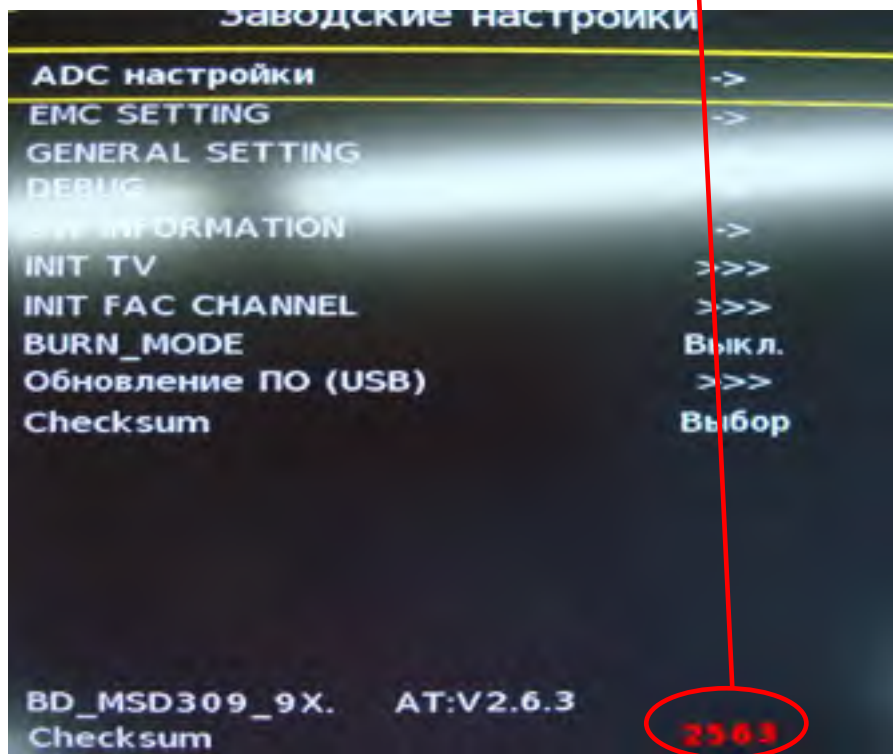
USB thumb drive

Procedures:

1. Extract the firmware in the .rar file into the **root directory** of the thumb drive. There are two files to be extracted: **BIN_MSD_309.bin**.
2. Plug in the USB thumb drive into the USB port of the TV.
3. Switch on the TV into standby mode, then turn on the TV.
4. Wait for around 20secs, the LED of the IR will start **blinking slowly**, alternating between amber and green light. This indicating the firmware is now being updated into the TV set.
5. The firmware is successfully updated when the LED of the IR starts **blinking rapidly**.
6. With the LED of the IR blinking rapidly, switch off the power.
7. Unplug the USB thumb drive from the TV set.
8. Switch on the TV and turn on normally, the update process is now finished.
9. Turn ON the TV again, press on remote "LCD MENU" then "1"→"1"→"4"→"7" " go to **Factory Mode** "select "**INIT TV**" → "Enter".



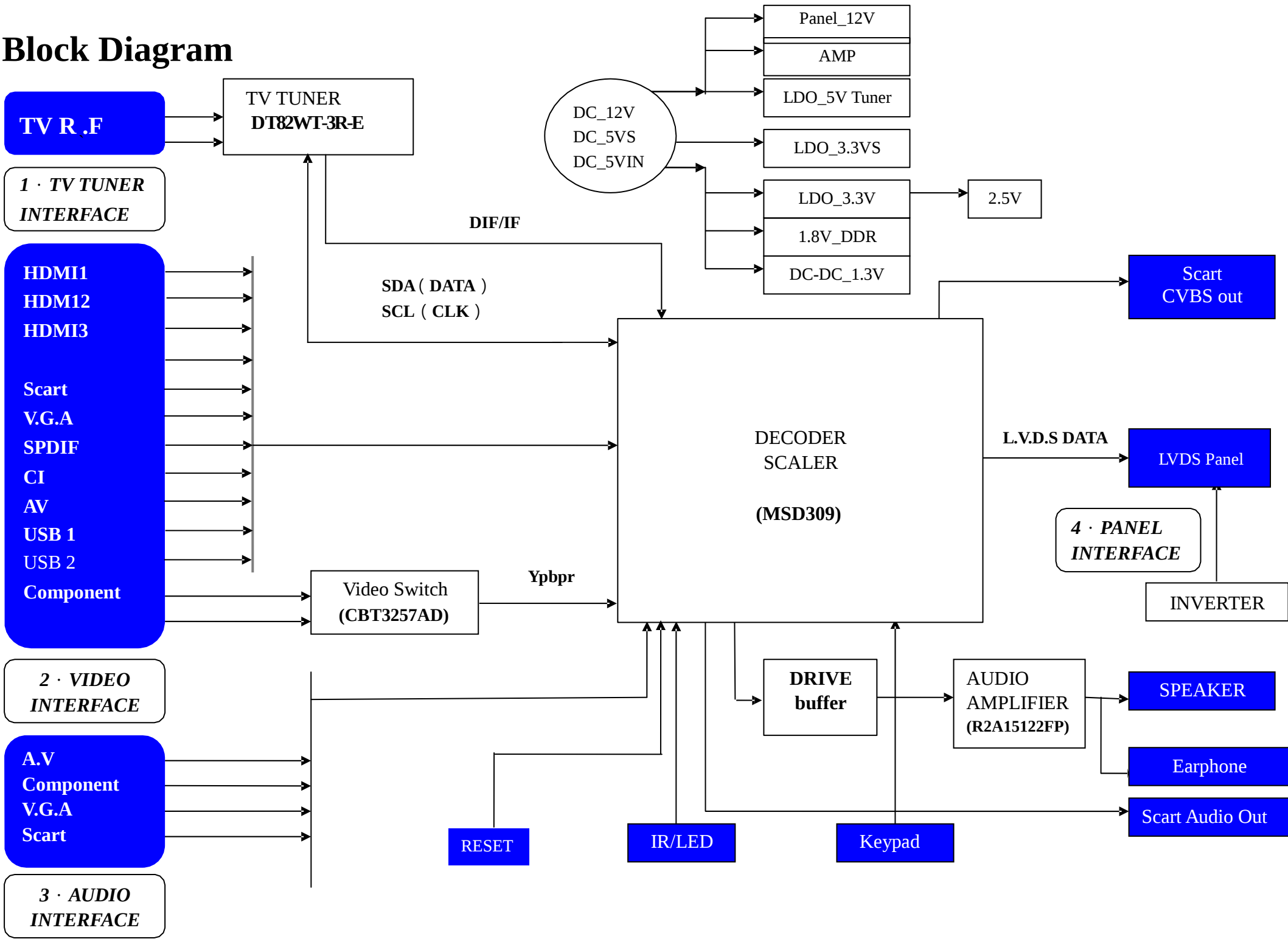
10. LCD MENU" then "1"→"1"→"4"→"7" “ go to **Factory Mode** .Check the new firmware checksum is (eg.(**BD_MSD309_9X Checksum : 2563**”)) shown as below:

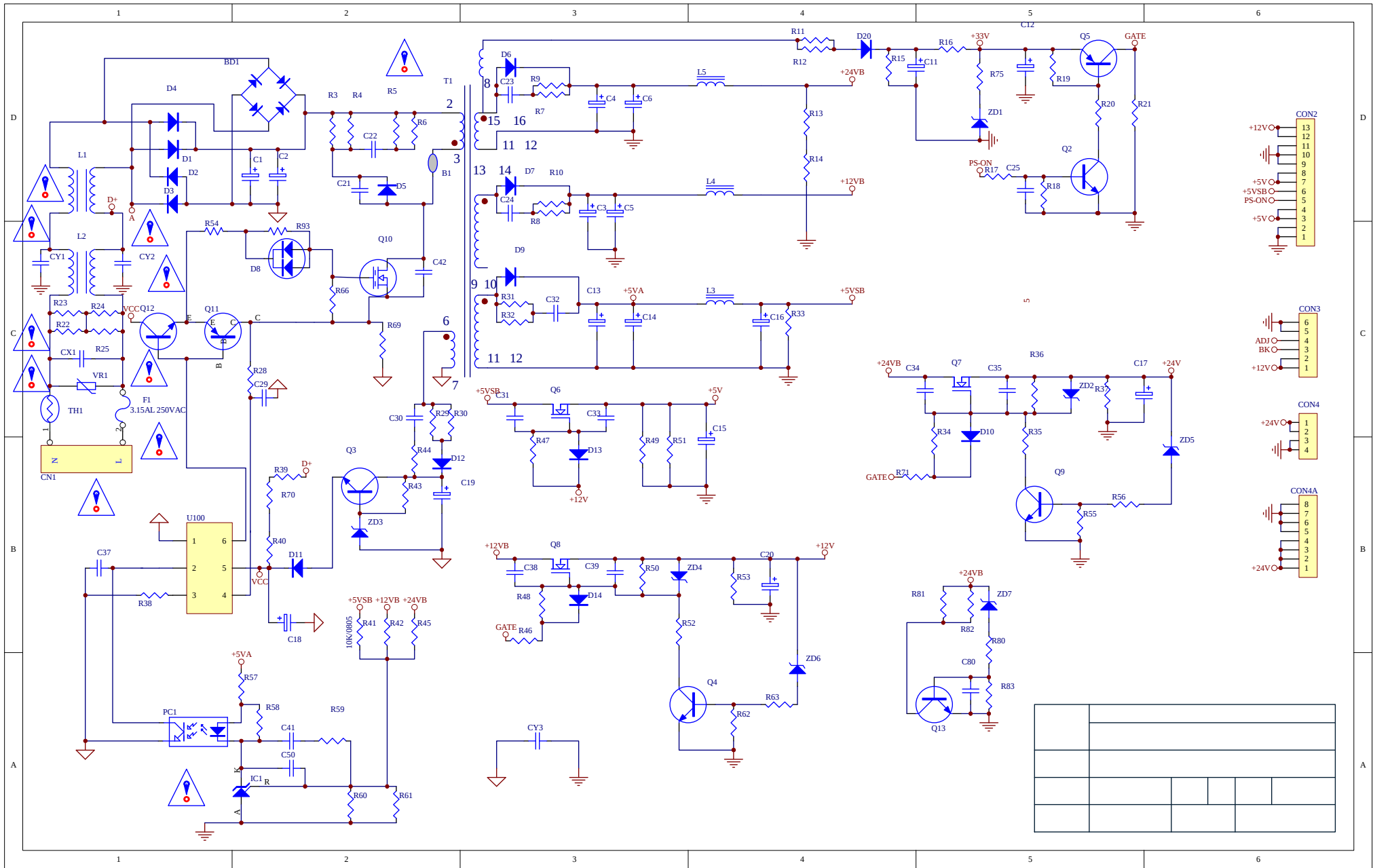


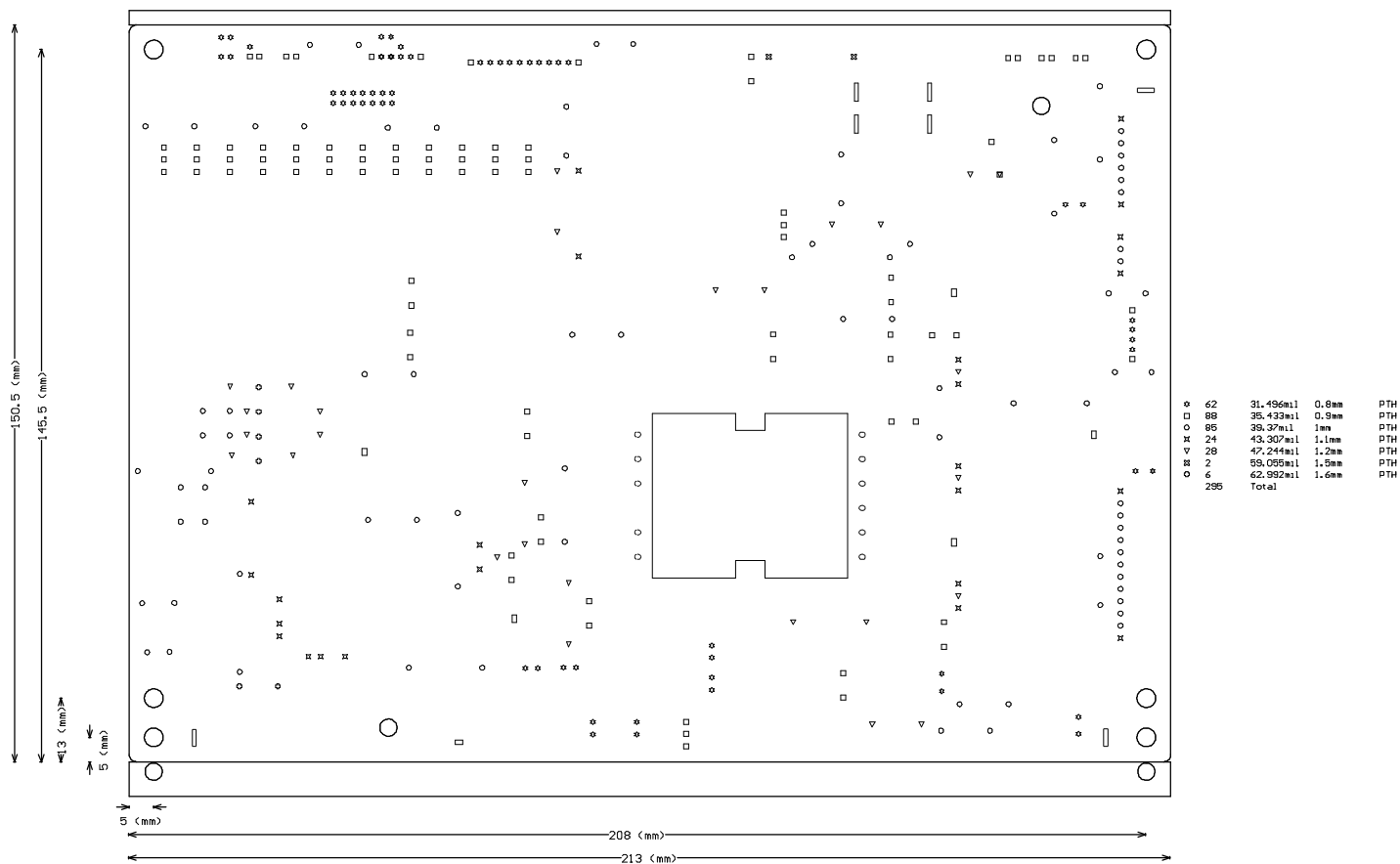
Note:

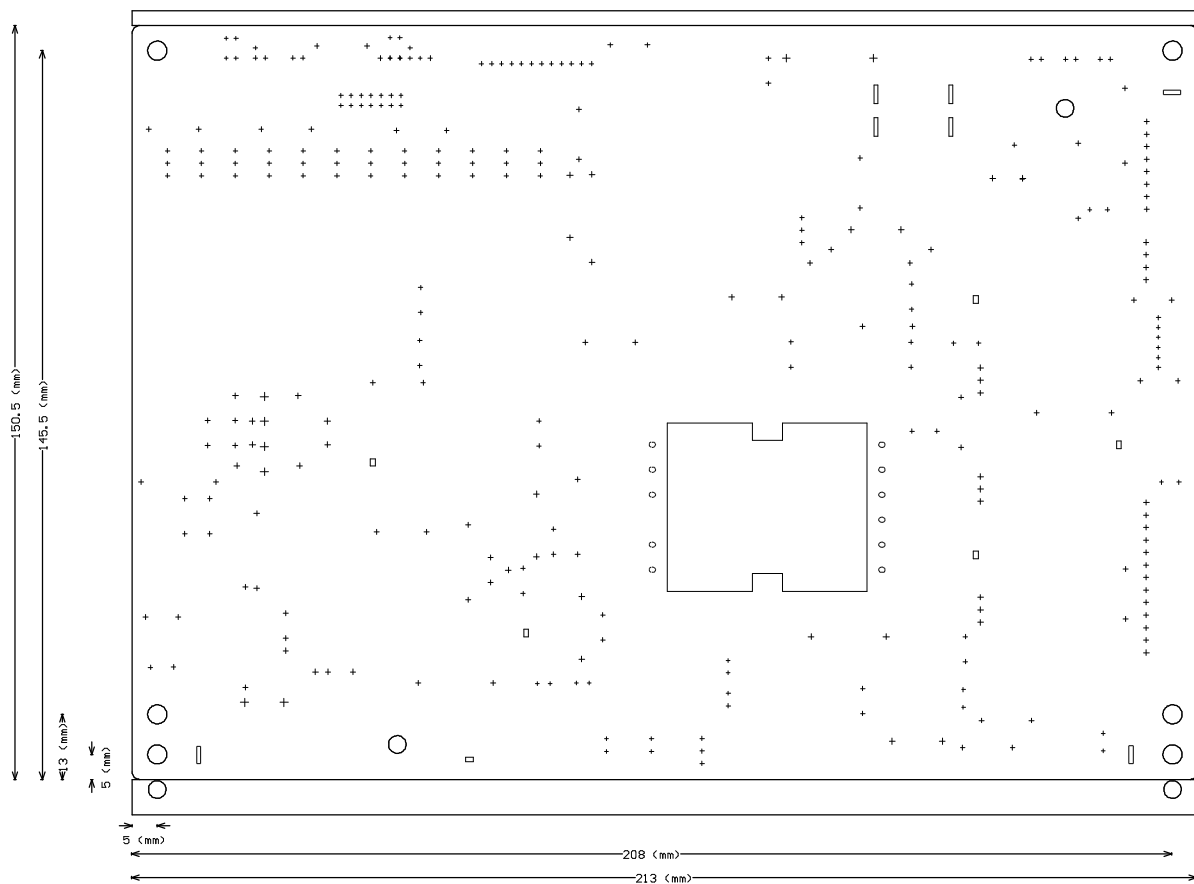
After the factory reset, in PC mode, use a 16 grey scale pattern and select “Auto Colour” in the OSD menu to do ADC colour calibration in order to have better PC display.

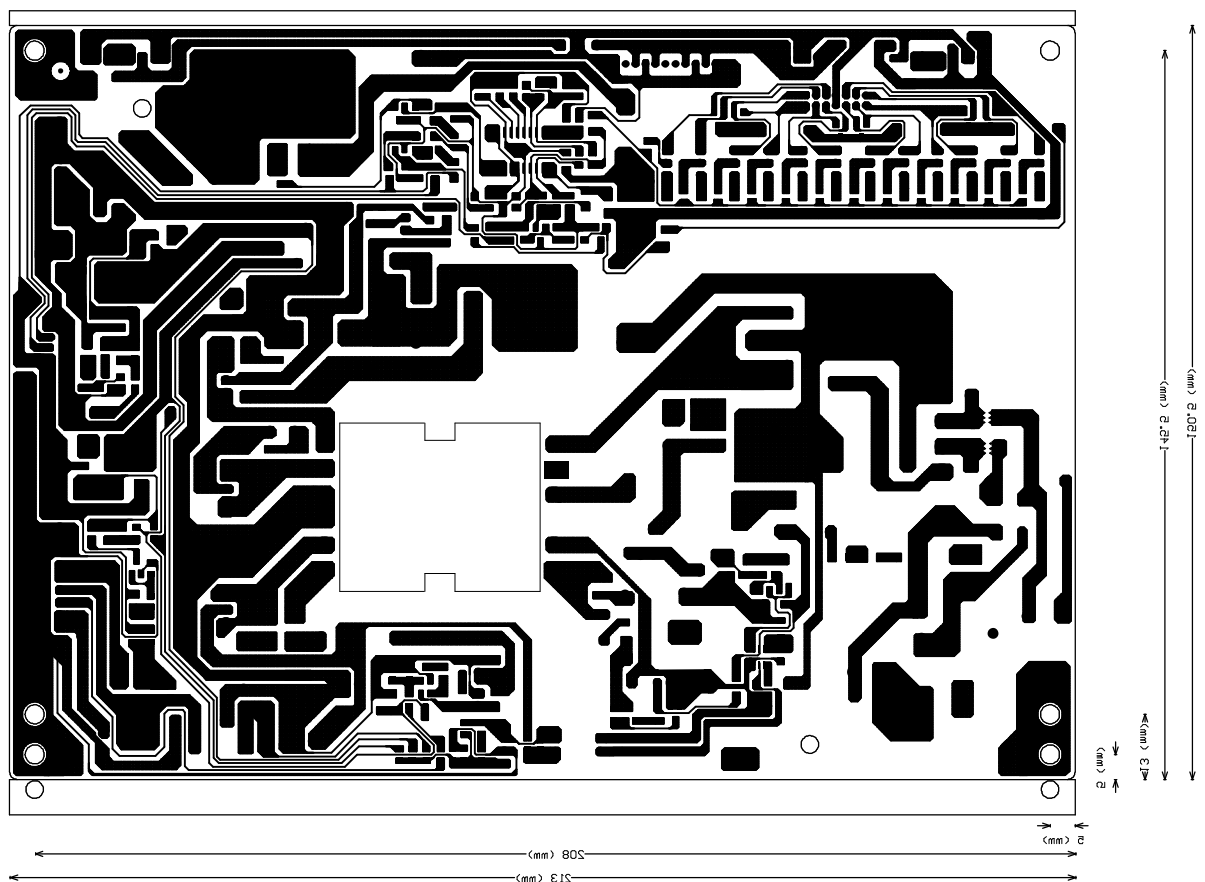
Block Diagram

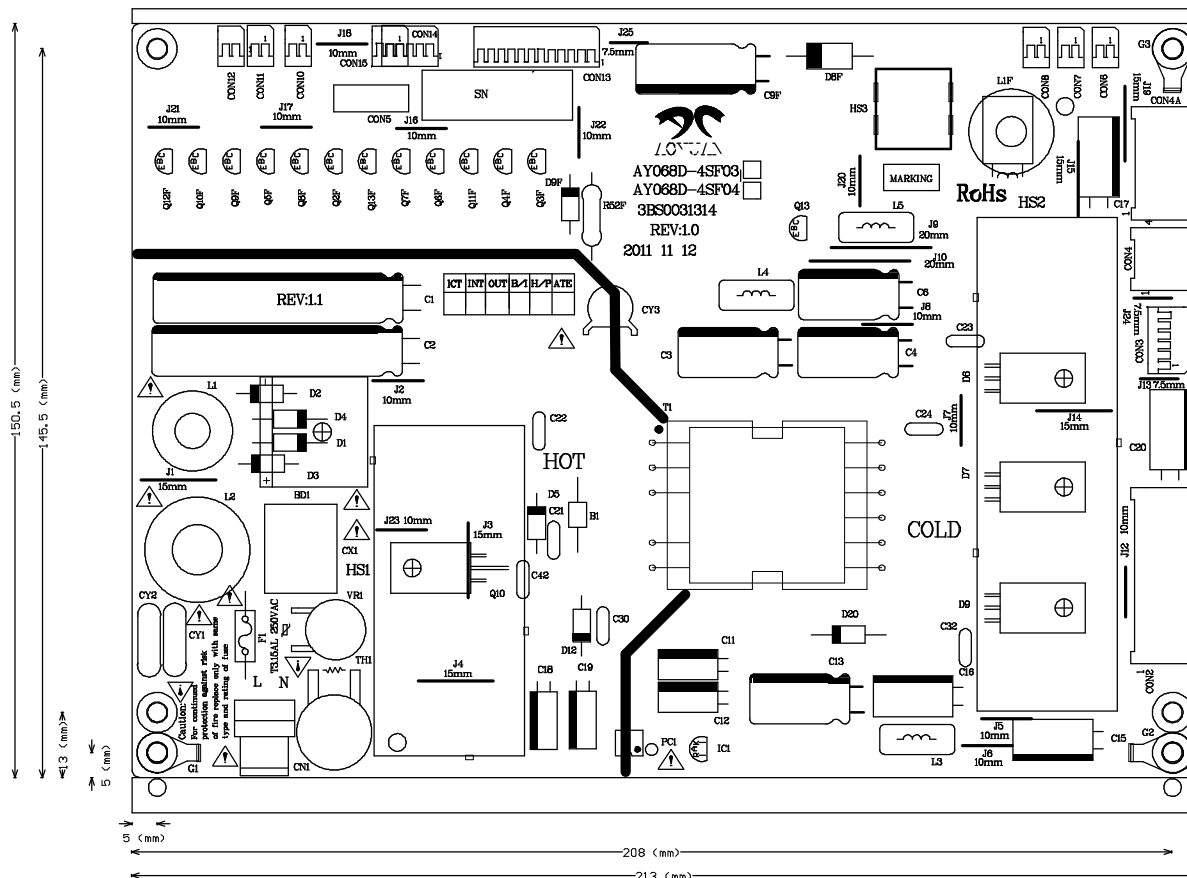


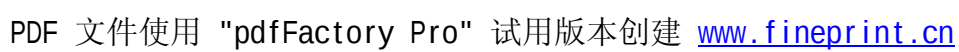


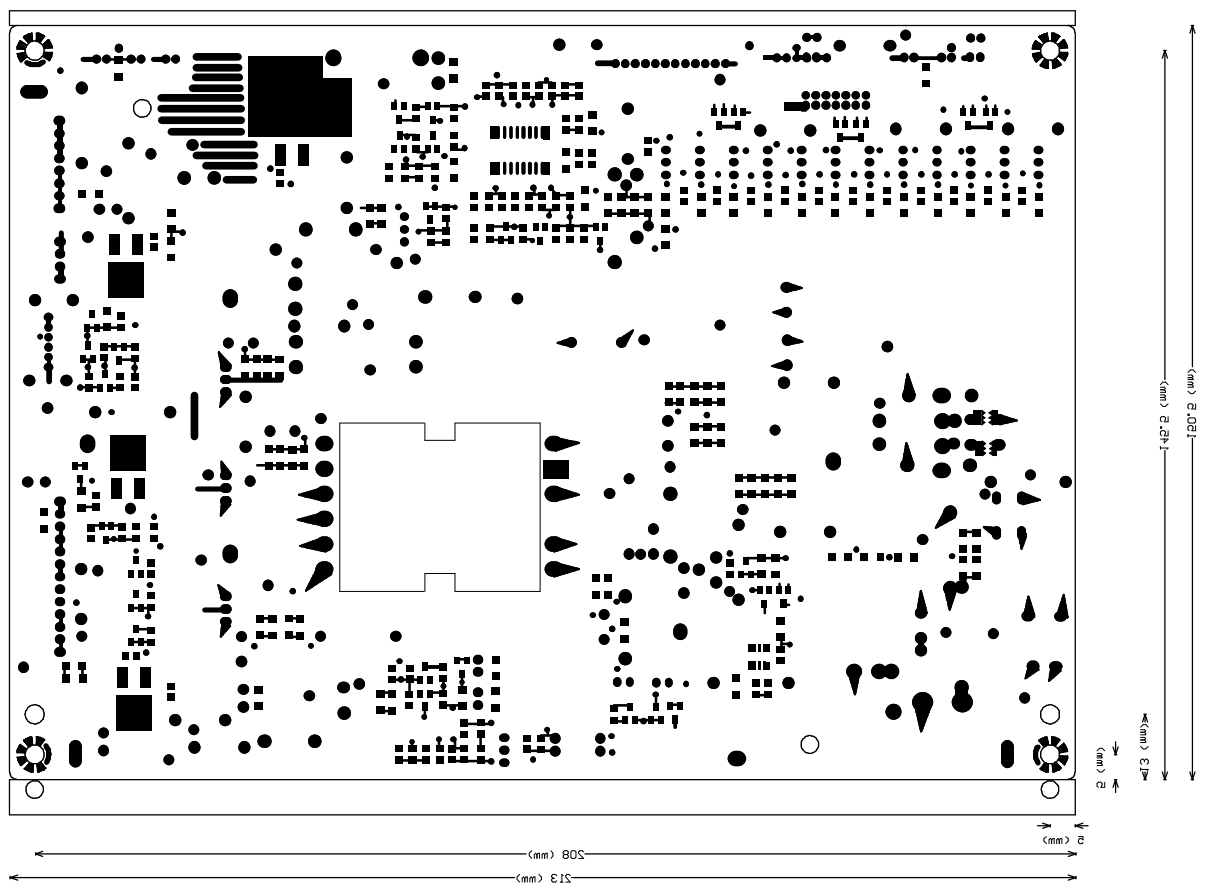


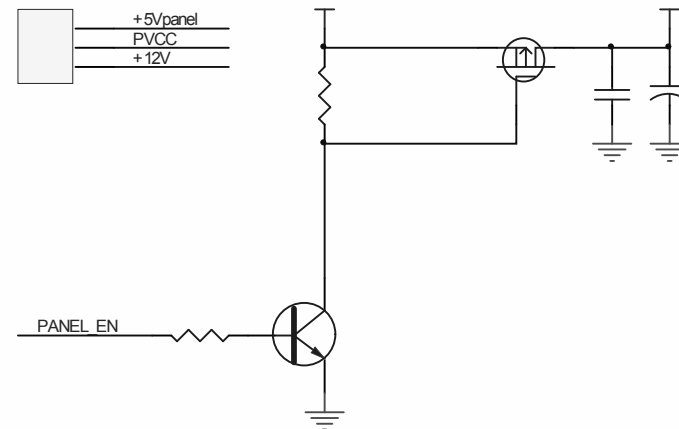
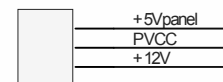
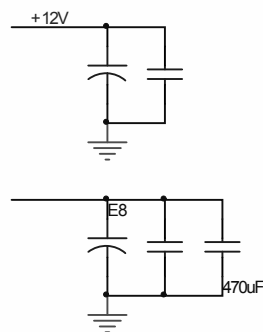
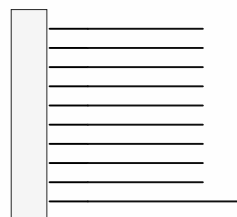
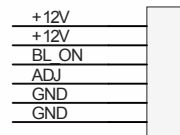
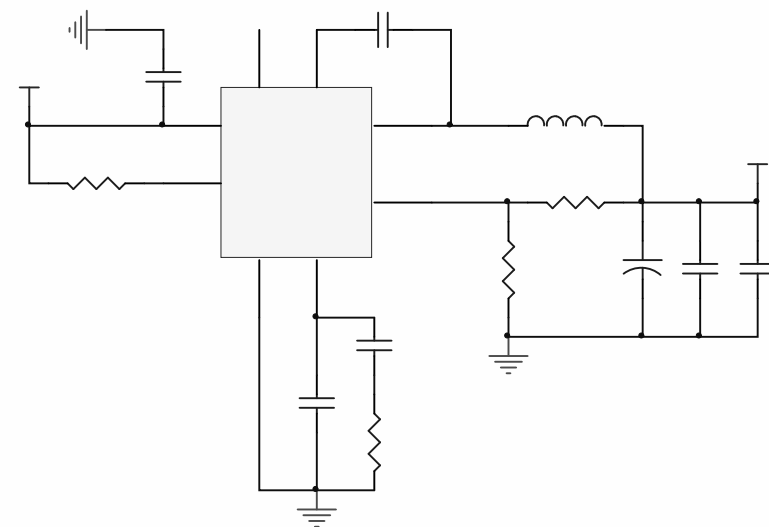
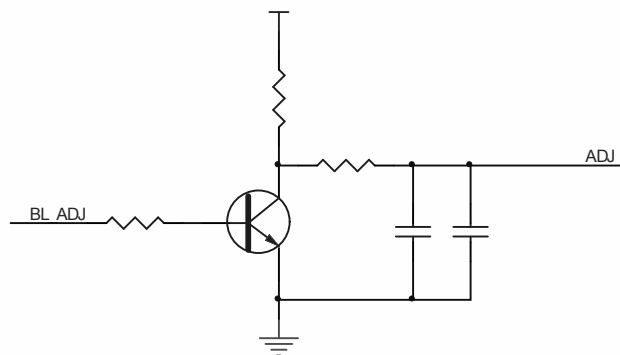
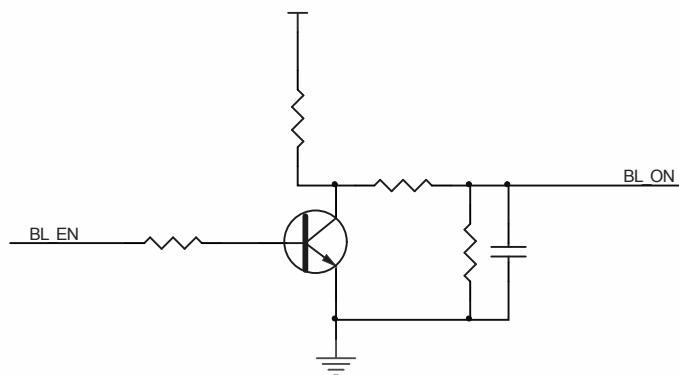
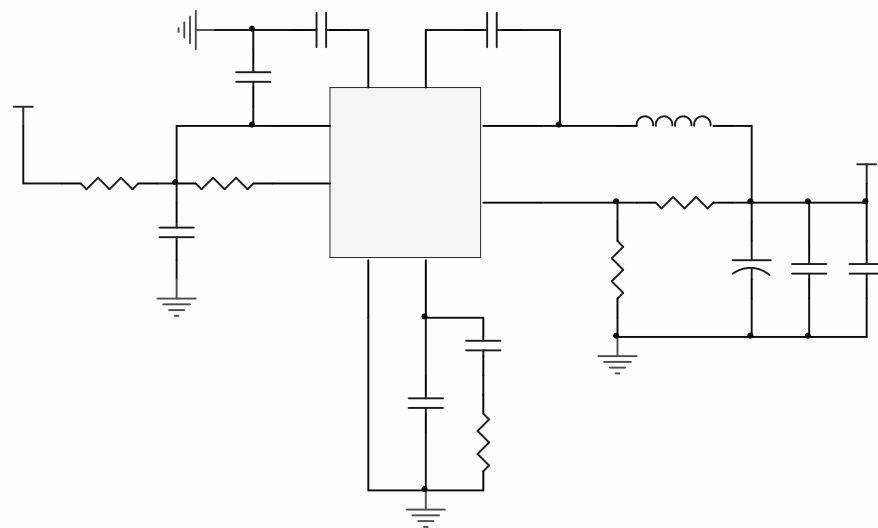
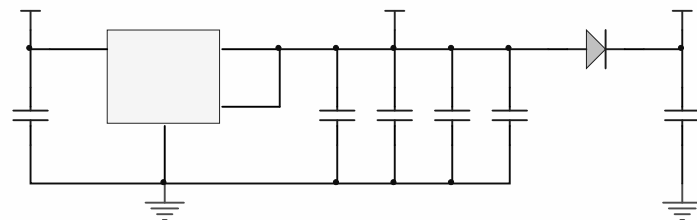
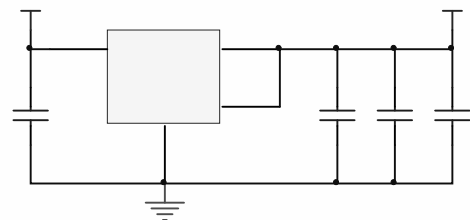


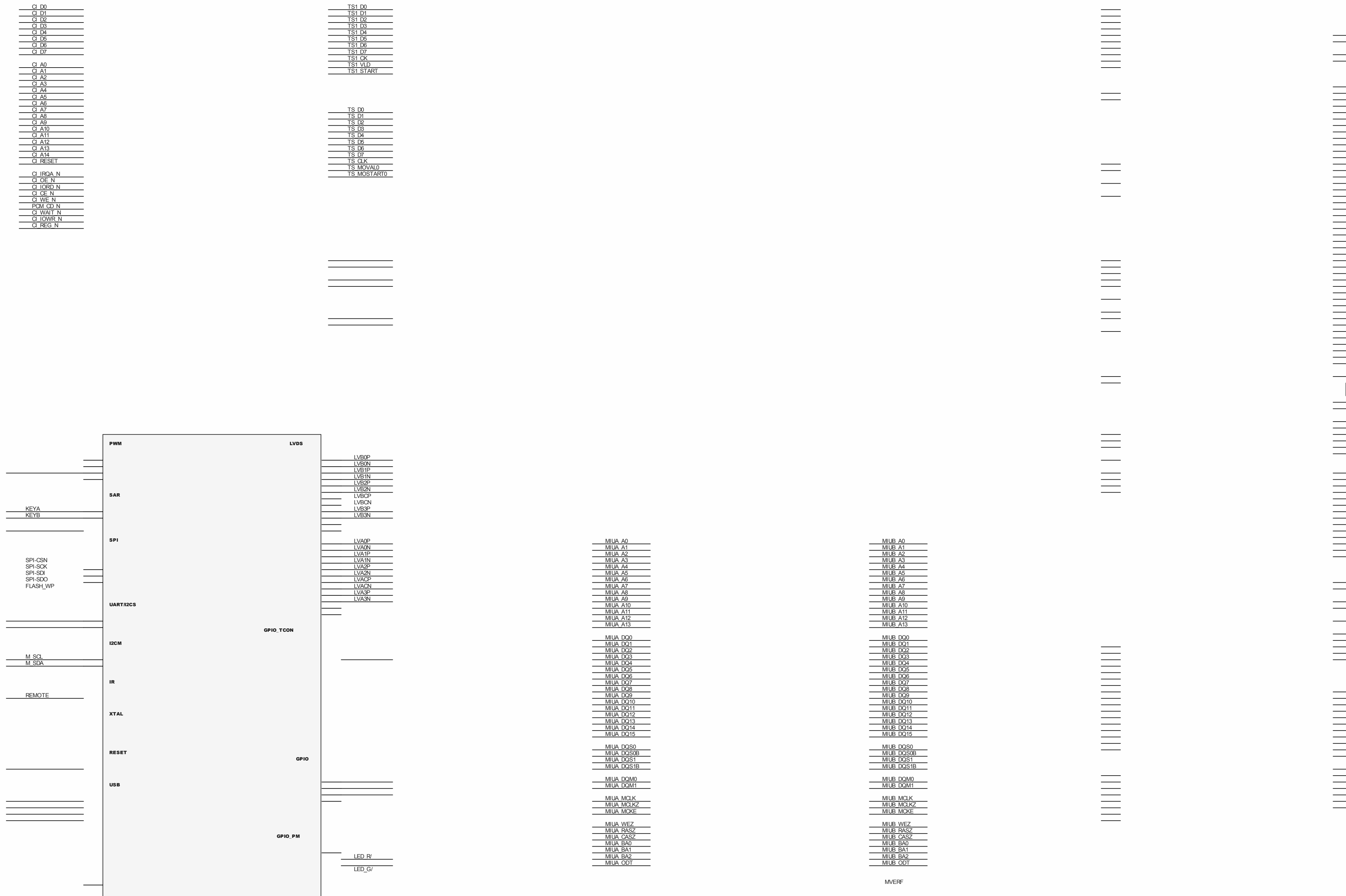


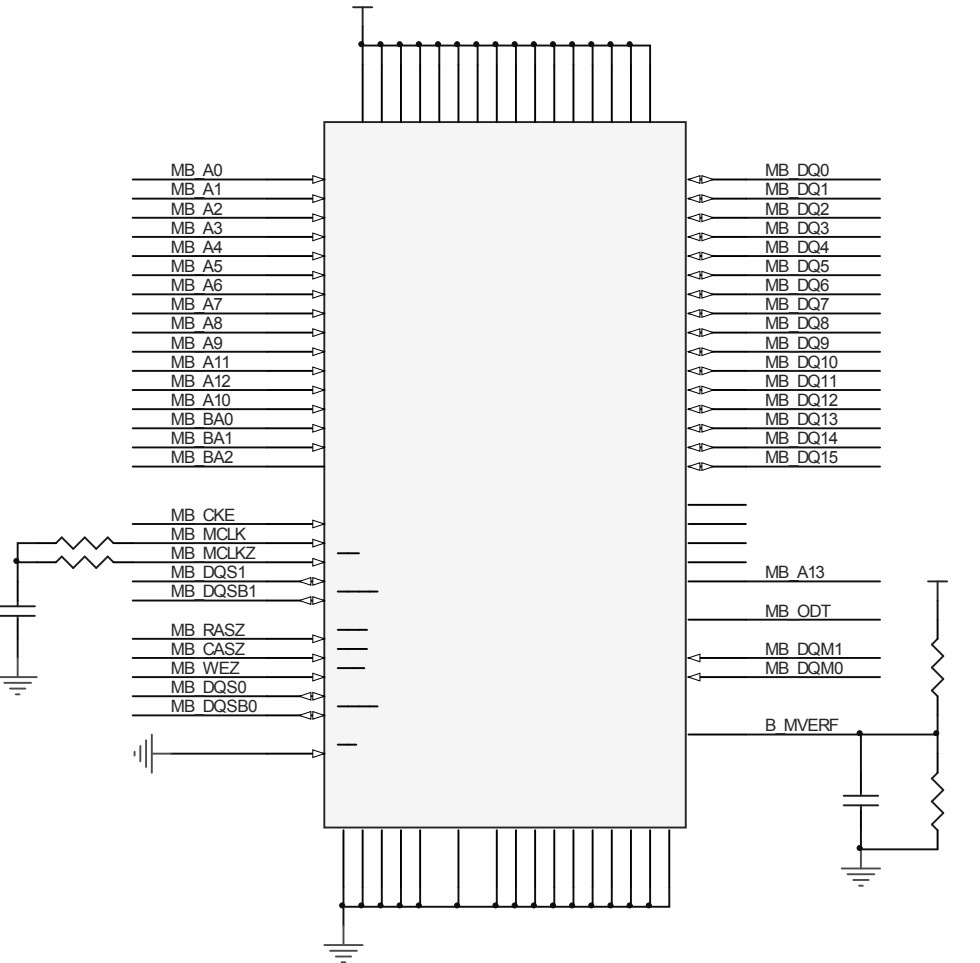
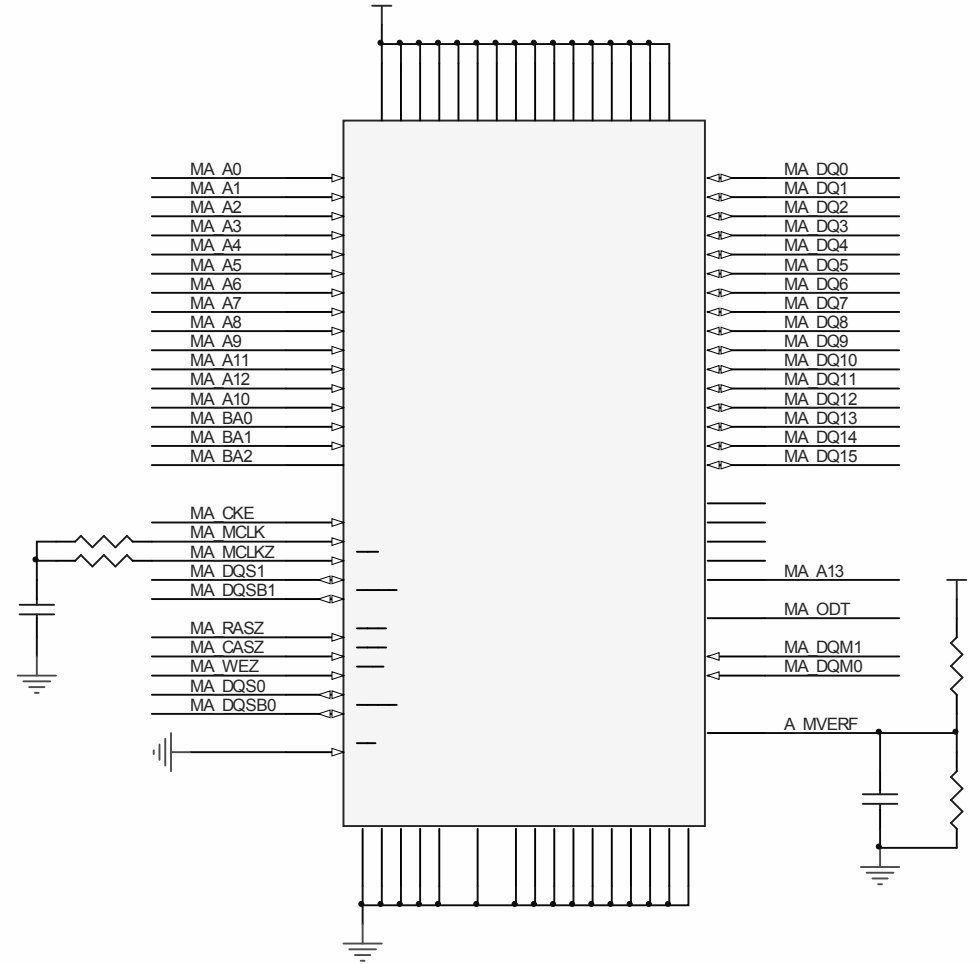
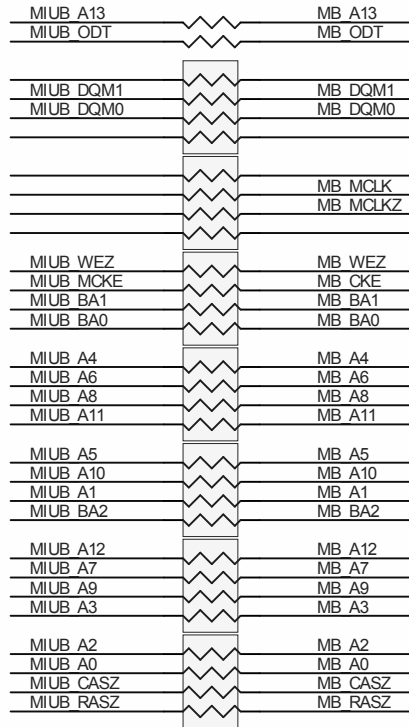
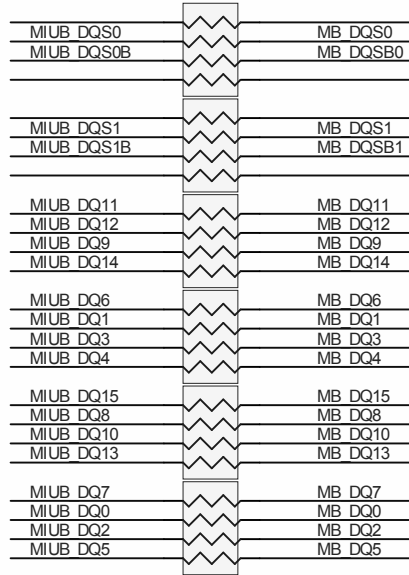
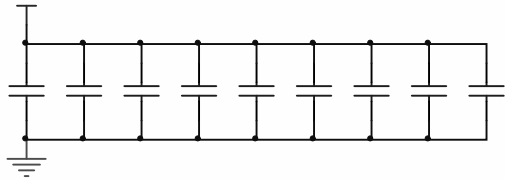
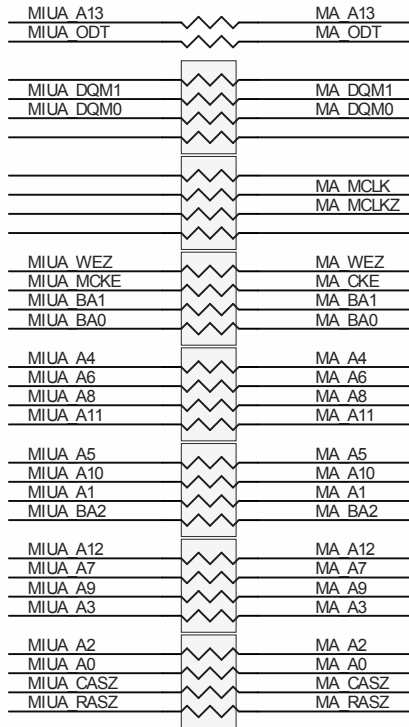
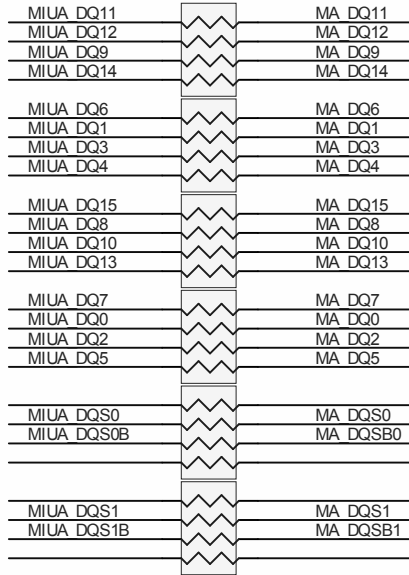
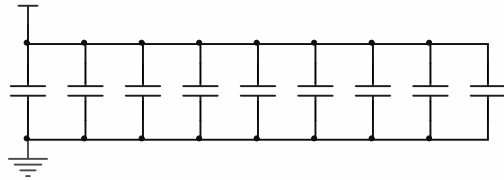


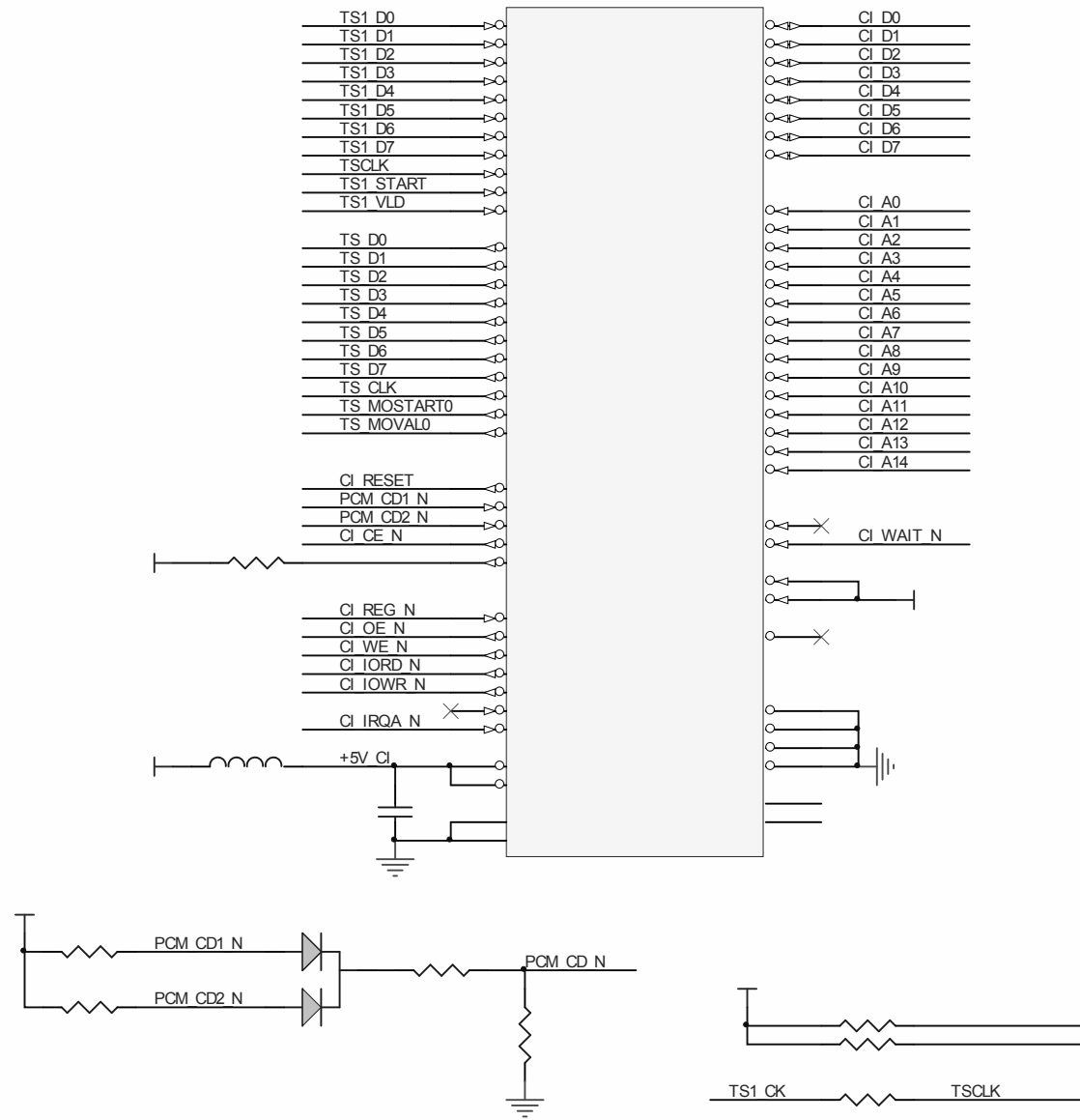


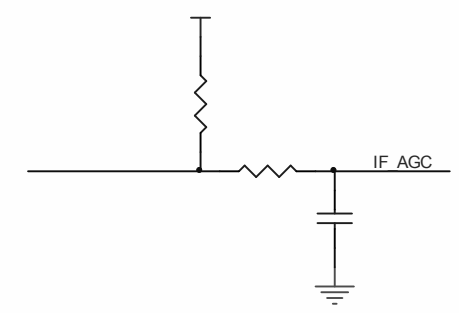
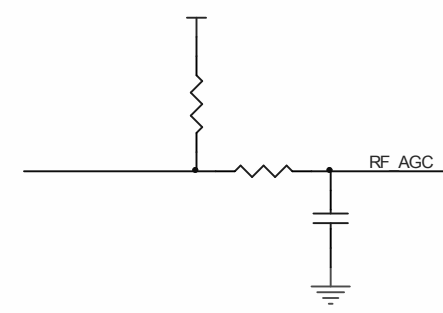
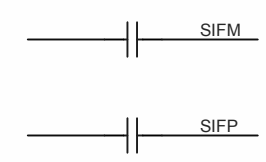
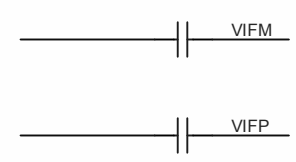
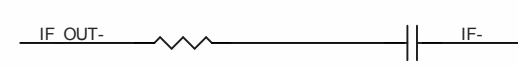
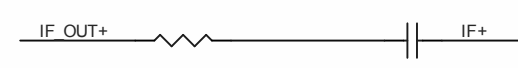
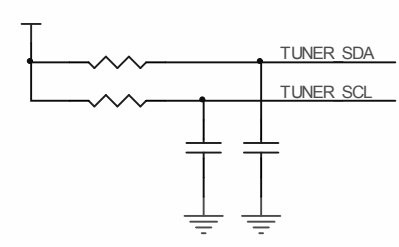
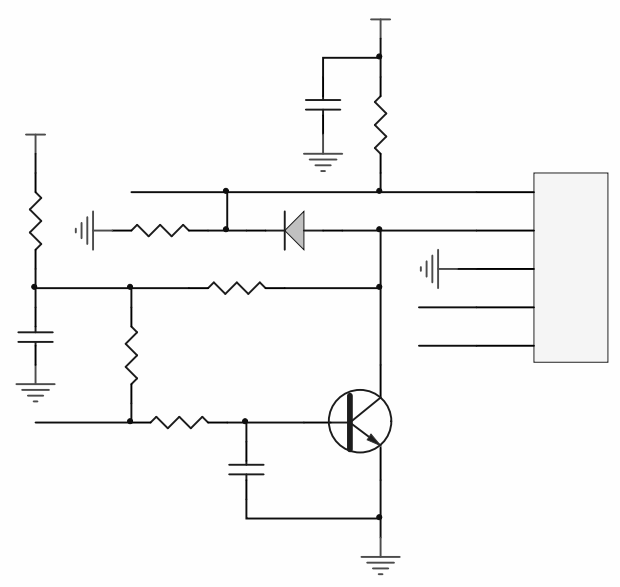
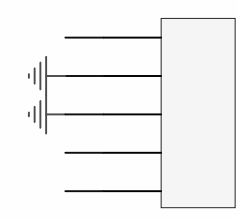
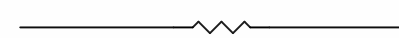
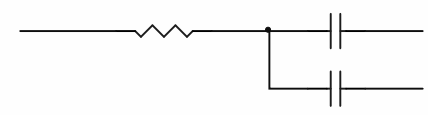
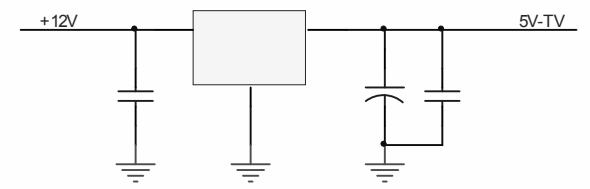
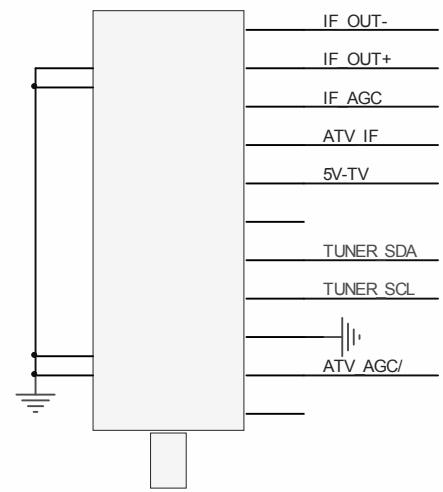


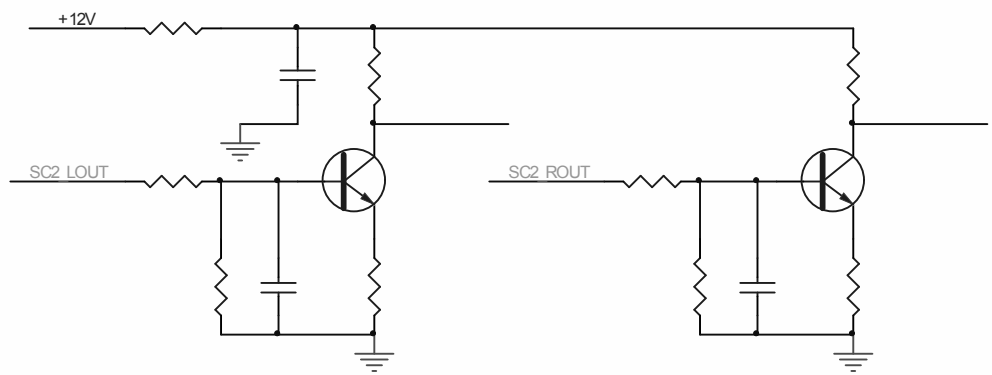
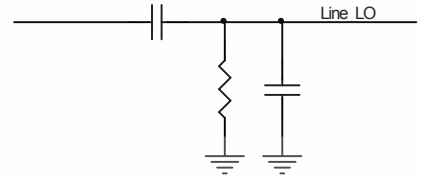
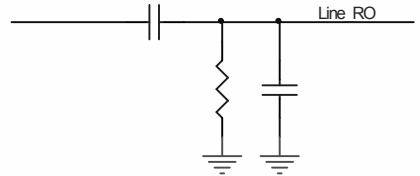
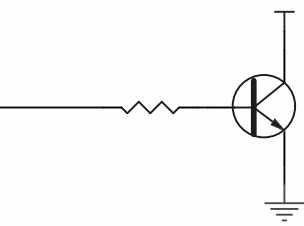
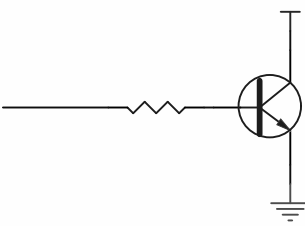
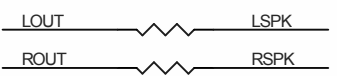
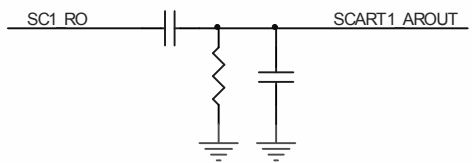
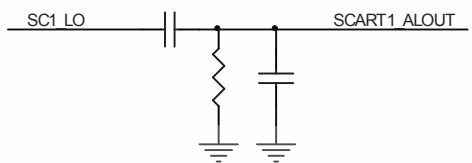
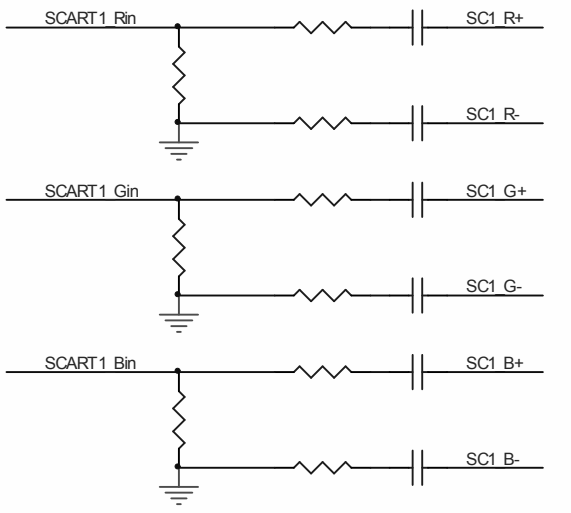
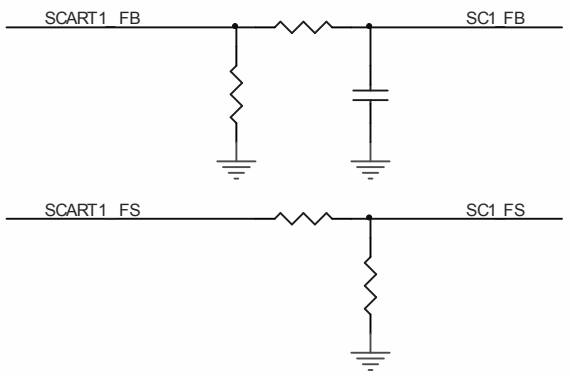
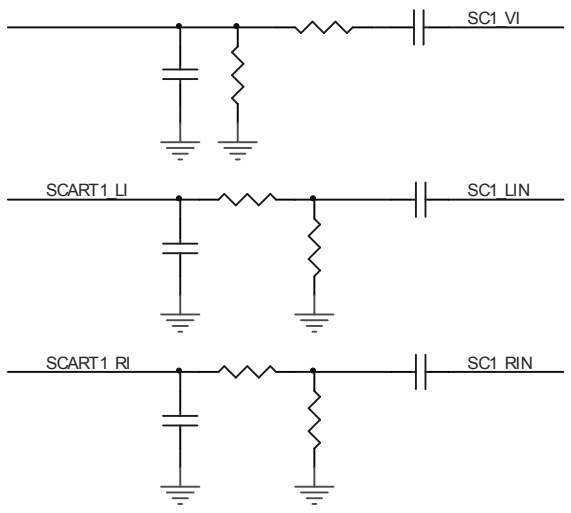
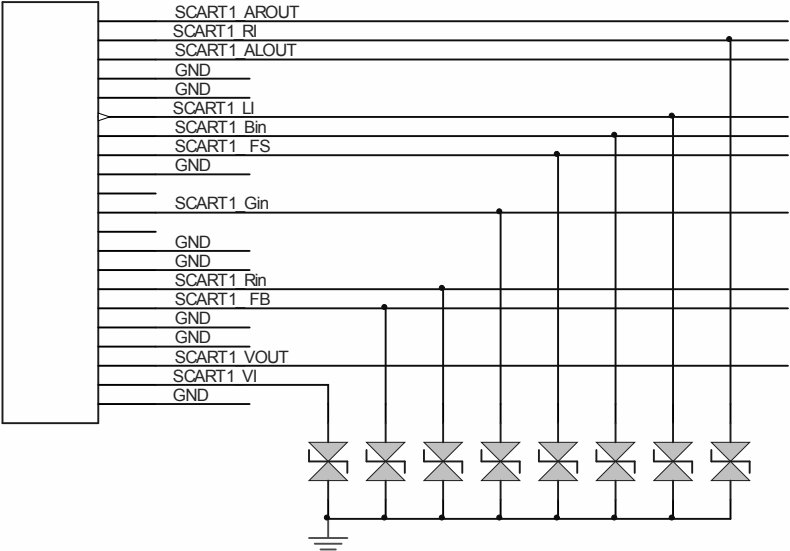


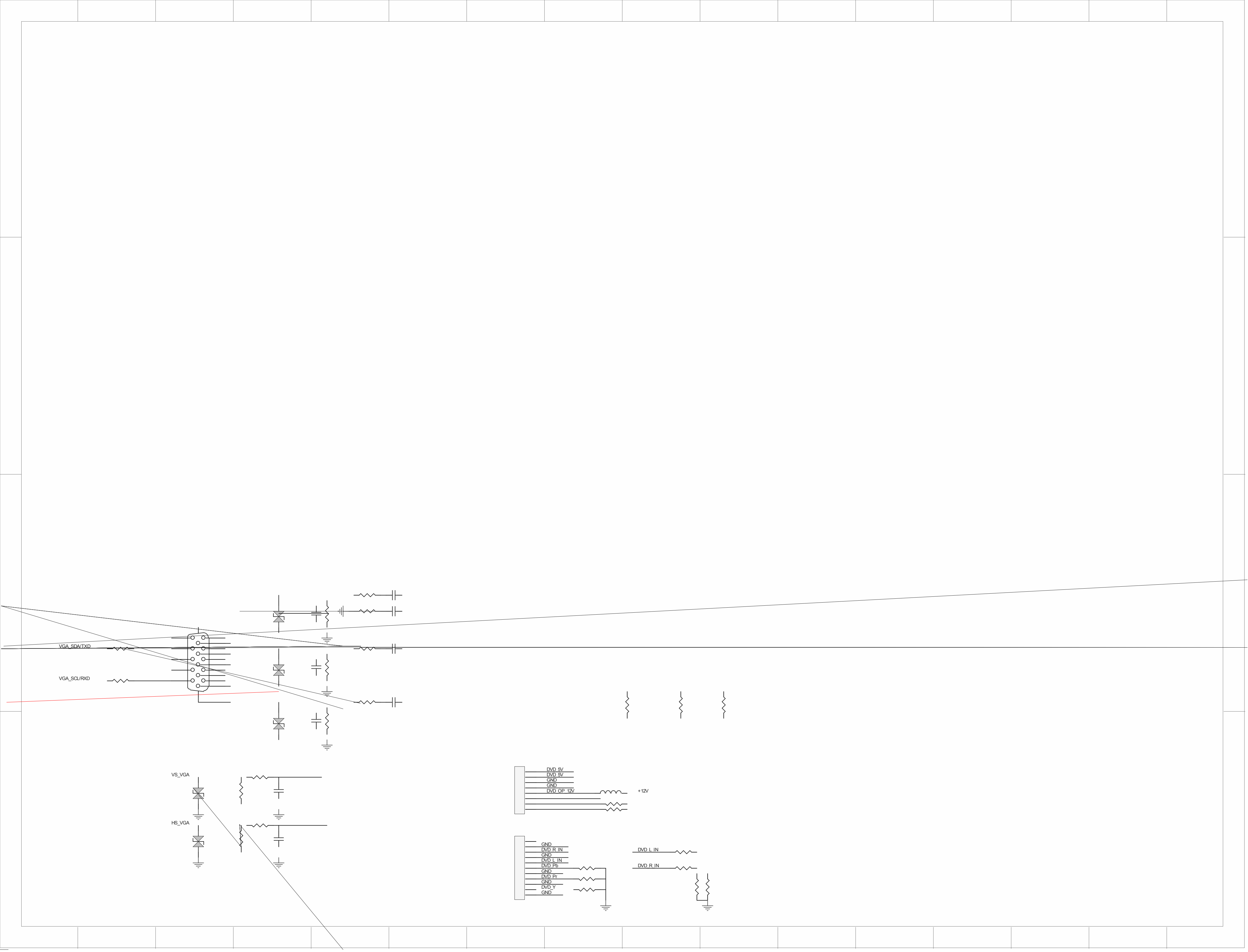


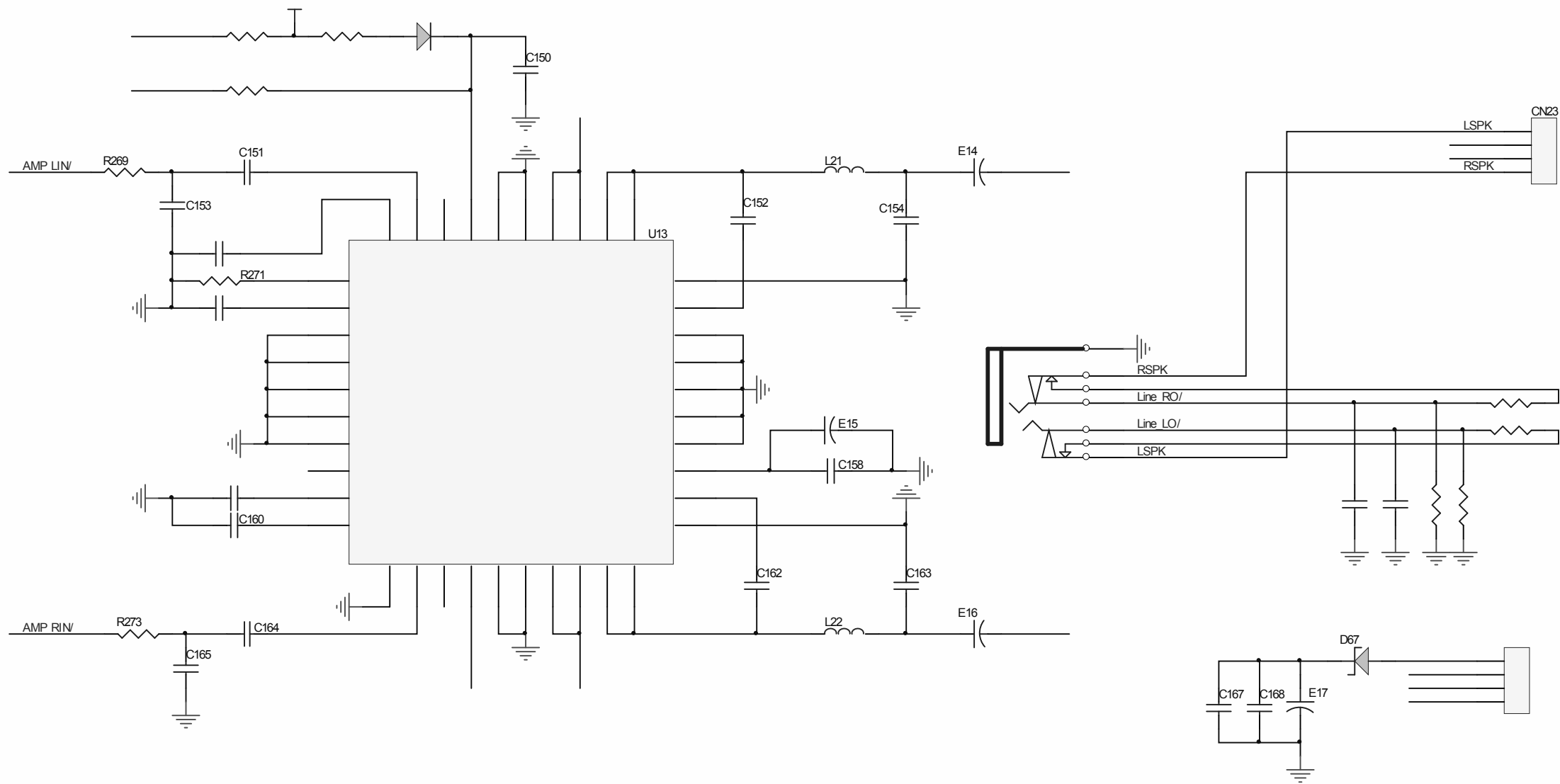


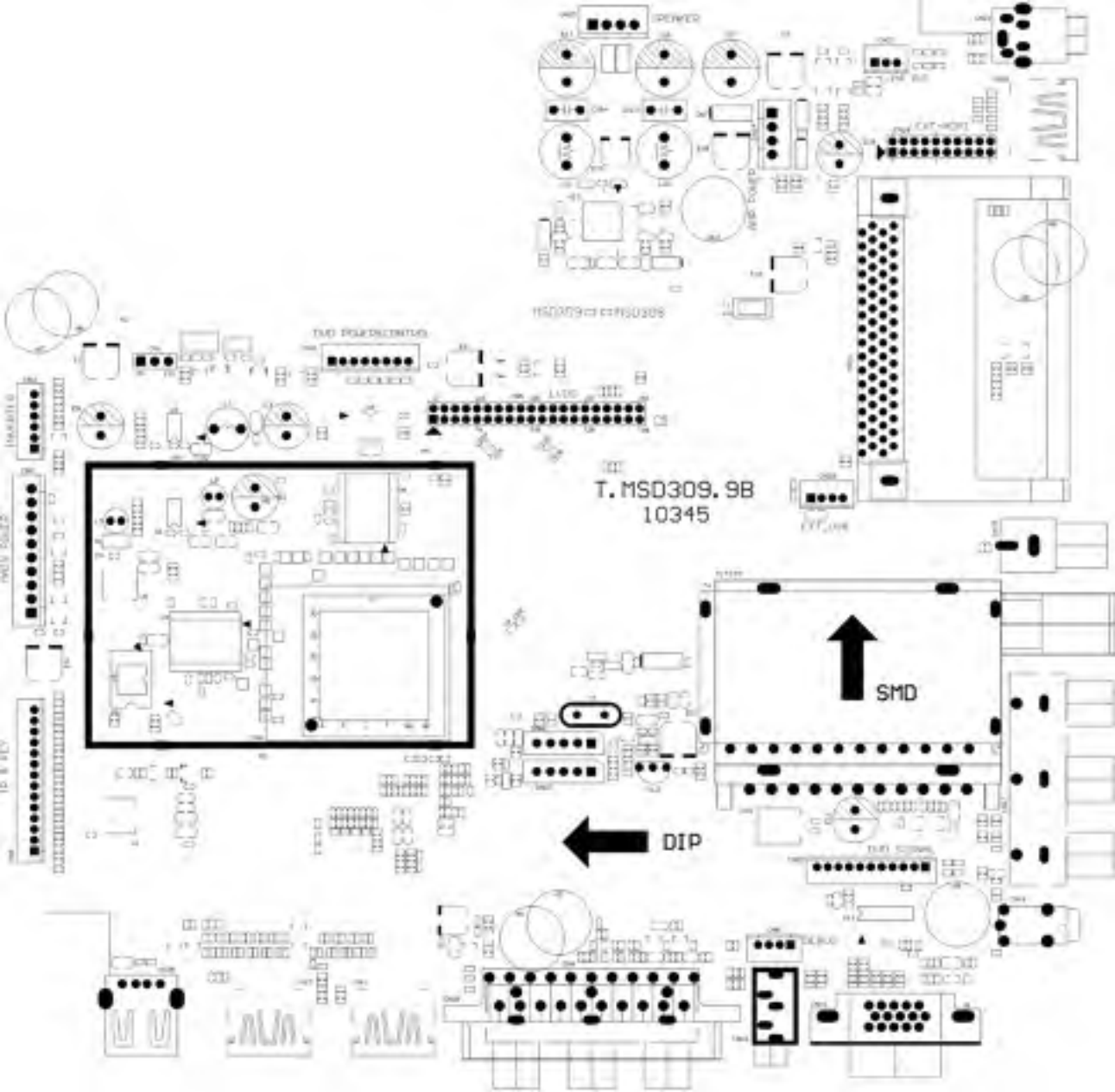


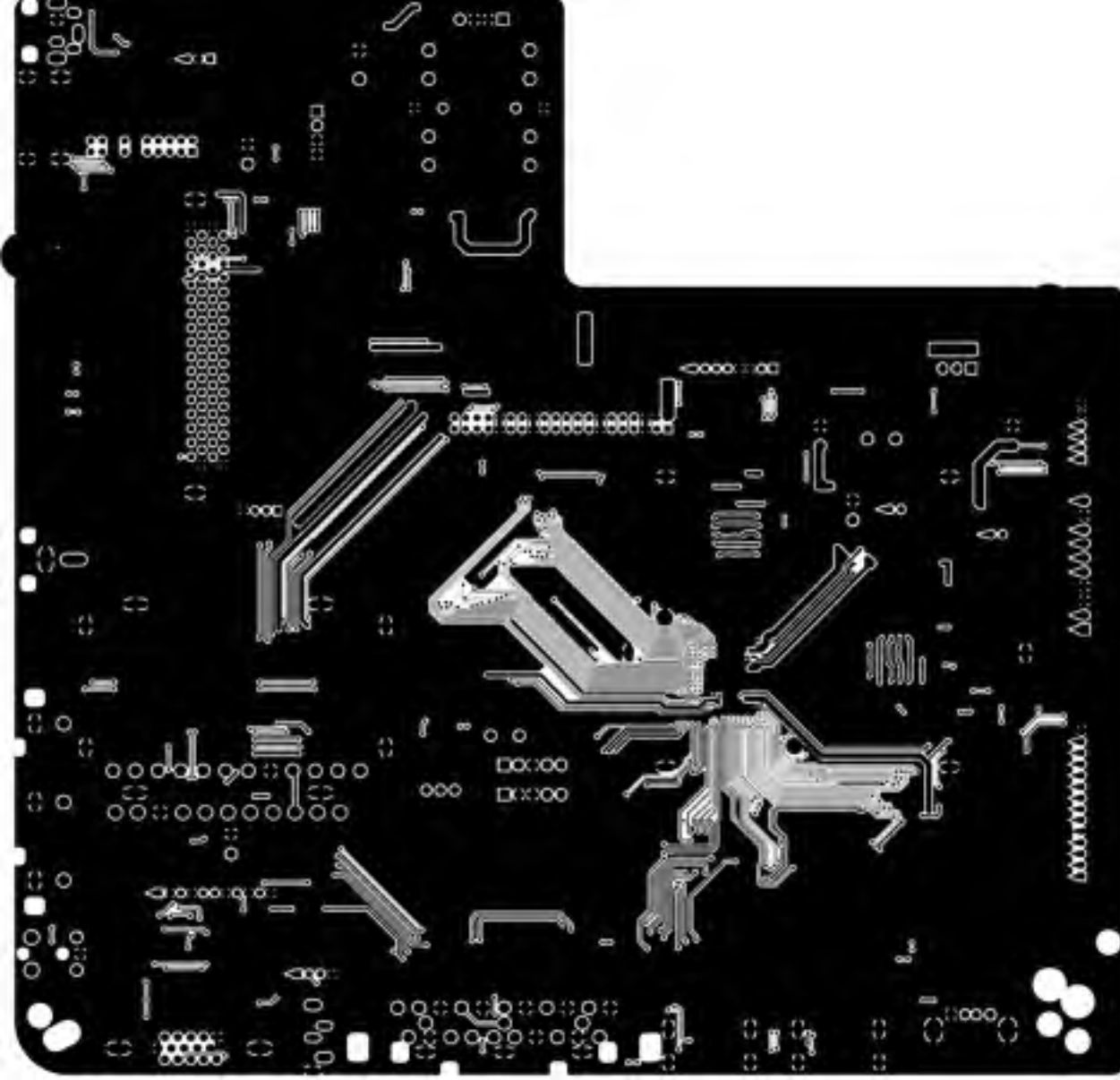


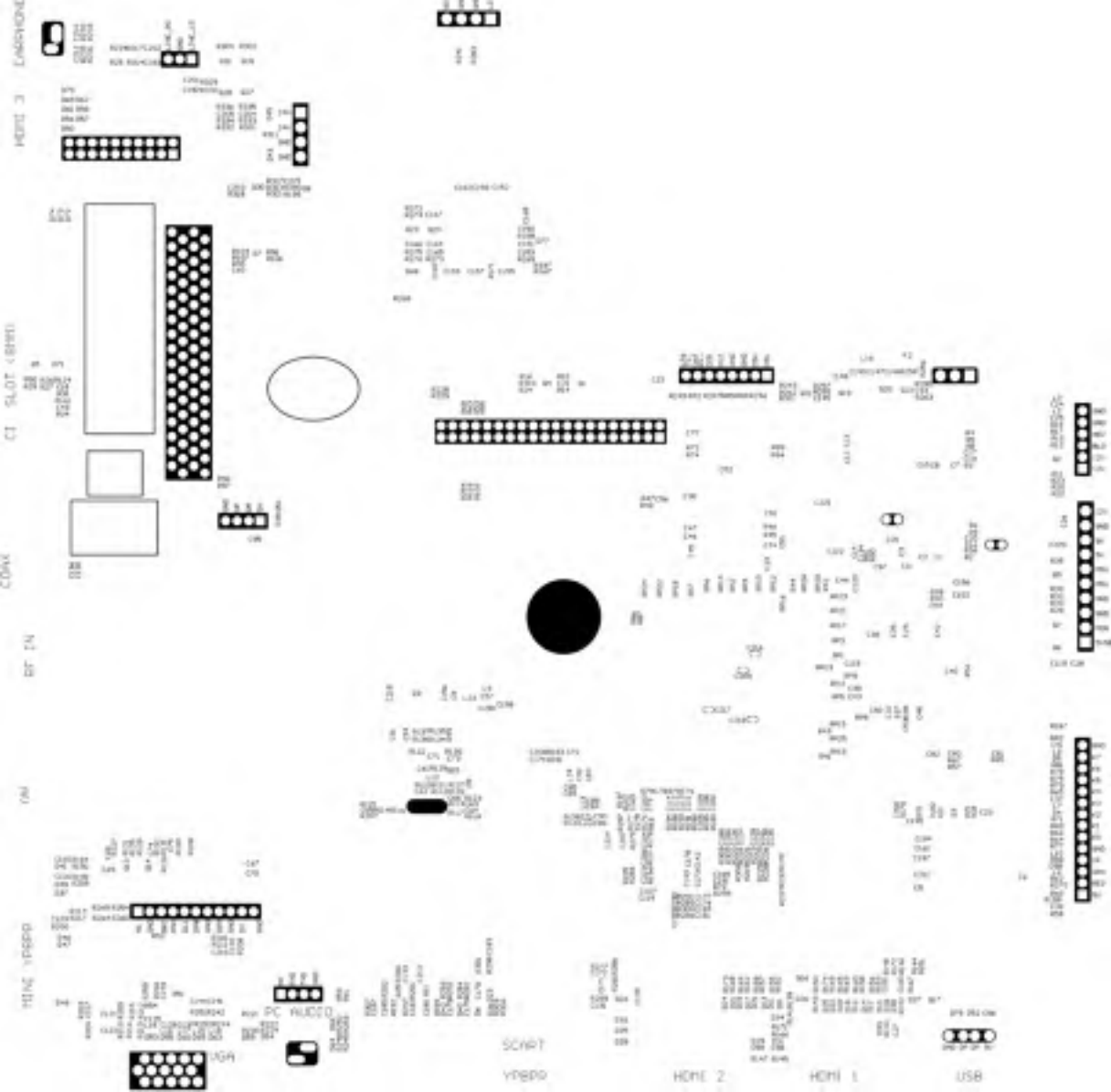


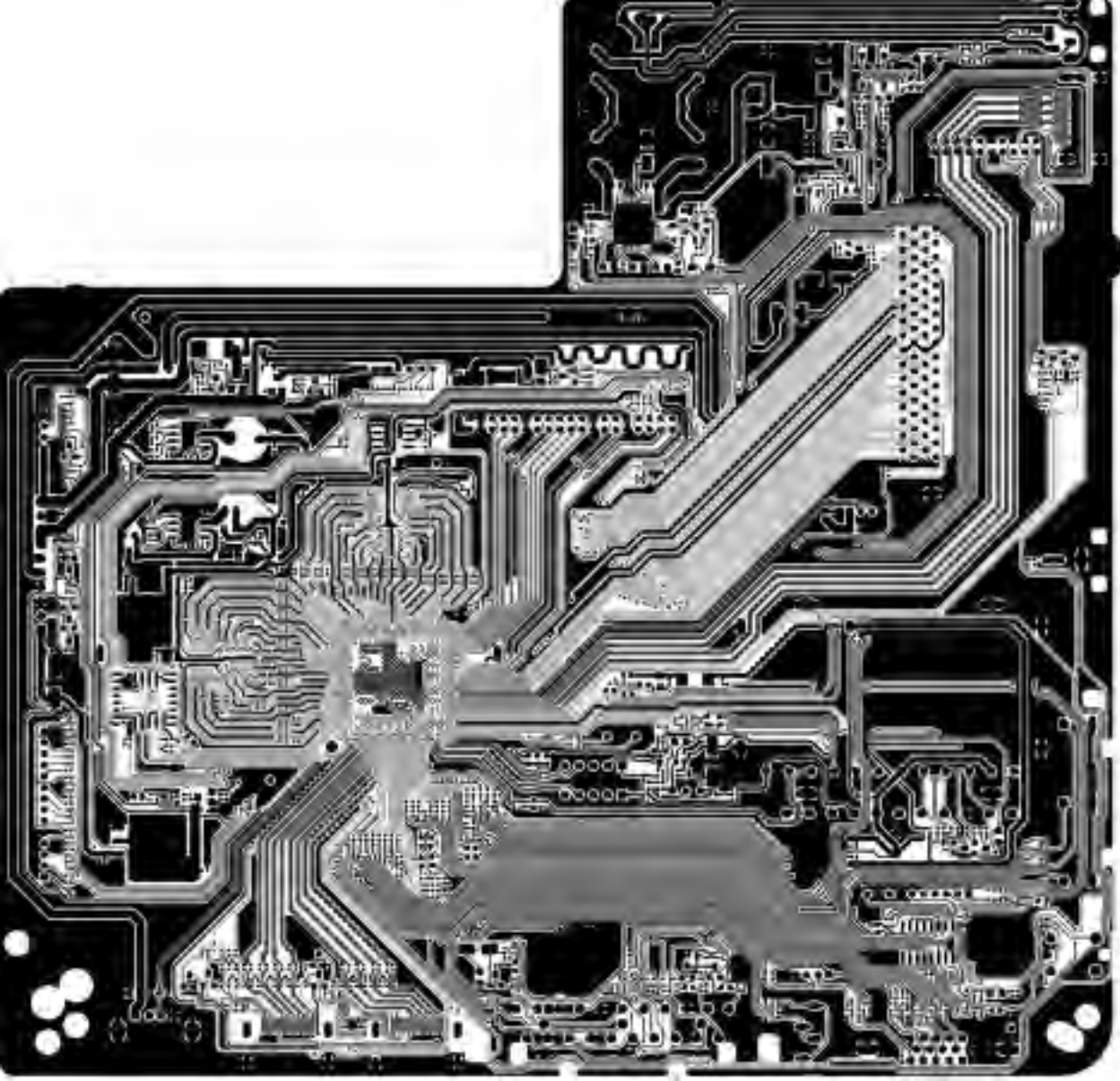


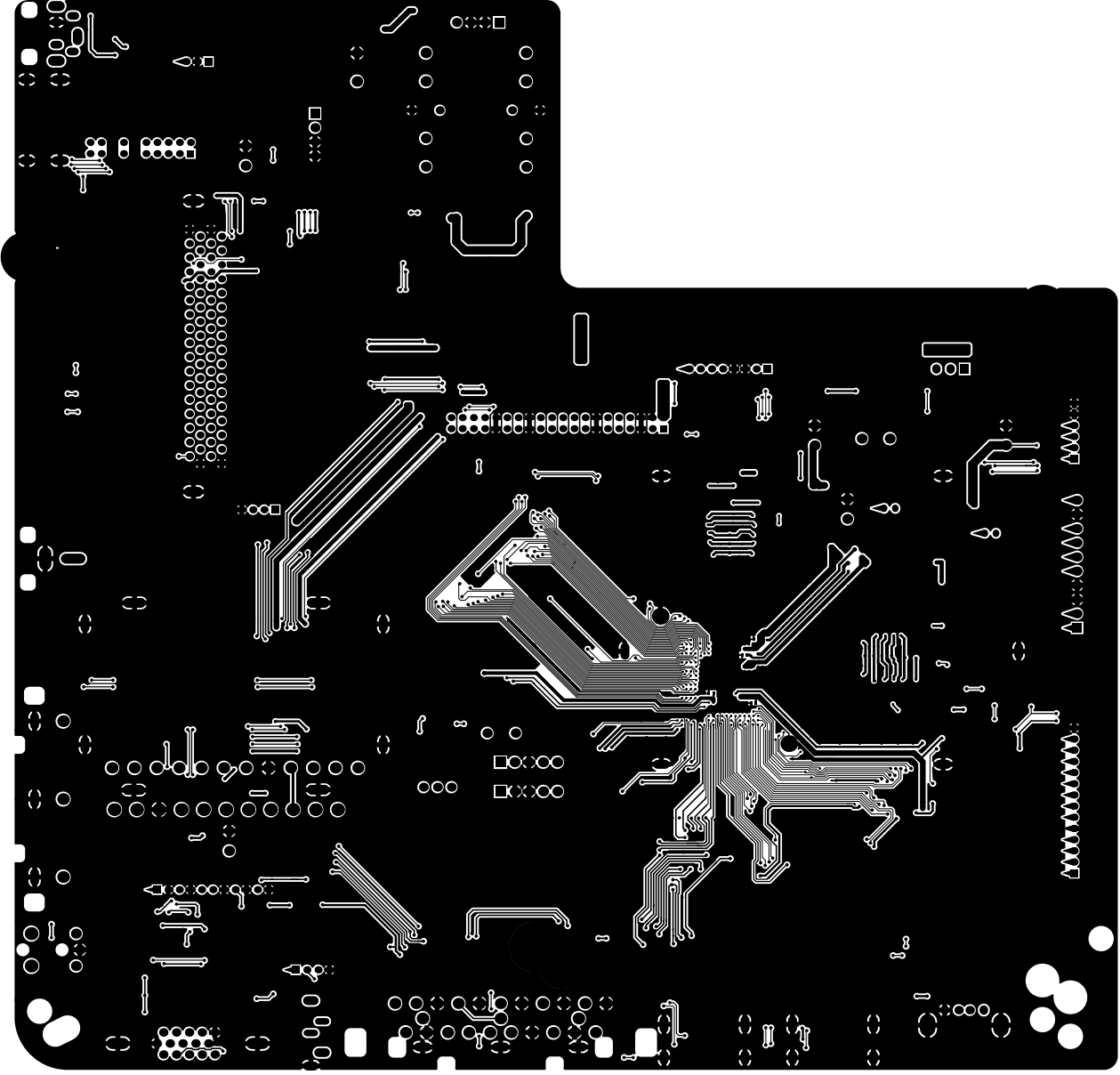












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