

LO-SANG

SERVICE MANUAL

FOR

LEM3283FDT/RU

REV.A

Contact Info:

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LEM3283FDT/RU

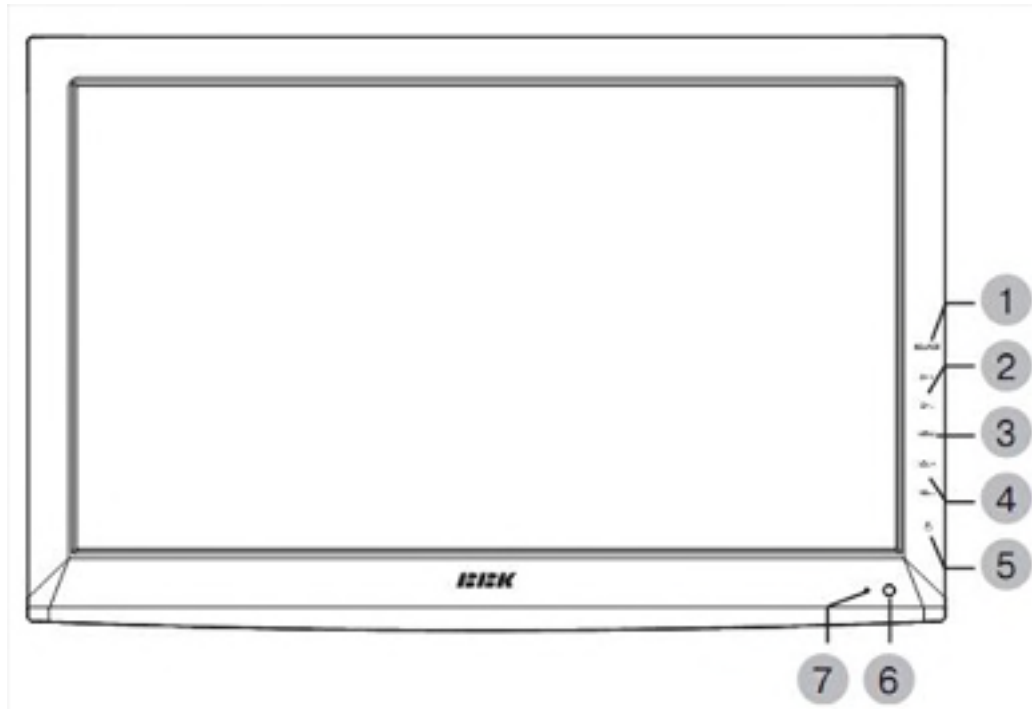
LCD Panel is CMO V315H3-LE4

1. Specification

1.1) SIDE Panel Function

Front

Controls on the Right-Hand Side



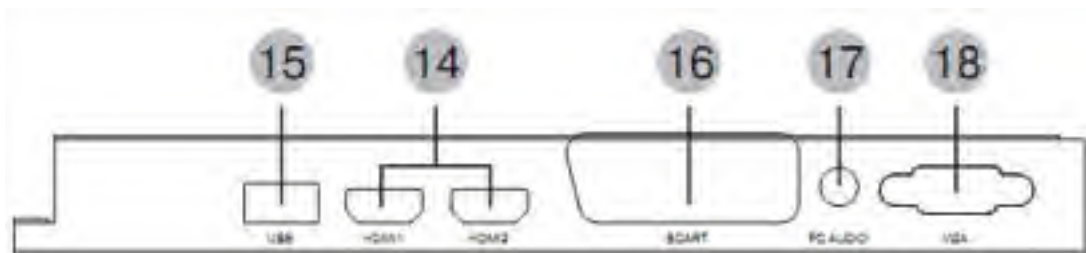
Item	Button Name	Function
1	SOURCE	Fast switch between source
2	CH + / CH -	Increase TV channel/Up navigation key Decrease TV channel/Down navigation key
3	MENU	Display the main menu on screen; used to go to the previous level of OSD.
4	VOL+ / VOL -	Increase and Decrease volume; used for decrement value 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

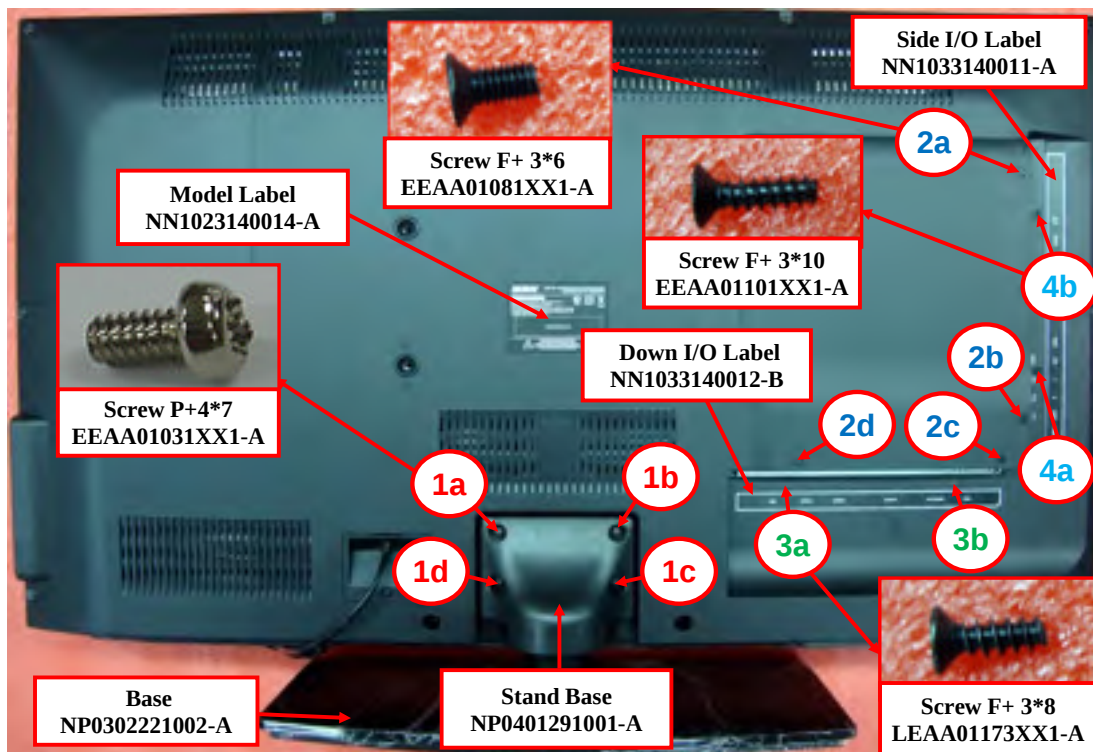


No.	Terminal
14.	HDMI 1&2 INPUT
15.	USB PORT
16.	SCART INPUT/OUTPUT
17.	VGA AUDIO INPUT
18.	VGA INPUT

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

2.DE-Assemble Process

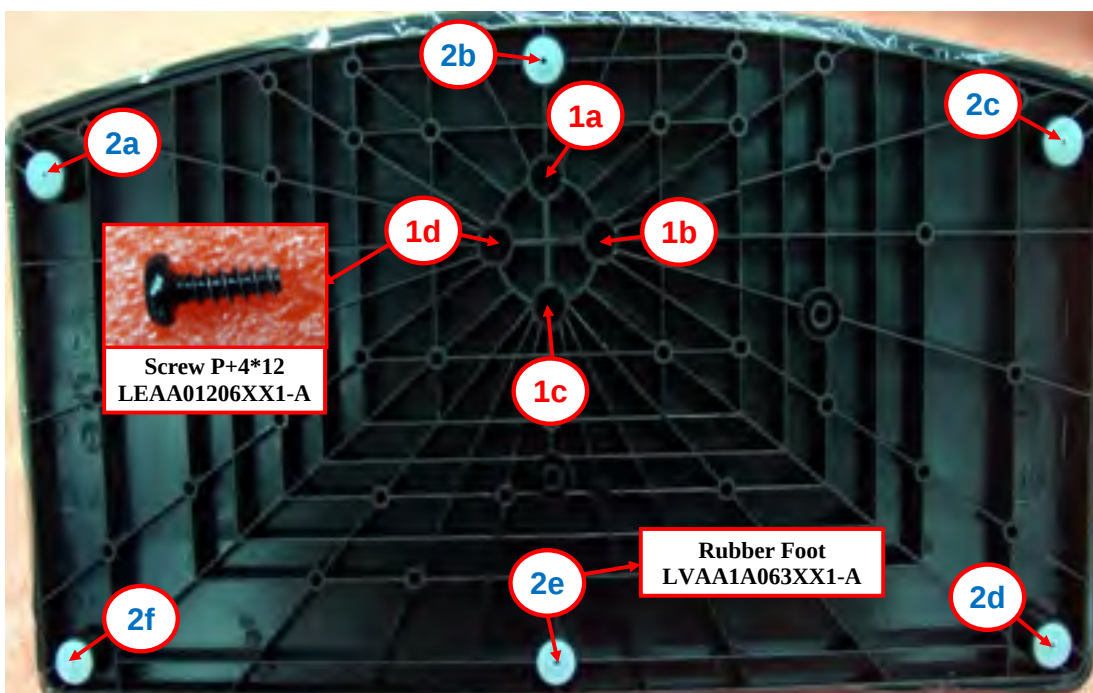
2.1) Stand De-Assemble



- 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

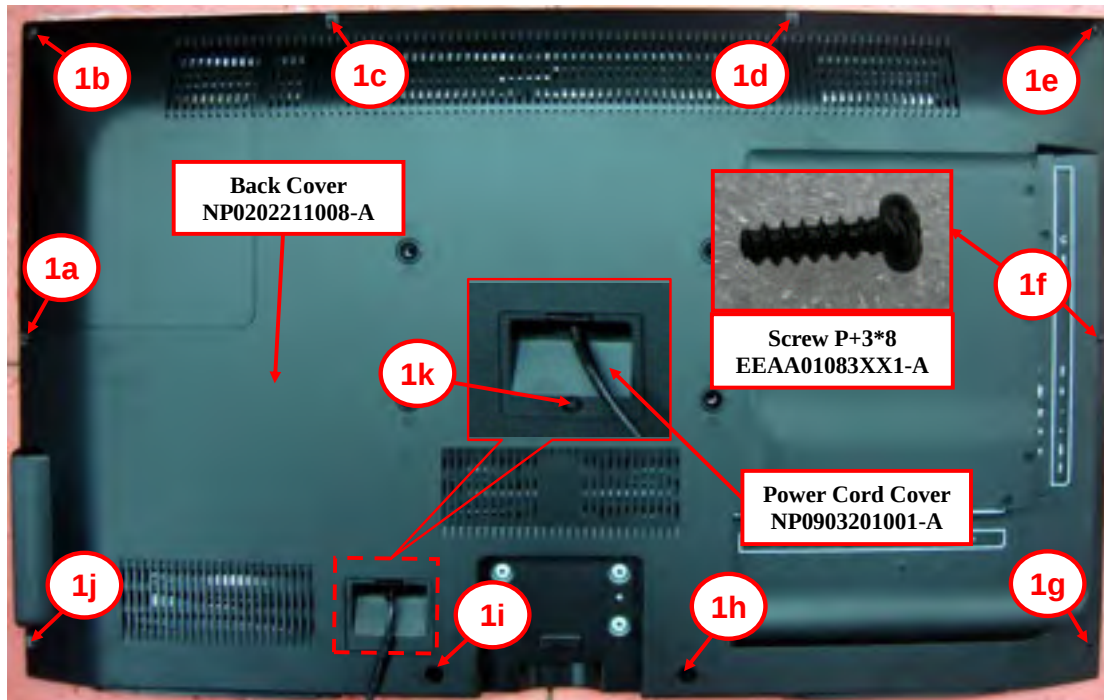
*Remark : State the **Color** & **Type** of Stand Base and Stand when requesting the Spare Parts

2.2) BASE de-assemble



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

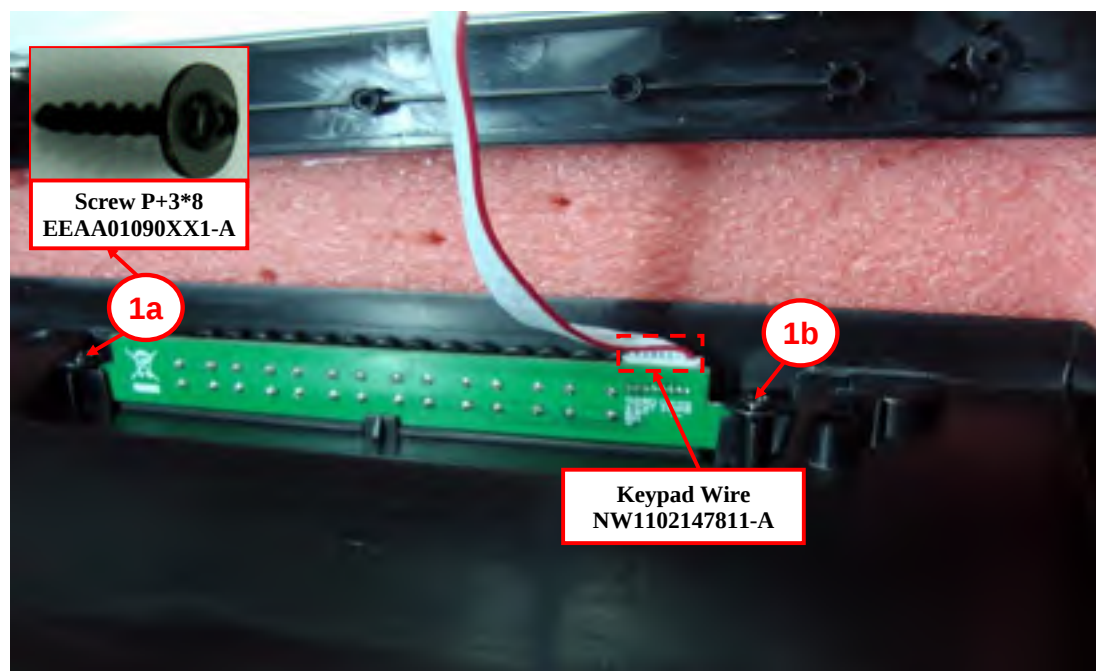
2.3) Back Cover De-Assemble and power cord cover



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

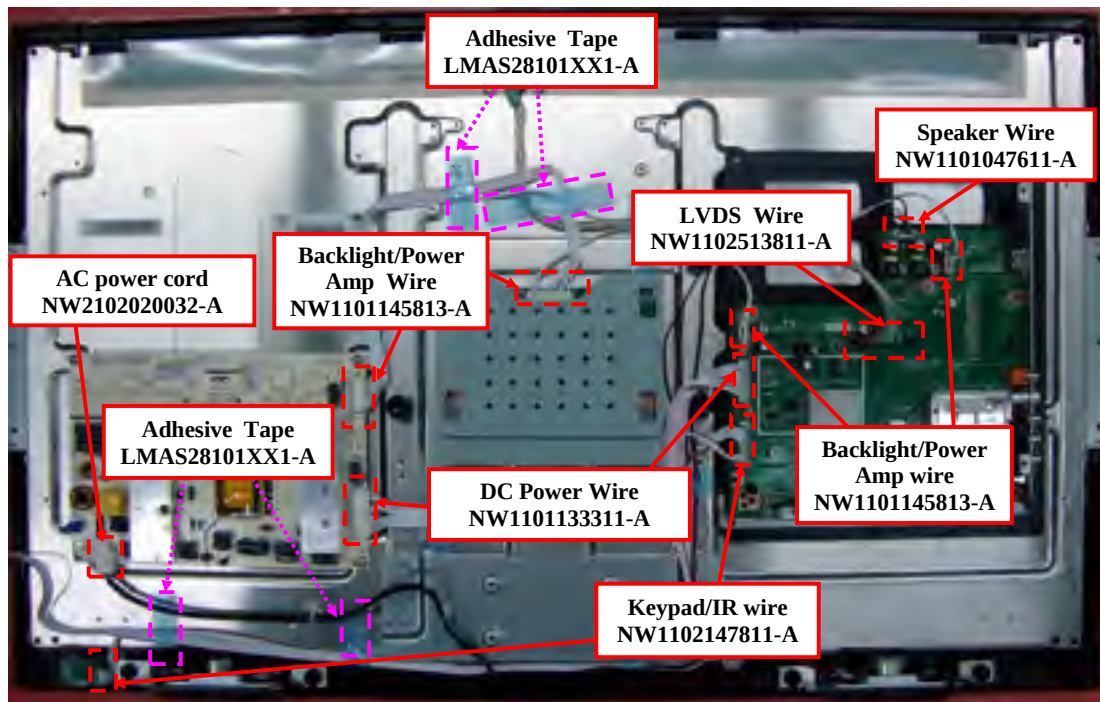
2.4) Remove the Back Cover from the front cover



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

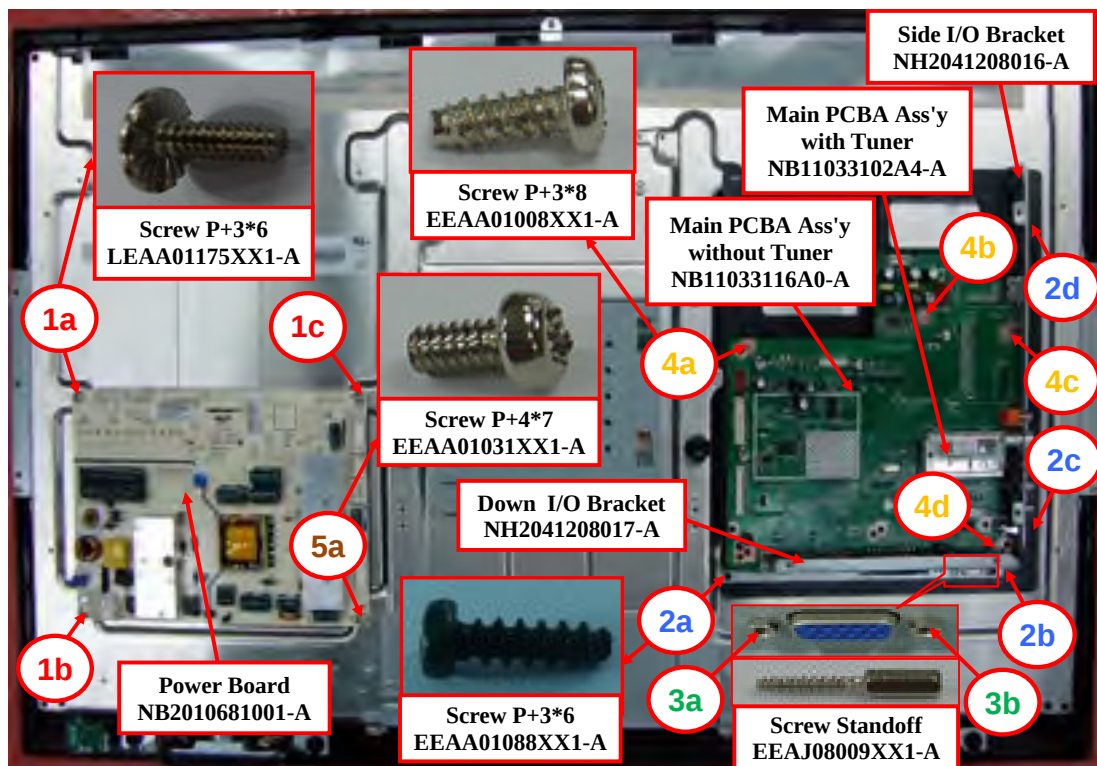
2) Remove the Keypad wire

2.5) Remove the all wire and Adhesive Tape



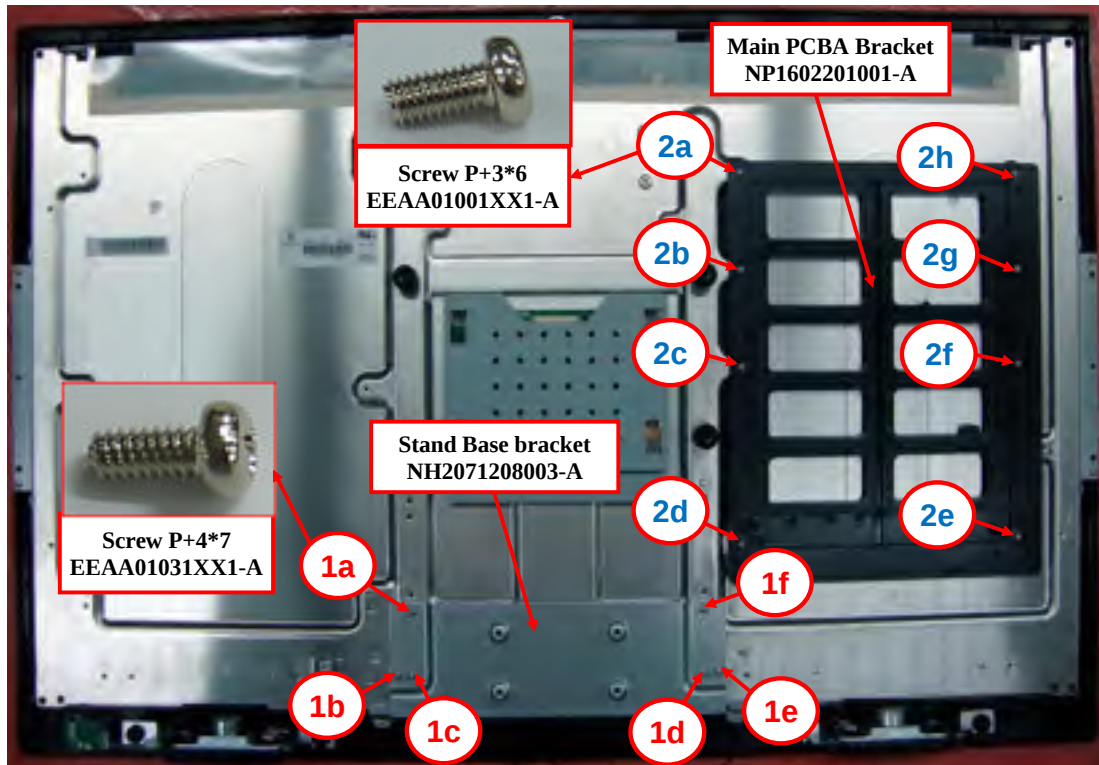
- 1) Remove the Adhesive Tape
- 2) Remove the all wire shown as above

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



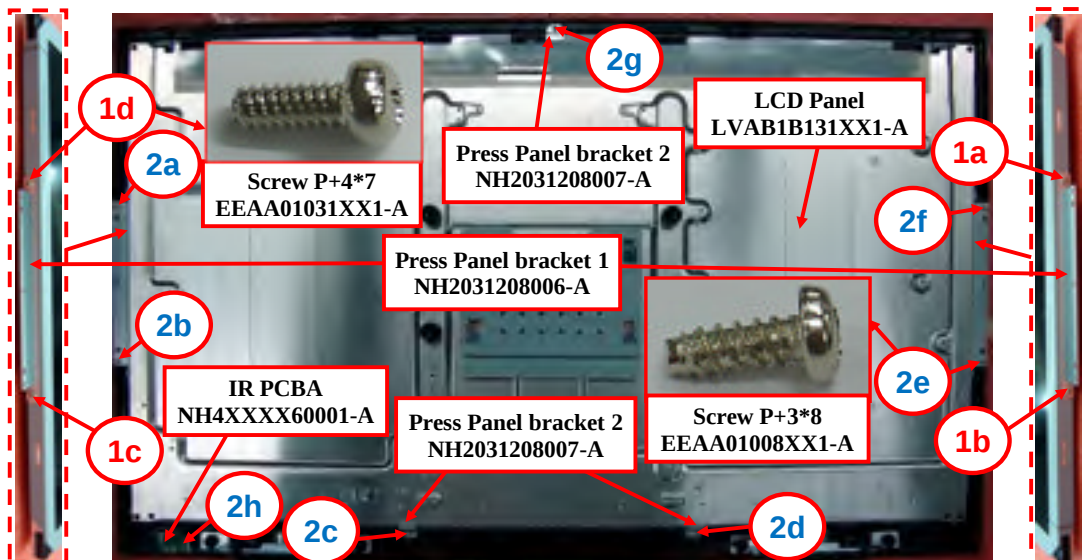
- 1) Remove the screw TWM P+3*6 with tooth surface ISO Ni*3pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 2) Remove the screw Pan Head 3*6 ISO BLK*4pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 3) Remove the Screw Standoff* 2pcs with Screw Torque = 4 ± 0.5 KGF.CM2
- 4) Remove the screw Pan Head 3*8 ISO NI*4pcs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

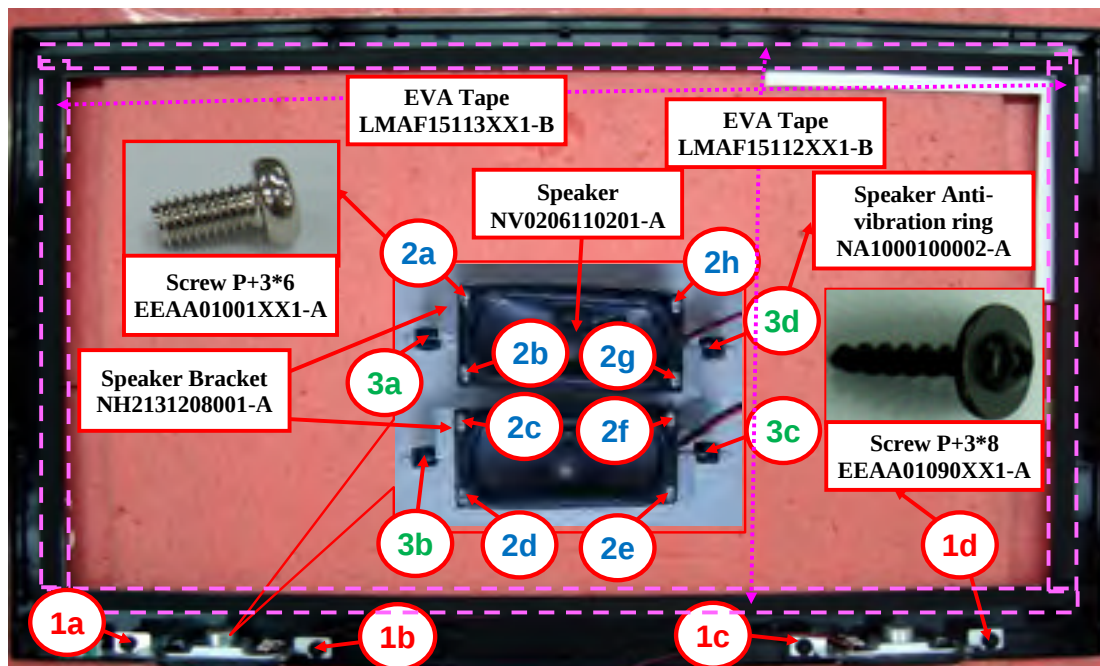
2.8)Detach the IR board, Converter bracket from LCD Panel



- 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



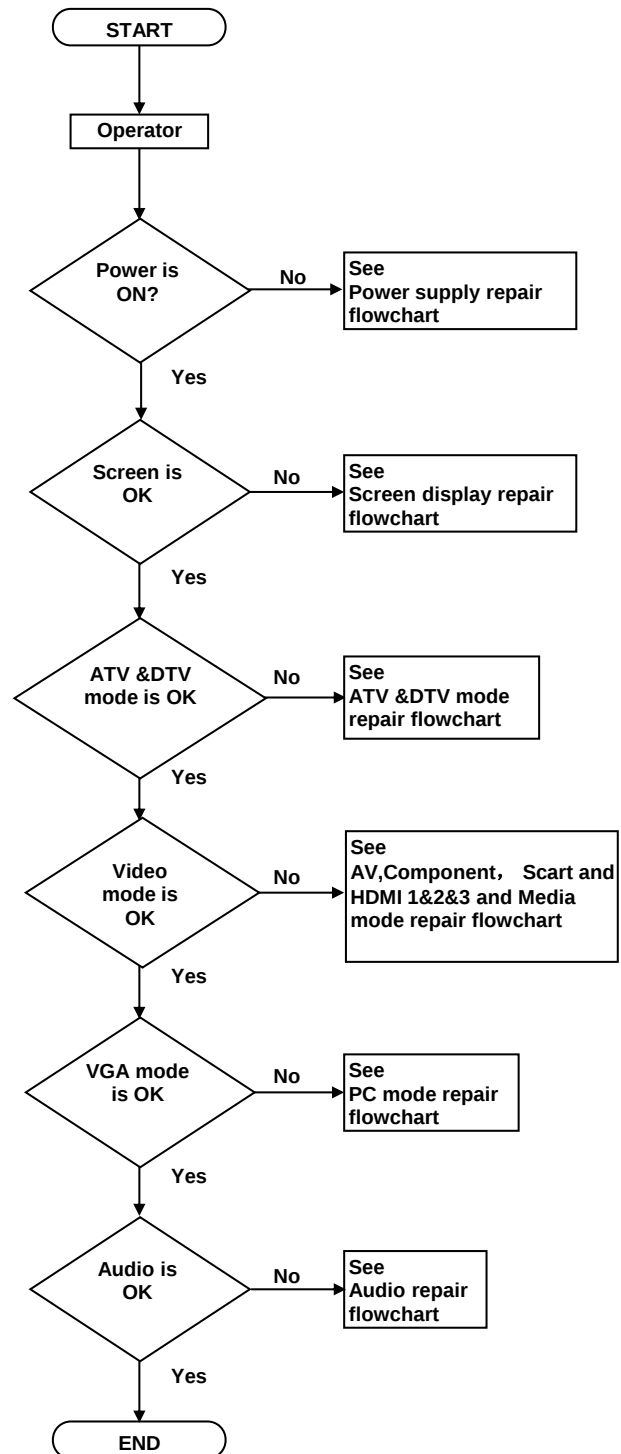
1) Remove the screw TWM P+3.0*8 Harden BLK*4pcs with Screw Torque=4 $\pm$ 0.5 KGF.CM2

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

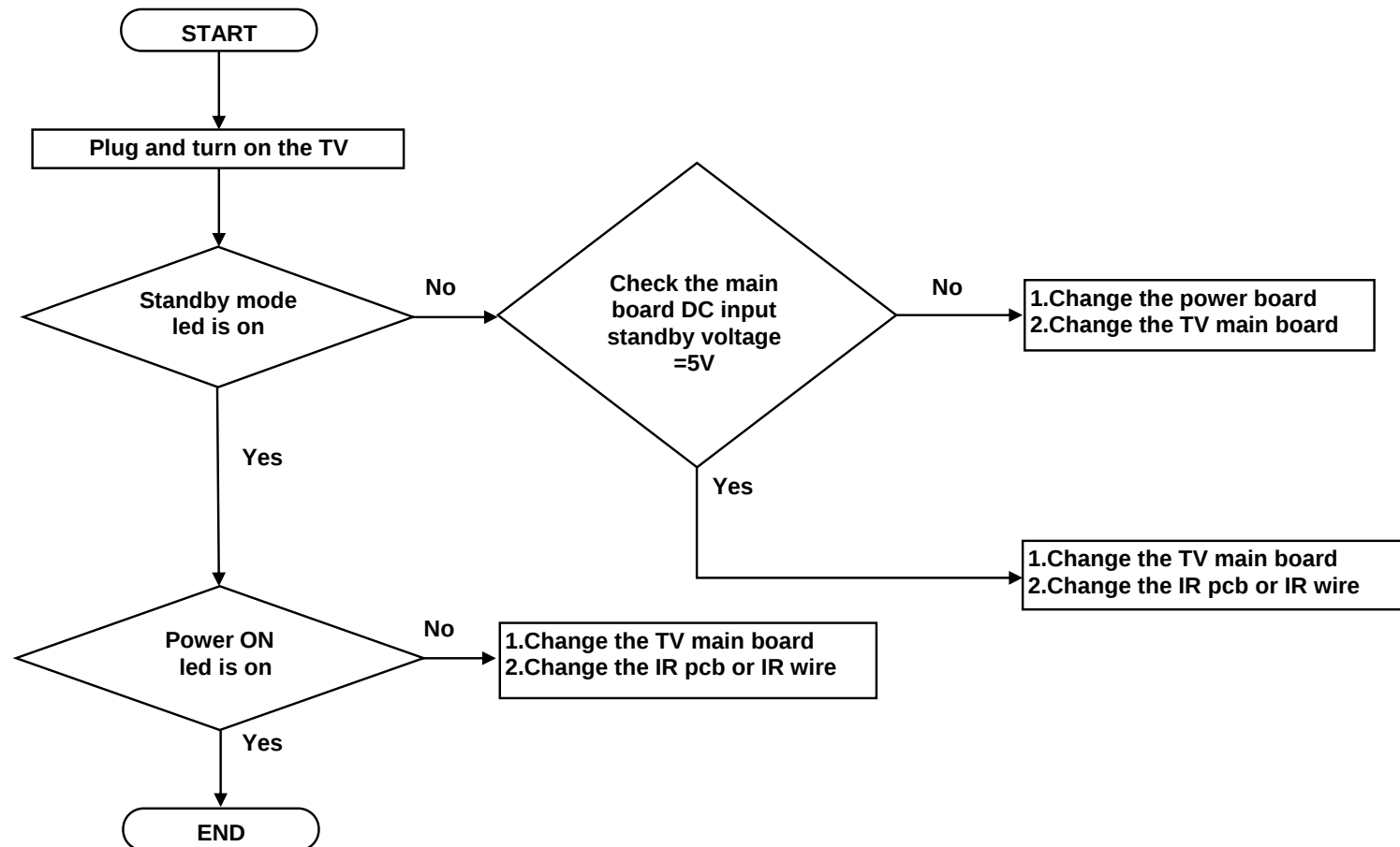
*Remark : State the **Color** of Front Cover when requesting the Spare Parts

END

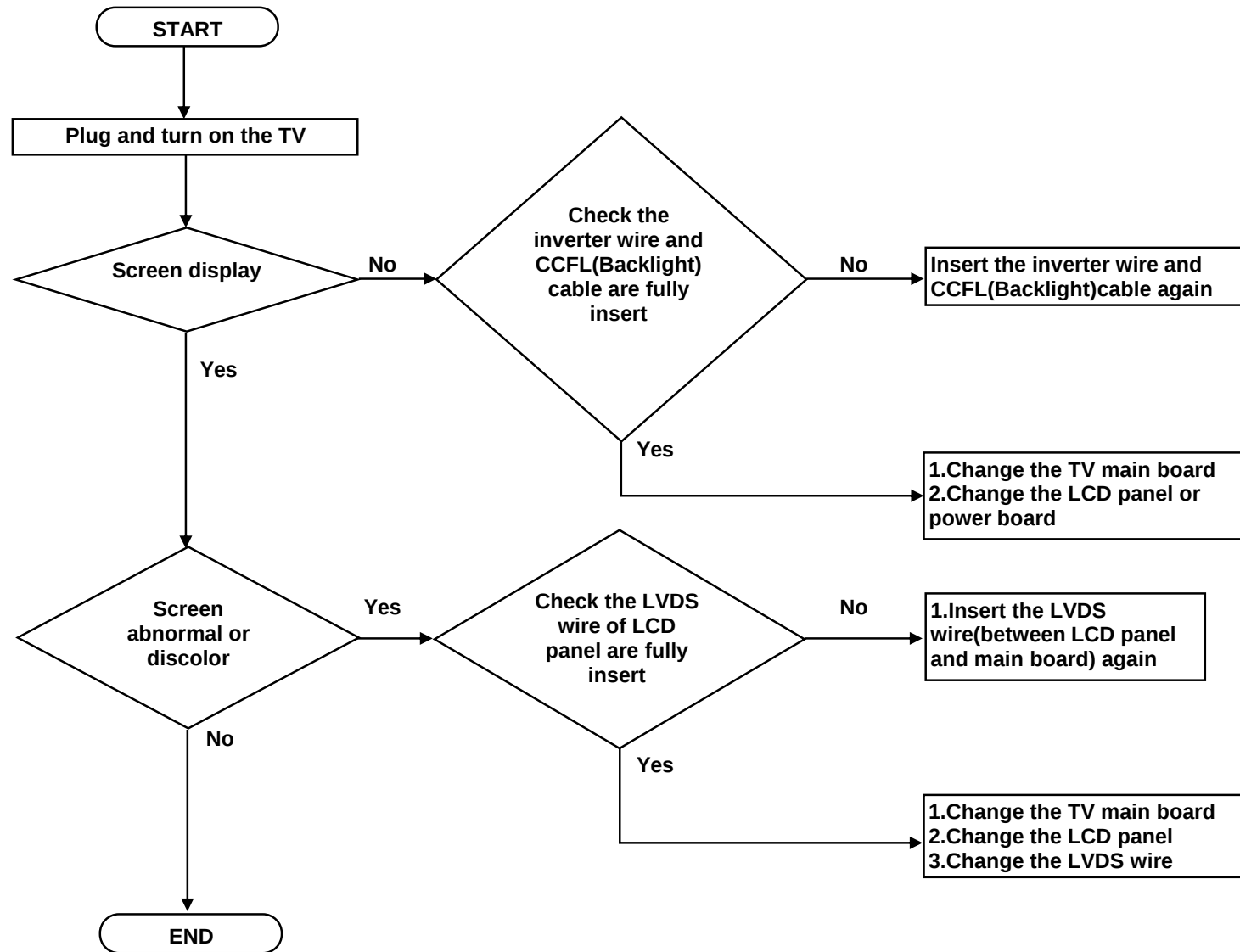
3) Fault finding tree



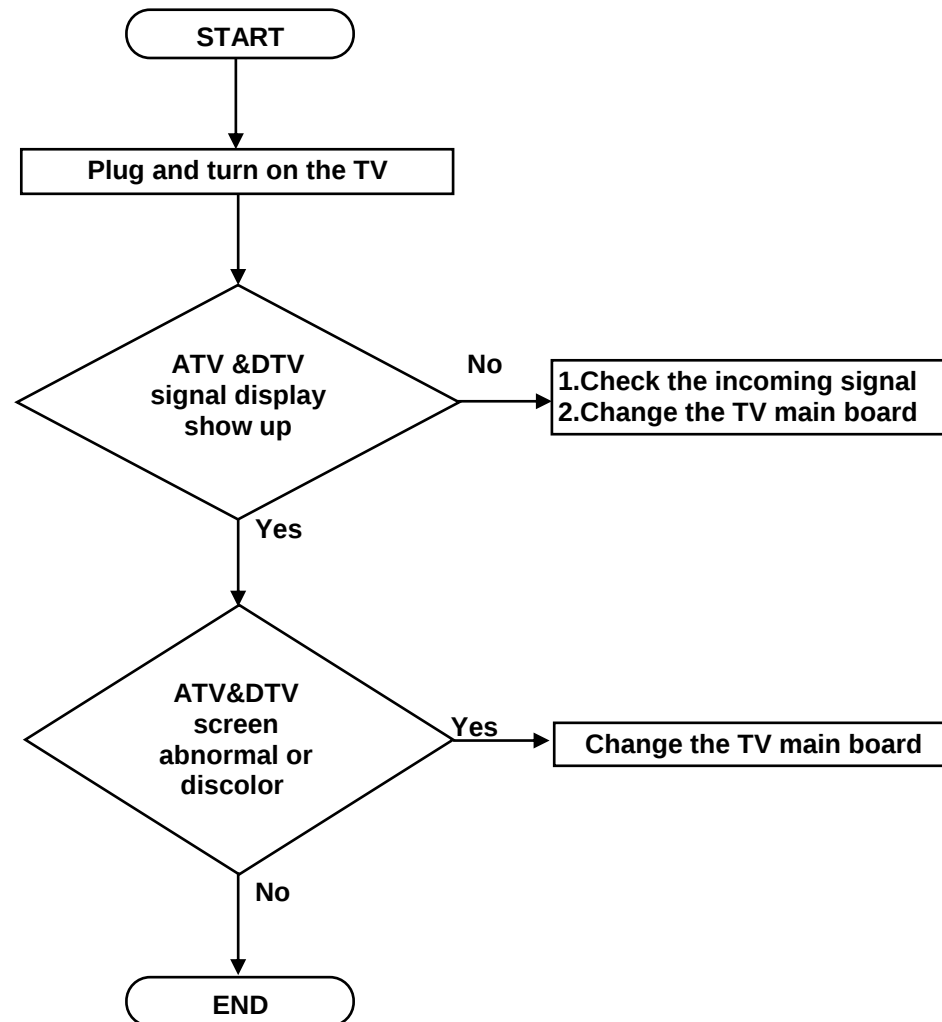
3.1) Power supply repair flowchart



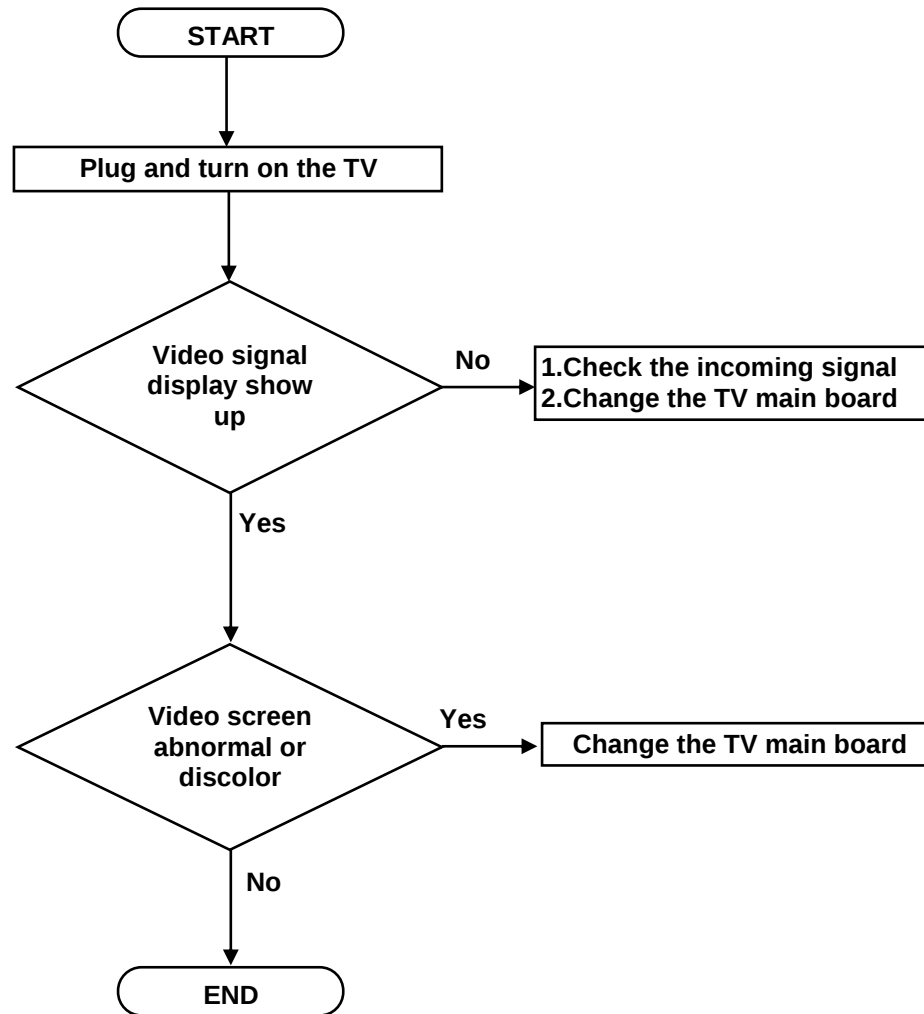
3.2) Screen Display repair flowchart



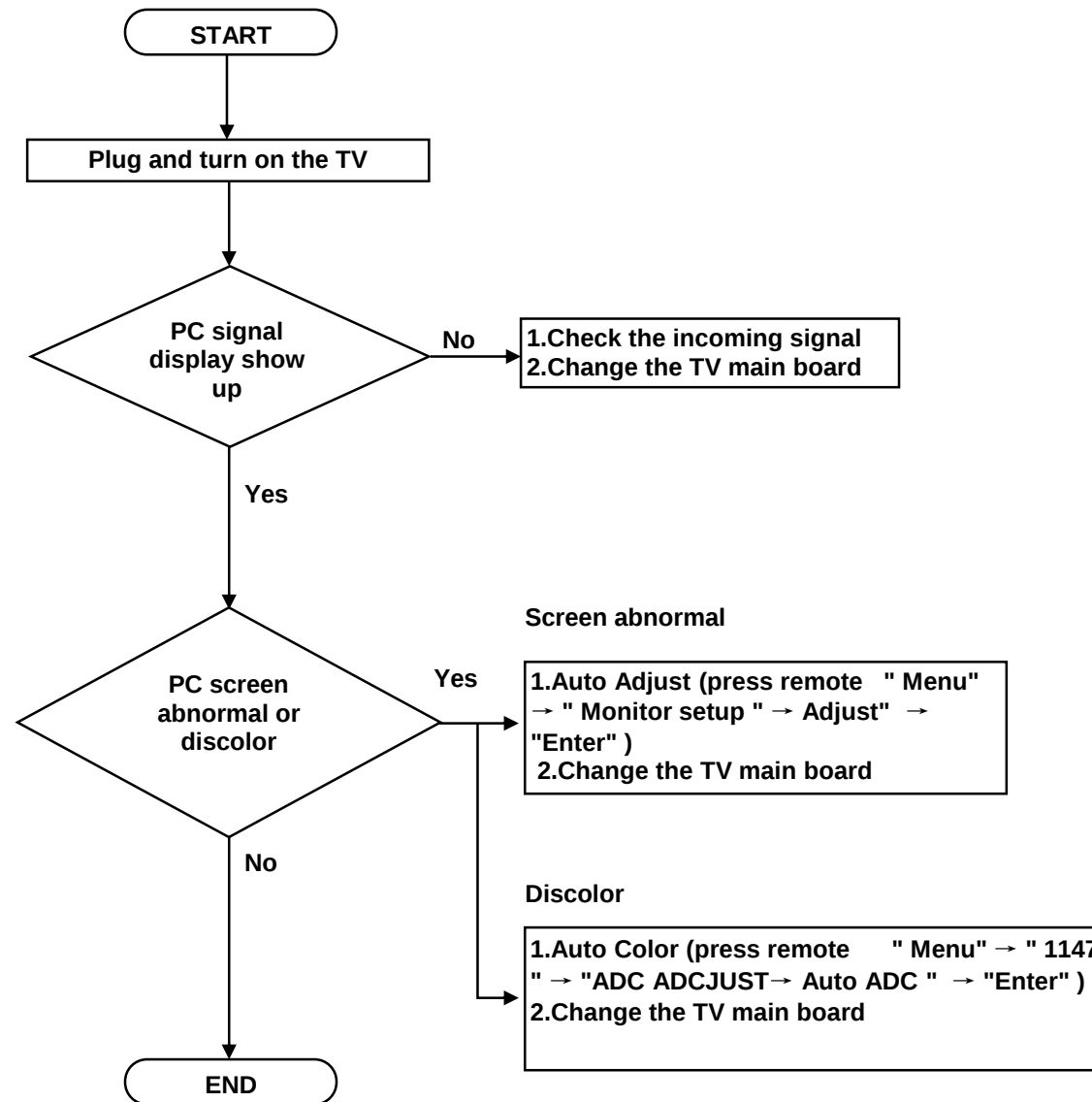
3.3)ATV &DTV mode repair flowchart



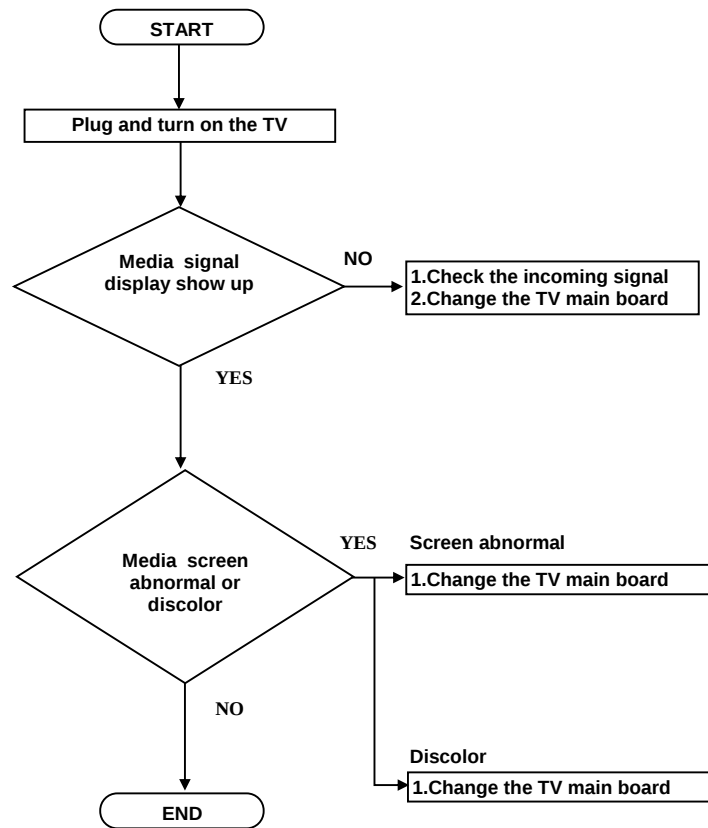
3.4) AV,YPBPR ,Scart and HDMI1,2,3 mode repair flowchart



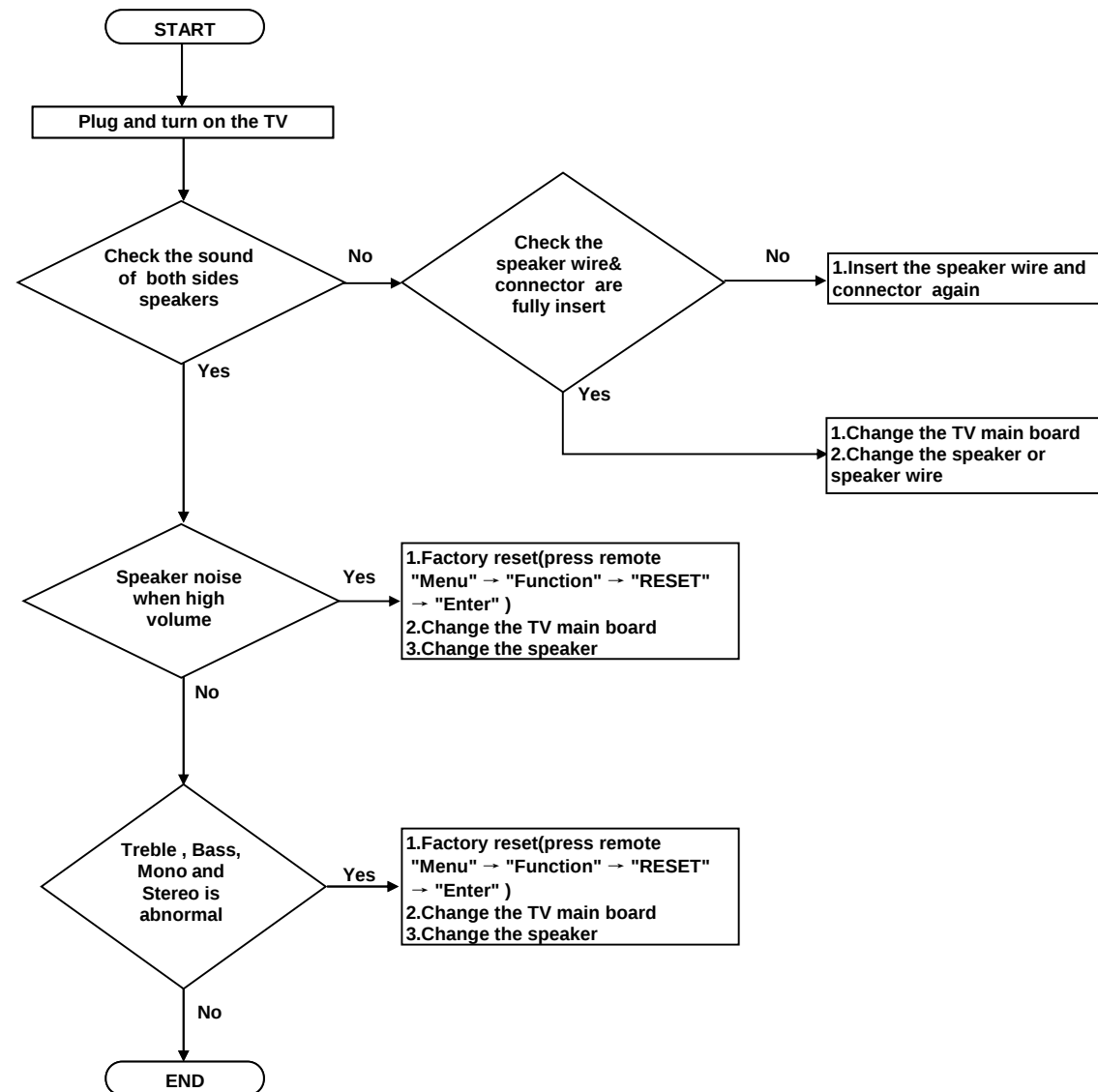
3.5) PC mode repair flowchart



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

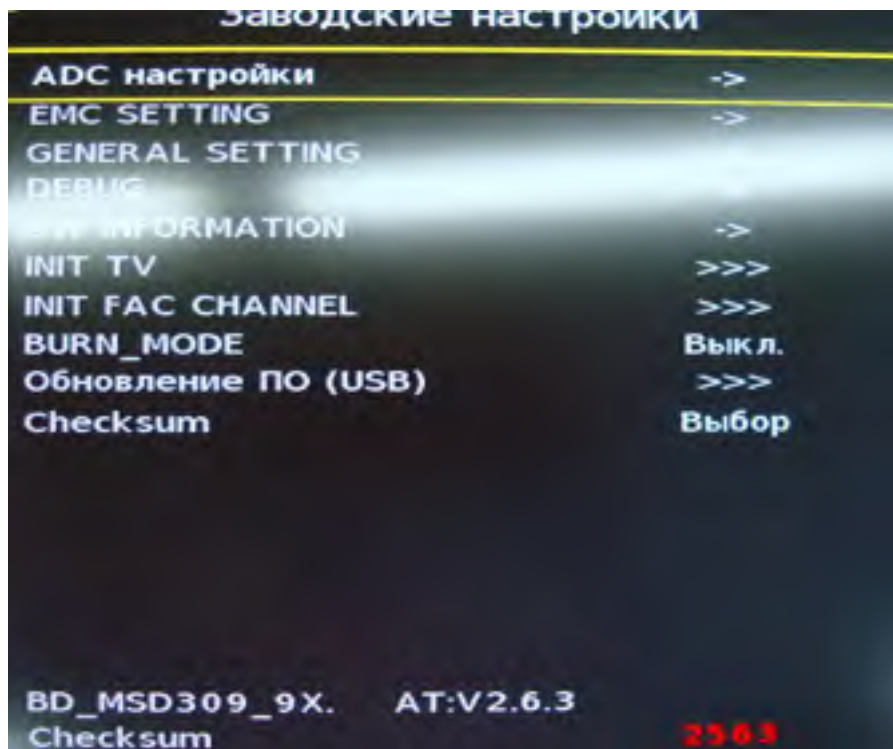
Update tool:



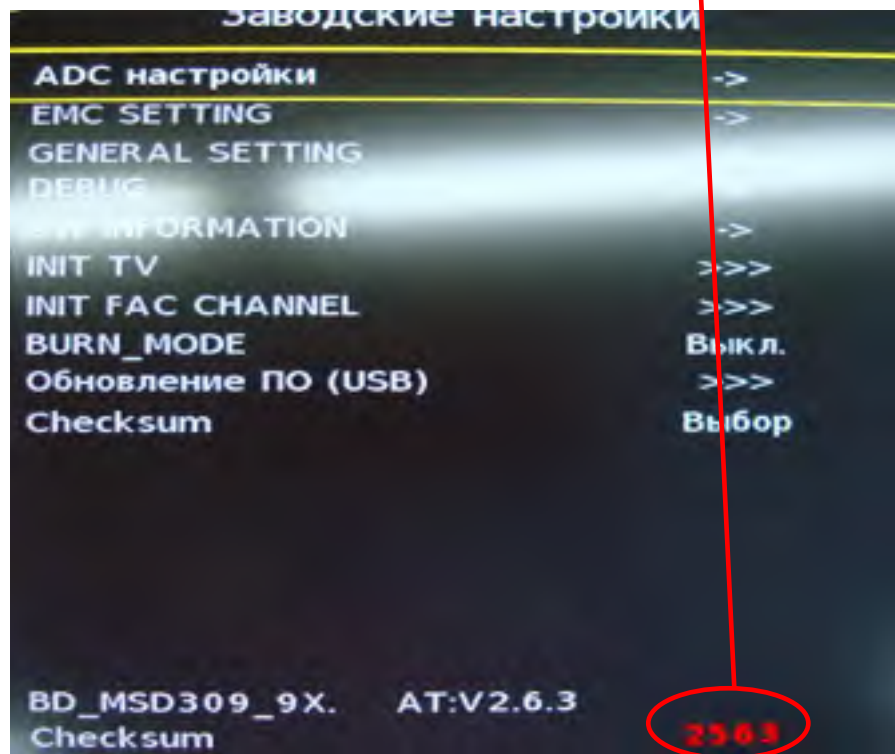
USB thumb drive

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".



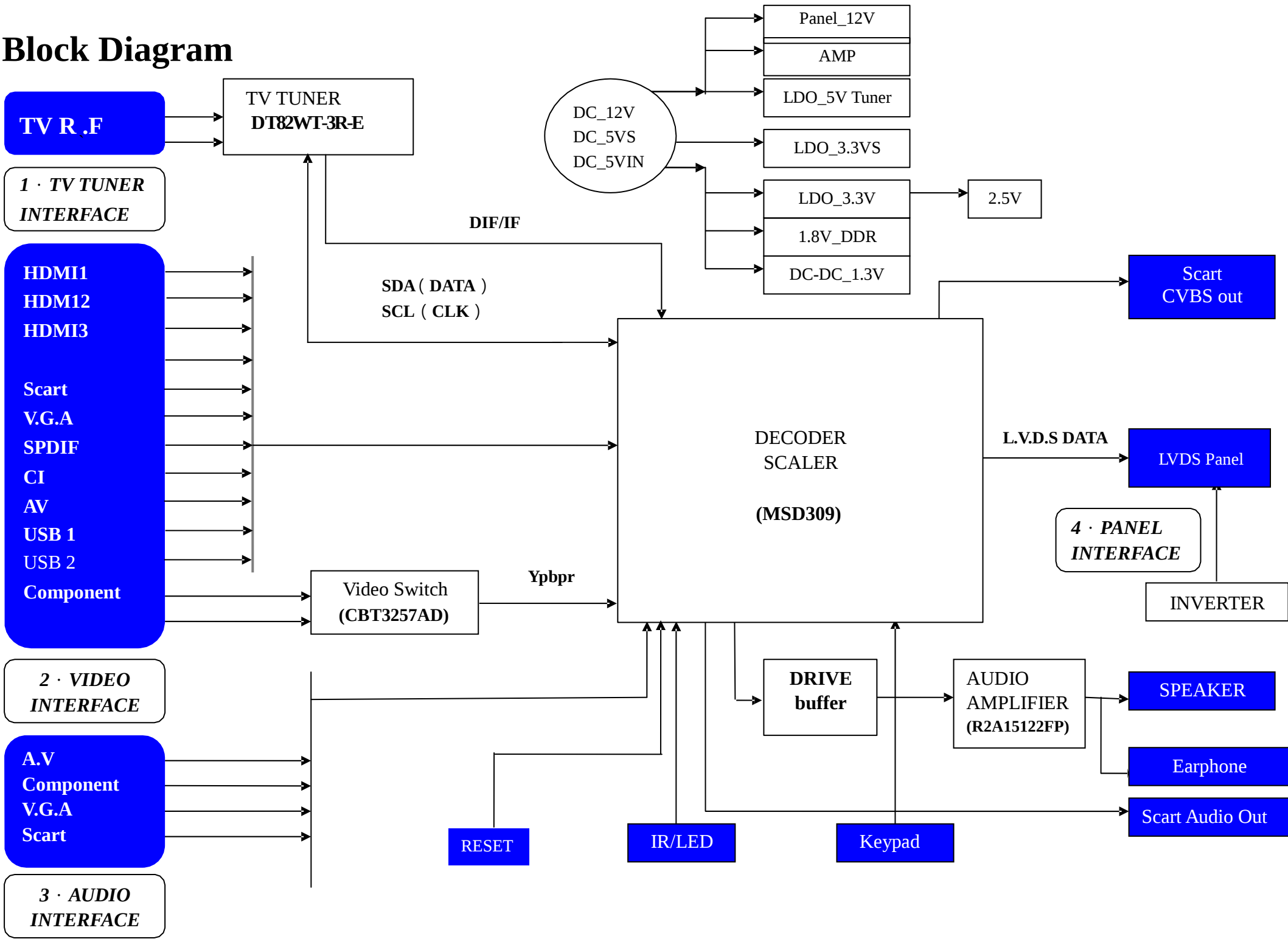
10. LCD MENU" then "1"→"1"→"4"→"7" “ go to **Factory Mode** .Check the new firmware checksum is (eg.(**BD_MSD309_9X Checksum : 2563**”)) shown as below:

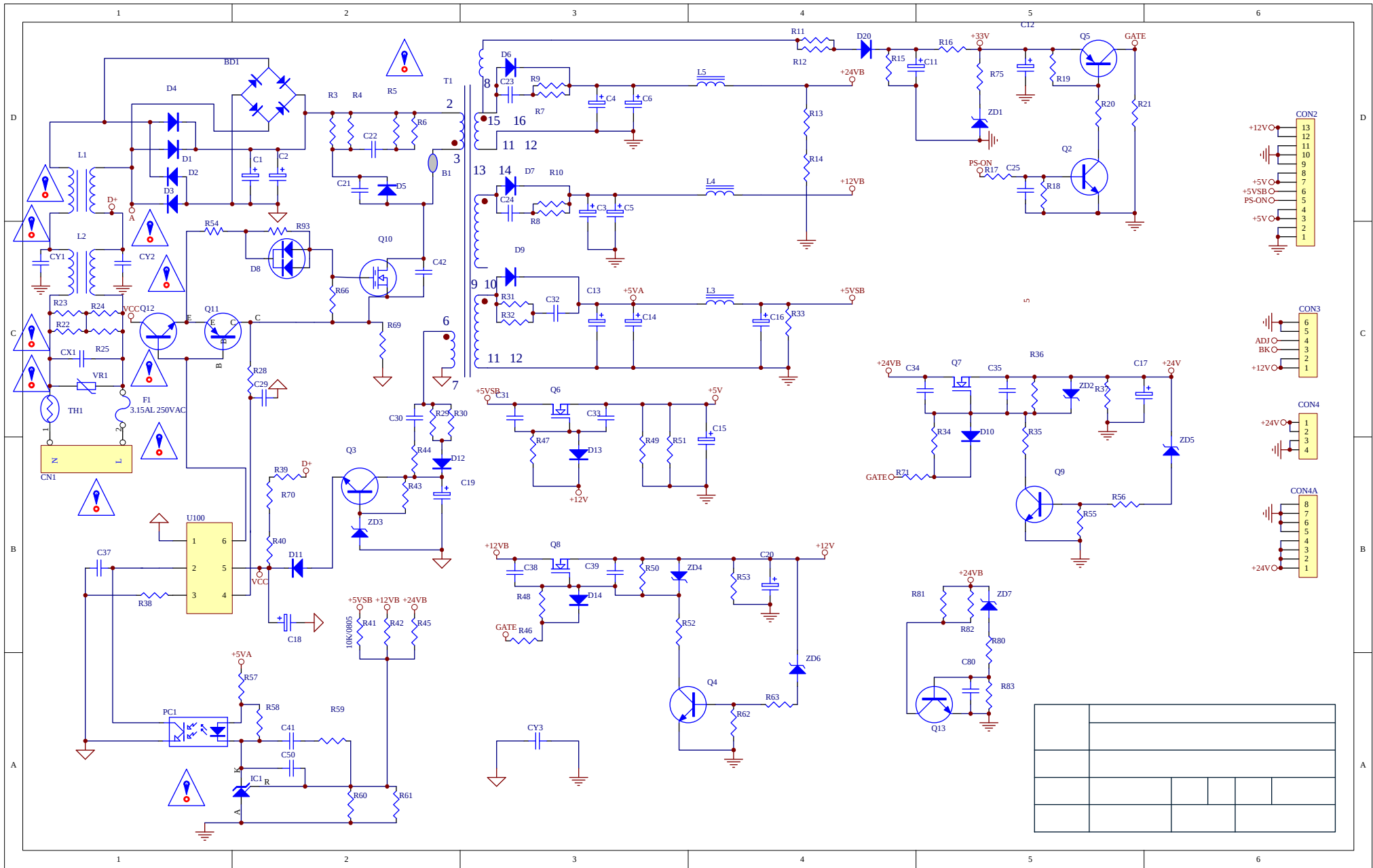


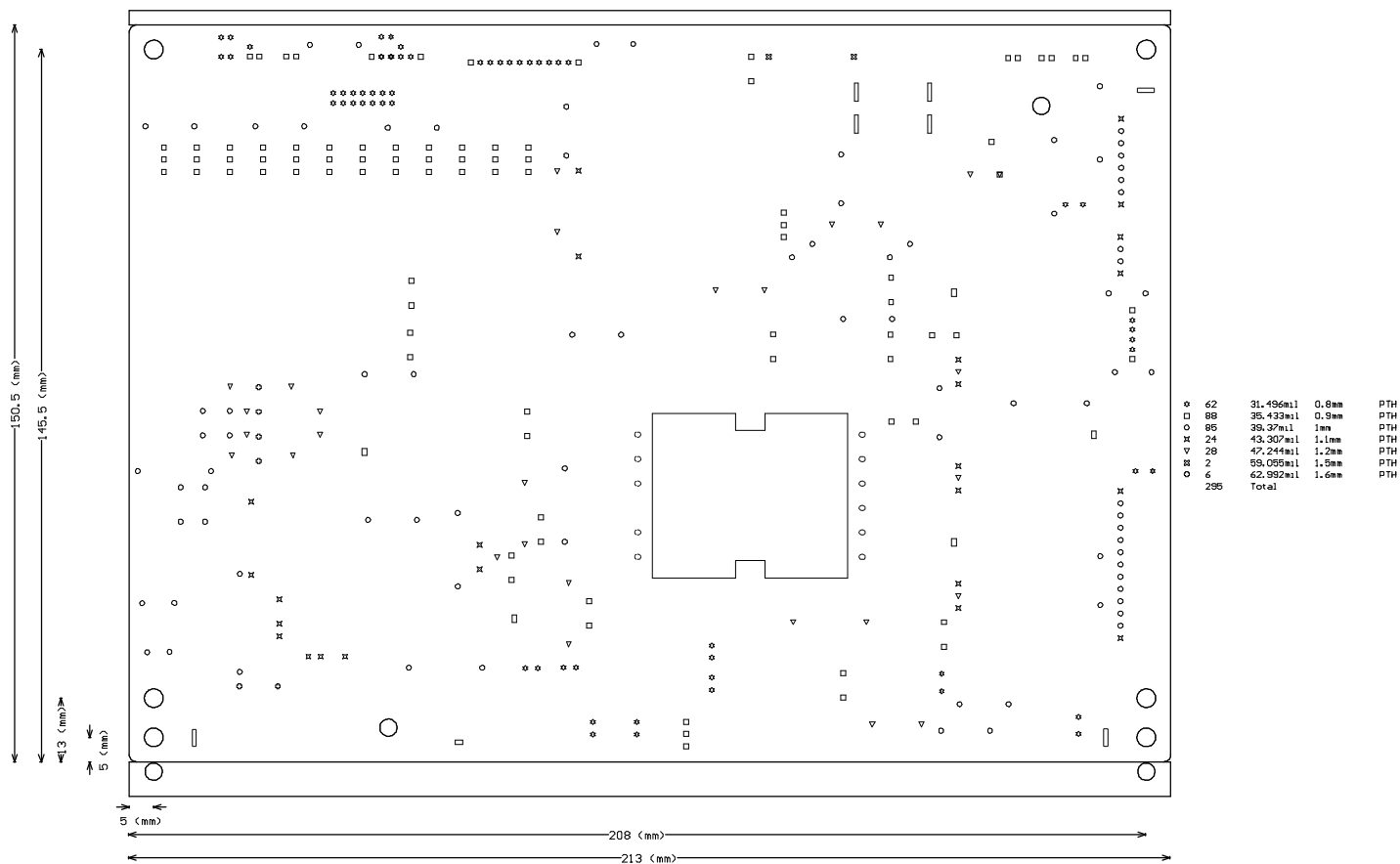
Note:

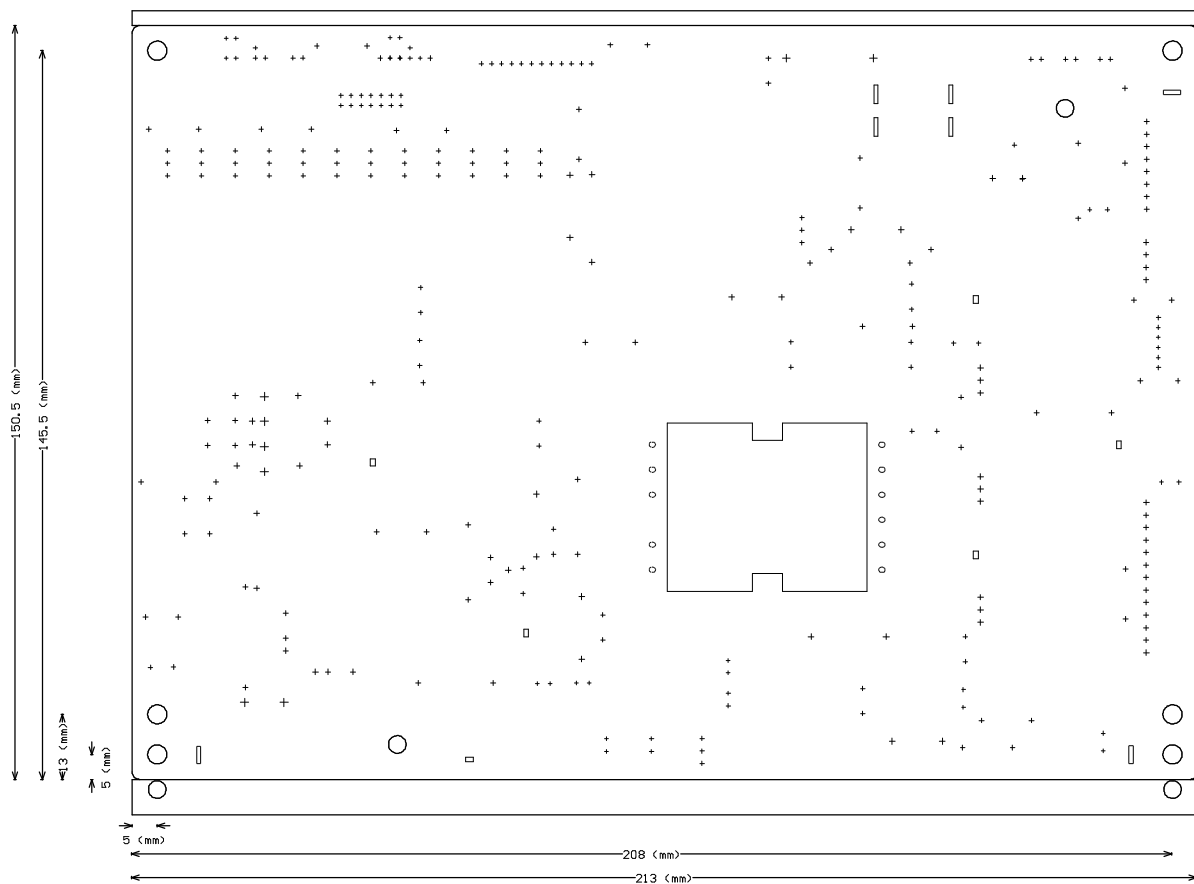
After the factory reset, in PC mode, use a 16 grey scale pattern and select “Auto Colour” in the OSD menu to do ADC colour calibration in order to have better PC display.

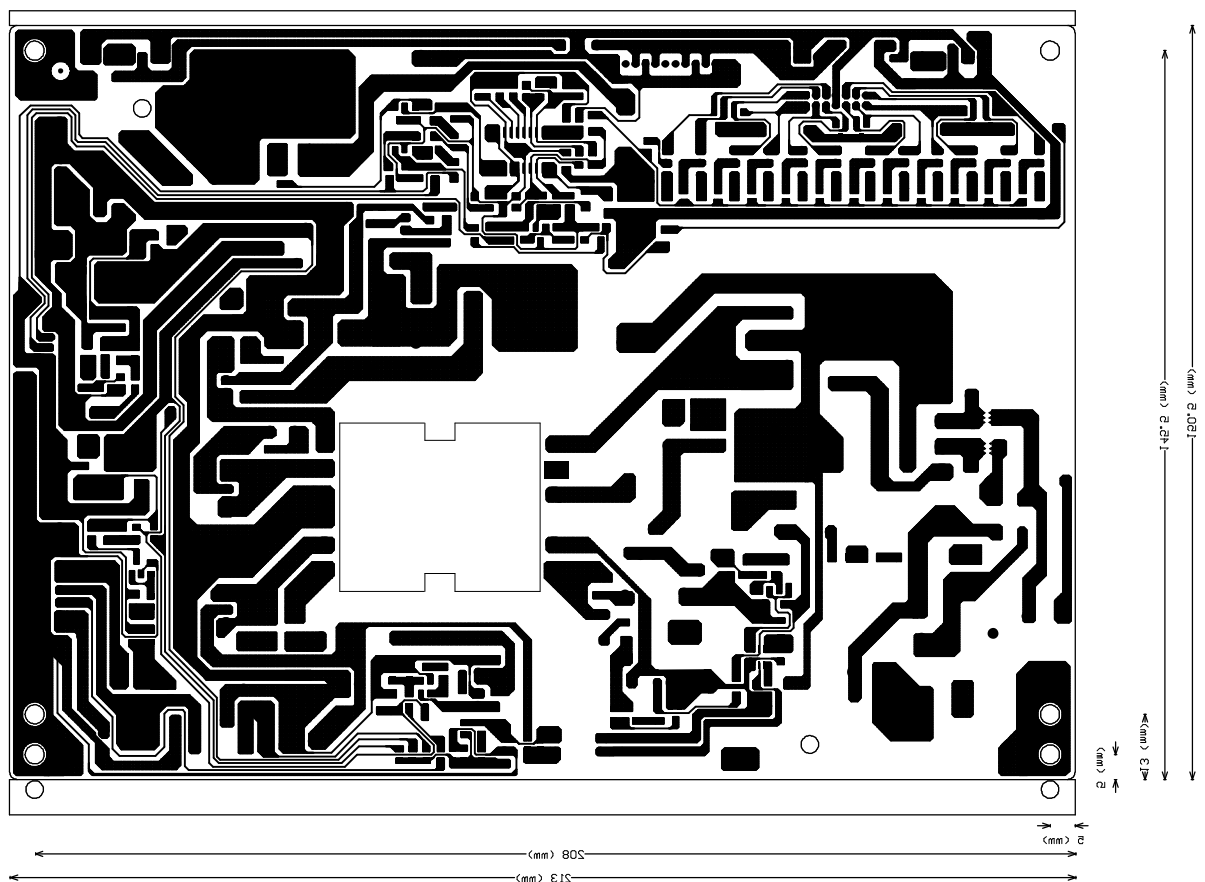
Block Diagram

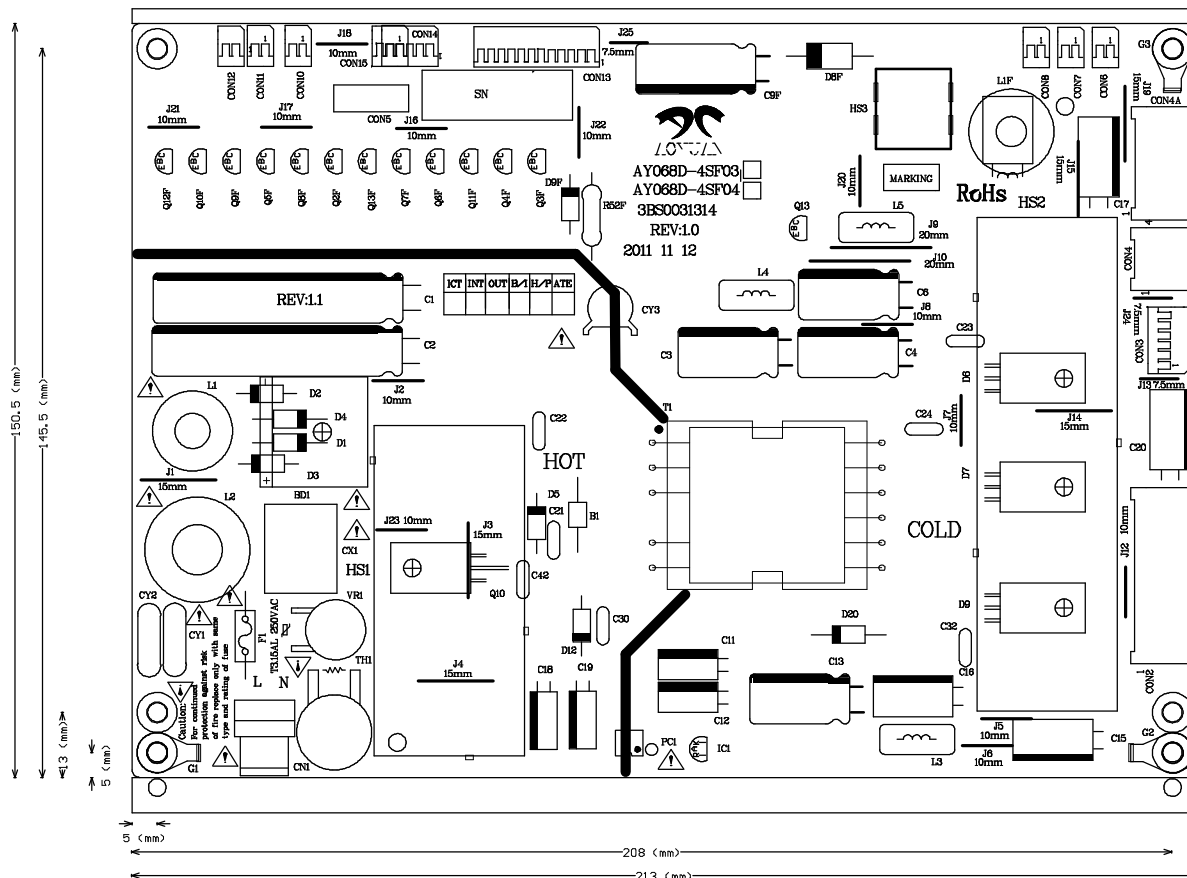


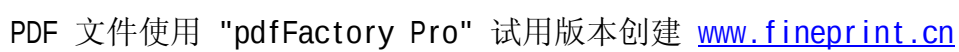


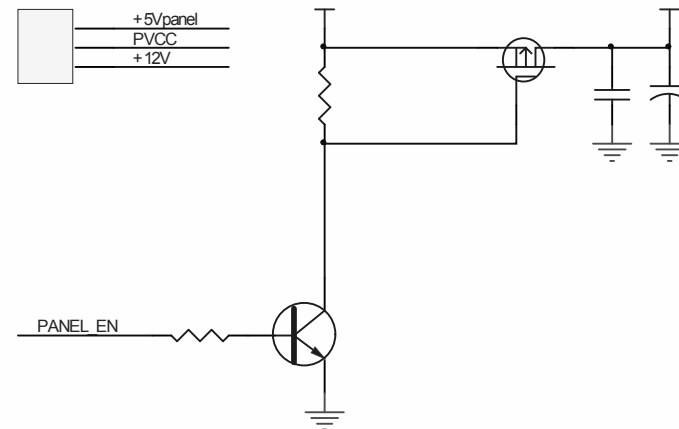
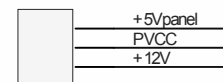
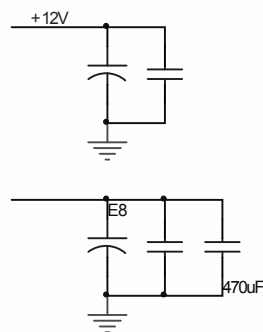
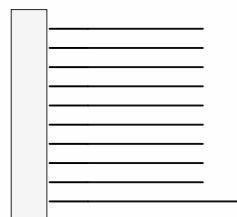
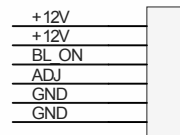
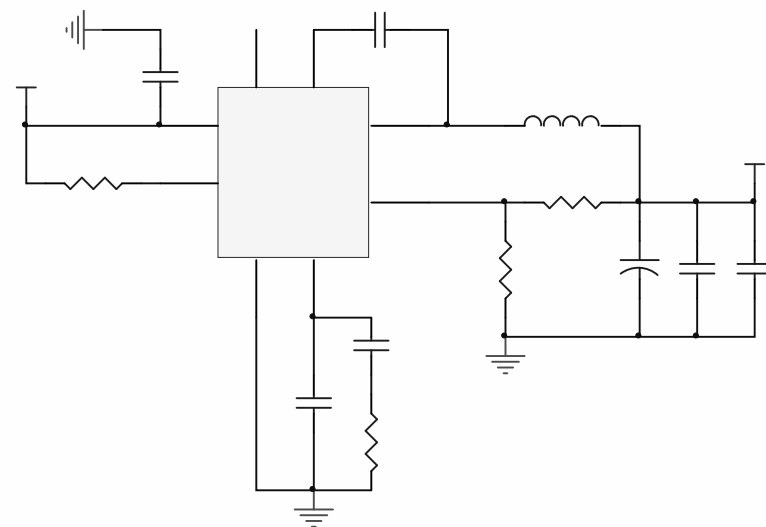
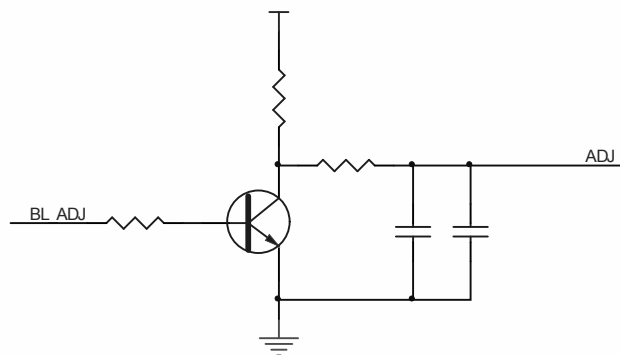
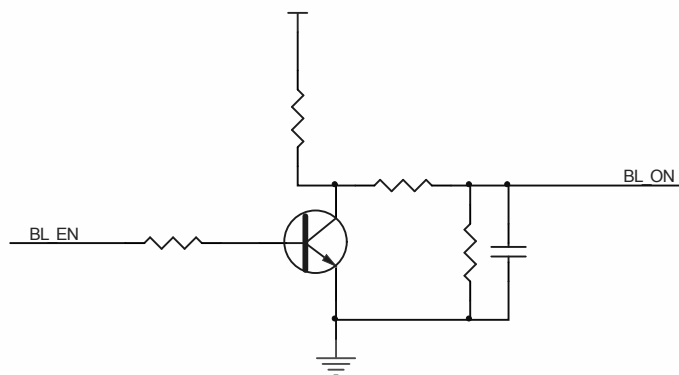
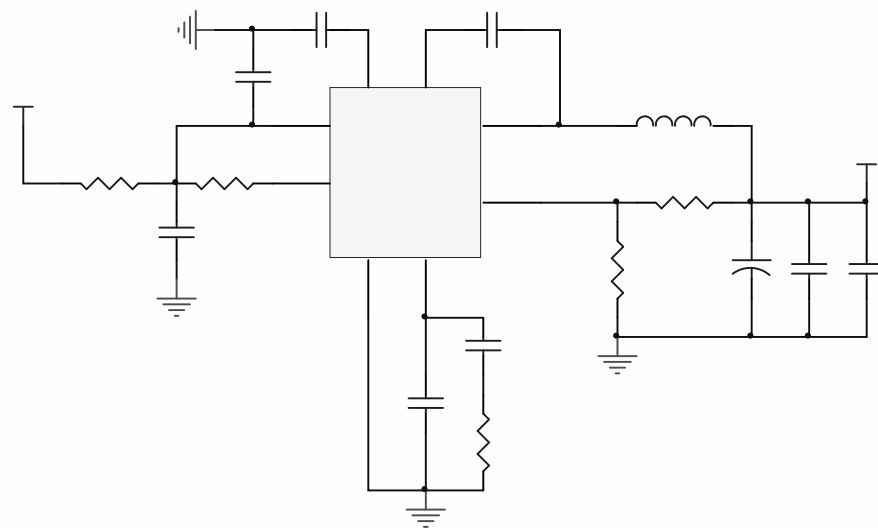
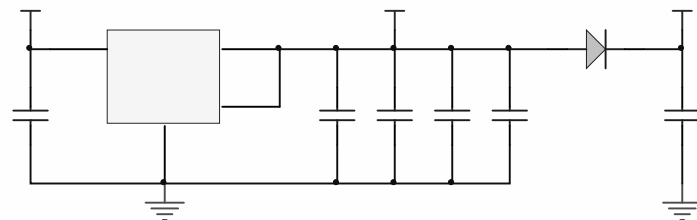
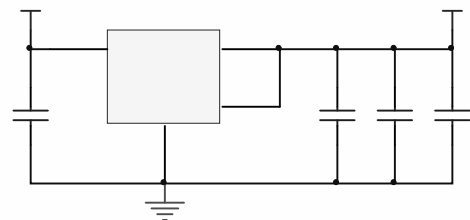


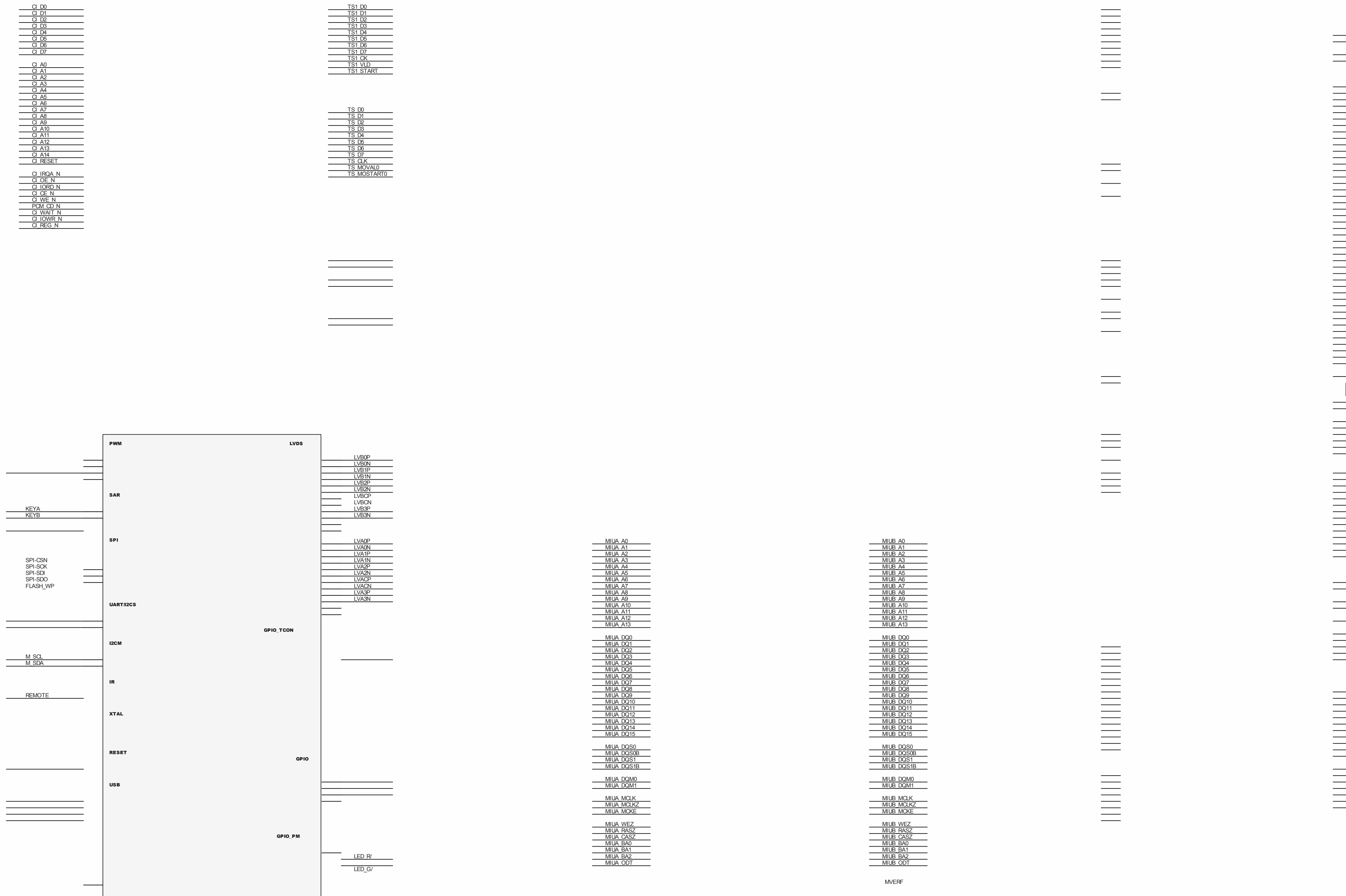


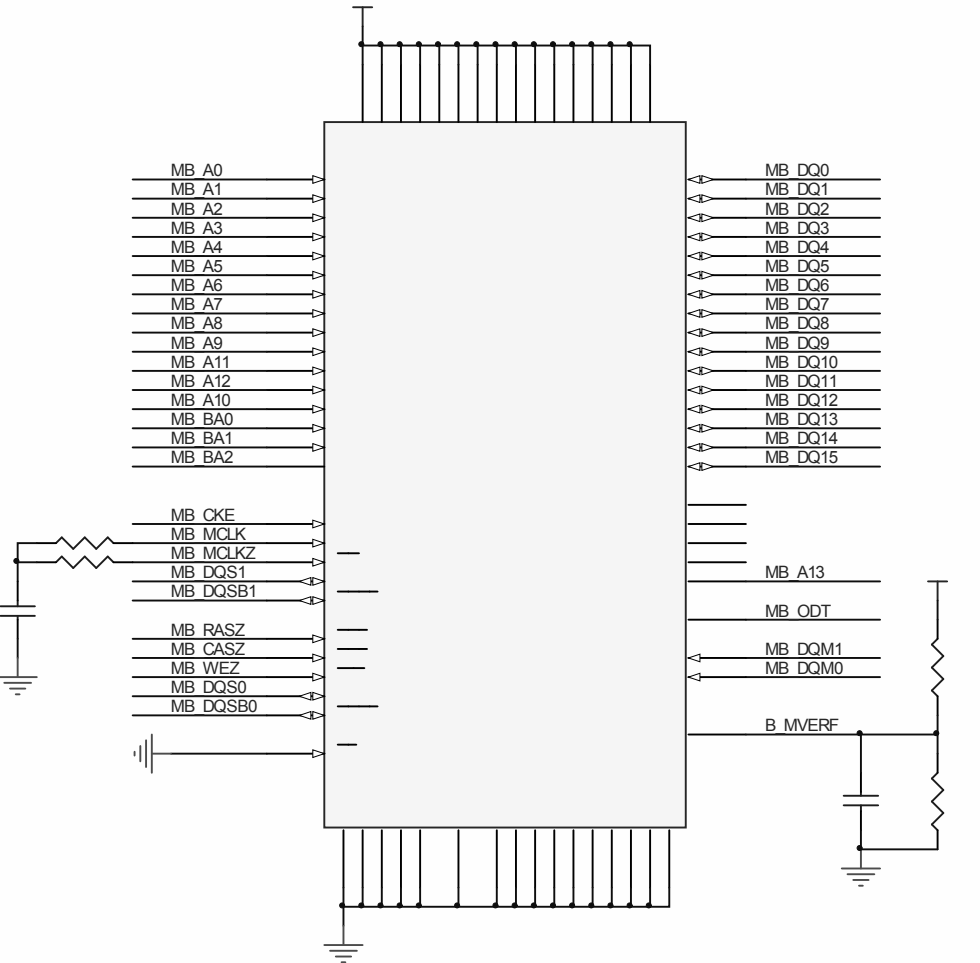
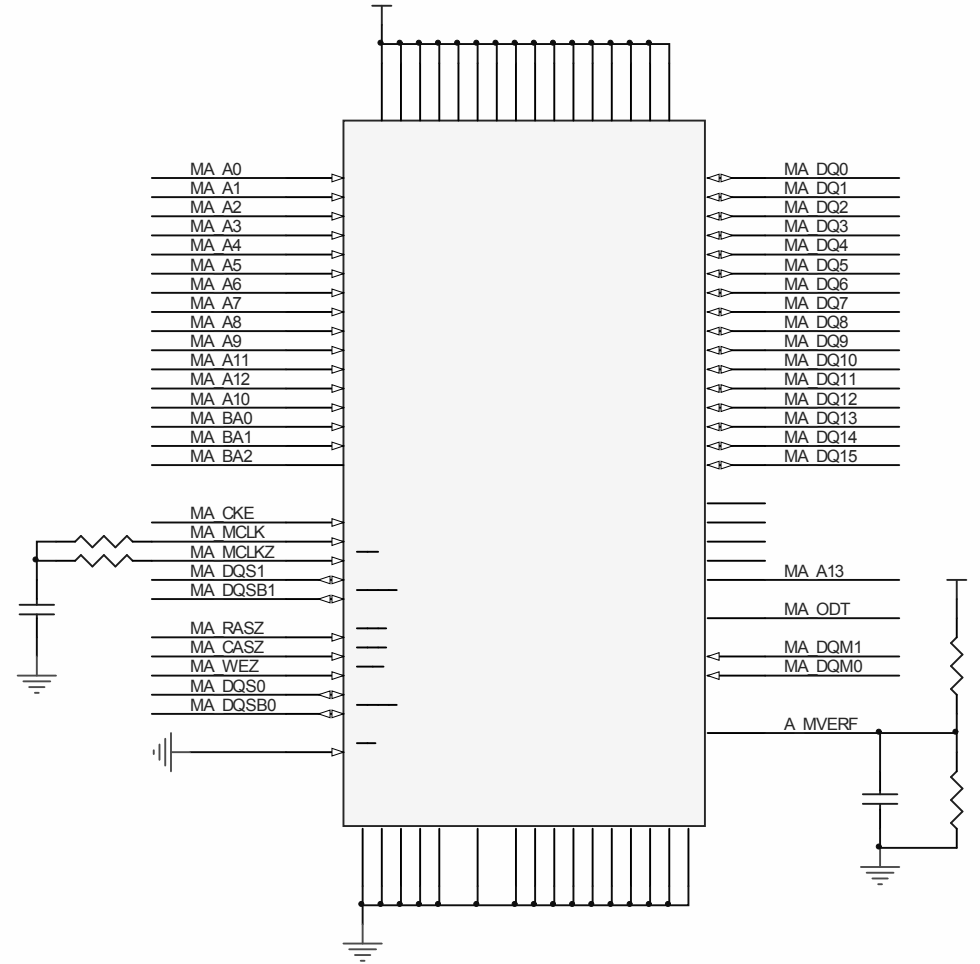
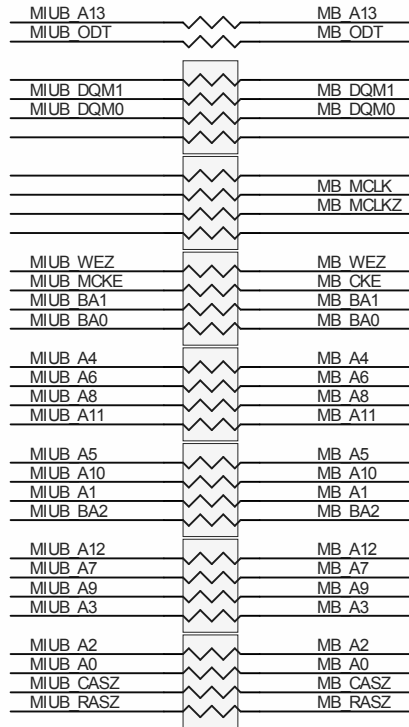
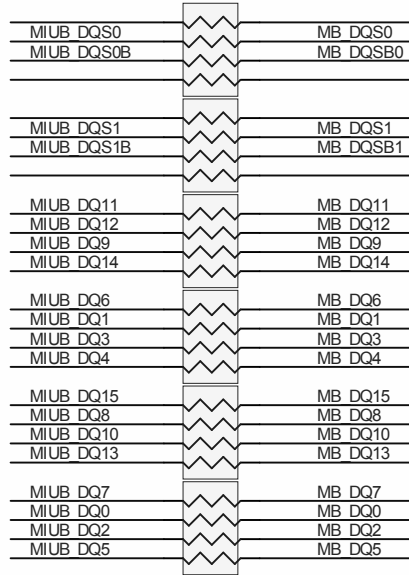
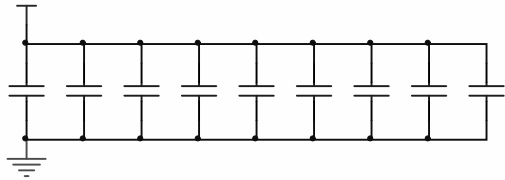
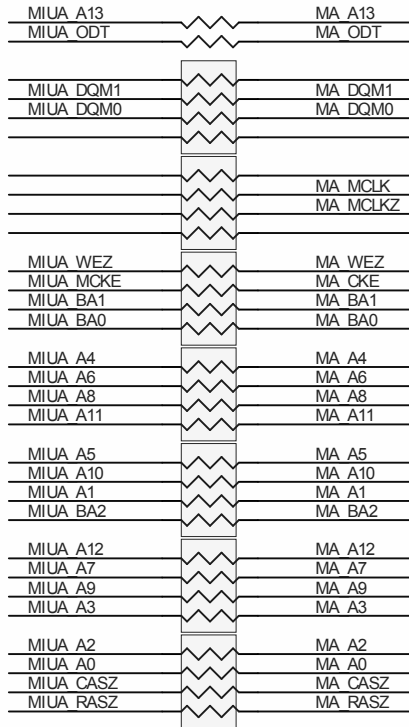
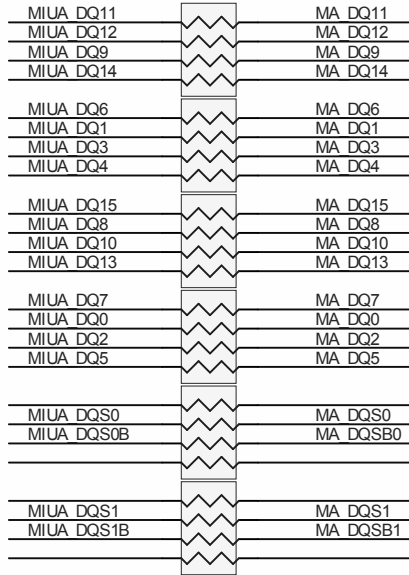
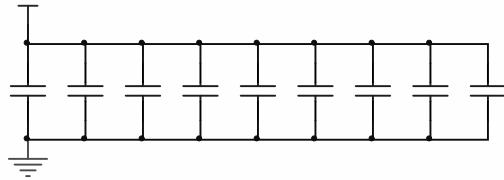


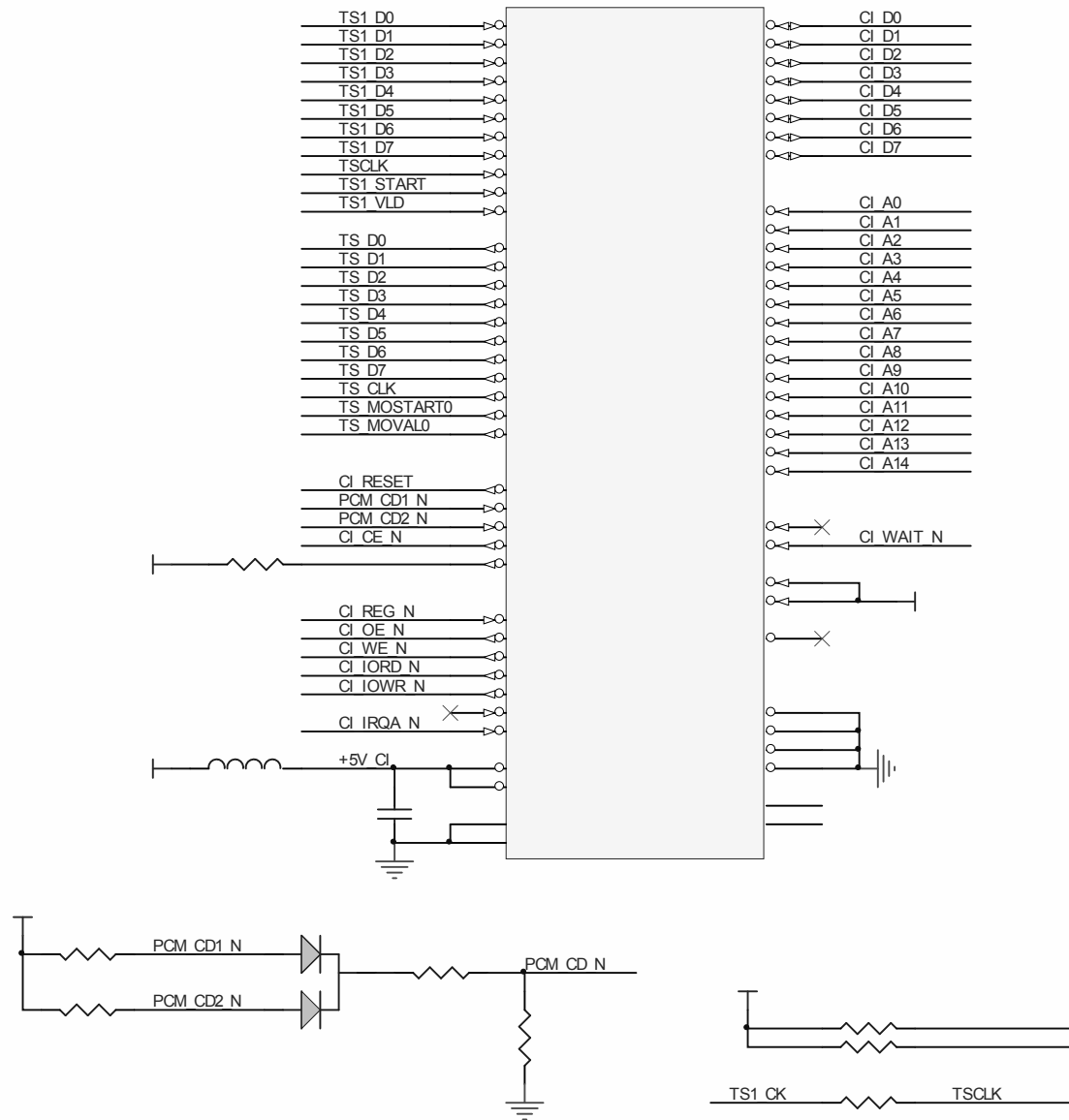


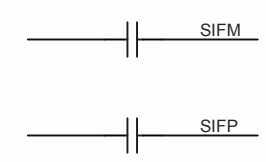
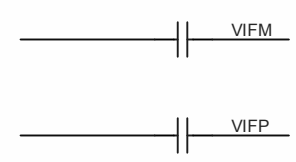
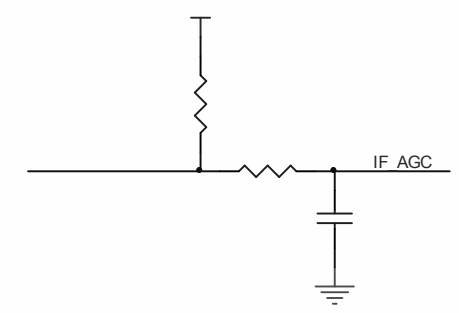
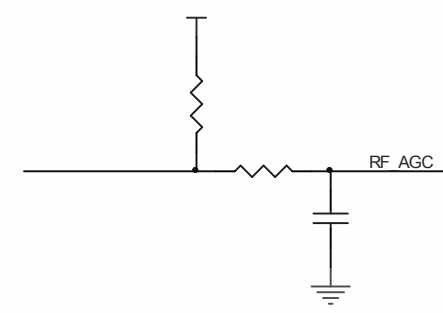
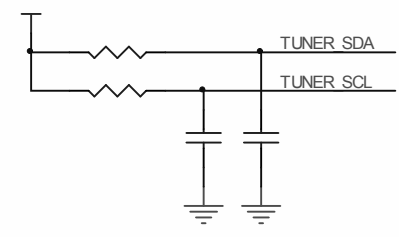
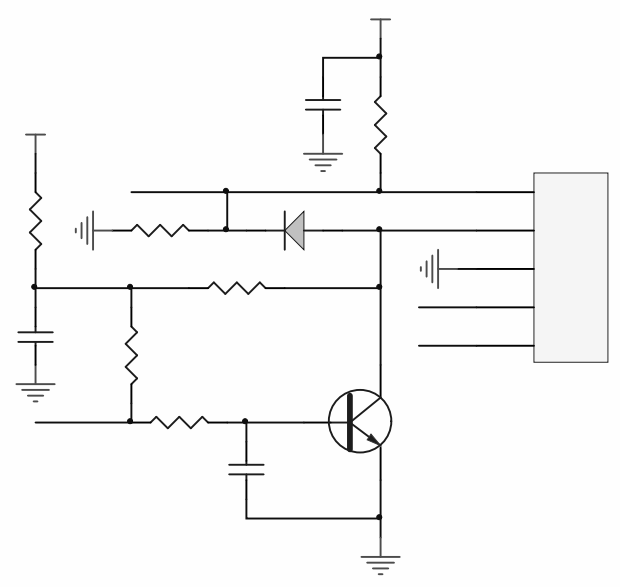
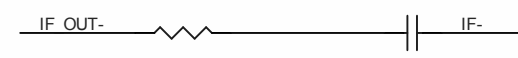
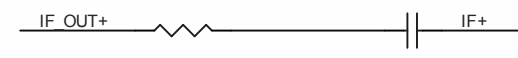
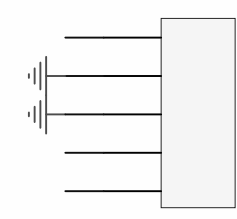
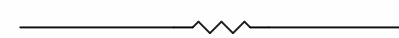
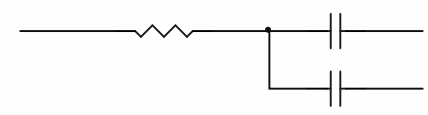
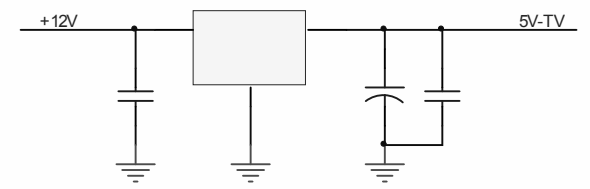
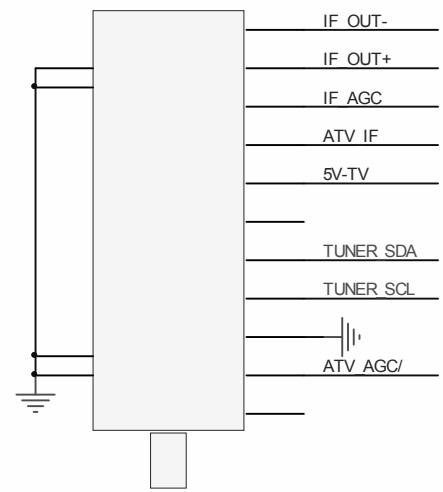


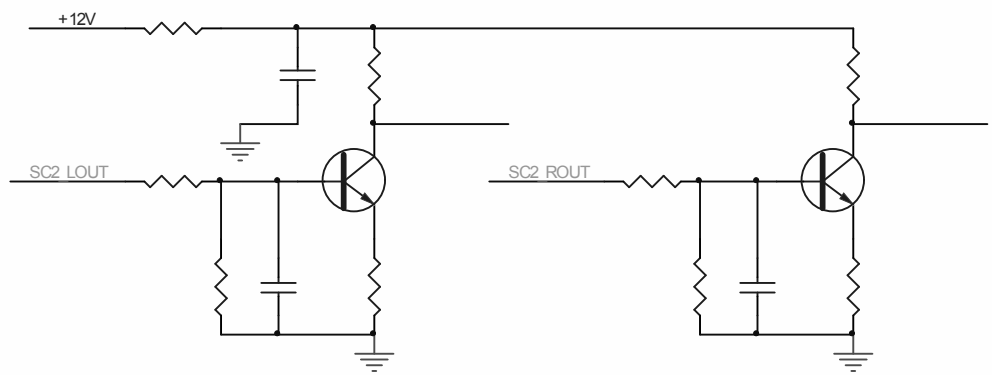
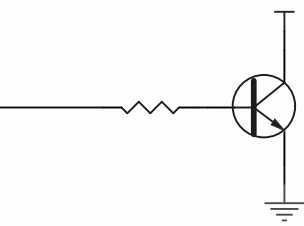
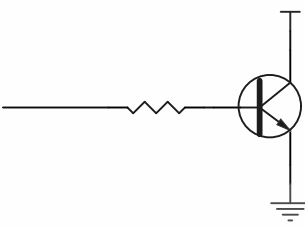
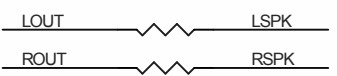
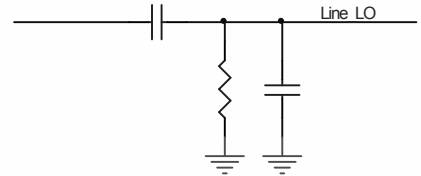
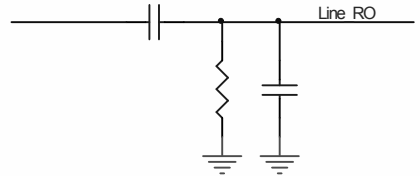
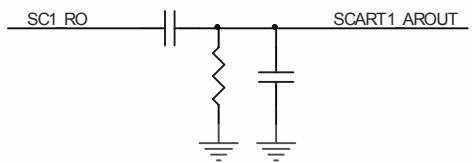
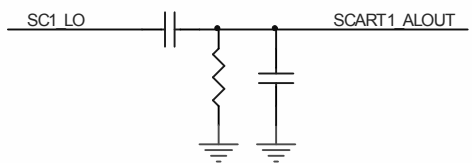
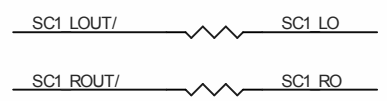
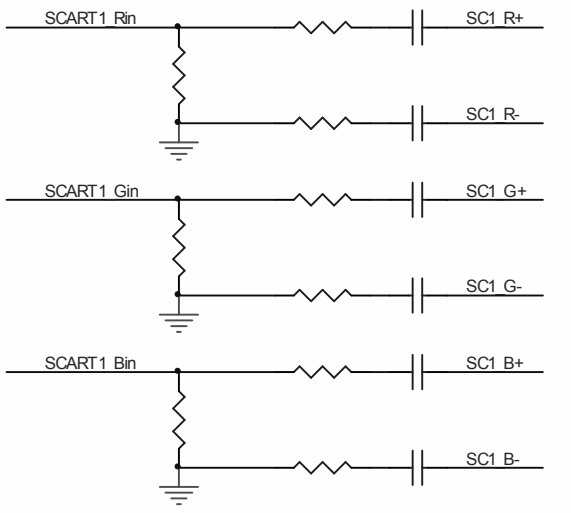
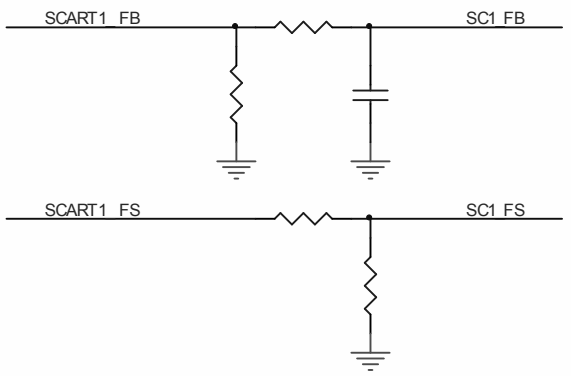
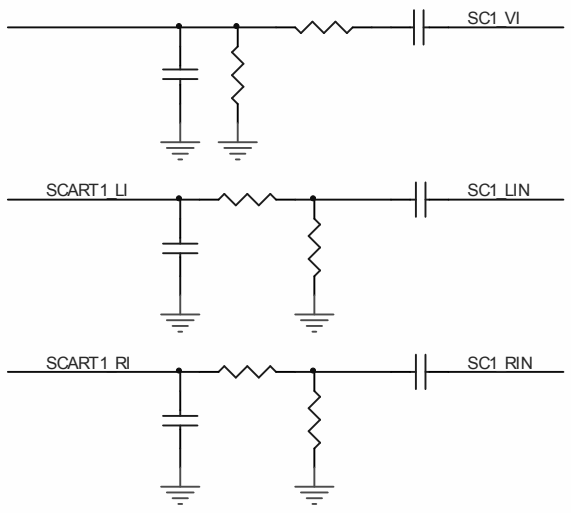
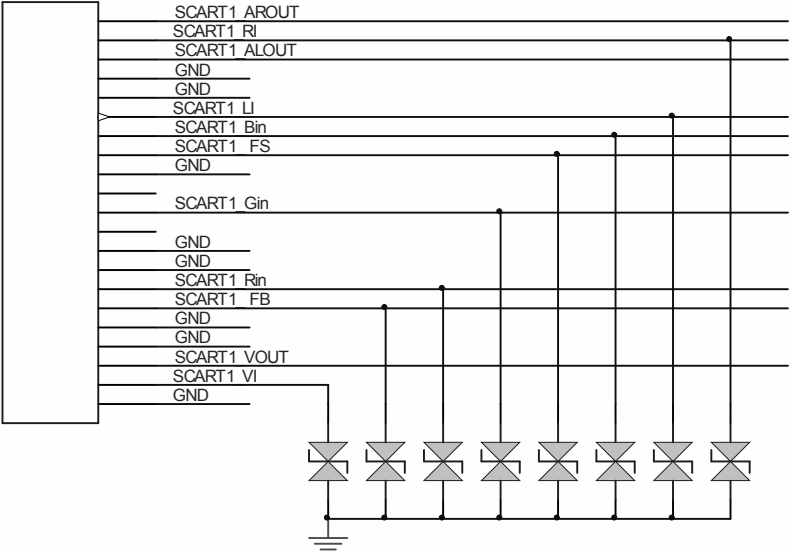


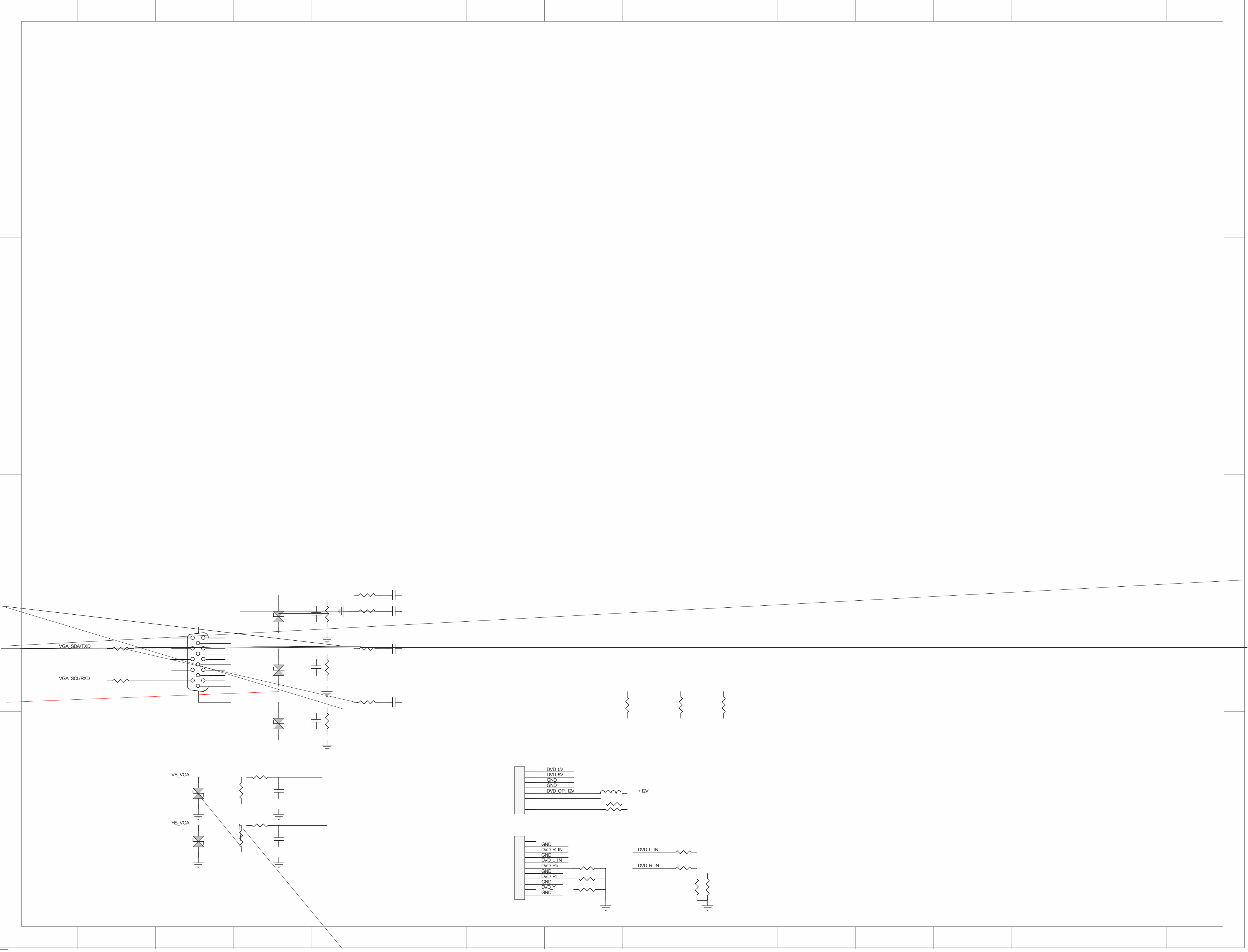


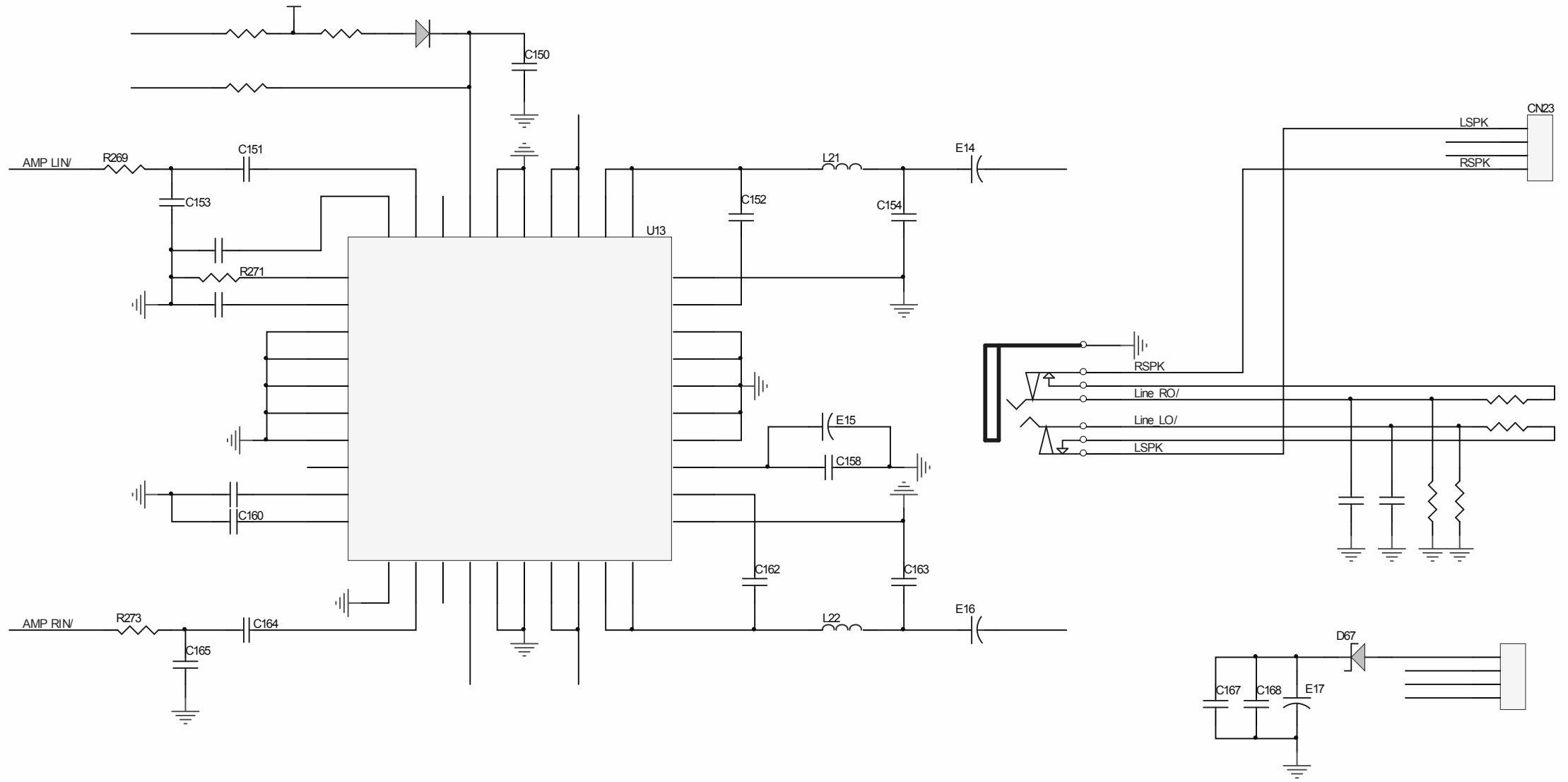


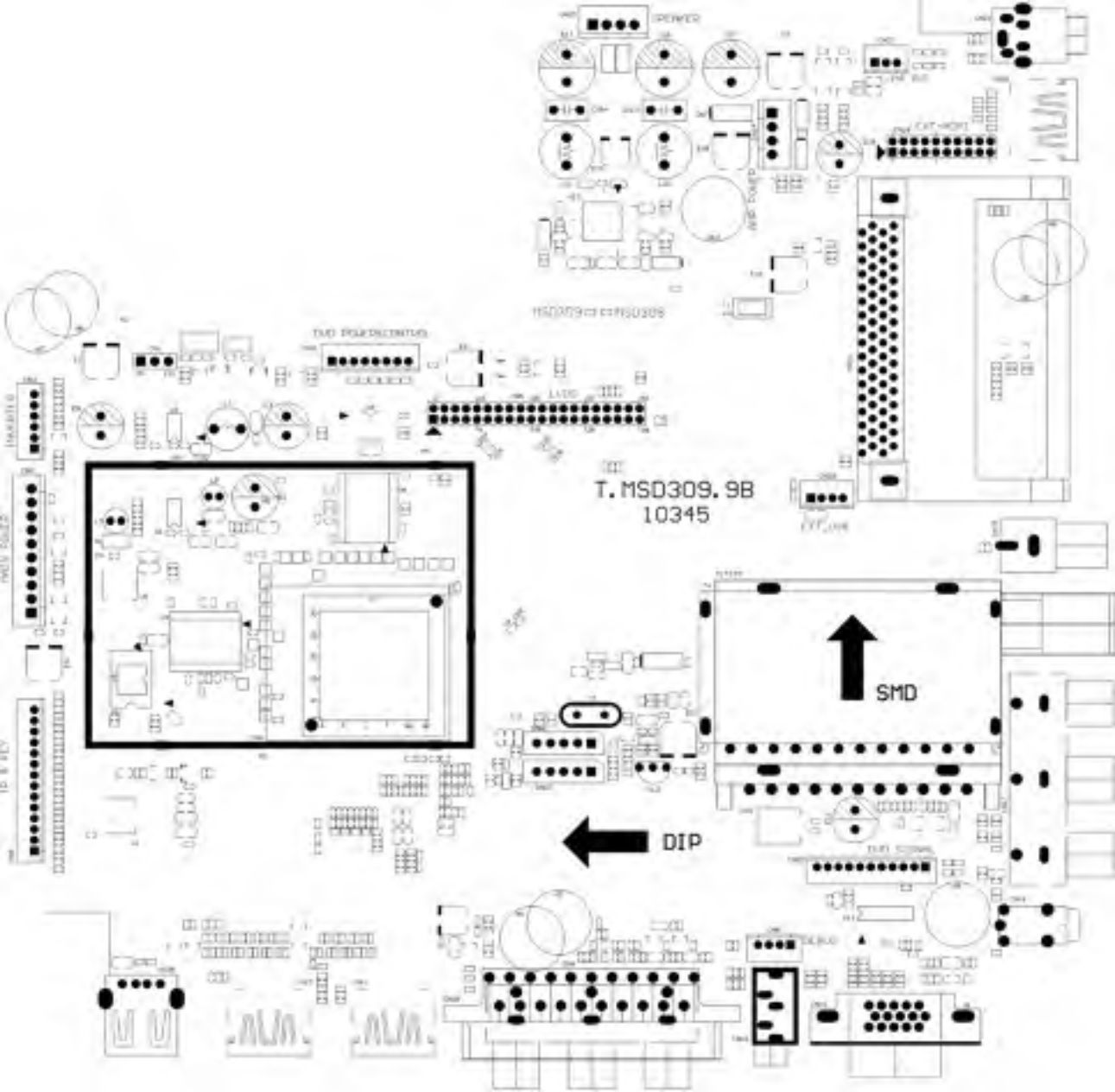








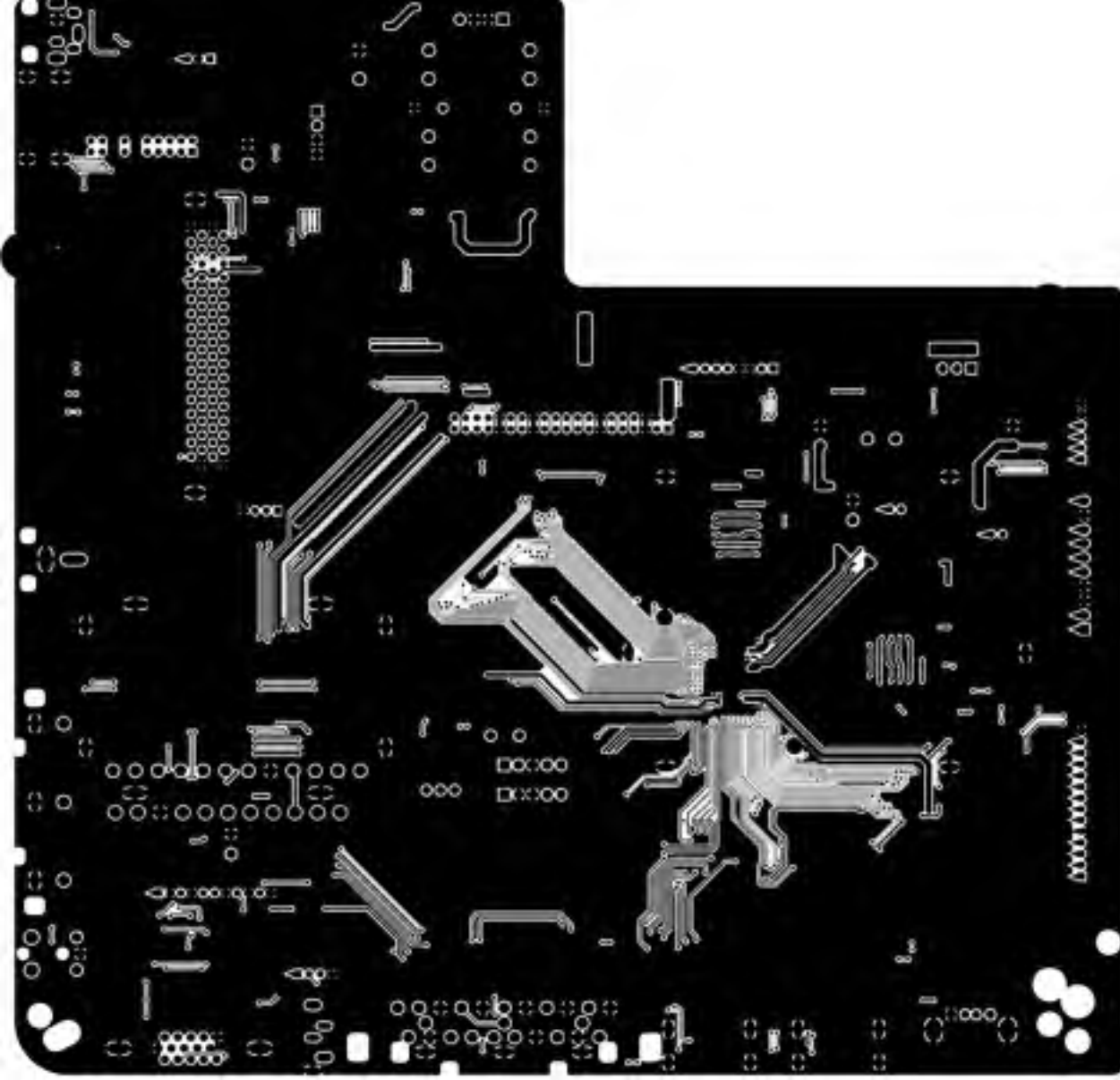


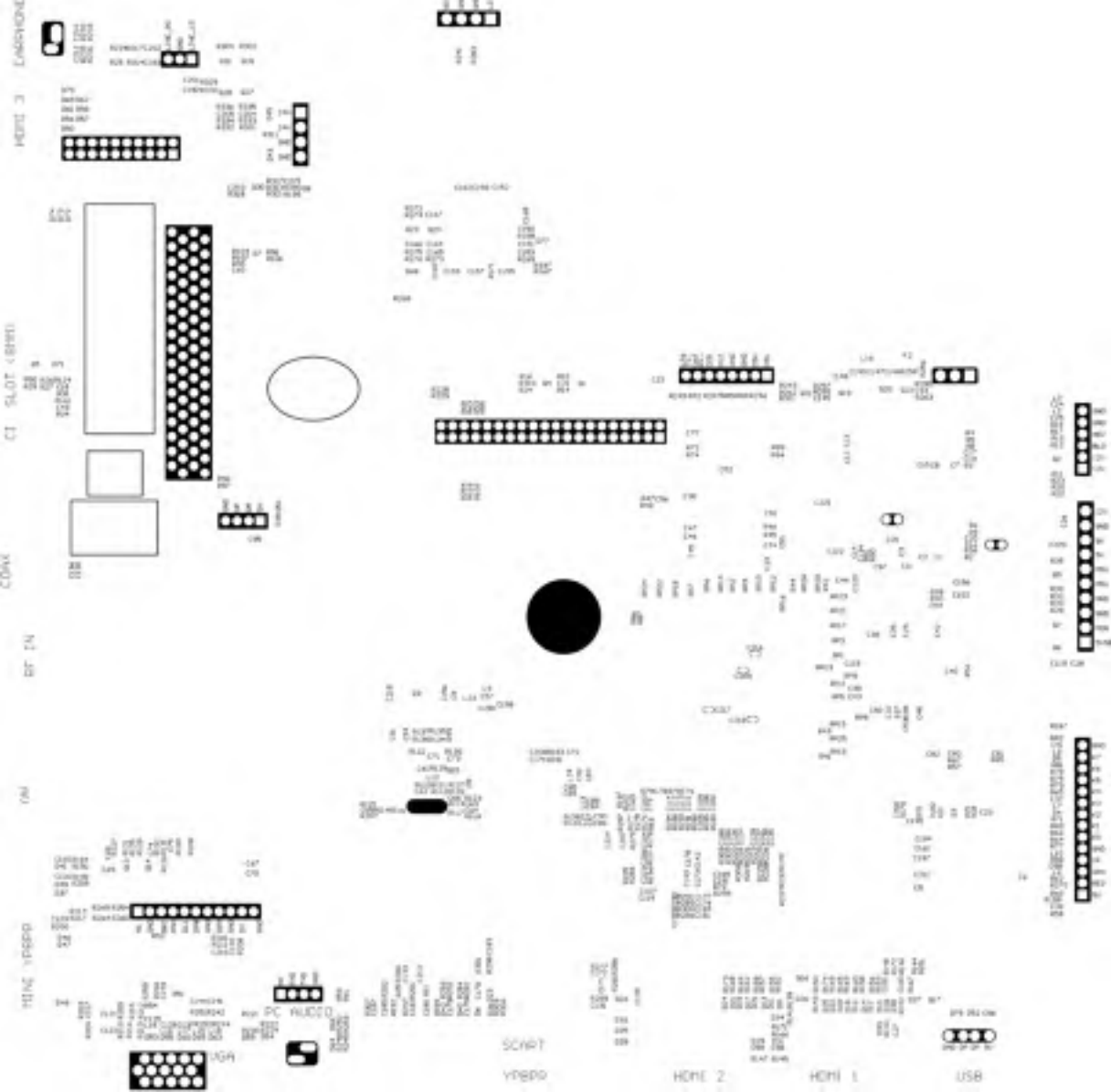


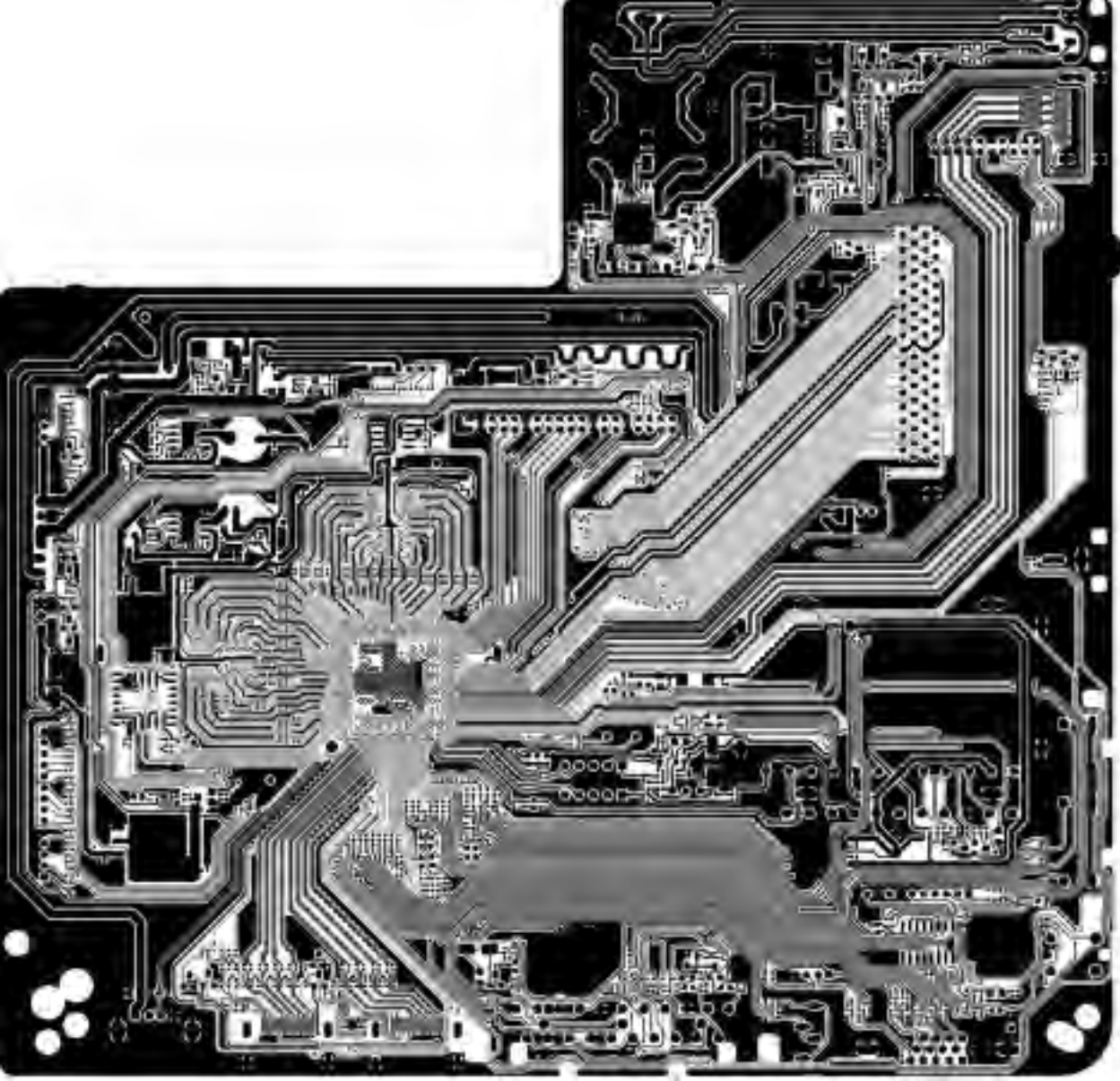
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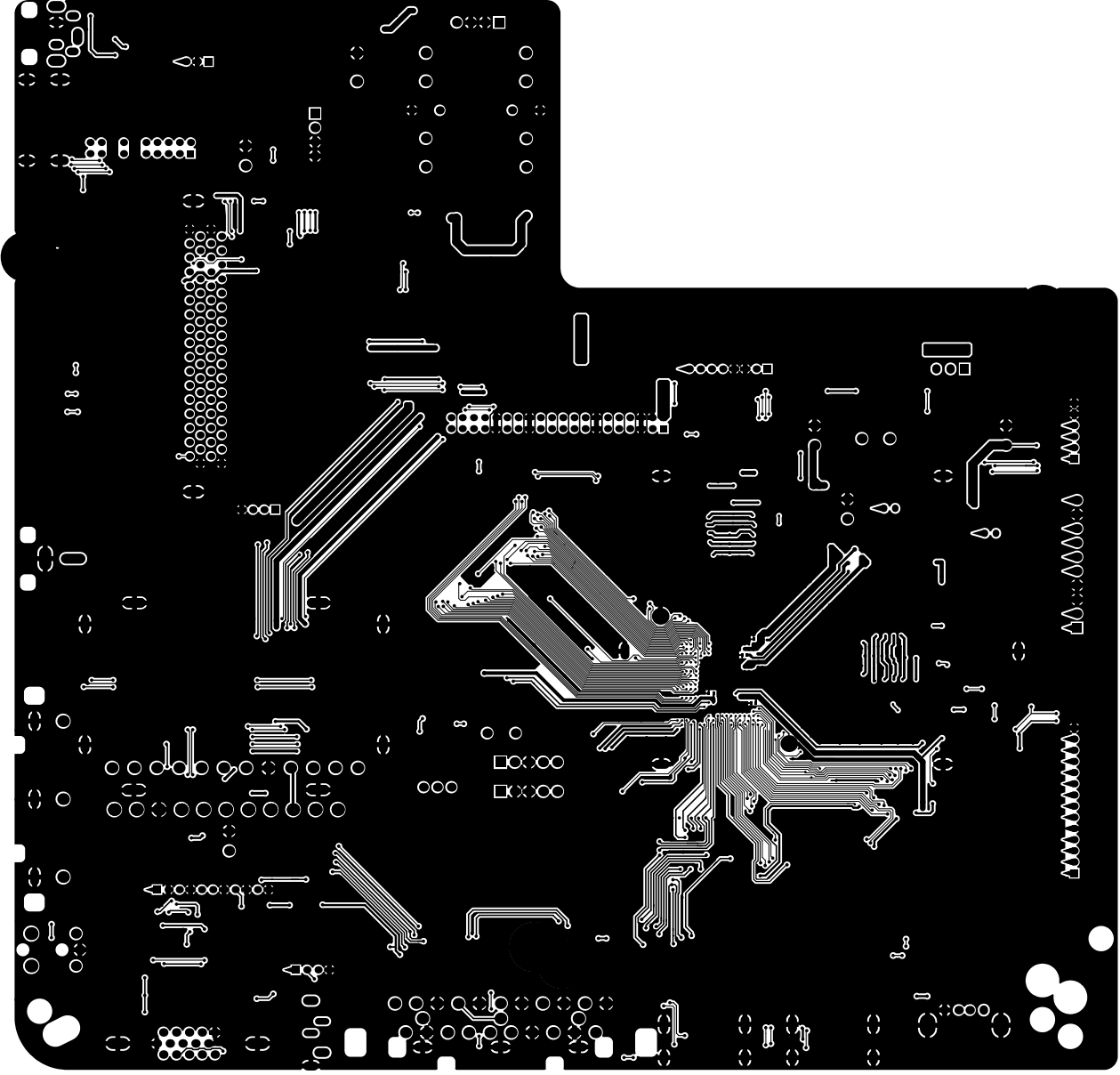
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DIP









EARPHO

AU

C207 C215
 R218 R221 R195

D7 D98
 R107 R106

R104
 R107
 R95
 C60

D71
 R26 R124
 R27 C18
 R91
 R145
 C49
 R34

D96
 D97

G
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D96 D97

C95

	C69	R108	
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PC AUDIO

C91 C96 RI32RI36RI38
RI36RI34E
RI22 C71 RI30
C73
C61RI29RI15
LI2
RI10RI11RI27RI28
C62 RI12RI20
RI15 C66 RI23
C69RI14RI16 RI19C63
R207 RI17C64
RI18

YPBPR

SCART

HDMI 2

HDMI 1

GND DP DM

USB

R82		
C41	●	GND
L8		
D5		K7
R81		
R78		K6
R75		
R73		K5
R65		
C37		K4
L7		
D4		K3
R71		
R69		K2
R66		
R64		K1
R77		K0
L10		GND
R88		
C58		IR
L6		
R62		GRN
R27D		
R60		RED
		5V

R82		
C41	●	GND
L8		
D5		K7
R81		
R78		K6
R75		
R73		K5
R65		
C37		K4
L7		
D4		K3
R71		
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L6		
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R82		
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L8		
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R81		
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L6		
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R27D		
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		5V

