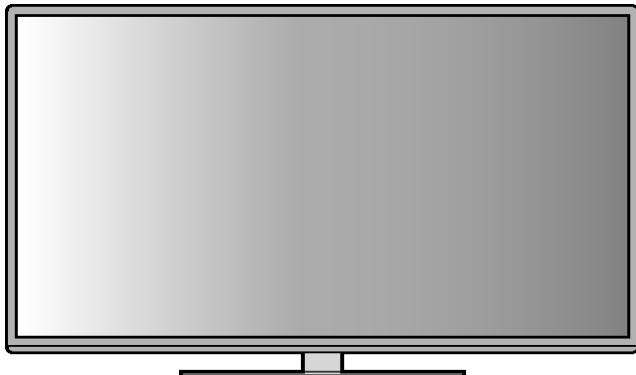


Service Manual

LED TV



Model No. **TH-50C300K**
TH-50C300M
TH-50C300S
TH-50C300T
TH-50C300X

⚠ 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 \triangle 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, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
5. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
6. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.

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 8.5Mohm to 13Mohm.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a $0.15\mu\text{F}$ 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.

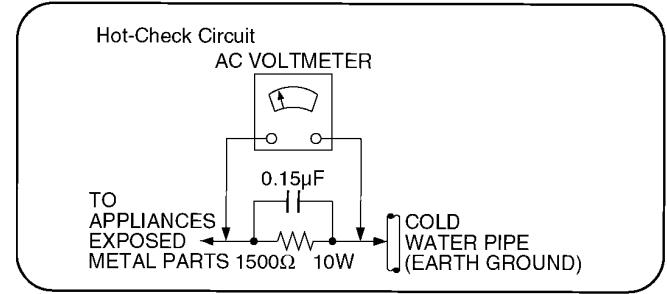


Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically 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 ham less 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. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

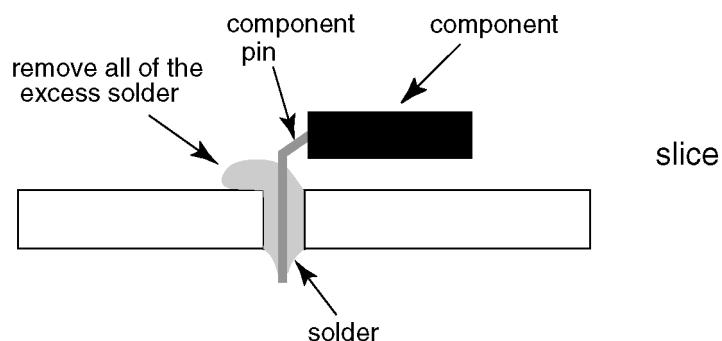
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf symbol **PbF** stamped on the back of PCB.

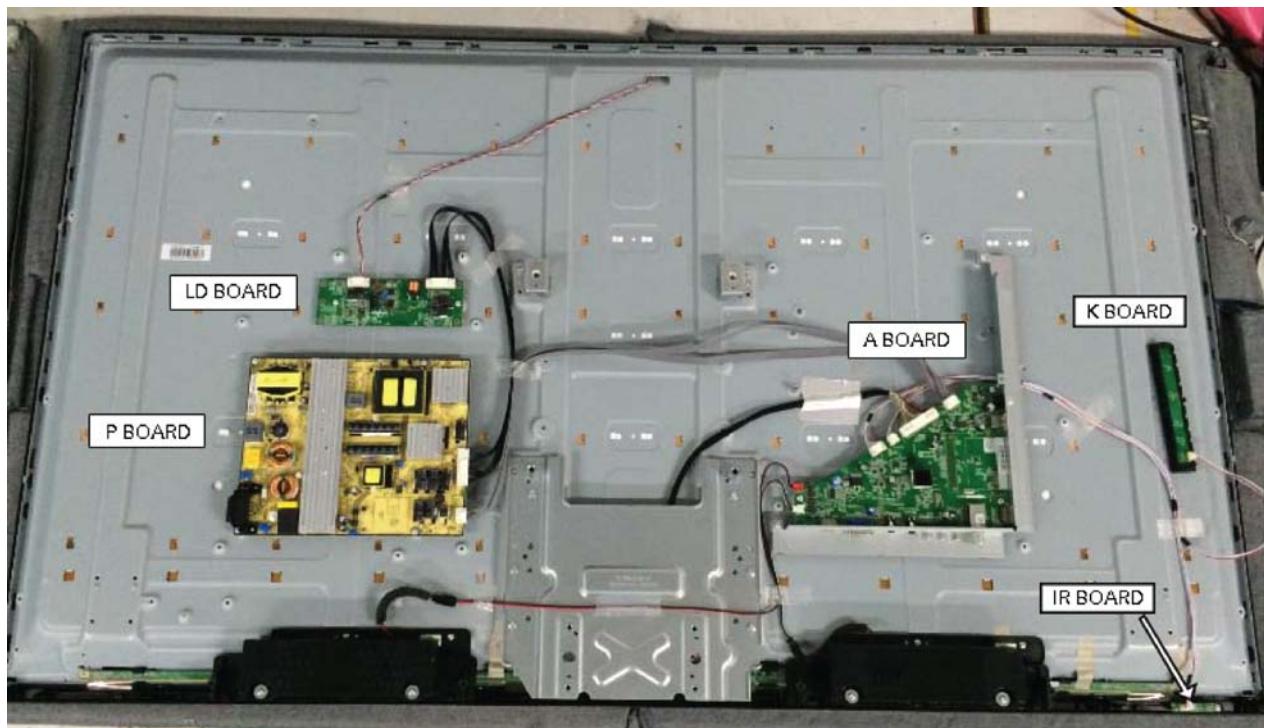
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C). If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, EEP, SPI, MTK IC	
P BOARD	Power Supply	
K BOARD	Key	
IR BOARD	Remote	All boards are non-repairable and should be exchanged for service
LD BOARD	LED Driver	

4 Specifications

Note

• Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Test and Alignment

5.1. Factory Menu Description

Follow the below steps to pop-up the Factory menu in case of "FactoryKey" is disabled:

- Press RCU "MENU" key to display main menu
- Select "Picture" and press "OK" key to enter into Picture submenu
- Scroll down to "Contrast" item
- Press the subsequence RCU keys "9", "7", "3" and "5"

In case of "FactoryKey" is enabled, just press RCU "Return" key to pop-up again the Factory menu. The status of "Factory Key" can be changed in "Factory Menu->Hotkey"

- Press RCU "OK/▶" key to enter the submenu.
- Press RCU "Menu" key to go back to the root menu.
- Press RCU "◀/▶" key to change the values.
- Press RCU "OK" key run the function.
- Press RCU "Exit" key exit the Factory menu.

1 - Hotkey submenu

Item	Sub-item	Value	Note
Hotkey		Off/On	Enable Hotkey flag by pressing "◀▶" key to have possibility to access Factory menu with "RETURN" key (default is disabled)

2 - Warm-Up Mode submenu

Item	Sub-item	Value	Note
Burning Mode		Off/On	Enable Burning mode by pressing "◀▶" key, then press "EXIT" key to activate it. Press "Menu" key on local keyboard to exit the Burning mode

3 - ADC submenu (N/A - menu remains grayed)

4 - White Balance submenu

Item	Sub-item	Value	Note
White Balance	Source	HDMI/VGA/DTV PAL/SECAM NTSC/RGB/CMP	Select by pressing "◀▶" key
	Color Temperature	Normal/Warm/Cool	Select Tone by pressing "◀▶" key
	RED Gain	000..255	Set R Gain by pressing "◀▶" key (-127..+128 for offset)
	GREEN Gain	000..255	Set G Gain by pressing "◀▶" key (-127..+128 for offset)
	BLUE Gain	000..255	Set B Gain by pressing "◀▶" key (-127..+128 for offset)
	RED Offset	000..255	Set R Offset by pressing "◀▶" key (-127..+128 for offset)

Item	Sub-item	Value	Note
	GREEN Offset	000..255	Set G Offset by pressing “◀▶” key (-127..+128 for offset)
	BLUE Offset	000..255	Set B Offset by pressing “◀▶” key (-127..+128 for offset)
	White Balance Init	>	Press “▶” key to initialize RGB Gain/Offset values
	Pic. Enhance	On/Off	Press “▶” key to disable all picture settings from Feature submenu. This should be done before any White Balance alignment (flag is restored to Off after Shop-End)
	Picture Related	>	Press “▶” key to activate submenu
Picture Related	Flesh tone	On/Off	Press “◀▶” key to enable/disable
	Adaptive Luma Control	On/Off	Press “◀▶” key to enable/disable
	Light Sensor	On/Off	Press “◀▶” key to enable/disable
	Dynamic Backlight	Low Medium High Auto	Select by pressing “◀▶” key
	Back light	000..100	Set Backlight by pressing “◀▶” key
	ADP Control Low Point	000..100 (007d)	Set ADP Low by pressing “◀▶” key
	ADP Control Middle Point	000..100 (057d)	Set ADP id by pressing “◀▶” key
	ADP Control High Point	000..100 (100d)	Set ADP High by pressing “◀▶” key
	Scaling Brightness	000..255	Set ScBright by pressing “◀▶” key (-127..+128 for offset)
	Scaling Contrast	000..255	Set ScCont by pressing “◀▶” key (-127..+128 for offset)
	Scaling Saturation	000..255	Set ScSat by pressing “◀▶” key (-127..+128 for offset)

5 - Reset Shop submenu

Item	Sub-item	Value	Note
Reset Shop		>	Press “OK ▶” key to remove Factory presets (channel Maps, bargraph context, ...) and restore User OOB settings. All adjustments are not impacted!

6 - Reset ALL submenu

Item	Sub-item	Value	Note
Reset ALL		>	Press "OK ►" key to default NVM according to selected Project ID (all adjustments are defaulted, channel Maps are cleared, Hotkey is enabled, ...)

7 - Power Mode submenu

Item	Sub-item	Value	Note
Power Mode		Boot Standby Last Status	Select starting sequence by pressing "◀▶" key - Boot: Force TV to start - Standby: Force TV to standby - Last Status: Force TV to standby or to start depending on latest operation

8 - USB Clone Mode submenu

Item	Sub-item	Value	Note
USB Clone	USB Clone Mode	All ChannelList EEPROM User Setting	Select by pressing "◀▶" key
	TV TO USB	DO	Press "OK ►" to copy TV template context to USB depending on Cloning mode
	USB TO TV	DO	Press "OK ►" to copy USB template context to TV depending on Cloning mode

9 - PC Link Check submenu

Item	Sub-item	Value	Note
PC Link Check		DO	Press "OK ►" to check IP address detection and control MAC, DID, and UID integrity

10 - Other submenu

Item	Sub-item	Value	Note
Project Info	Project ID	***	Select Project ID by pressing "◀▶" key
	Project Name	***	Info
	Panel ID	***	Info
	Panel Name	***	Info
	Version	***	Info (ex:V8-MT25F0x-LF1Vxxx)
	Date	***	Info
	Time	***	Info

Item	Sub-item	Value	Note
	MCU Version	***	Info (n/a)
	Product S/N	(NULL)	Info
Update CI+ Credential	Update CI+ Credential	>	Press “OK ►” key to active CI+ key
	Update from USB	>	Press “OK ►” key to copy CI+ key from USB
	Erase CI+ Credential	>	Press “OK ►” key to remove CI+ key
	Valid	***	Show the CI+ status (NO by default)
	Cus Code	***	Show the CI+ custom code
	Serial Num	***	Show the CI+ serial number
Update MAC address	Update from USB	>	Press “OK ►” key to copy MAC address from USB
	Written status	***	Show the writing status (NO by default)
	MAC address	***	Show the MAC address (NULL by default)
	PC Link Check	DO	Press “OK ►” to check IP address detection and control MAC, DID, and UID integrity
Tuner AGC		-127..+127	Set AGC level by pressing “◀▶” key
Auto Standby		Off 4 hours 6 hours 8 hours	Select ErP Auto Switch-Off mode by pressing “◀▶” key
MT31BOP		On/Off	Enable/Disable by pressing “◀▶” key
MT31BFS		On/Off	Enable/Disable by pressing “◀▶” key
Event By Event		On/Off	
OAD Update		>	Press “OK ►” to start OAD Upgrade process

5.2. How to upgrade Flash SW using USB

5.2.1. Upgrade with Loader

1. Power-off or switch TV to standby (LED should light on).
2. Copy the corresponding SW PKG image (ex: "V8-0MT310x-LF1Vxxx.pkg") into USB stick (pen drive) root path and rename it to "upgrade.pkg".
3. Plug USB stick to the TV.
4. While power-on TV if previously off (LED status off), press "Power" button from localkeyboard during few seconds to start upgrading process.
5. Release "Power" button once LED is blinking or USB stick starts blinking, TV is uploading SW BIN image.
6. When reflashing is successful, TV should restart automatically after ~2min.

Info:

If TV doesn't restart and LED is lightening on, an error may occurred during flashing, check the set, PKG file integrity and try again from 1st step.

7. Remove USB stick.
8. Remember to perform "Factory menu → Reset ALL" or "Factory menu → Reset Shop" and then press RCU "OK / ▶" key if there's not any subsequent cloning operation.
9. Switch off TV by removing AC cord.
10. Reconnect AC cord to restart TV and wait few seconds for Eeprom update.

Note:

If "Reset Shop" was performed, a "Welcome Setup" menu should be displayed, otherwise new SW version should be displayed into relevant Factory mode caption info or on bottom of "Factory menu".

5.2.2. Upgrade without Loader

1. Copy the corresponding SW PKG image (ex: "V8-0MT310x-LF1Vxxx.pkg") into USB stick (pen drive) root path and rename it to "upgrade.pkg".
2. Plug USB stick to the TV.
3. TV will automatically detect new SW to upgrade and displays below pop-up message:



4. Press RCU "OK/." key to start upgrading process and follow instructions till reflashing is successful.
5. Remove USB stick
6. Remember to perform "Factory menu → Reset ALL" or "Factory menu → Reset Shop" and then press RCU "OK / ▶" key if there's not any subsequent cloning operation.
7. Switch off TV by removing AC cord.
8. Reconnect AC cord to restart TV and wait few seconds for Eeprom update.

Note:

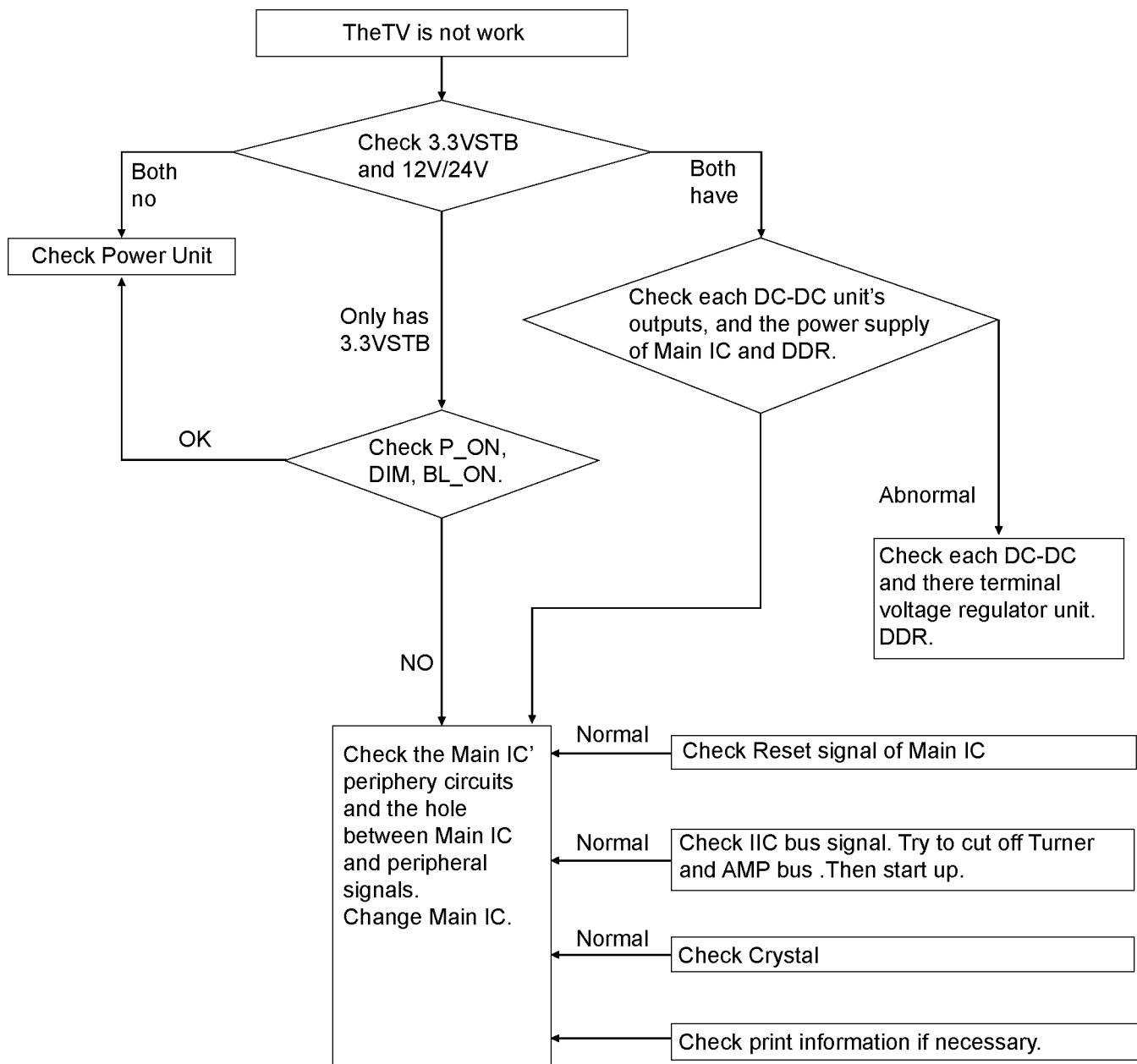
If "Reset Shop" was performed, a "Welcome Setup" menu should be displayed, otherwise new SW version should be displayed into relevant Factory mode caption info or on bottom of "Factory menu".

5.3. How to change ProjectID with RCU

1. Process following subsequence IR codes to change projectID: 062598+MENU+xxx (xxx:ProjectID, ex:003).
2. Restart TV.

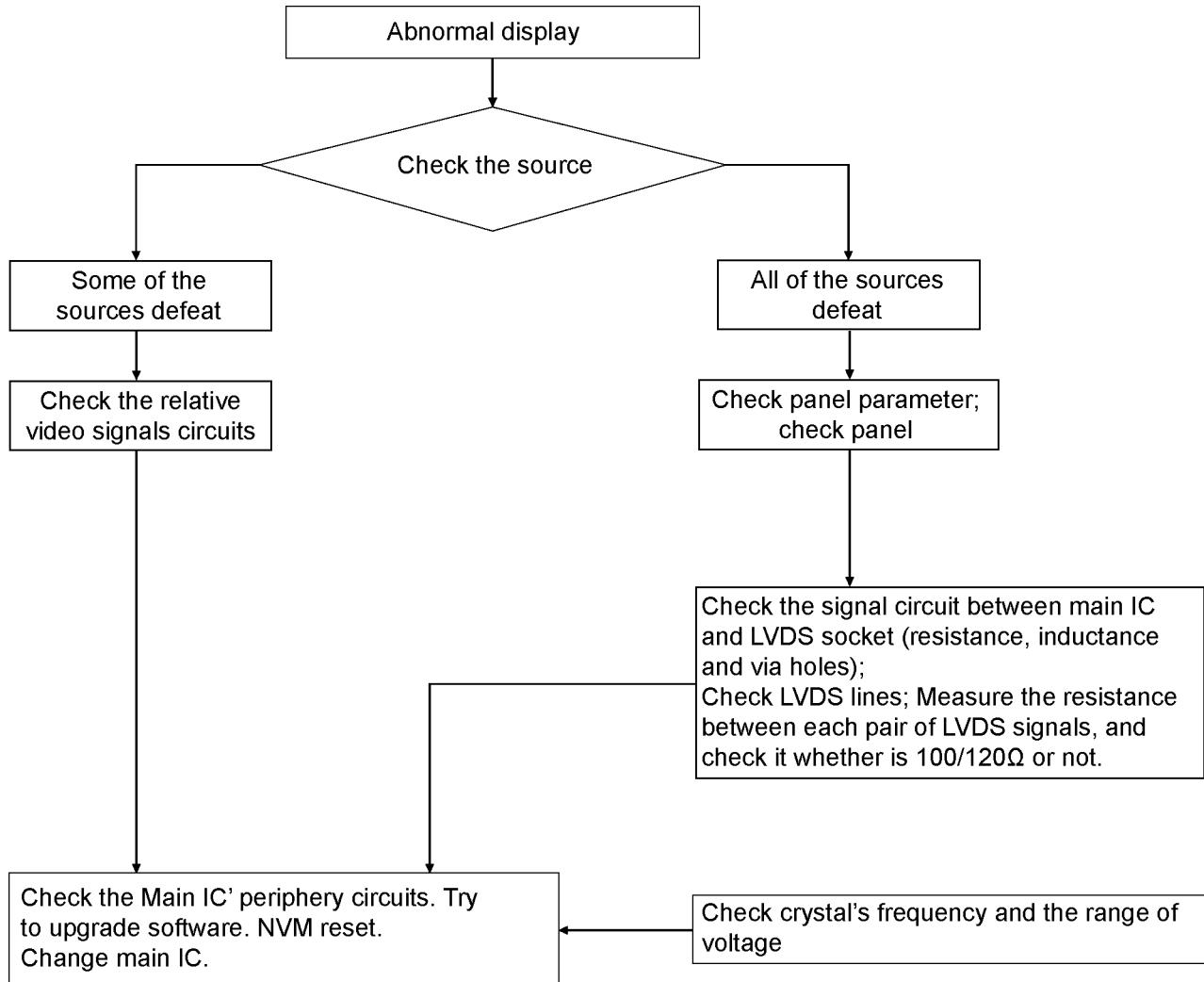
6 Troubleshooting Guide

6.1. Green Power LED does not turn on.



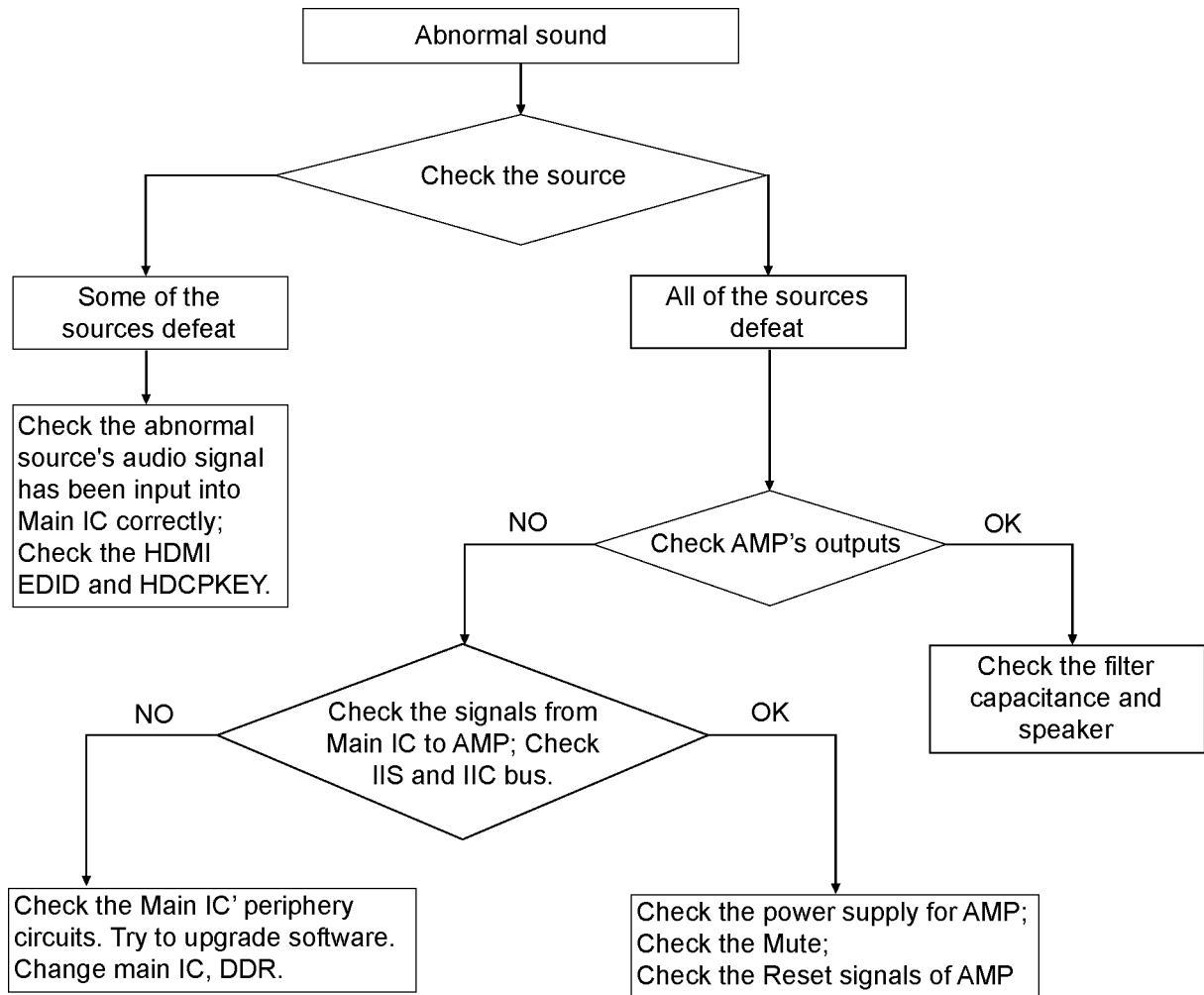
- Many problems may cause the TV can't start up. Firstly, it's need to foreclose the possible bad board (such as main board, key board, panel etc). We can do the right thing only if we find the bad board. The main reasons such as: power supply abnormal, core voltage, DDR's reference voltage, main program abnormal, MBOOT program abnormal, wrong panel parameter, EEPROM data abnormal, bad Main IC and DDR etc. The print information will be useful to analyzing the problems quickly recur to the serial interface tools.

6.2. Abnormal display



- The method of maintain single source (such as TV, AV etc) abnormal display: Firstly, check the relative channel circuit's component whether have obviously short and virtual jointing. It is need to use forehead method to deal with the covert reason. It is need to check Tuner's outputs for TV source abnormal display. Because of Main IC's high degree of integration, all of the video signals are transmitted to the back end after processed by main IC. All of the sources' abnormal display may caused by the main IC's abnormal run. So it is need to judge the problem is caused by the main IC or fore-end circuits. You can do like this: Put the good machine's TV/AV signal into the bad machine's Main IC ,and put the bad machine's TV/AV signal into the good machine's Main IC. If the problem follows the action, the problem is caused by fore-end circuits. If the problem not follows the action, the problem is caused by the Main IC or the periphery circuits.

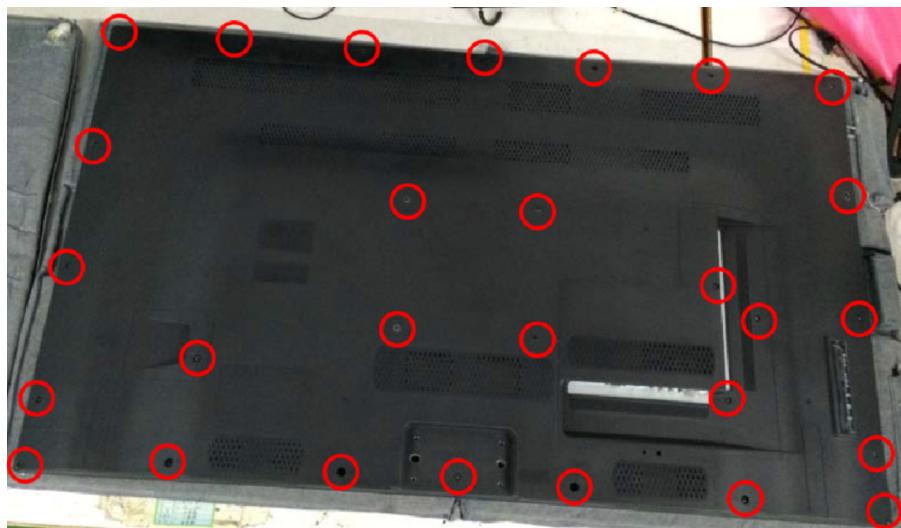
6.3. Abnormal sound



- It is need to check Tuner's outputs when in TV source and check the IIS signals from main IC. Check the Mute circuits and AMP reset's function.

7 Disassembly and Assembly Instructions

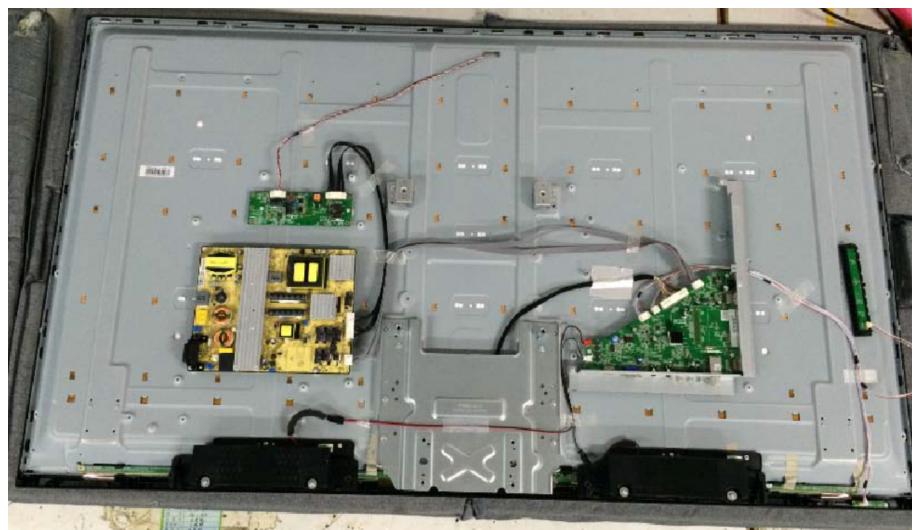
1. Disassembly the screws on the back cover.



2. Be careful of the board lines.



3. Remove the back cover.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

Set A-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Power Supply Name	Measurement Point	Specification (V)	Remark
SUB1.2V	L102	1.14 - 1.26	-
SUB3.3V	U101	3.19 - 3.46	-
SUB5V	L116	4.92 - 5.25	-
STV3.3V	P102(pin7)	3.19 - 3.46	-
PNL12V	L101	11.5 - 12.5	-

8.2. Voltage chart of P-board

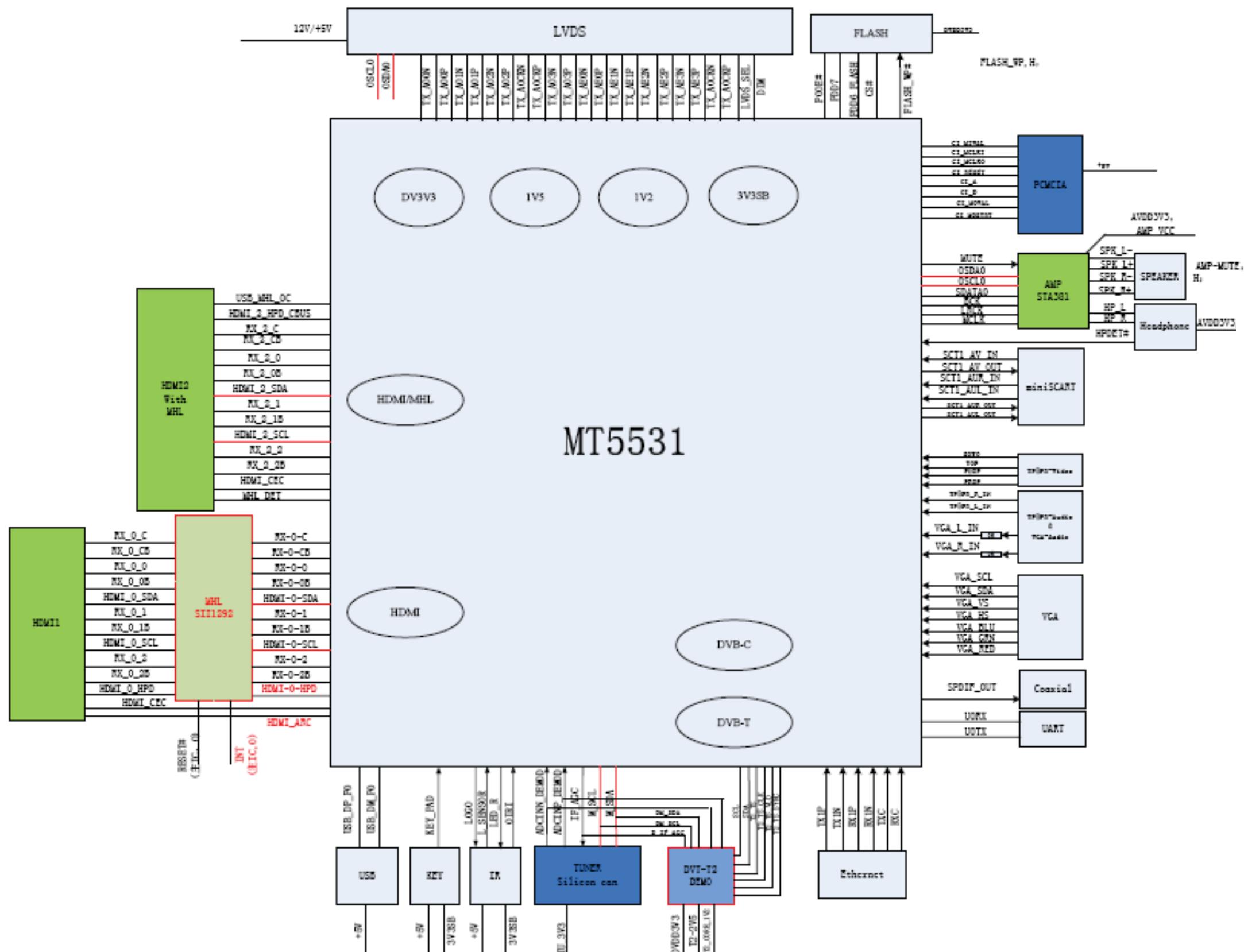
Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification	
		Step 1	Step 2
24V	CN1 (pin 1, 2, 4)	<1V	24 ± 1.6V
3.3V	CN1 (pin7)	3.3 ± 0.2V	3.3 ± 0.2V
PFC	R13	<340V	390V ± 15V

Step 1 Supply AC 100V/230 to JK7101 connector in the P-Board. Main power button is OFF.

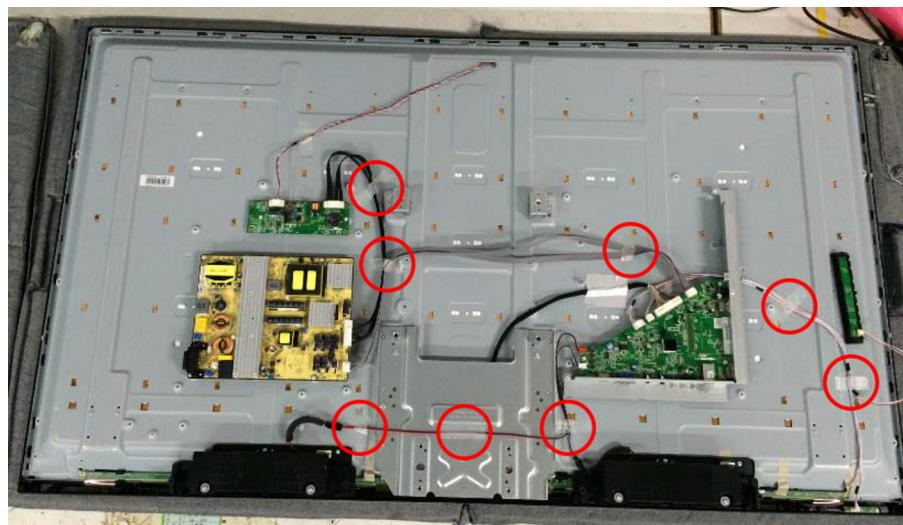
Step 2 Supply DC 2.5V to TV_SUB_ON P2 connector, displayed as SWITCH.

9 Block Diagram

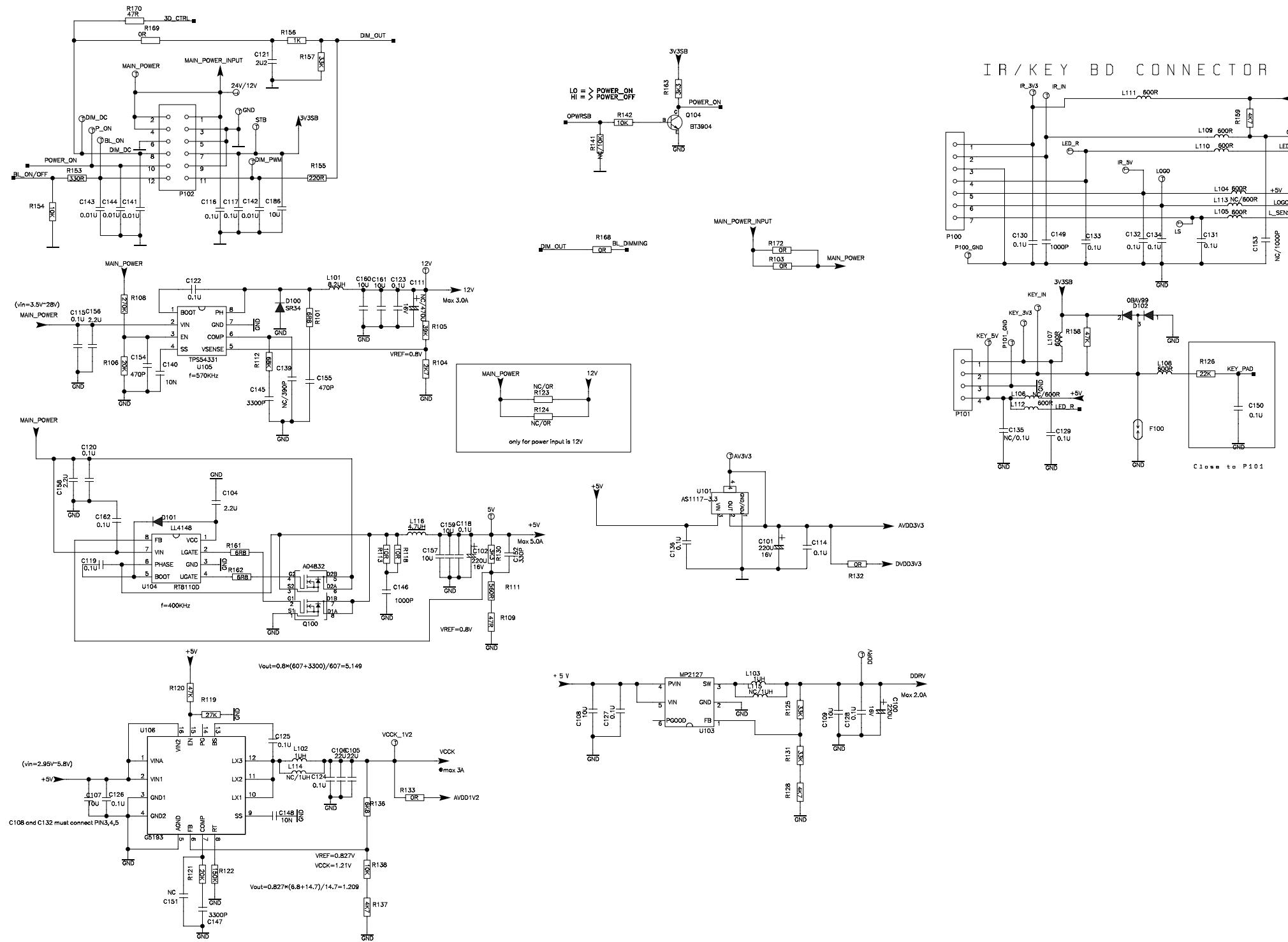


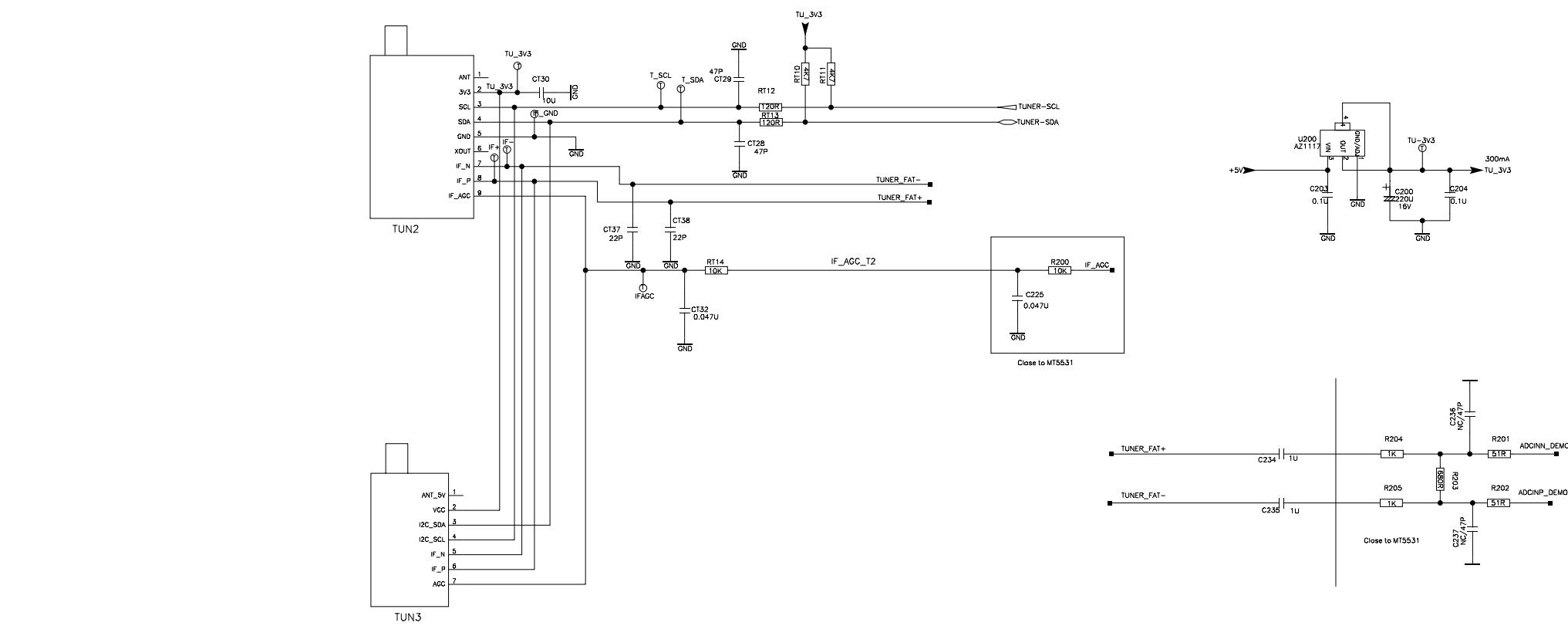
10 Wiring Connection Diagram

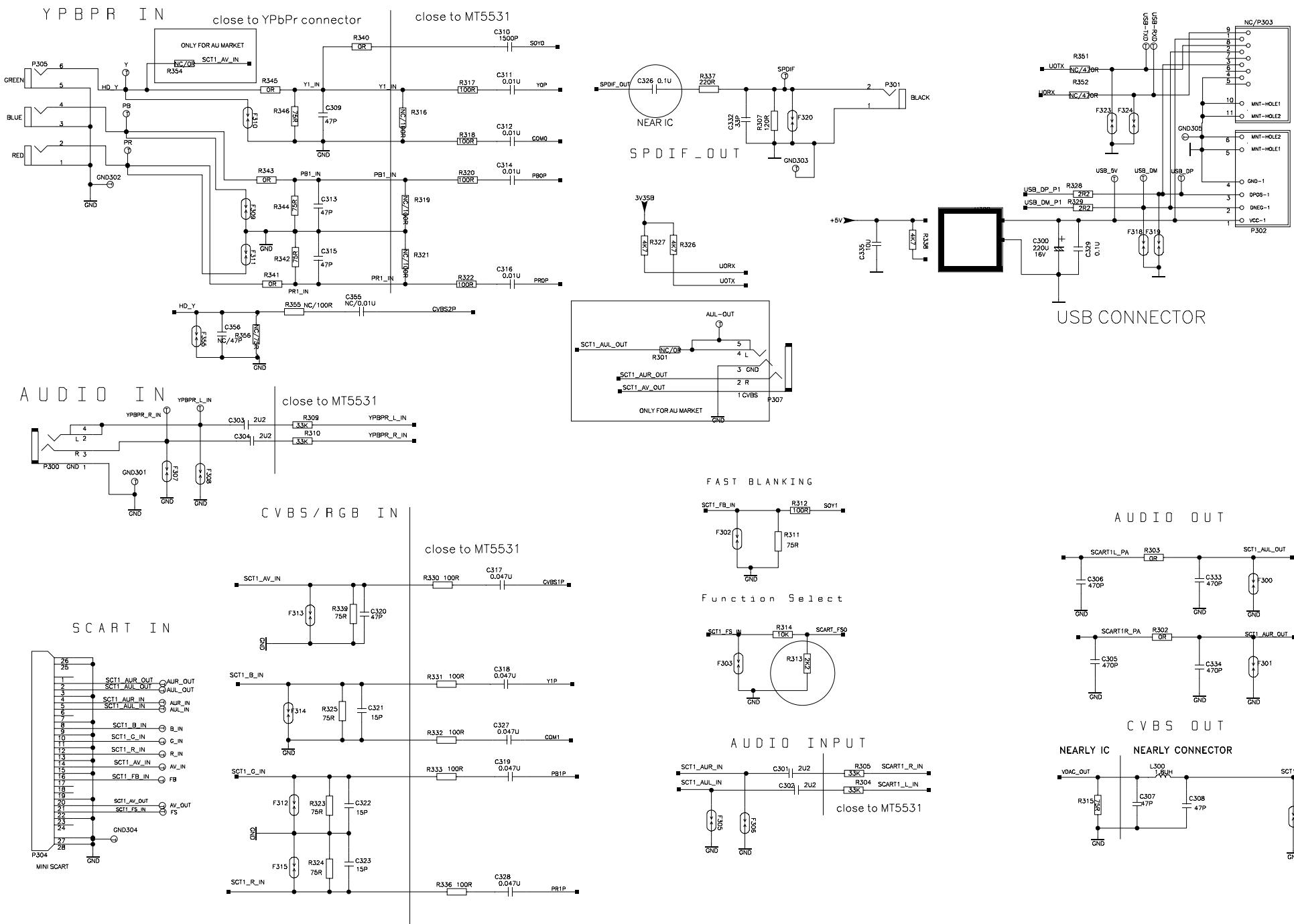
- Stick pet tape for wire dressing.

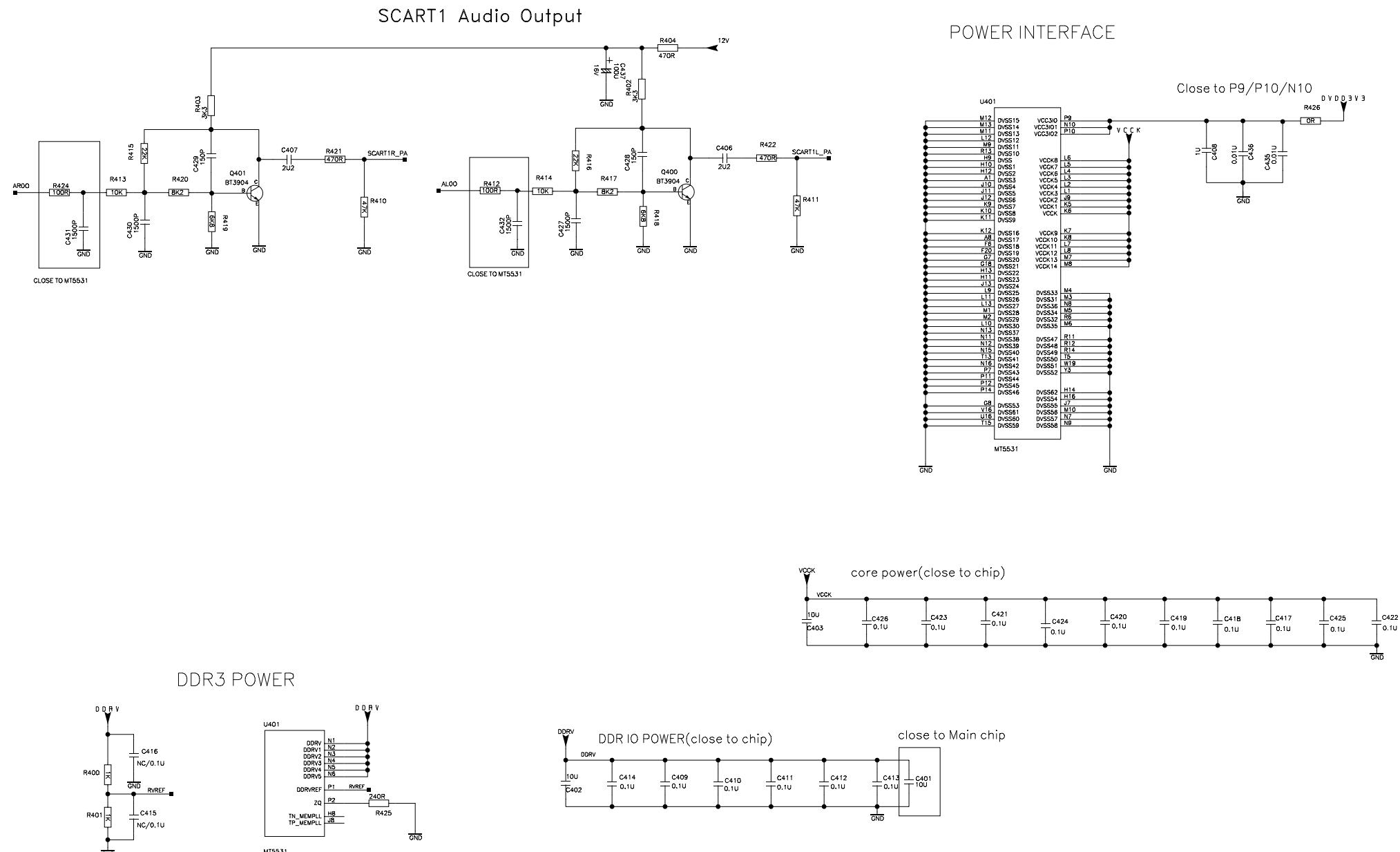


11 Schematic Diagram

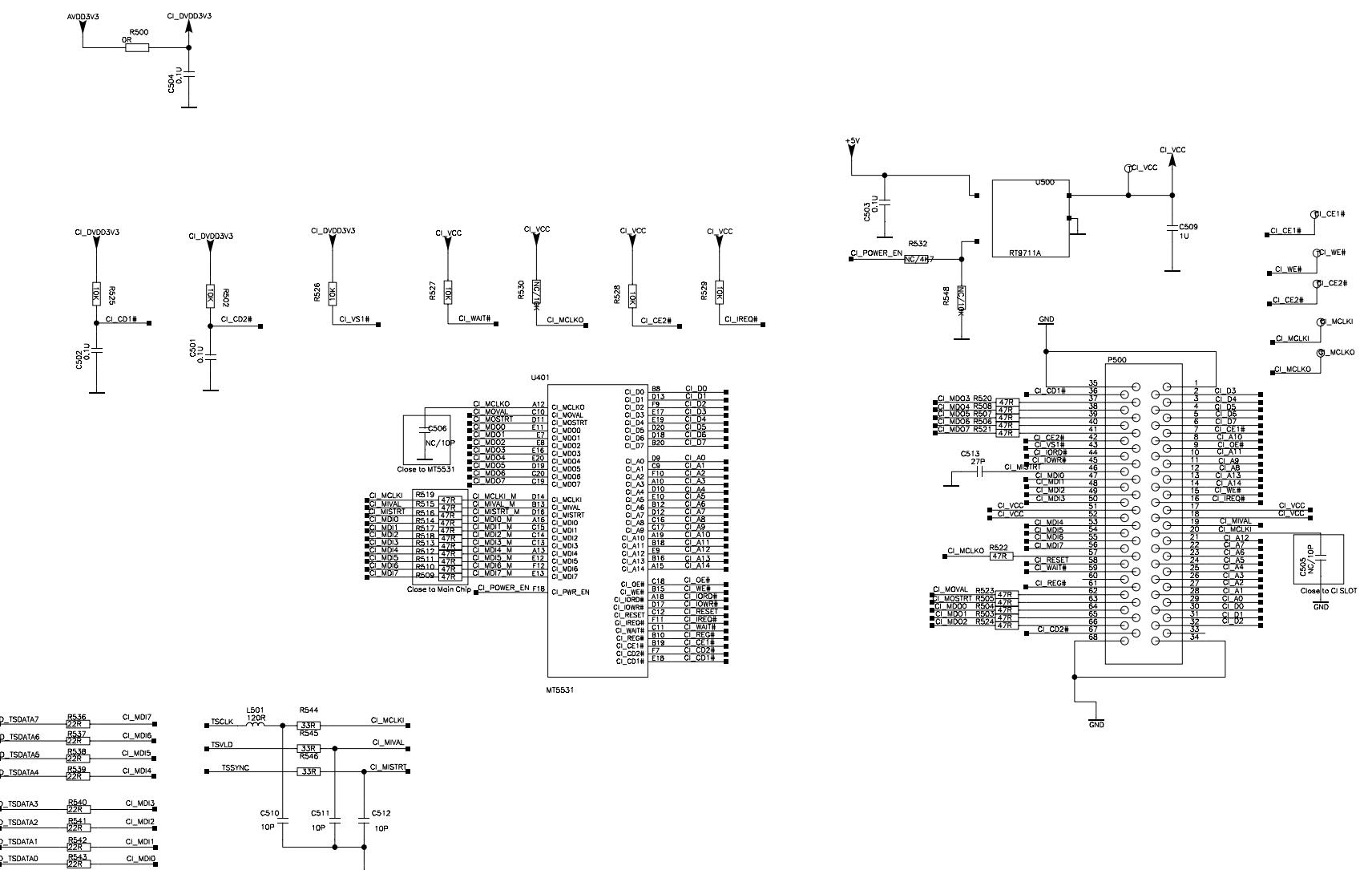




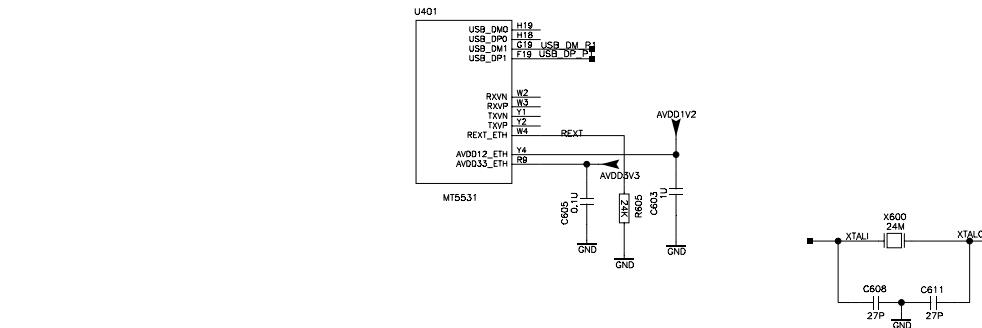




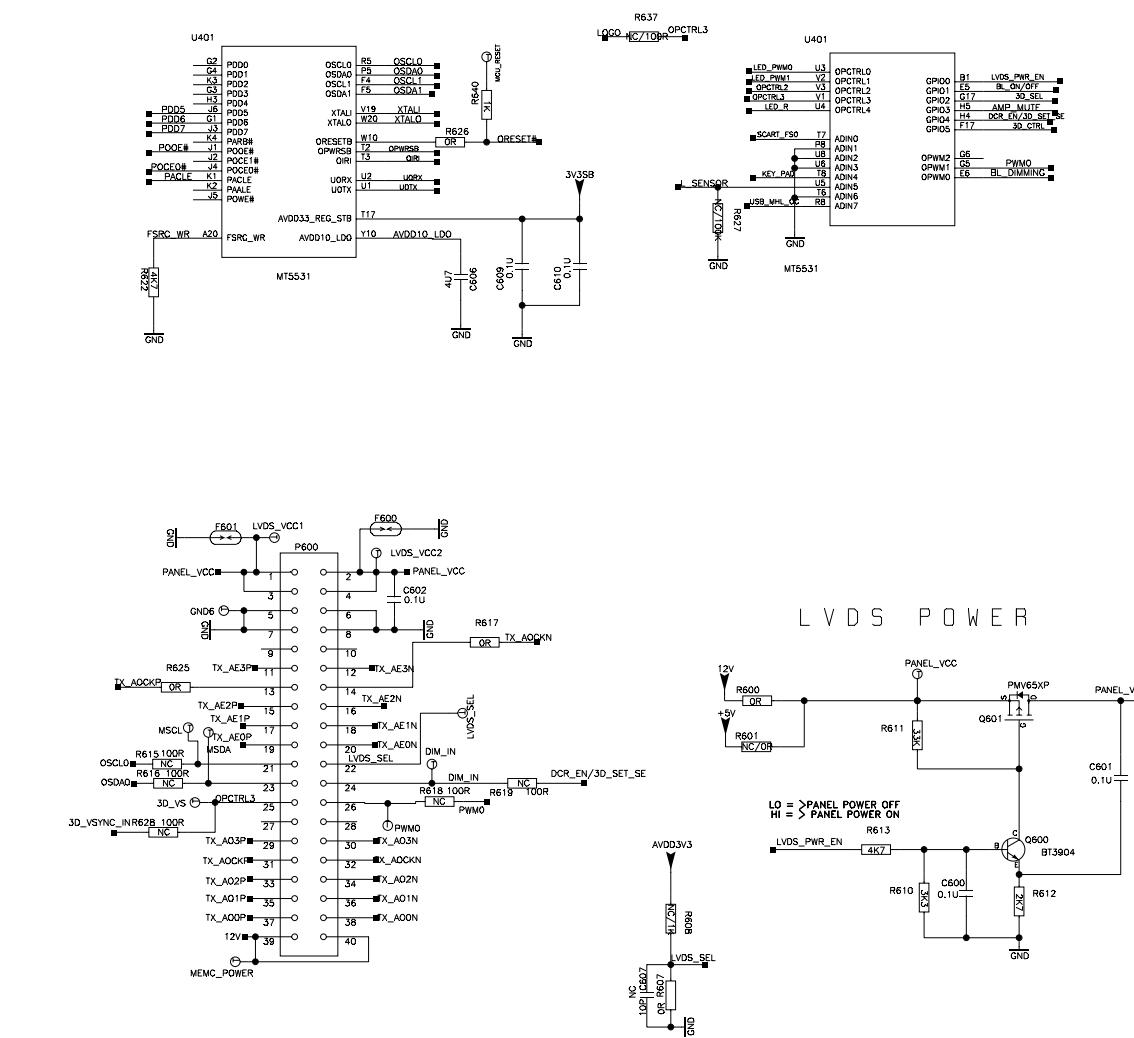
PCMCIA



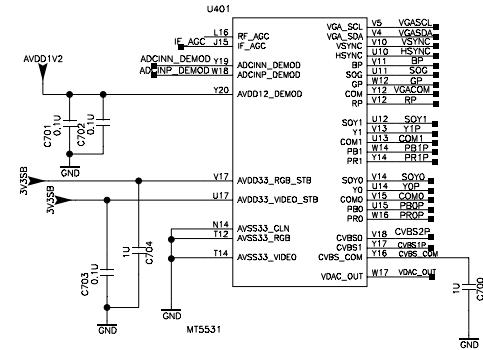
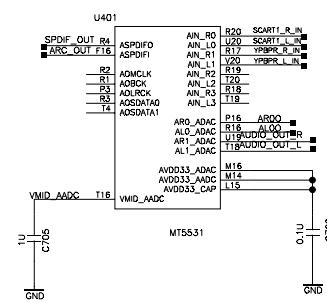
USB&Ethernet



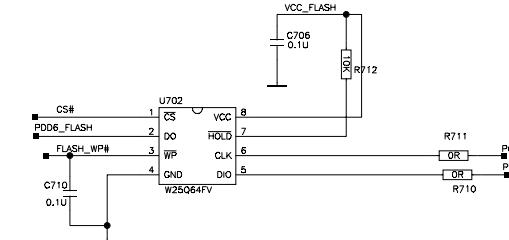
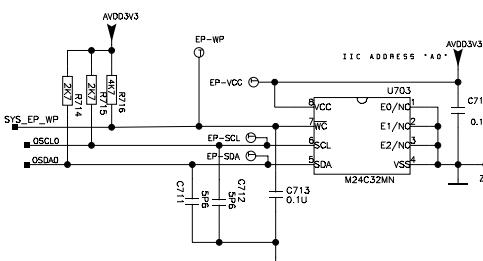
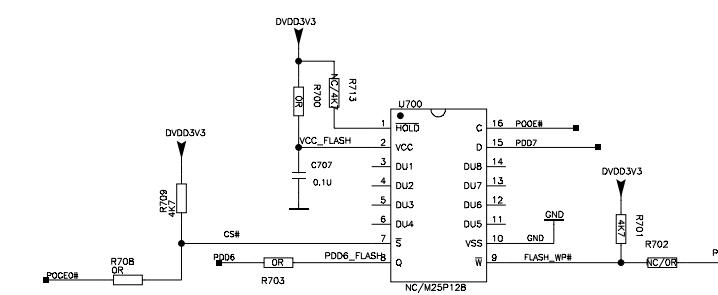
GPIO&LVDS

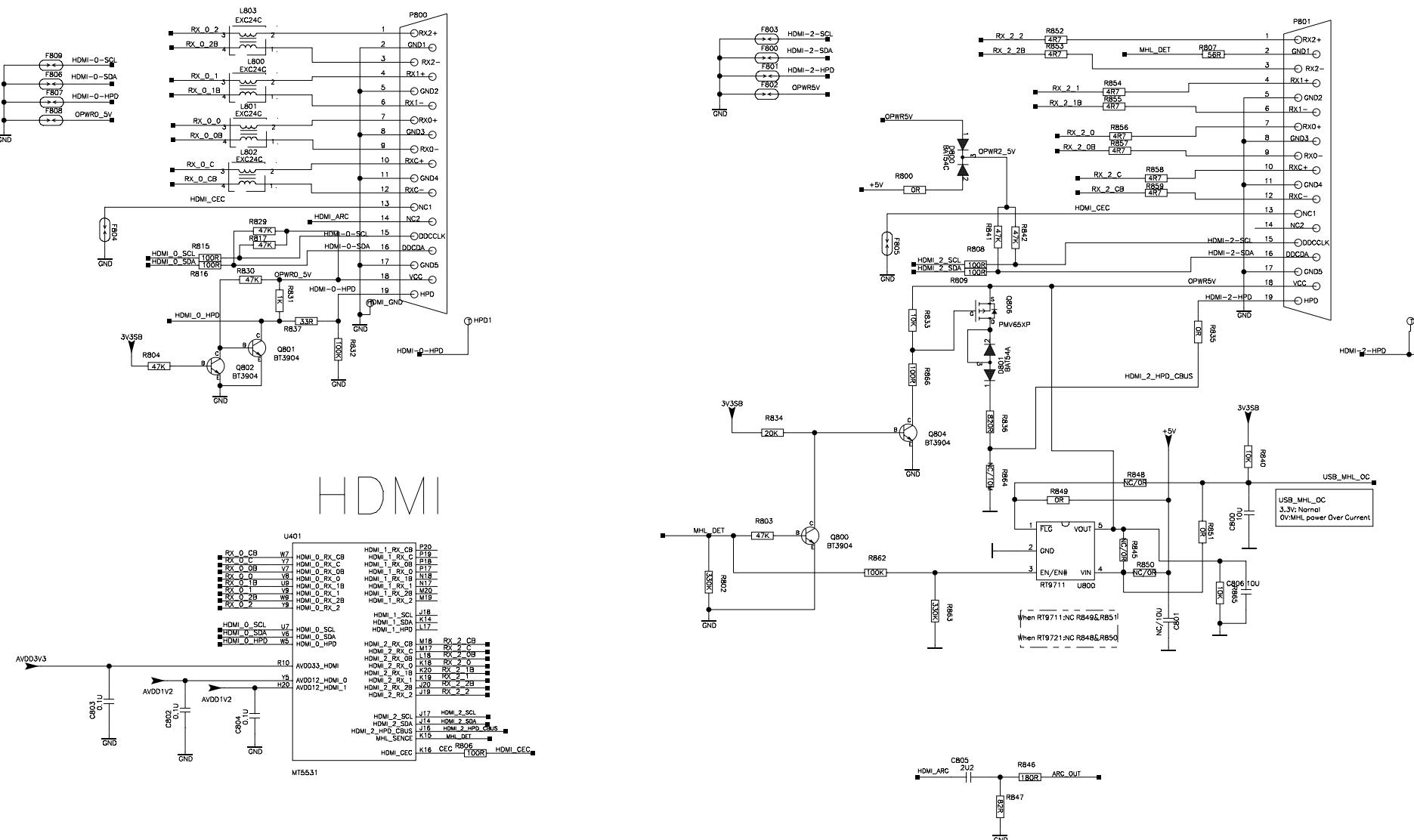


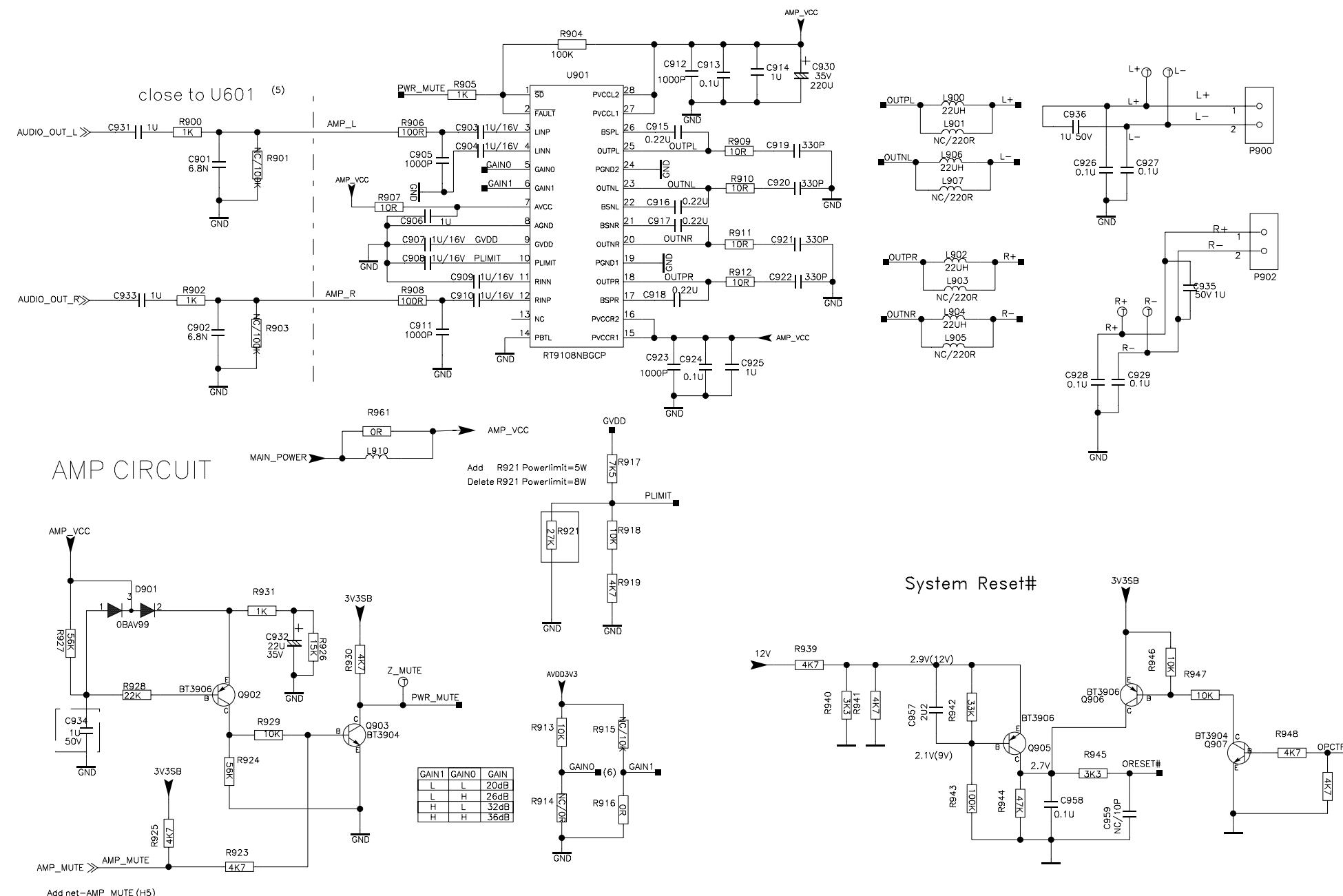
Audio&Video

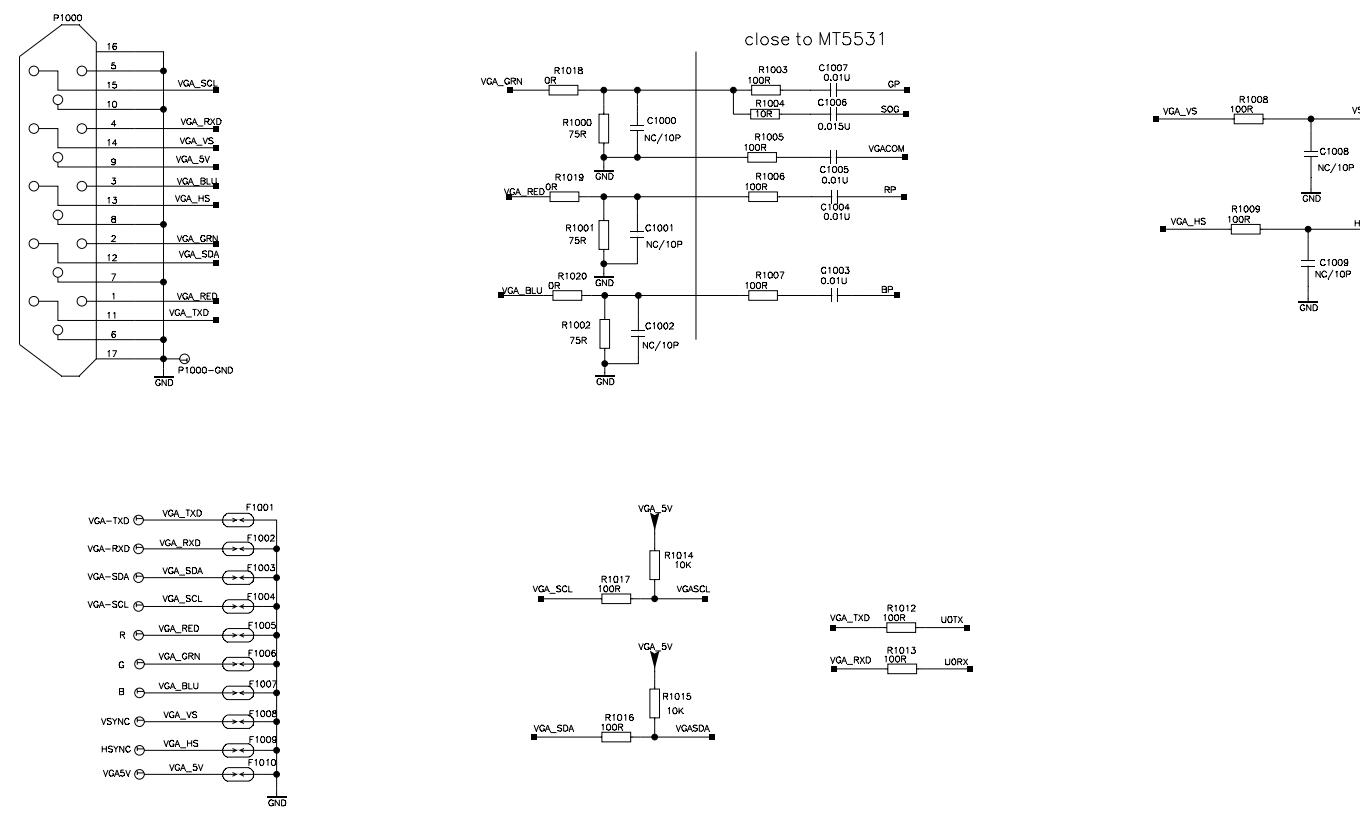


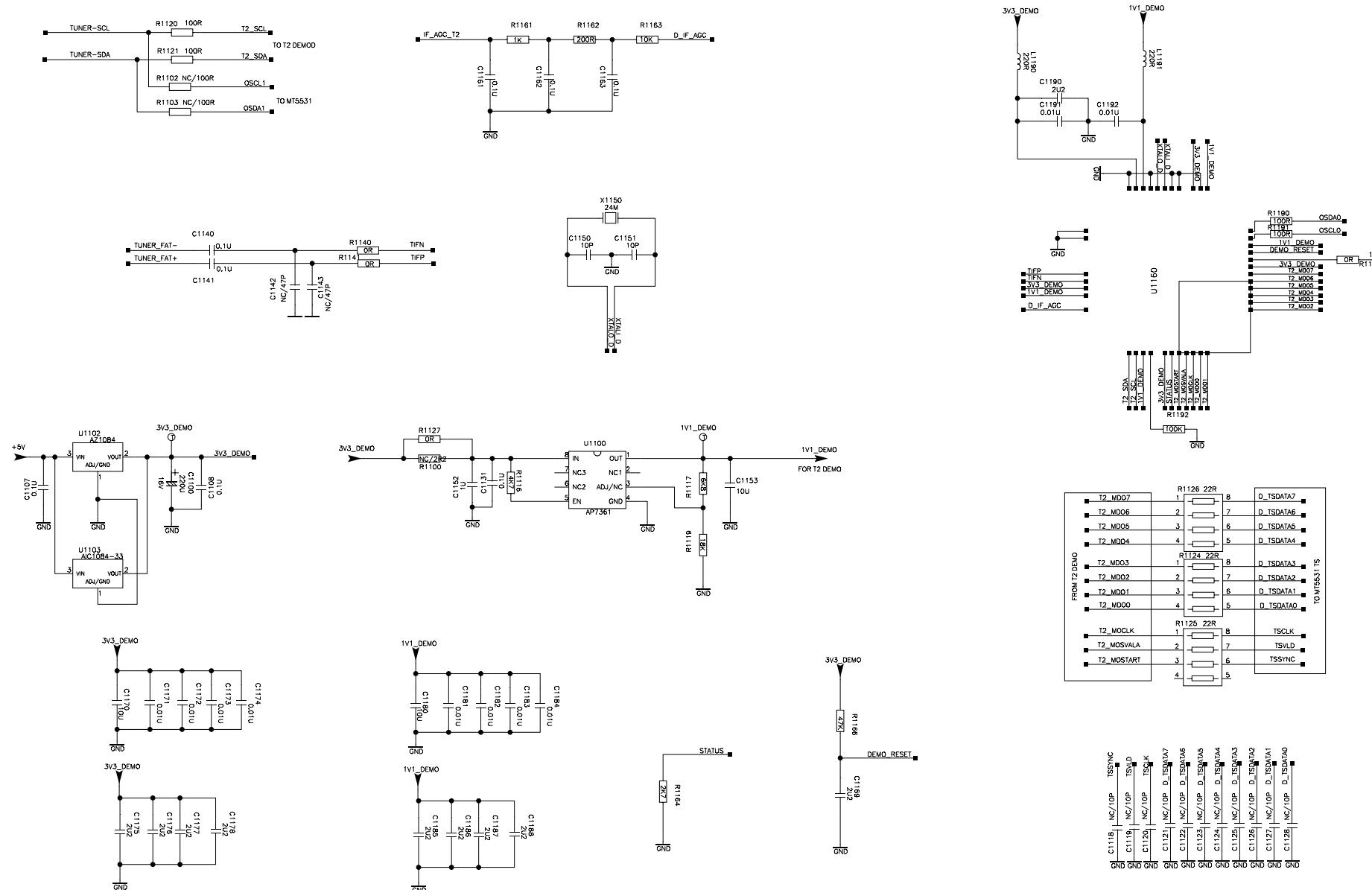
Serial Flash

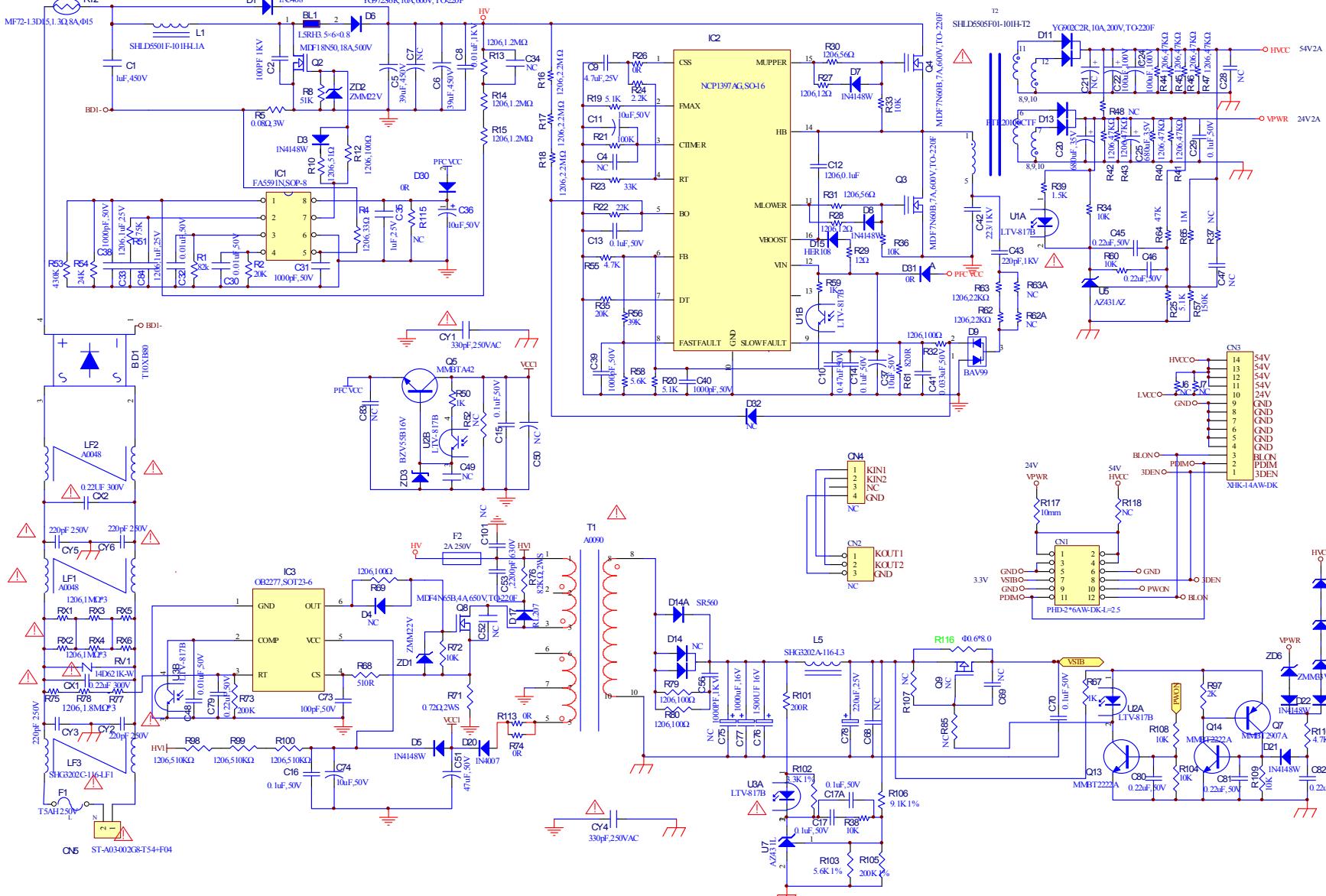






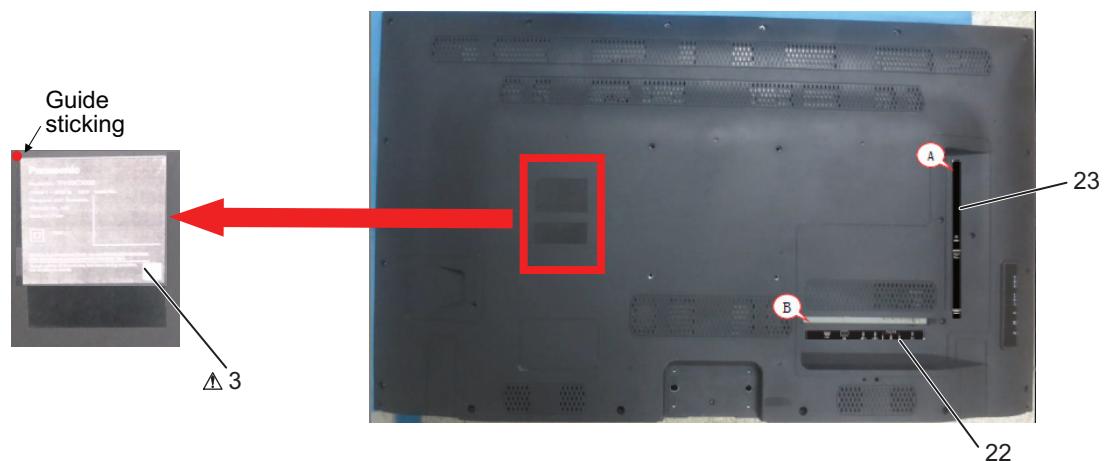
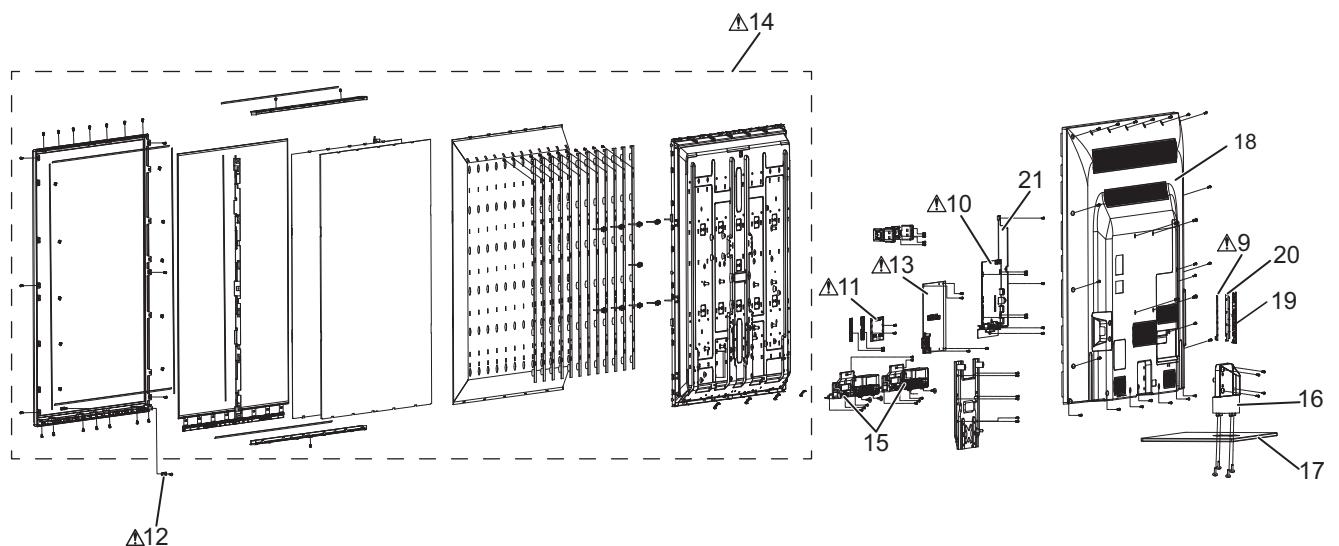


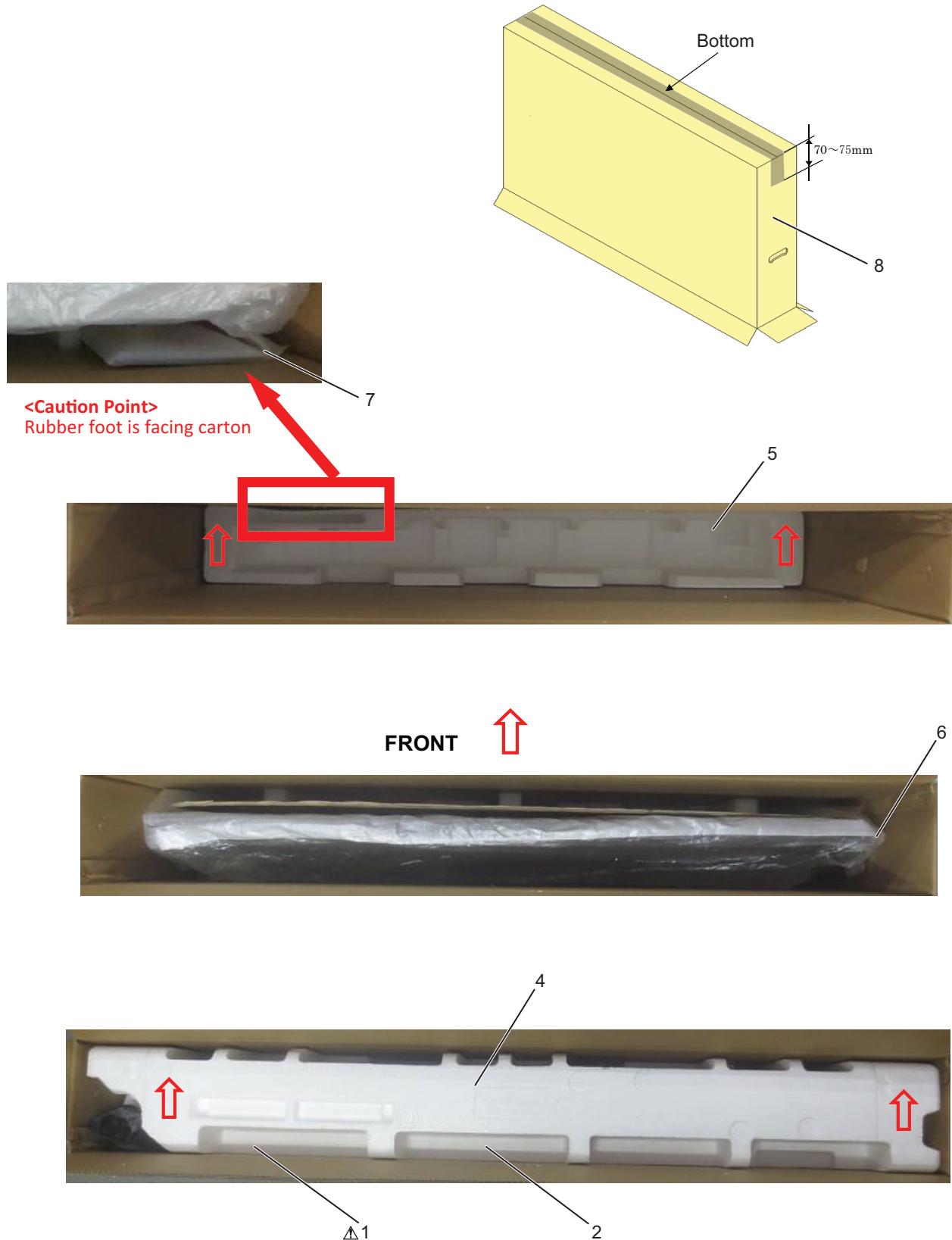




12 Exploded View and Replacement Parts List

12.1. Exploded View and Mechanical Replacement Parts List





12.2. Packing procedure

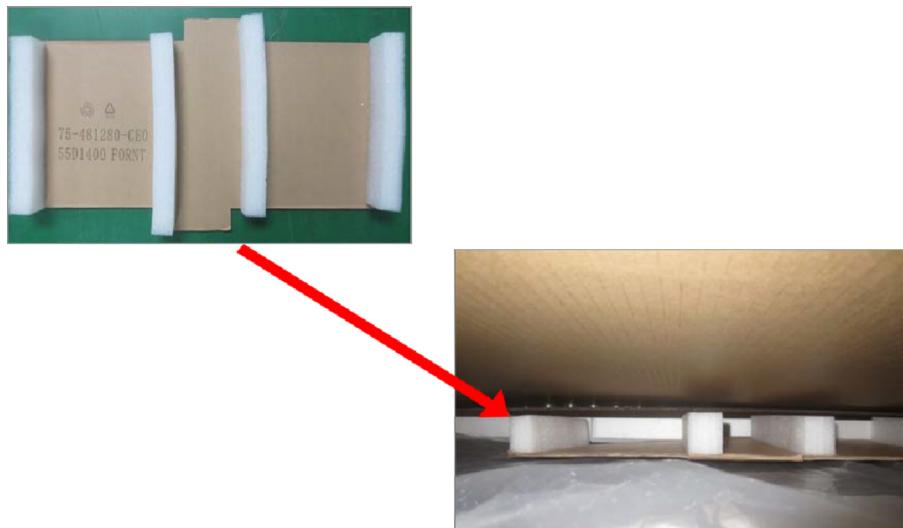
1. Put in the paper tray carefully. Don't damage the bottom styrofoams of the paper tray.



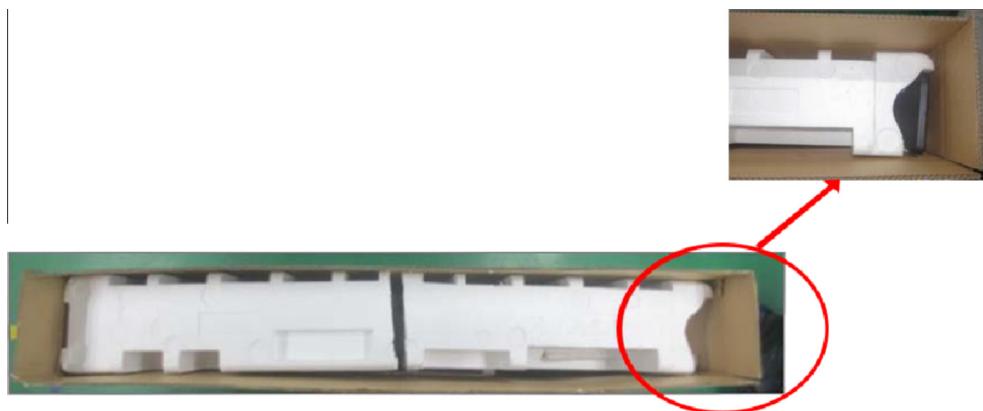
2. Put the base into the styrofoam.



3. Put the EPE into the box, the EPE is toward to box.



4. Put the base neck into the top styrofoams.



12.2.1. Common Part List for all TH-50C300 Series

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	2	N2QAYB000976	REMOTE TRANSMITTER		
	4	TPD4GA07001	TOP CUSHION		
	5	TPD4GA07011	BOTTOM CUSHION		
	6	TPE4GH080	SET COVER		
⚠	9	TZZ00001827A	KEYBOARD (T8-50D14KI-KE1)		
⚠	11	TZZ00001829A	DRIVE BOARD (T8-55E211-DR2)		
⚠	12	TZZ00001830A	IR BOARD (T8-50D14KI-IR3)		
⚠	13	TZZ00001831A	POWER BOARD (81-PBE055-H07)		
	15	TZZ00001836A	SPEAKER (L+R) (42-WDF318-XX3G)		
	16	TZZ00001842A	STAND NECK (56-508400-0HQ6QG)		
	17	TZZ00001843A	STAND (68-525160-200Z4CK)		
	18	TZZ00001844A	BACK COVER (55-522380-0UL6RG)		
	19	TZZ00001845A	SUPPORT OF KEY (56-523100-0HQZ6G)		
	20	TZZ00001846A	BOTTOM OF KEY (56-523090-0HQ6QG)		
	21	TZZ00001847A	AV SUPPORT (67-522730-8G0CK)		
	22	TZZ00001848A	DOWN LABEL OF AV (58-525900-80JZ1)		
	23	TZZ00001849A	RIGHT SIDE LABEL OF AV (58-525890-80JZ1)		
		TZZ00001834A	CABLE MAIN BOARD TO DRIVE BOARD (46-CF040L-13U01G)		
		TZZ00001835A	CABLE MAIN BOARD TO KEY BOARD (46-FM060L-04P01G)		
		TZZ00001837A	CABLE MAIN BOARD TO IR BOARD (46-FM060L-07P01G)		
		TZZ00001838A	CABLE FOR SPEAKER (46-CV015L-02J01G)		
		TZZ00001839A	CABLE FOR LEFT SPEAKER (46-BV040L-02J01G)		
		TZZ00001840A	POWER SUPPLY WIRE (46-LL065L-12X01G)		
		TZZ00001841A	LVDS CABLE (46-60FC35-CFB01G)		

12.2.2. For TH-50C300K Only (Malaysia)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	1	K2CQ2YY00122	AC CORD		
⚠	3	TBM4GD7001	MODEL NAME PLATE		
	7	TQZ4GB971	FAN BAG ASSEMBLY		
	8	TXFPC01WFUK	CARTON ASSEMBLY		
⚠	10	TZZ00001828A	MAIN BOARD (T8-50D14KI-MA2)		
⚠	14	TZZ00001833A	LCD PANEL (T8-50D1400-LPP3)		

12.2.3. For TH-50C300S Only (Singapore)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	1	K2CQ2YY00122	AC CORD		
⚠	3	TBM4GD6792	MODEL NAME PLATE		
	7	TQZ4GB972	FAN BAG ASSEMBLY		
	8	TXFPC01UJUS	CARTON ASSEMBLY		
⚠	10	TZZ00001828A	MAIN BOARD (T8-50D14KI-MA2)		
⚠	14	TZZ00001832A	LCD PANEL (T8-50C300M-LPP1)		

12.2.4. For TH-50C300T Only (Thailand)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	1	K2CP2YY00060	AC CORD		
⚠	3	TBM4GD6793	MODEL NAME PLATE		
	7	TQZ4GB973	FAN BAG ASSEMBLY		
	8	TXFPC01USUT	CARTON ASSEMBLY		
⚠	10	TZZ00001850A	MAIN BOARD (T8-50D14KI-MA5)		
⚠	14	TZZ00001832A	LCD PANEL (T8-50C300M-LPP1)		

12.2.5. For TH-50C300X Only (Singapore Re-Export)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
▲	1	K2CQ2YY00122	AC CORD		
▲	3	TBM4GD6794	MODEL NAME PLATE		
	7	TQZ4GB974	FAN BAG ASSEMBLY		
	8	TXFPC01DRVX	CARTON ASSEMBLY		
▲	10	TZZ00001828A	MAIN BOARD (T8-50D14KI-MA2)		
▲	14	TZZ00001832A	LCD PANEL (T8-50C300M-LPP1)		

12.2.6. For TH-50C300M Only (Middle East)

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
▲	1	K2CT2YY00091	AC CORD		
▲	3	TBM4GD6795	MODEL NAME PLATE		
	7	TQZ4GB977	FAN BAG ASSEMBLY		
	8	TXFPC01UNUM	CARTON ASSEMBLY		
▲	10	TZZ00001828A	MAIN BOARD (T8-50D14KI-MA2)		
▲	14	TZZ00001832A	LCD PANEL (T8-50C300M-LPP1)		