

FUNAI CORPORATION, Inc. 21061 S. Western Ave. Suite 210, Torrance, CA 90501, USA

Service Manual

Model : 40PFL4504/ PHILIPS F8

LCD TV

(LED BACKLIGHT)

Craft by:
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Approver by:

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Attachment 2: Specification

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1. PRECAUTIONS AND SAFETY NOTICES

Know these **safety** symbols



The caution marking is located on the rear or bottom of the cabinet.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS Visit our World Wide Web Site at www.philips.com/support

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old– must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

CTA.tech/safety Consumer Technology Association™

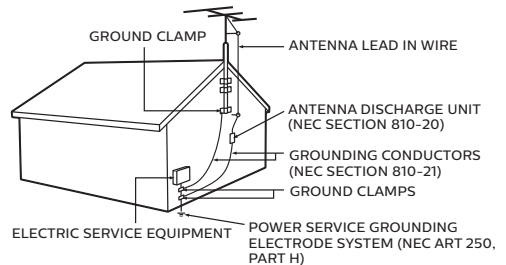
Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to the CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of antenna grounding as per NEC - National Electric Code



Notice

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P&F Mexicana reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

The material in this manual is believed adequate for the intended use of the system. If the product or its individual modules or procedures are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. P&F Mexicana warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

P&F Mexicana cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to P&F Mexicana will be adapted and published on the P&F Mexicana support website as soon as possible.

Pixel characteristics

This LCD product has a high number of color pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

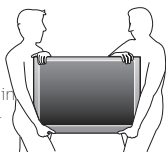
Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by service centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

Any operation expressly prohibited in this manual, any adjustments or assembly procedures not recommended or authorized in this manual shall void the warranty.

Positioning the TV

- Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
- Make sure to hold the upper and bottom frames of the unit firmly as illustrated.
- Install the unit in a horizontal and stable position.
- Do not install the unit in direct sunlight or in a place subject to dust or strong vibration.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- When installing this unit in a temperate environment, avoid a place with rapid temperature changes.
- Operating temperature: 41°F (5°C) to 104°F (40°C)
- This unit should not be used in a tropical environment as it has not been evaluated under such conditions.
- No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.
- Depending on your external devices, noise or disturbance of the picture and / or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Do not insert the AC power cord into the power socket outlet before all the connections are made.
- Ensure that you always have easy access to the AC power cord and outlet to disconnect the TV from the AC outlet.
- Before you move the TV, disconnect attached cables to prevent damage to connectors, especially the TV tuner.
- Be sure to unplug the AC power plug from the AC outlet before



moving or carrying the unit.

- When moving the TV and then setting it down, please be careful not to pinch the AC power cord under the unit.

Regulatory notices

WARNING : To prevent injury, this apparatus must be securely attached to the furniture / wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury / death.

WARNING : Never place a TV in an unstable location. A TV may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the TV.
- Only using furniture that can safely support the TV.
- Ensuring the TV is not overhanging the edge of the supporting furniture.
- Not placing the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Not placing the TV on cloth or other materials that may be located between the TV and supporting furniture.
- Educating the children about the dangers of climbing on furniture to reach the TV or its controls.

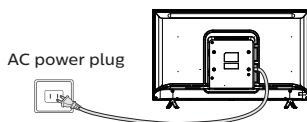
If your existing TV is being retained and relocated, the same considerations as above should be applied.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure that there is enough ventilation space (4inches / 10 cm or more) around this unit.

Press  to turn the unit on and go into standby mode. To completely turn off the unit, you must unplug the AC power plug from the AC power outlet.

Disconnect the AC power plug to shut the unit off when trouble is found or not in use. The AC plug shall remain readily available.



Never use a gas duster on this TV.

The gas trapped inside of this unit may cause ignition and explosion.

Environmental care



The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging.

For product recycling information, please visit -

www.recycle.philips.com

2. Product Specification

Brand	PHILIPS
Sales Company	P&F Mexicana
Market	Mexico
Size	40" FHD
Panel	Direct LED
Factory	Tijuana (TMSA)
H/W	
Digital Board_SoC	Novatek 72563
Digital Board_WiFi	
FRC	No
MEMC	No
Module	
Cell Manufacture/Type	INX / Open cell
IPS / MVA / TN	VA
Panel Source	INX V400HJ6-PE1
Bright Dot/Drak Dot/ Total	
Panel optical spec	
Type	FHD 1920x1080 RGB
Size	40"
Frequency	60Hz
Brightness (panel)	240
Dynamic Backlight Control	Yes
Uniformity	60%(min)
Contrast Ratio (panel)	5000:1 (Typ.)
Dynamic Contrast	Yes
Aspect Ratio	16:9
Viewing Angle H/V	176/176 (Typ.)
Cross BEF/Single BEF	2Diffuser
Response Time (GtG)	8.5ms (Typ.)
Backlight System	LED
Color Processing	16.7M
Color Range	68% NTSC (Typical)
Color Temp	10000K
Product optical spec	
Brightness	220
Perfect Motion Rate (PMR)	No
Color Temp	10000K
Supported Picture Enhancement	
MPEG artifact reduction	
PMR	No
Color Enhancement	No
Light Sensor	No
HDR	No
4K upscaling	No
Advanced Picture Settings	Yes (with Menu)
Backlight Adjustment Bar	Yes (with Menu)
Contrast	Yes (with Menu)
Brightness	Yes (with Menu)
Color	Yes (with Menu)
Tint	Yes (with Menu)
Sharpness	Yes (with Menu)
Dynamic Contrast (video processing)	Yes (with Menu)
Noise Reduction	Yes (with Menu)
Color Temperature	Yes (with Menu)

PC Mode	No
Active Contol	–
Custom Color Management	No
Gamma	Yes (with Menu)
White Balance	Yes (with Menu)
Black Stretch	Yes (with Menu)
Ambilight	–
FilmMode	Yes (with Menu)
Deep Color	No
HDR Remaster	No
Supported Sound Quality	
Sound System	No
Power Output (RMS Watts)	2 x 8.0 W RMS
Surround	No
Number of on board Speakers	x2 (Down)
Equalizer	Yes (with Menu)
Balance	Yes (with Menu)
Digital Audio Language	Yes(with Menu)
Alternate Audio (Primary MTS)	NO
Auto Volume Leveling	Yes (Auto volume control)
TV Speakers	Yes (with Menu)
Delta Volume	No
Digital Output Format (PCM / Dolby)	Yes (with Menu) (PCM / Auto)
MPEG Audio	Yes
Network	
Wi-Fi	Yes (Built-in, IEEE 802.11 b/g/n, 2.4G, 2T2R)
WPS	No
Bluetooth	No
Installation	
PAL / SECAM	NTSC
MPEG2 / H264	Yes / Yes
NTSC / ATSC / Free-QAM	NTSC / ATSC / Free-QAM
Channel Map	Mexico
# of Channels	CH2~CH69 AIR / CH1~CH135 CABLE
UI / RC	
UI	Floating UI
Font	
RC	RC311S
Power on LED	No
Stand by LED	Red
Operation Switch	
Switch Location	bottom middle
Switch Type	Tact Switch
Local Controls	5Key(Power/Menu, CH +/-, Vol +/-)
Senser / LED / IR	LED/IR
Ease Of USE	
Experience Mode	–

HDMI CEC	Yes (HDMI CEC 1.4)
HDMI CEC Support (One Touch Play / System Standby / Routing Control / System Info / Power Status / System Audio Control)	Yes(One Touch Play / System Standby / System Audio Control)
HDMI CEC Support (RC Pass Through)	No
HDMI advanced feature support	HDMI ARC (HDMI-2)
HDMI Wide Color Gamut support	No
TTS (Text to speech)	No
Setting Assistant (Quick picture and sound settings menu)	Yes
Virgin Mode	Language / TV placement / Location / Network / Picture Setting / Sound Setting / Source
MHL	–
Pixel Plus Link	–
Auto Subtitle Shift	–
Audio Only Mode	Yes
EasyLink Autostart	–
On screen Remote Control key	–
ECO Button	–
Auto Format (WSSB / Black Bar Detection)	–
Fav. List/Ch List	Yes
Auto Mode	–
Smart Modes	Picture:Standard/Dynamic/Natural/Movie/Stadium/Personal Sound:Music/Movie/Voice/Standard/Stadium/Personal
Picture Format	16:9/4:3/Cinerama/16:9 Zoom/16:9 Zoom up/14:9 Zoom
Screen Edges	–
Picture Shift	–
PC Input Screen Mode	–
CC	Yes (RF/CVBS)
V-chip (US Movie Rating / US TV Rating / Canadian English Rating / Canadian French Rating / V-chip 2.0(RRT5))	Parental rating(US/Canadian English/Canadian French)
Child lock Pop-up Password Box	Yes
Child Lock with code	Yes
PC Input	–
Content Browser (via USB)	Photo/Video/Music
Video Playback	Yes(H.264,H.265,MPG1/2/4,WMV ,VC1,VP8,VP9)
Jpeg SlideShow	Yes (JPEG/PNG/BMP)
Mp3 Playback	Yes(MP3)
Clock	Yes
Sleep	Yes
Software Upgrade(USB)	Yes
Software Upgrade(OAD)	–

Software Upgrade(Network)	Yes (Automatically)
E-manual	–
Senea	–
JPEG demo	–
Home/Retail Mode	Yes(Home/Shop) Mode
NetTVMenu	2018 new UI
Add Device	No
Voice recognition	No
Connections (External)	
Connections (refer to “Design” tab “Make up sheet”)	
RF	x1 (Side)
Y + Pb + Pr + Audio L/R	x0
Y/VIDEO + Pb + Pr + AudioL/R	x0
Y + Pb + Pr Input Resolution	x0
S-Video	x0
CVBS + AudioL/R for Input	x1 (Side)/RCA
CVBS + AudioL/R for Output	x0
HDMI	x2 (Side)
HDMI Input Resolution	video: 480i/p, 720p, 1080i @60Hz, 1080p
VGA	x0
VGA Input Resolution	–
AudioL/R(Intput) for HDMI	x0
AudioL/R(Intput) for VGA	x0
AudioL/R(Intput) for VGA and HDMI	x0
Analog L/R(Output)	x1(Side)
HeadPhone	x0
USB	x2(Side)
LAN	x1 (Side)
Digital Audio Out	x1 (Side)/Optical
Digital Audio Out Format	Tuner(analog) : LPCM Tuner(digital) : LPCM / AC3 Composite : LPCM HDMI : LPCM / AC3 /MS11 USB music : LPCM USB video : LPCM / AC3
Scart	–
CI Slot	–
Service Port	HDMI
Miscellaneous	
Operating Power Consumption	will provide by PVT stage
Standby Power [Watt]	will provide by PVT stage
Yearly Energy Cost (Yearly Electricity Use)	–
Auto Power Off	Yes (10 min.)
Energy Star	No
Auto Multi-Voltage	120V~ 50/60 Hz
AC Plug	2pin (Type A)
AC Code Connection	Attached
Safety Standard	NOM /RoHS

Ambient Temperature	5 to 40 deg
Kensington Lock	No
Brand Word Mark	PHILIPS
Carton	Color
Carton Language	English, Spanish
POP Label	No
E-POP (refer to "E-POP" tab)	No
RFID Label	No
Print/Material	DFU / Quick Start Guide
Stand Type	No tilt / No swivel
Premount Stand	-
VESA	200x100
Recommended Wall-Mount Kit	
OSD Language	English, Spanish
TV Accessories	
DFU / QSG in the box	English, Spanish
DFU Size / Color / Paper Quality / Way of Binding	A5 / Black and White /80g W/F/Stapling
GSG Size / Color / Paper Quality / Way of Folding	A5 / Full color /80g W/F/ accordion fold
Additional Paper	No
DFU Online	No
Service Manual	No
Energy Consumption Label	-
Cable Management	-
Batteries	Yes
Wireless LAN Dongle	-
Bypack	Yes
Dimension and Weight	
Dimension (inch/mm) with stand(WxHxD)	905.6*567.9*89.8mm
Dimension (inch/mm) w/o stand	will provide by PVT stage
Carton Size (inch/mm) (LxHxW)	1034x633x142
Weight (lbs/kg) with stand	will provide by PVT stage
Weight (lbs/kg) w/o stand	will provide by PVT stage
Gross Weight (lbs/kg)	will provide by PVT stage
Load quantity Palet	
40GP	528
40HC	528
Country of Origin	
Rating Label	MADE IN CHINA
Remote Control	MADE IN CHINA
Carton	MADE IN CHINA
DFU/QSG	MADE IN CHINA
Reliability Test Condition	TCL

3. Disassembly Procedure

3.1 The Exploded View

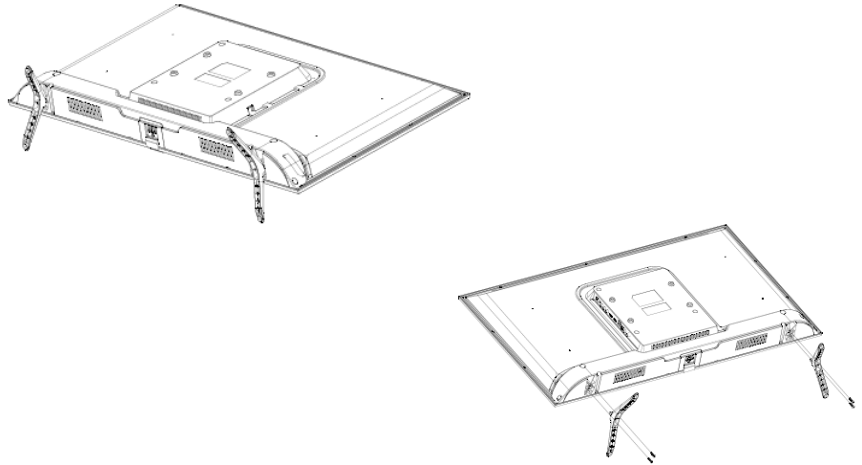
Find in attachments.

3.2 Removal Of Major Parts

1. Remove the stand

Place HDTV face down on a padded or cushioned flat surface to protect the screen.

The stand is very simple, make sure that the screw is tight when put it back. It will cause crash when the screws are too loose.

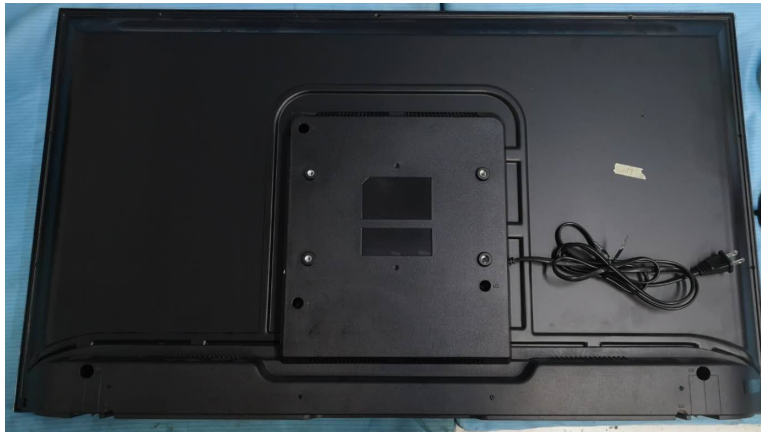


2. Remove the back cover

Be careful that there are 2 kinds of screws

Remove and record the position.

Remove all screws and take round cabinet away.





3.3 Removal Of PCB Module

1. Take off the key board

Disassemble the hooks on the round cabinet; we can take out the key board.



2. Take off the WIFI BD form bottom back cover.



4. ELECTRICAL ADJUSTMENT INSTRUCTIONS

NT72563 Factory Menu Spec

V1.0

Drafted by	Checked by	Approved By
Kim yuan		

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1 Introduction

ITEM	STATE	COMMENT	REMARK
FAC_HOTKEY	On/Off	when set On, we can enter factory menu with pressing 'return' on remote control directly.	Factory out :OFF
WARM-UP	On/Off	Aging mode ON:The flashing character 'P W' and the time of aging display on the below-left of the screen.	Only in TV source will display noise picture when WARM-UP set on Disable on designer mode Factory out :OFF Press "MENU" on the Keyboard can exit Warm_UP mode.
Reset Shop	Do	Factory mode data reset	It will be done before shop initial if need
White Balance		WhiteBalance Adjustment	
Other		Set some TV setup	
NVM reset	Do	Clear NVM values	
Preset Factory Channel		Preset TV Channel	
Power on mode	STB/ON/LAST	Set the TV's state when AC on	
USB Clone&&Udate		Update by USB	
DiveceID test	Do	Test the divece ID	

2 Open the Factory Menu method

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

- Press RCU "MENU" key to display main menu
- Select "Setting" and press "OK" key to enter into setting submenu
- 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"

2.2 In case of “Factory Key” is enabled, just press RCU “Return” key to pop-up again the Factory menu.

3 White balance

Item	Sub-item	Value	Note
White Balance	Source	HDMI/TV/AV	
	Color temperature	Standard Warm Cool	Select Tone by pressing”< >”key
	R Gain	0~255	Set R Gain by pressing”< >”key
	G Gain	0~255	Set G Gain by pressing”< >”key
	B Gain	0~255	Set B Gain by pressing”< >”key
	R Offset	0~255	Set R Offset by pressing”< >”key
	G Offset	0~255	Set G Offset by pressing”< >”key
	B Offset	0~255	Set B Offset by pressing”< >”key
	White Balance Init	Do	Press “>” key to initialize RGB Gain/Offset values
	Picture Related		Press “>” key to activate submenu

Item	Sub-item	Value	Note
Picture Related	Dynamic Contrast	On/Off	Press “< >” key to enable/disable
	Light Sensor		Press “>” key to activate submenu
	Back light	0~100	Set Backlight by pressing”< >”key
	Dynamic Backlight control	0/1/2/3	Select by pressing”< >”key
	Energy Save	High/Low/Off	Press “< >” key to enable/disable
	APL1	0~255	Set APL1 point value by pressing”< >”key
	APL1_BL	0~100	Set APL1 Backlight value by pressing”< >”key
	APL2	0~255	Set APL2 point value by pressing”< >”key
	BP	0~100	Set B point value by pressing”< >”key
	K	0~100	Set K value by pressing”< >”key

	Print_Enable	On/Off	Press “< >” key to enable/disable
	DBC_Enable	On/Off	Press “< >” key to enable/disable

4 Other submenu

Item	Sub-item	Value	Note
Watch Dog	Watch Dog	On/Off	Press “< >” key to enable/disable
Update CI+ Credential	Update CI+ Credential		Press “ok/>” key to activate CI+ key
Project ID	Project ID	***	Set Project ID by pressing”< >”key
	Name	***	info
	Panel	***	info
	RCU	***	info
	Region	***	info
	PSU	***	info
	Running Time	***	info
Grey Ctl	Grey Ctl	***	Select Grey ctrl ON or OFF by pressing”< >”key to control picture menu Grey or not
Update CI+ Credential	Update CI+ Credential	Do	Press “ok/ >” key to remove CI+ key
	Update From USB	Do	Press “ok/ >” key to copy CI+ key from USB
	Erase CI+ Credential	Do	Press “ok/ >” key to remove CI+ key
IPTV	Update MAC address		Press “ok/ >” key to activate submenu
	Client type	***	info
Motion clarity	Motion clarity	On/Off	Motion clarity switch
NETFLX ESN	ESN number	***	info
CI+ Key	CI+ key status info.	***	info
Reset ALL		Do	Press “>” key to reset all data

5 NVM Reset submenu

Item	Sub-item	Value	Note
Reset ALL		Do	Press “ok/ >” key to default NVM according to selected Project ID(all adjustments are defaulted, channel Maps are cleared, Hotkey is enable,...)

6 Preset Factory Channel submenu

Item	Sub-item	Value	Note
Preset Factory Channel		***	Preset TV Channel

7 Power on Mode submenu

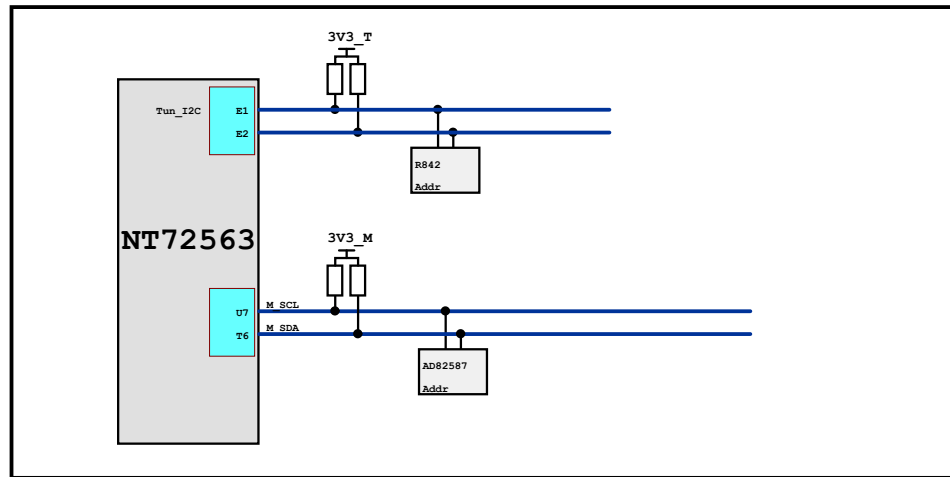
Item	Sub-item	Value	Note
Power on Mode		ON STB LAST	Select starting sequence by pressing“< >”key -ON: Force TV to start -STB: Force TV to standby -LAST: Force TV to standby or to start depending on latest operation

8 USB Clone&&Update submenu

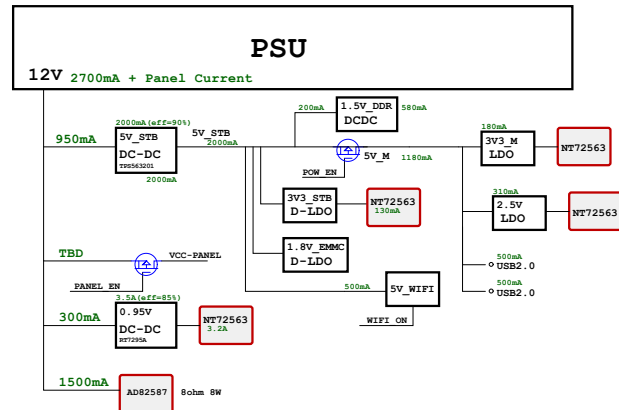
Item	Sub-item	Value	Note
USB Clone&&Update	Main Upgrade		Press “ok” key to update main software
	FRC Upgrade		Press “ok” key to update FRC software
	FRC Backup		Press “ok” key to copy FRC software to USB
	USB TO TV	ALL UserData CH list	Press “ok” key to copy USB template context to TV depending on Cloning mode
	TV TO USB	ALL UserData CH list	Press “ok” key to copy TV template context to USB depending on Cloning mode
	ESN Key Upgrade		Press “ok” key to upgrade ESN key

	HDCP2.0 Upgrade		Press “ok” key to upgrade HDCP2.0 key
	HDCP Upgrade		Press “ok” key to upgrade HDCP key
	WideVine Upgrade		Press “ok” key to upgrade WideVine
	Device id Upgrade		Press “ok” key to upgrade Device ID

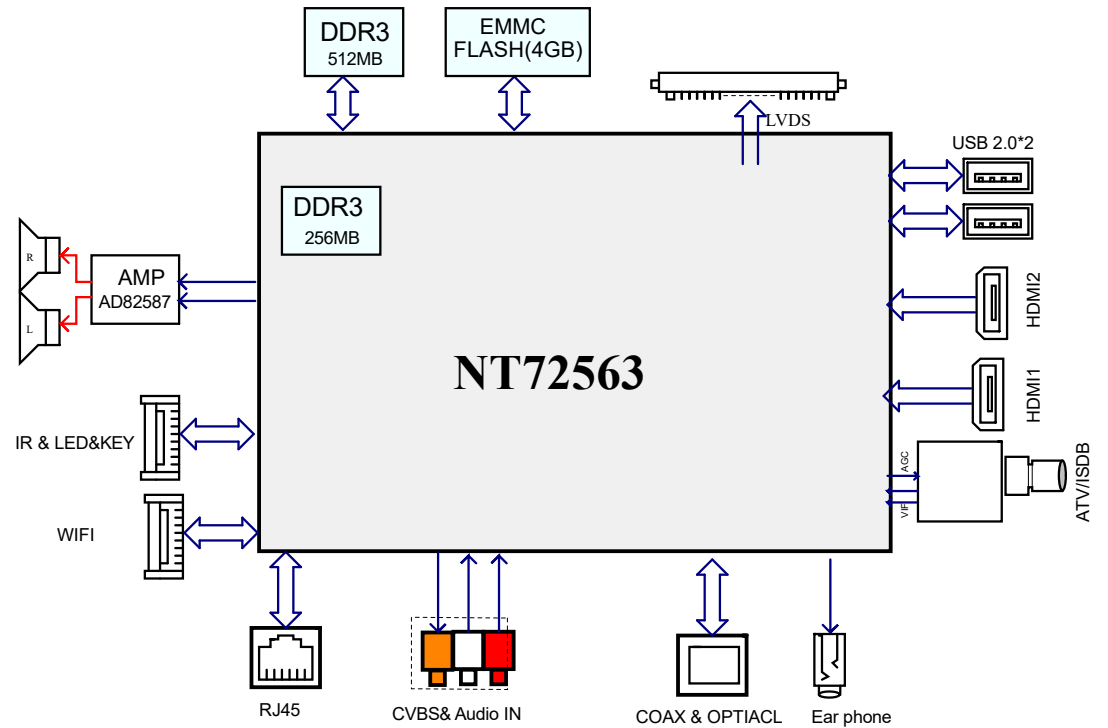
5. BLOCK DIAGRAM & SCHEMATIC DIAGRAM



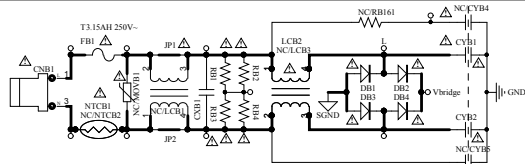
Main Board Power Tree



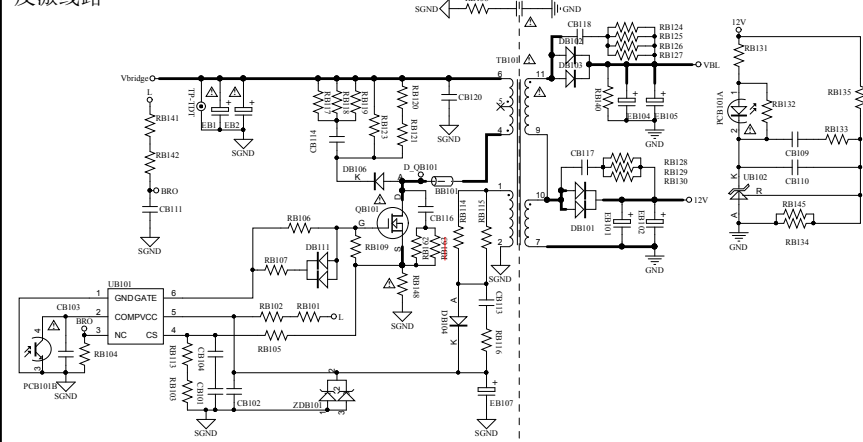
SYSTEM FUNCTION BLOCK DIAGRAM



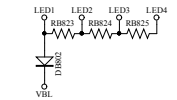
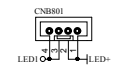
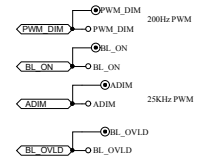
EMI电路



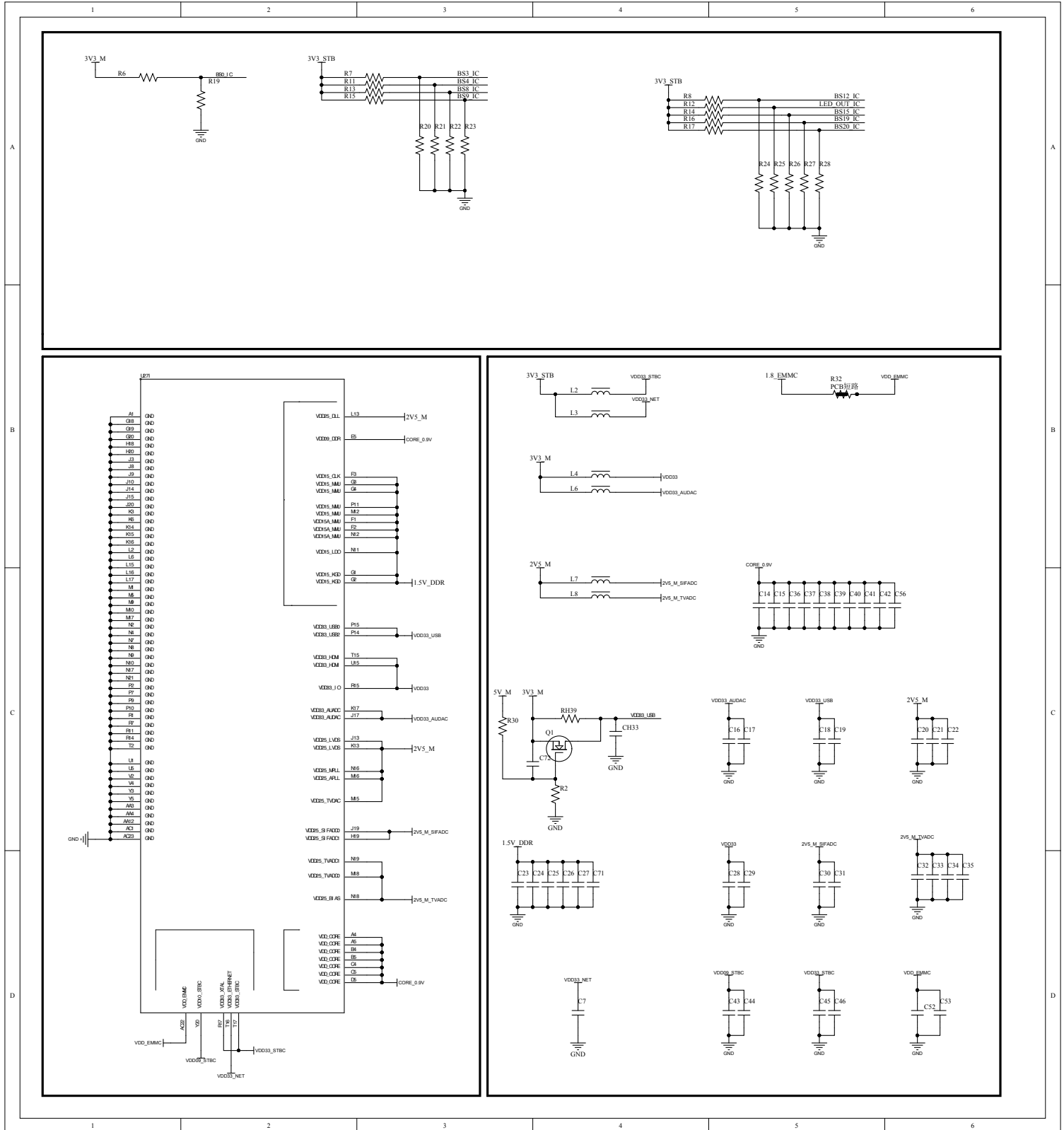
反激线路

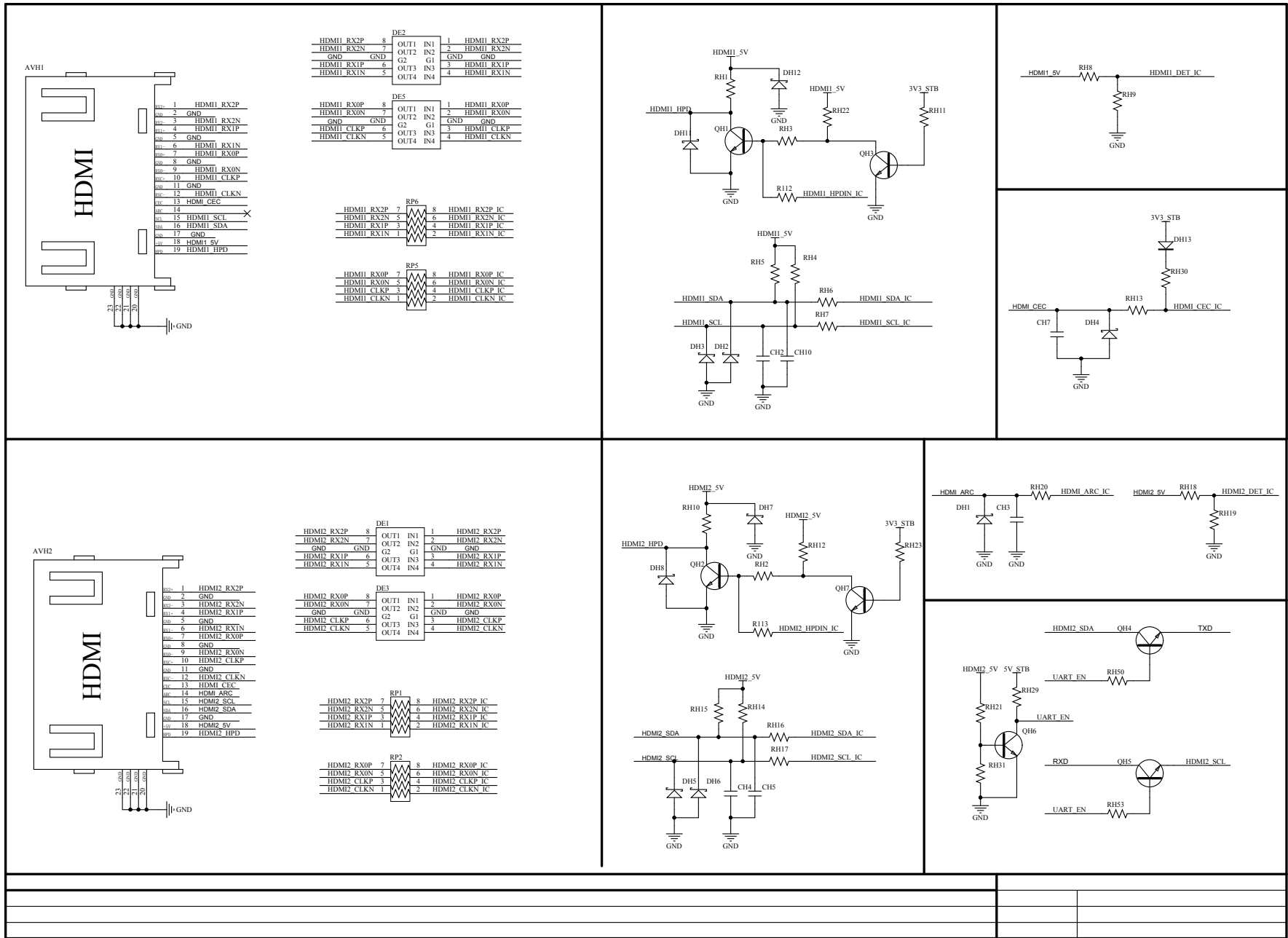


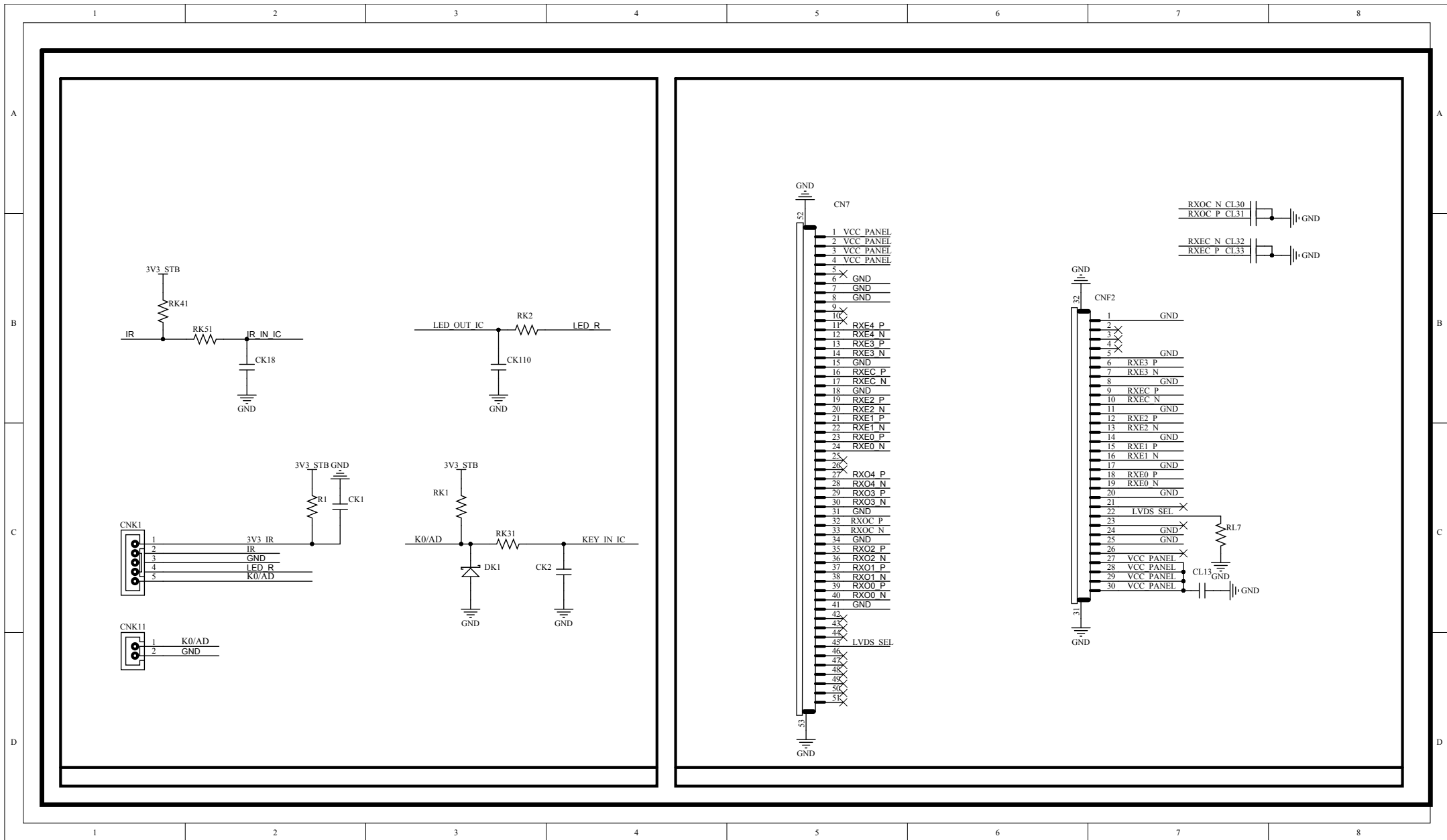
与TV端连接网络

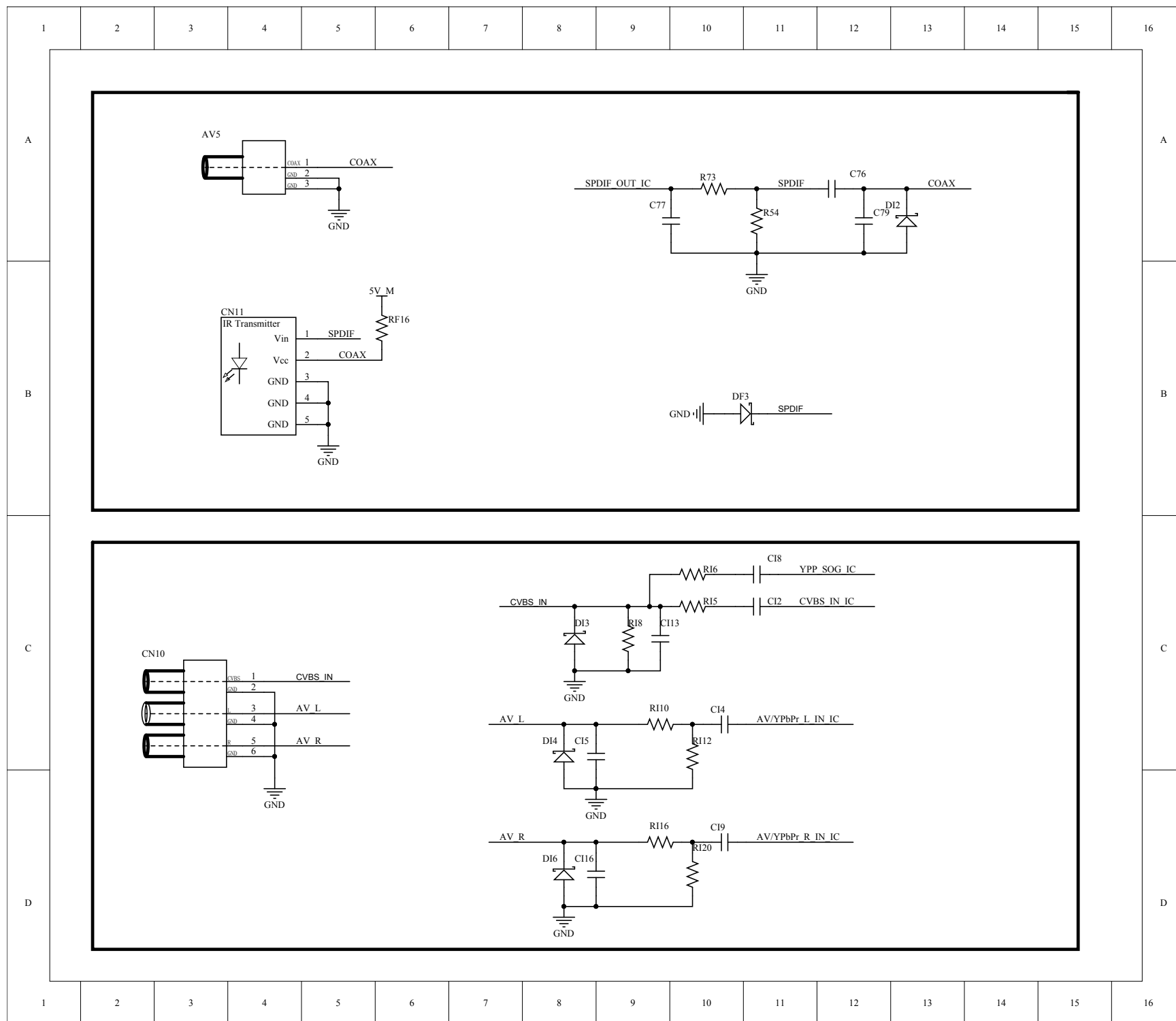


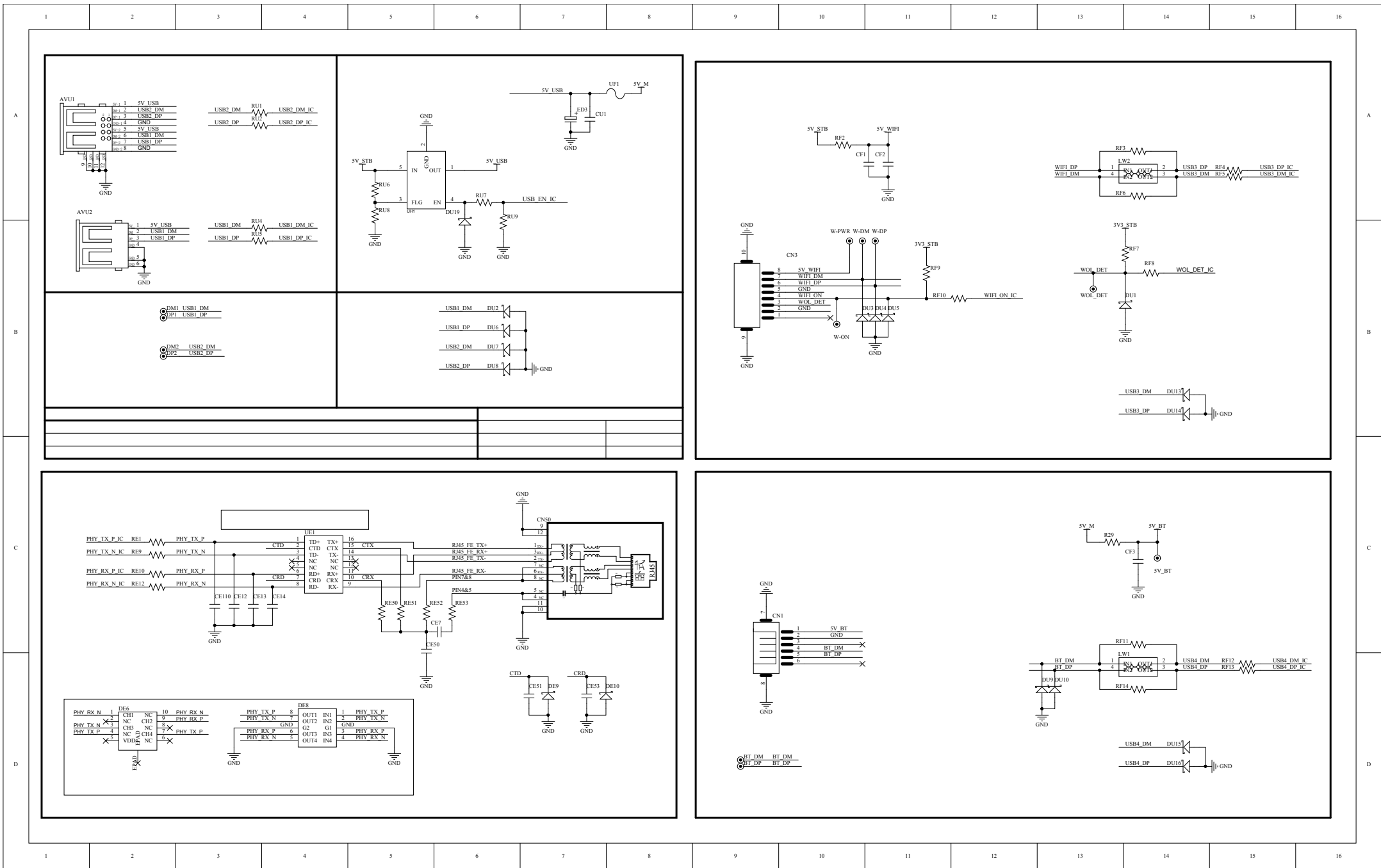
M	N-	TP XXX.PXX AXXX	VERSION	V1.0
DRAWN	xxx	DATE	2015-0X-XX	
CHKD	xxx	DATE	2015-0X-XX	

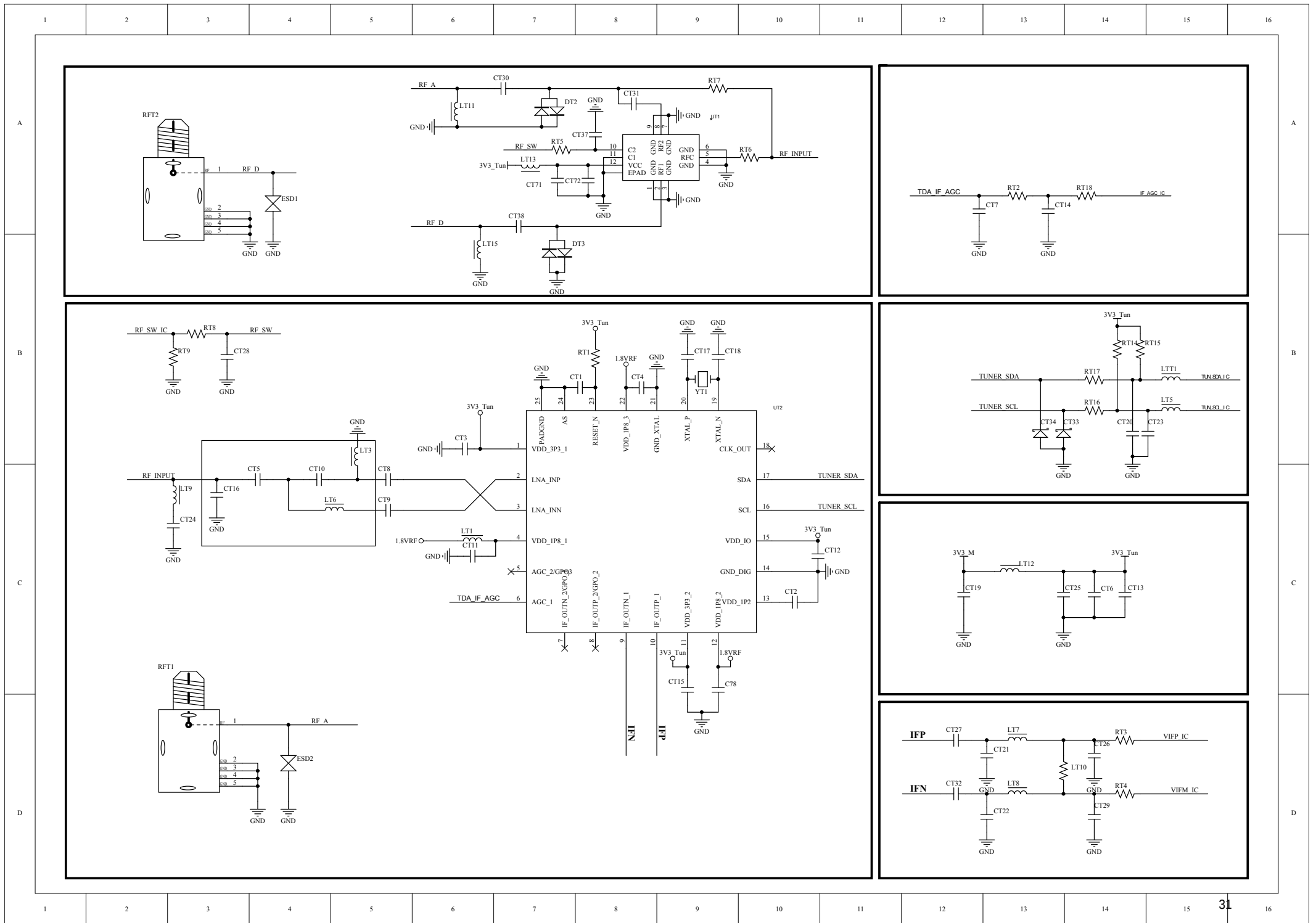


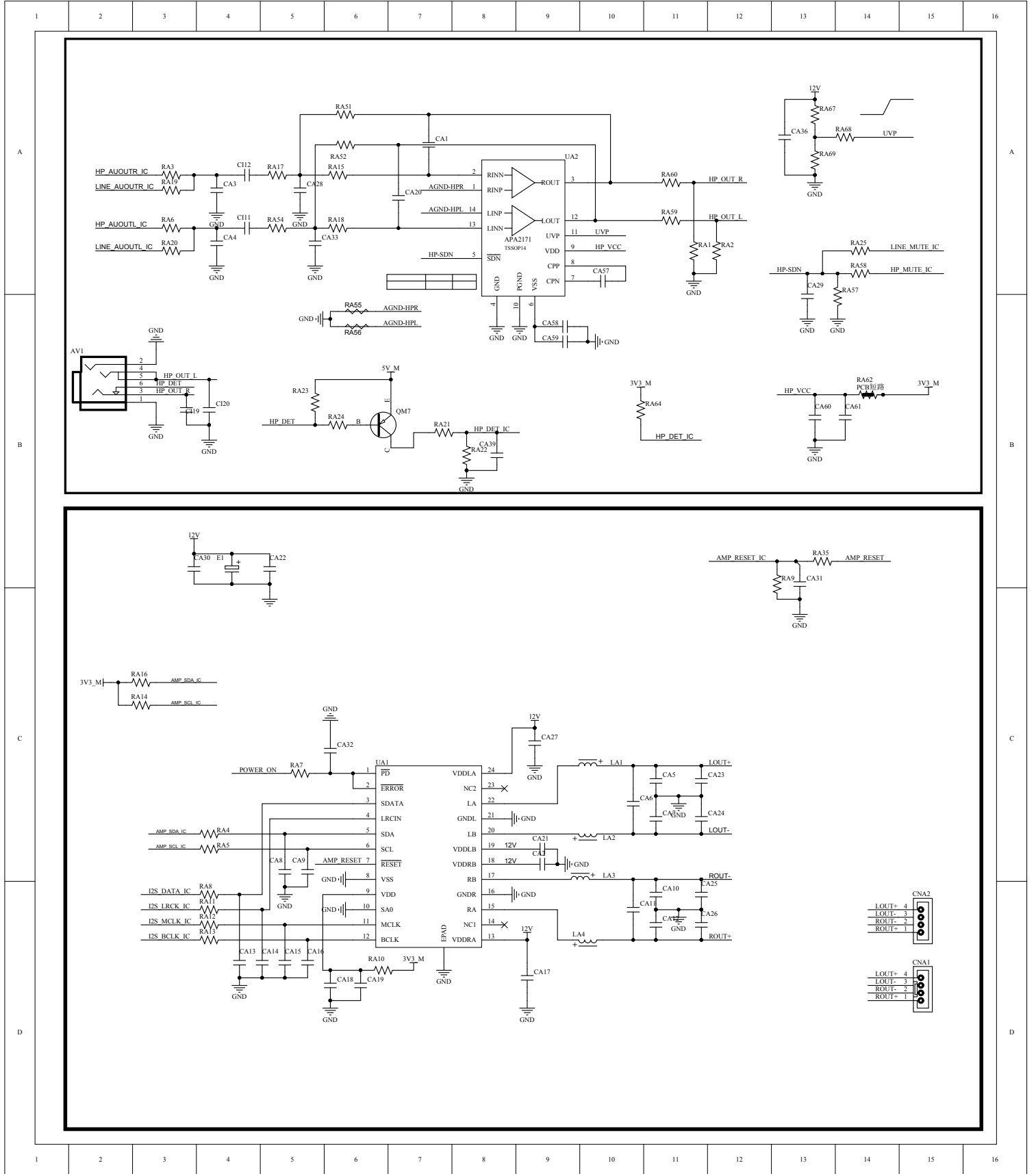












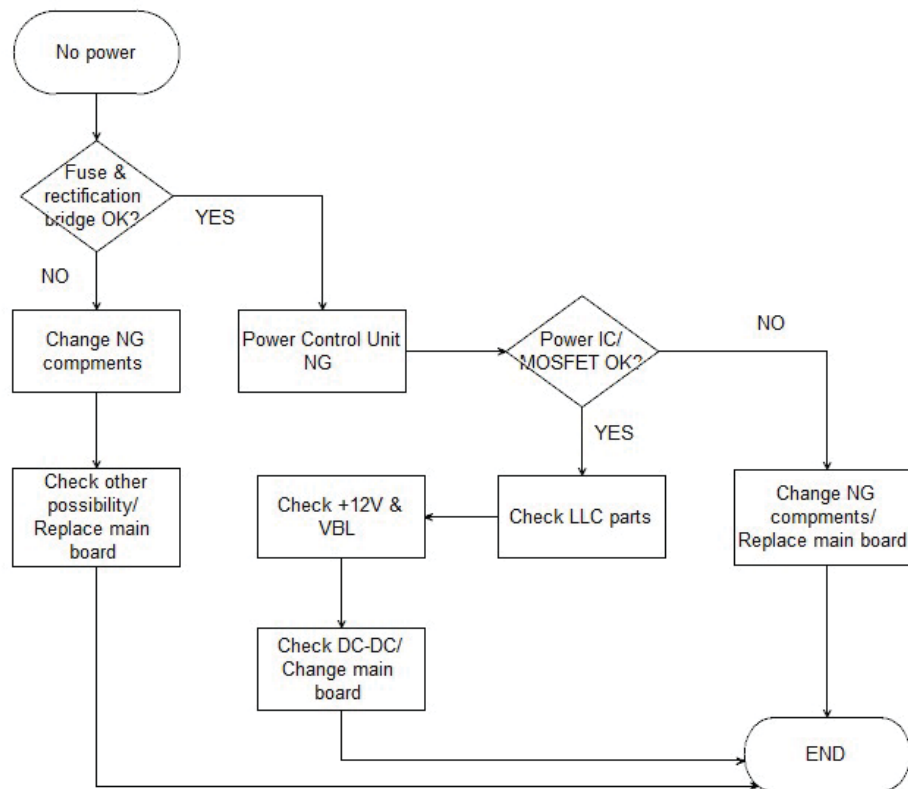
6. TROUBLESHOOTING FLOW CHART

Terms:

- ✓ **IR:** Infrared Receiver
- ✓ **RC:** Remote Control
- ✓ **IR logic:** IR blink with RC action
- ✓ **LVDS:** Low Voltage Differential Signal, output from processor and input for panel
- ✓ **O/C:** Open Cell, panel with source board
- ✓ **BL:** Back Light, light source for panel module
- ✓ **LB:** LED (Light Emitting Diode) Bar, light source for BL module
- ✓ **VBL:** Voltage for Back Light (before Boost)
- ✓ **VLED:** Voltage for LED (after Boost)
- ✓ **OVP:** Over Voltage Protection
- ✓ **OSD:** On Screen Display
- ✓ **AMP:** Amplifier

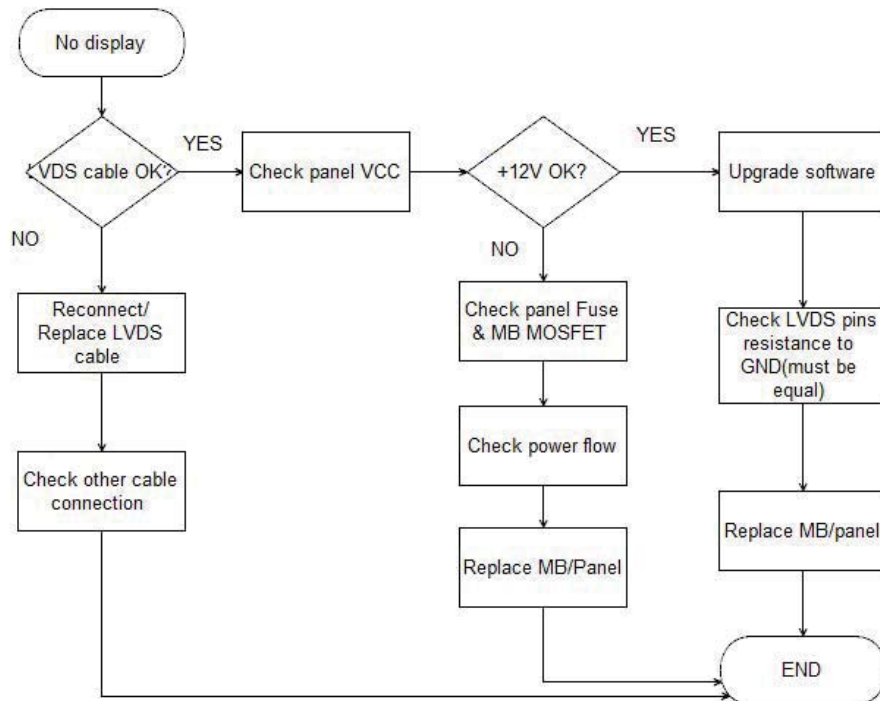
1.No power

No power LED, RC or Key can not turn on TV. Power LED no light/no change.



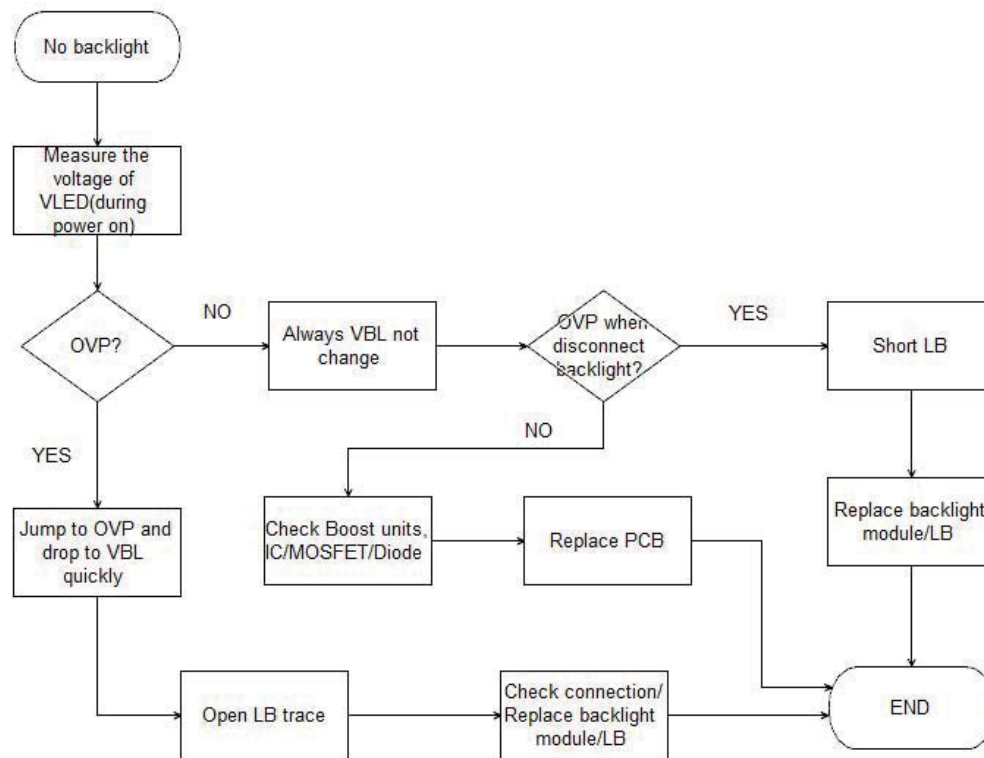
2. No Display/Black Panel

Back light is OK, sound is OK, but no picture.



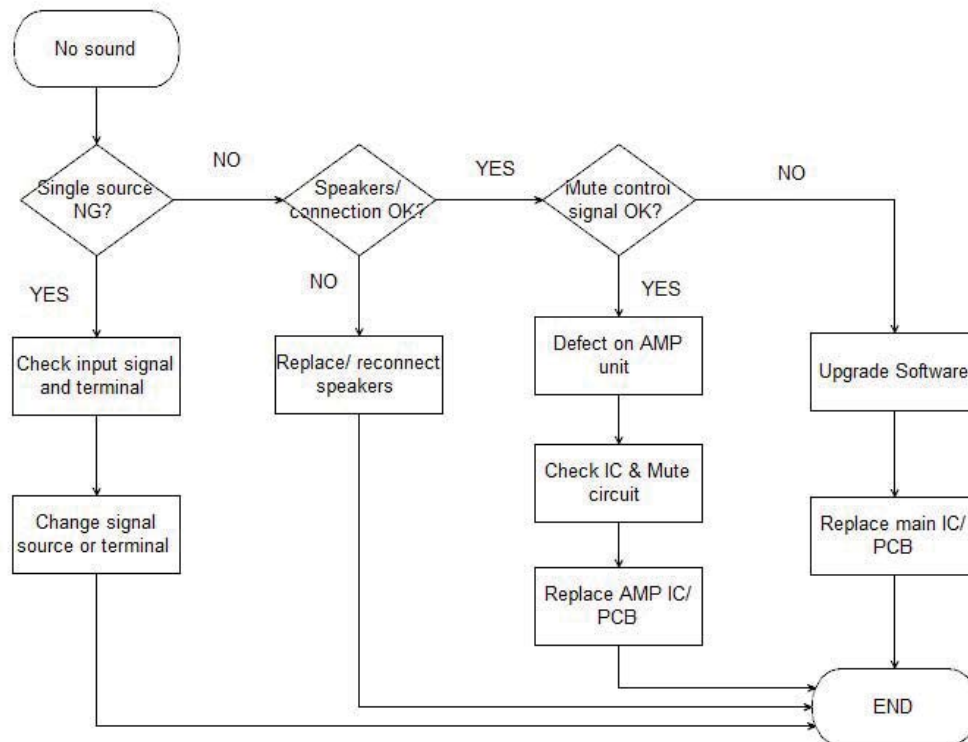
3.No back light

Power LED logic OK, sound OK, but no picture.(Different from No Display).



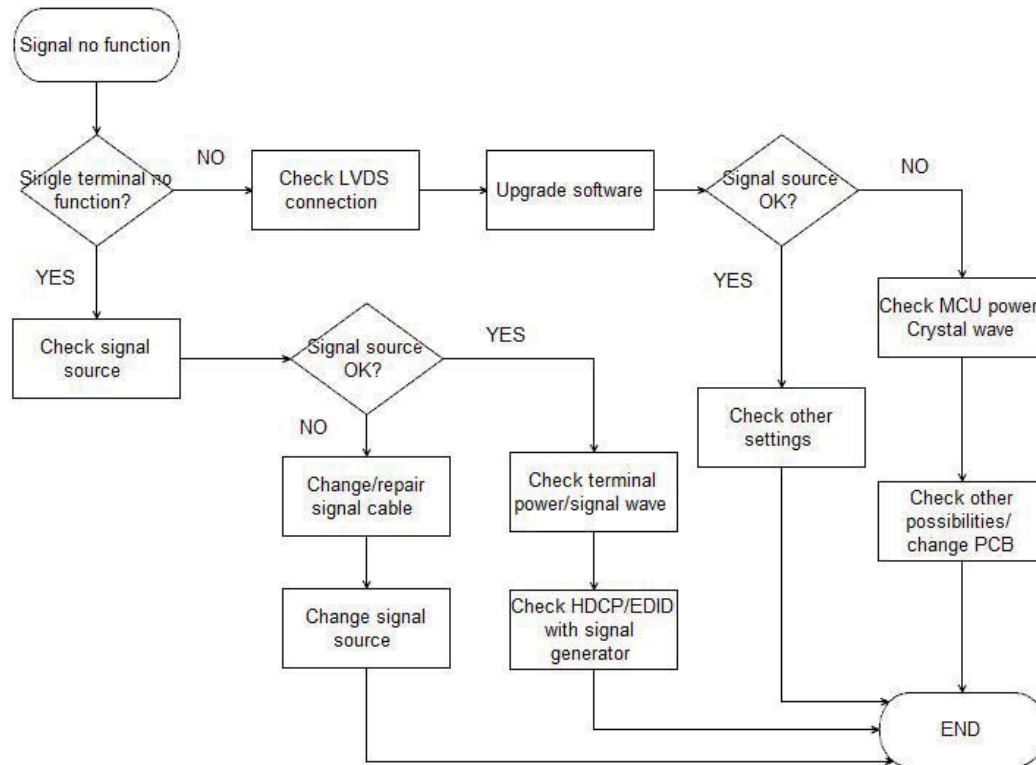
4. No sound

One or all signal source without sound .



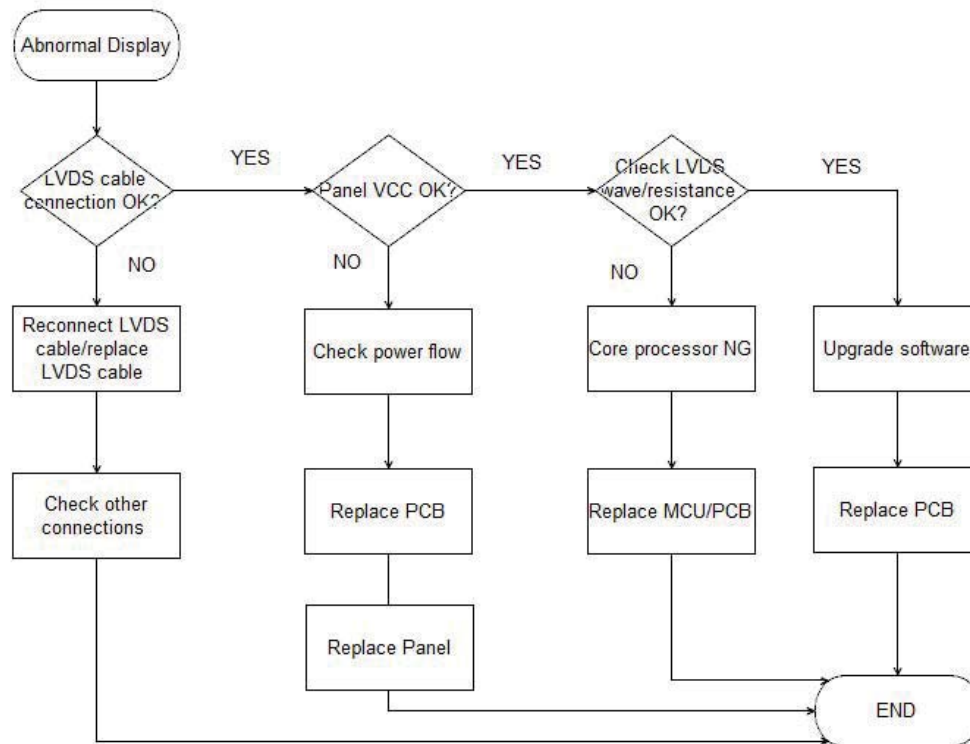
5.Signal source no function

One or several source no function.



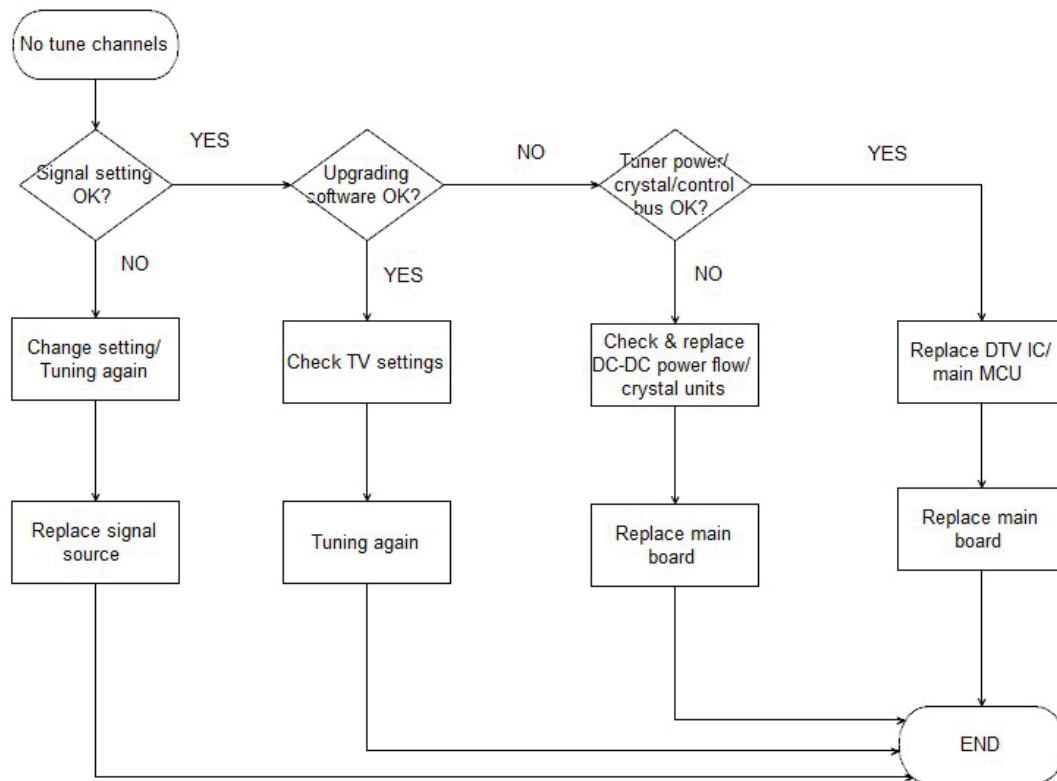
6.Abnormal Display

OSD NG or picture NG.



7.No tuning channels

DTV or ATV no Channels



7. Software Update

NT72563 update SW SOP

Forcible update

1. Copy the MAIN SW BIN image "update.zip" into USB stick (pen drive) root path
2. Plug USB stick to the TV
3. Switch OFF TV by AC
4. Switch ON TV by AC, at the same time press "Power" for 10s, TV will update SW automatically.
5. When updating is successful, TV should restart automatically after ~7min
6. Switch off TV by removing AC cord
7. Reconnect AC cord to restart TV

Note: Some USB disk can not detective, try the other one

OSD update

1. Switch on TV.
2. Copy the SW BIN image "update.zip" into USB stick (pen drive) root path
3. Change file name from update.zip to V8-NT563xx-LF1Vxxx.bin (the same as software version)
4. Plug USB stick to the TV
5. Menu -->Support --> Software update -->By USB. TV will find Vxxx and please do "update"
6. TV will update SW automatically, and show some notes on TV.
7. When reflashing is successful, TV should restart automatically after ~7min
8. Switch off TV by removing AC cord
9. Reconnect AC cord to restart TV

Note: Some USB disk can not detective, try the other one

