

15" LCD COLOR TV Service Manual



MODEL NO.:

L15262E2800/TL15H511B

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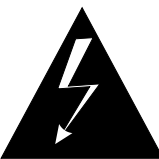
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Safety Notice

Warning

Be sure to read this manual before servicing .To assure safety from fire ,electric shock ,injury ,harmful radiation and materials, various measures are provided in this liquid crystal television/monitor. Be sure to read the cautionary items described in the manual to maintain safety before servicing.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN 	TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
 This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.	 This symbol indicates important instructions accompanying the product.

Service Warning

- The LCD Panel Module is made of glass. When handling broken LCD Panel Module ,take special care not to be injured.
- Replacement work should only start after the LCD Panel Module and the AC/DC Power Supply has become sufficiently cool.
- Take special care of the LCD display panel and do not damage its surface.
- Do not touch the LCD Panel Module with your bare hands and protect its surface from stains.
- It is recommended to use clean soft gloves during servicing in order to protect the LCD display panel and the

Supported Operating Modes

RGB INPUT

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
VGA	640X480	31.5	60.0
SVGA	800X600	37.9	60.0
XGA	1024X768	48.4	60.0
WXGA	1280X768	47.8	60.0
WXGA	1280X1024	63.5	60.0

HDMI INPUT

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
VGA	640X480	31.47	59.94
576p	720X576	31.25	50.00
1080i/50	1920X1080	28.13	50.00
1080i/60	1920X1080	33.75	60.00
720p/50	1280X720	37.50	50.00
720p/60	1280X720	45.00	60.00

- It is possible that modes which are not listed in the above table above may not be supported.
For an optimal picture, it is recommended to choose a mode listed in the table.
- The incoming display modes that are compatible with WINDOWS are shown in the table above.
- Sometimes, the image may be disrupted due to the frequency standard from the VGA card.
However, this is not an error. You may improve this situation by activating the automatic adjustment or by manually changing the phase and the clock settings in the menu.
- To extend the service life of the product, we recommend that you use your computer's power management function.

Specifications

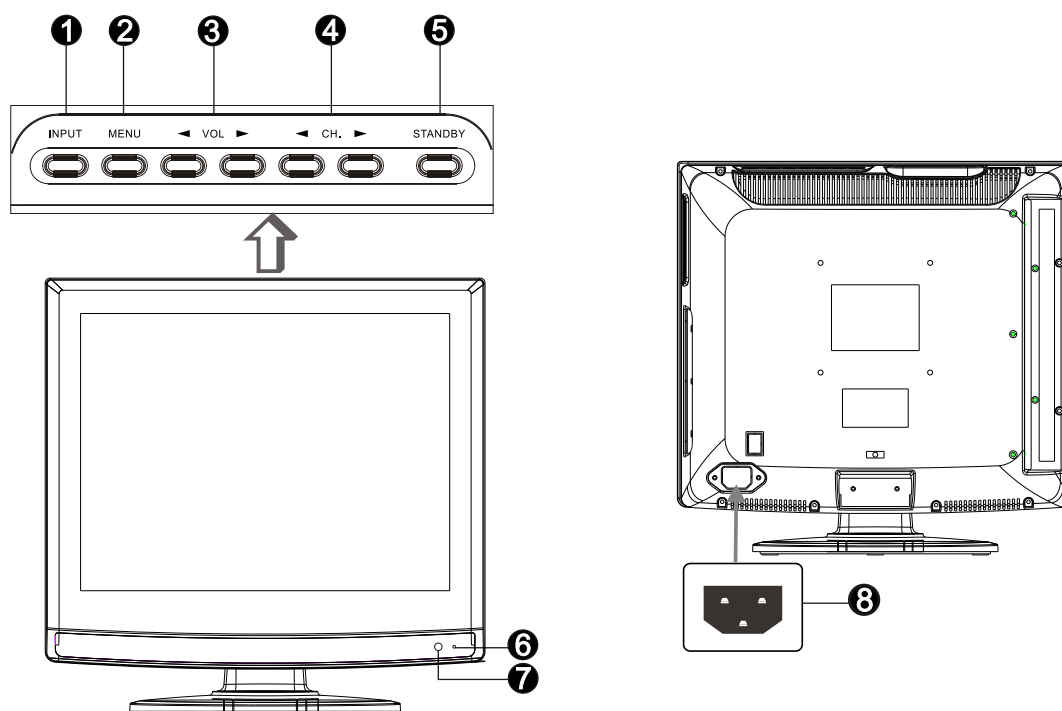
LCD Panel	
Size	15" Diagonal
Input Source	
Sync.	H/V separate, TTL, P. or N.
Video Signal	1Vp-p @ 75 ohm
RGB Signal	0.7 Vp-p @ 75 ohm
TV	
Color System	PAL/SECAM
Sound System	BG, DK, I
Video	
Color System	PAL/SECAM/NTSC
Video Format	CVBS, S-VHS, RGB
Power Supply	
Input	AC 100~240V, 50/60Hz
Power Consumption	
Working	45W
Standby	< 3W
Environmental Considerations	
Operating Temperature	10°C ~ 40 °C(50°F ~ 104°F)
Operating Humidity	10% ~ 80%
Audio Characteristics	
Audio Input	RCA Jack (L, R), 0.5Vrms (-9dB)
Audio Input (PC)	Ø3.5 Stereo Jack, 0.5Vrms (-9dB)
Frequency Response	RF: 100Hz~10KHz (at ± 3dB) A/V: 100Hz~12KHz (at ± 3dB)
Dimension (WXD_XH)mm	
Without Stand	364X72X323
With Stand	364X172X361
Weight (Kg)	
Net Weight	2.9
Gross Weight	3.3

Note:

- Design and specifications are subject to change without notice.
- Weight and dimensions shown are approximate values only.

Location and Function of Controls

FRONT PANEL



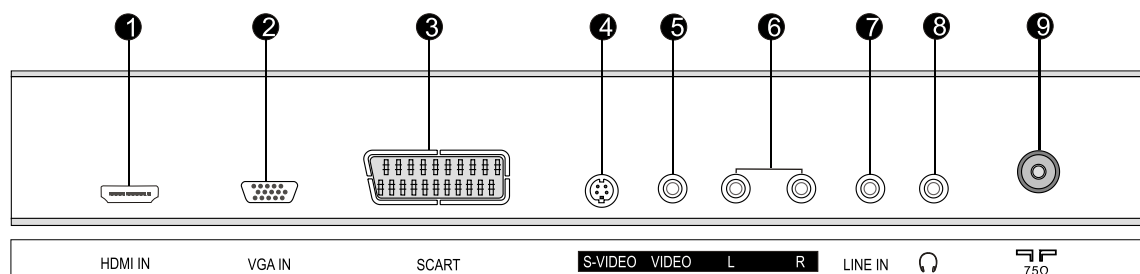
Item	Button Name	Description
①	INPUT	Select the input signal.
②	MENU	Enter or exit from the menu.
③	VOL ◀▶	Increase or decrease the volume. Adjust the values of the selected menu item in the OSD menu.
④	CH. ◀▶	When you are watching the TV program, press these buttons to select channel in ascending or descending order. Select the upper or lower menu item in the OSD menu.
⑤	STANDBY	Switch on the LCD TV when at standby mode or vice versa.
⑥	Power Indicator	Illuminates red in standby mode. Illuminates green when the LCD TV is switched on.
⑦	Remote Sensor	Infrared sensor for the remote control.
⑧	AC Input Socket	Connect the power cable.

Note:

If there is no signal input from VGA/HDMI for 1 minute, or no signal input from other video source for over 15 minutes, the LCD TV will switch to standby automatically. The power indicator will light up in red.

CONTROL BUTTONS AND TERMINALS

REAR PANEL



- ❶ HDMI Input Connector: Connect it to the HDMI of DVD or other equipment.
- ❷ VGA Input Terminal: For PC display. Connect it to the D-Sub 15 pins analog output connector of the PC.
- ❸ SCART Connector: Connect them to the composite terminal of DVD.
- ❹ S-VIDEO Terminal: Connect it to S-Video output terminal of DVD.
- ❺ VIDEO Terminal: Connect it to Video output terminal of DVD.
- ❻ AV Audio In Terminals: Connect them to the audio output terminal of DVD with AV/S-VIDEO mode.
- ❼ LINE IN (VGA Audio) Terminal: Connect it to the audio output terminal of PC.
- ❽ Headphone jack: Connect to your headphone.
- ❾ RF Input Socket: Connect antenna or cable 75 Ohm coaxial to receive TV signal.

Disassembly the Framework(1)

Please follow the following steps to disassemble the unit :

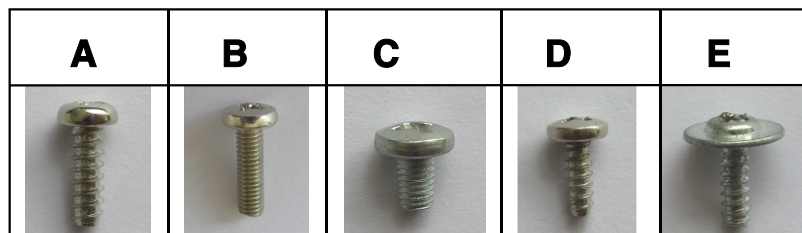
Warning:

All material parts and screws must be installed on its corresponding position correctly ,otherwise it may cause damage.

All the connection cable must be disconnected otherwise it may cause damage.

Warning :

Disassemble the unit only should be handled by qualified service personnel !
Assembly and disassembly must be noted to protect cabinet to avoid scratch and damage.



1、 TL15H511B

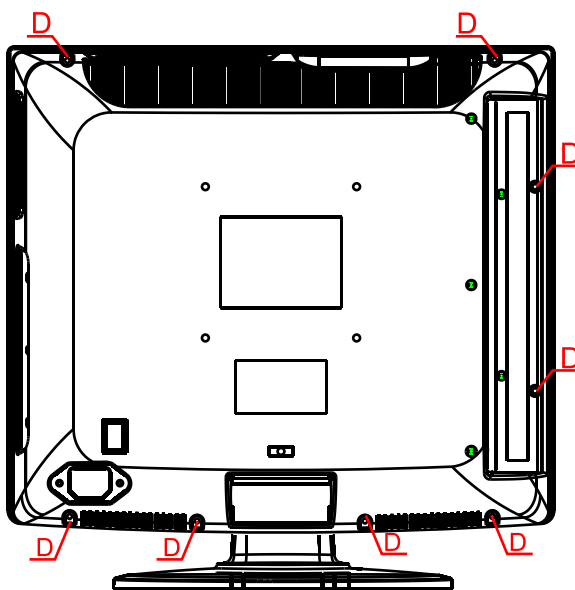
Disassemble the Cabinet Front and LCD Panel:

1.1、 Unfasten the 8 screws D (BST3×10) ,uninstalling the Cabinet Front(Picture01)

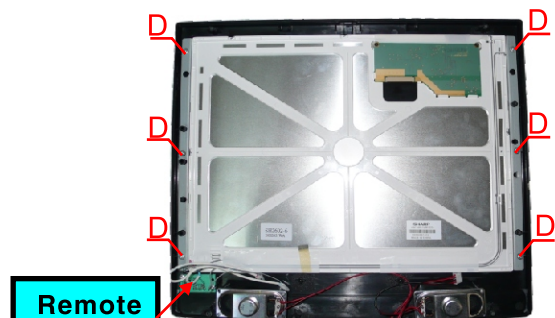
1.2、 Unfasten the 6 screws D (BST3×10)of the fixed slat and Panel (Picture02),
Remove the LCD Panel,uninstalling theconnection cable with PCB(Picture03).

Warning :

When remove the stand bracket, please be careful of the LCD panel should not be contacted any edge and firm or corrosive object, they may case scratch and damage.



01

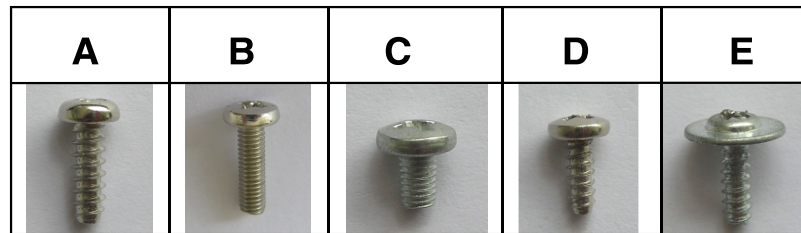


02



03

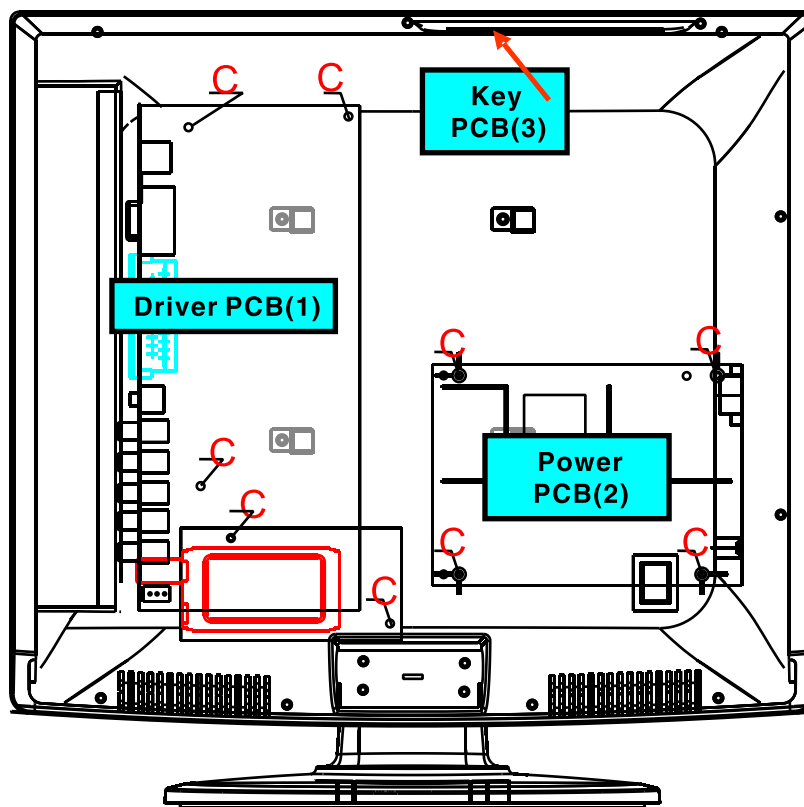
Disassembly the Framework(2)



2、TL15H511B

Disassemble PCB assembly and rear cabinet:

- 2.1、Uninstall the Connection cable with Drive PCB1、 Power PCB2、 Key PCB3;
- 2.2、Unfasten 2 Screws of C (BM3×6),and take out the Tuner;
- 2.3、Unfasten 3 Screws ofC (BM3×6),and take out the Drive PCB1;
- 2.4、Unfasten 4 screws of C (BM3×6),and take out the Power PCB2;

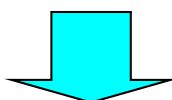
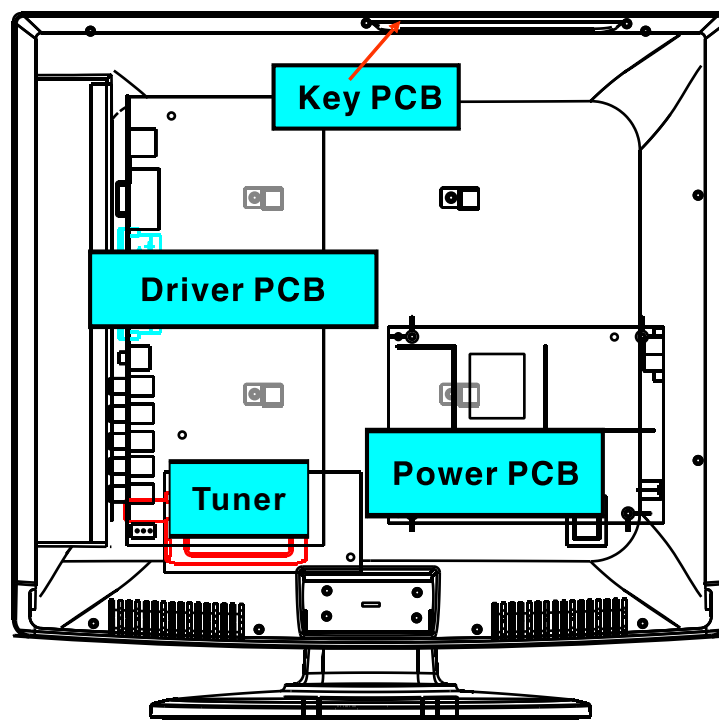


Warning : When Disassemble the Drive PCB and Power PCB , please be careful of avoiding the connector pins to be flexed.

Illustration of actual object(1)

TL15H511B

Inner frame drawing:



TL15H511B

Inner view:

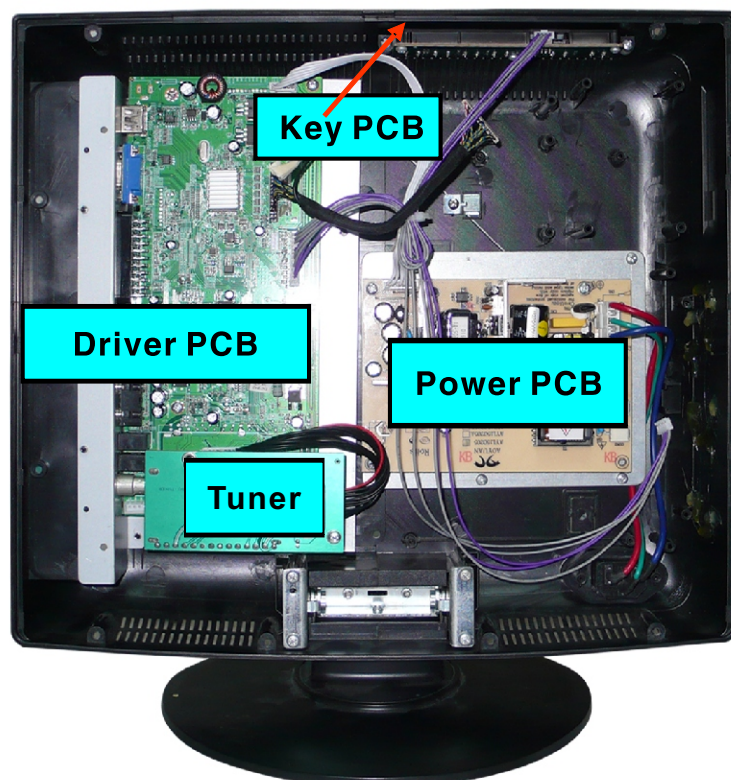


Illustration of actual object(2)

PCB name : Drive PCB (obverse)

Drive PCB Model No.:RC719DU-F2 +Tuner Board

Function : HDMI, VGA, YUV/SCART, S-VIDEO, AV, TV.

Signal decode processed:

- 1、TV、AV、SCART、VGA、HDMI、S-VIDEO→ IC U12(decode CPU)
→ Display
- 2、AUDIO→ IC U12(decode CPU)→ U18→ SPEAKER

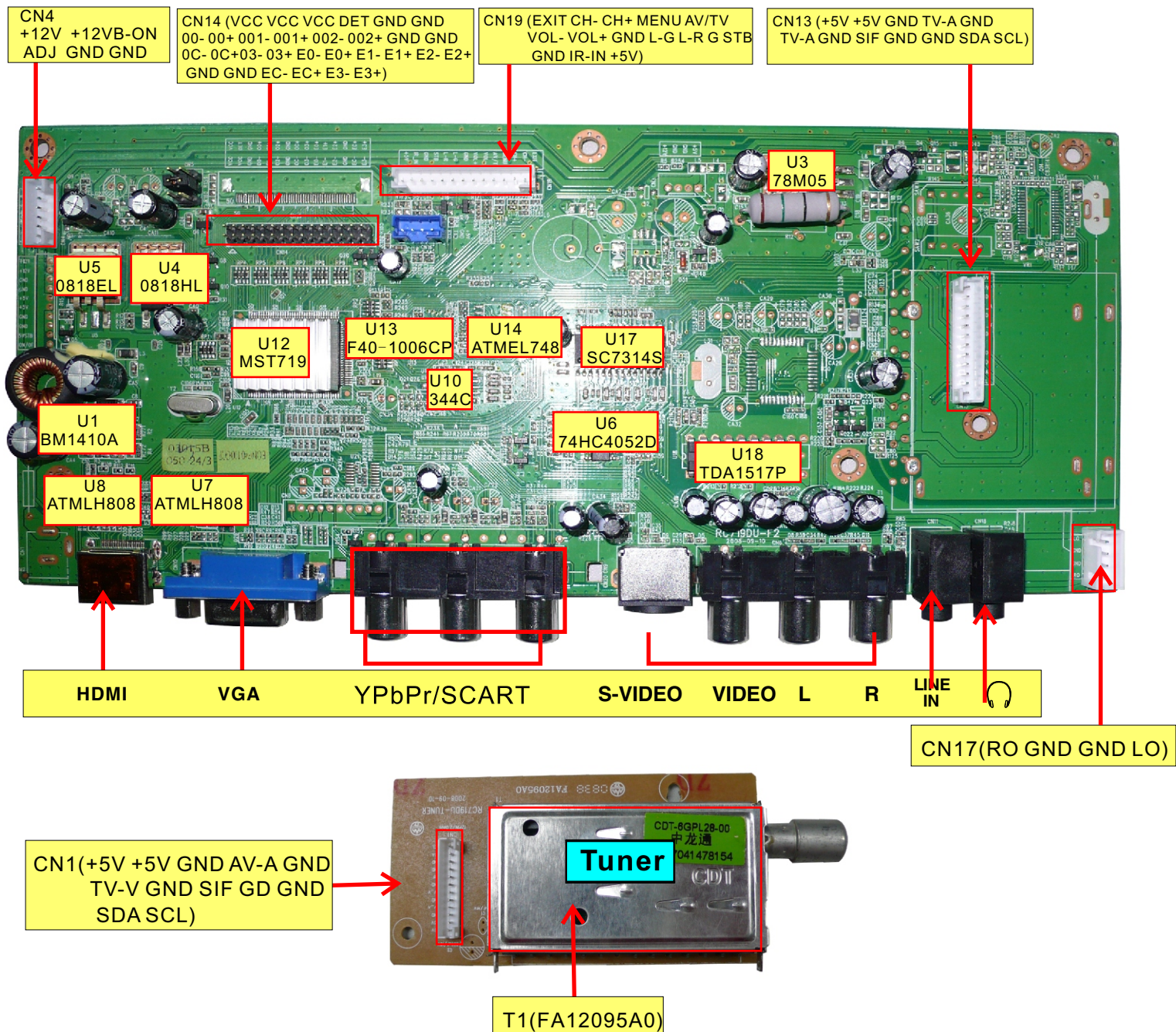


Illustration of actual object(3)

Power Board: TL15H511B(obverse)
Power Board model no. : AYL0150205

FUNCTION: Supply direct voltage and current. Adopt controlling IC to supply voltage 12V separately.

Ac Power be commutated → T1 12V voltage insulating ransformer → 12V.

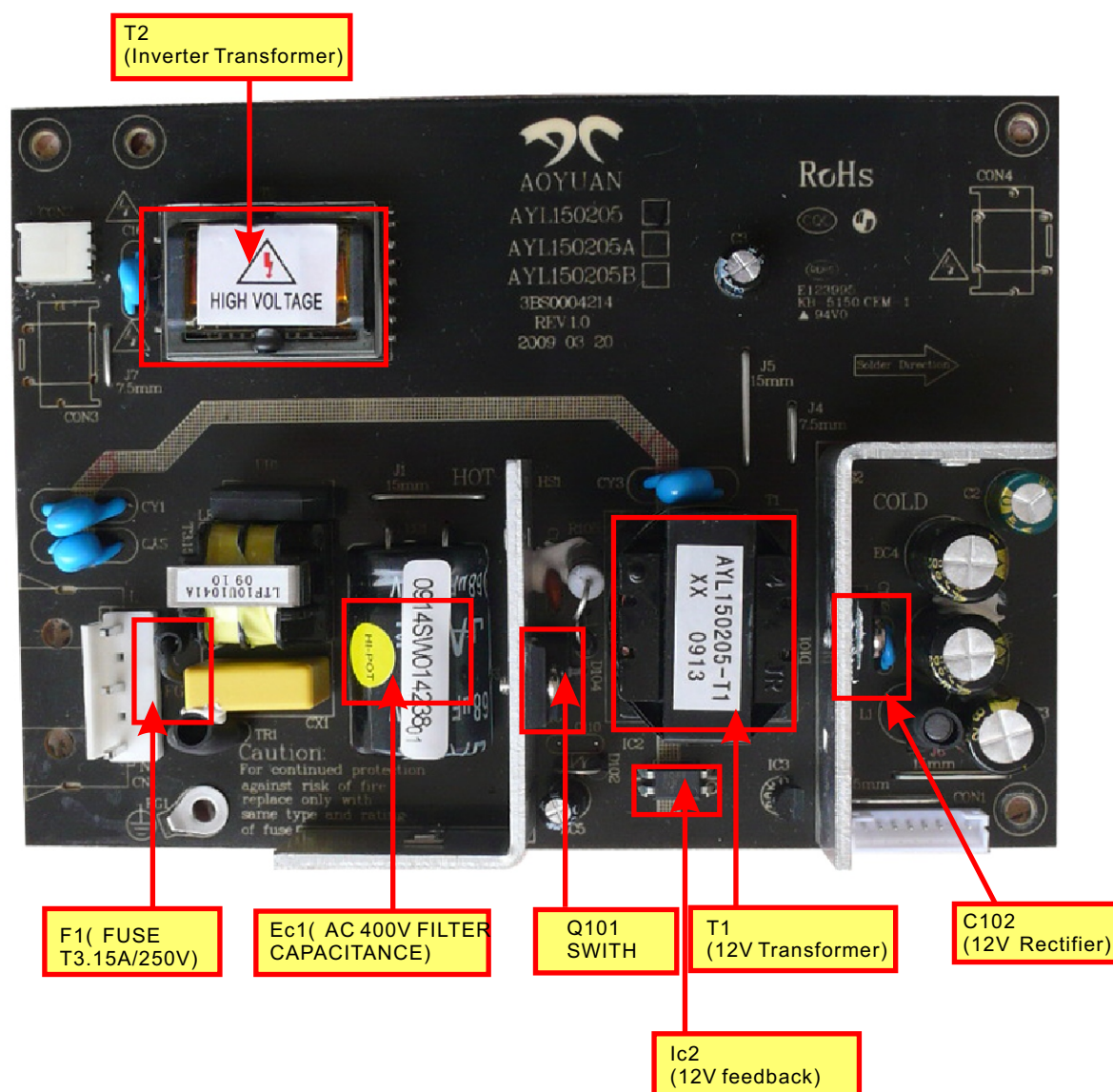
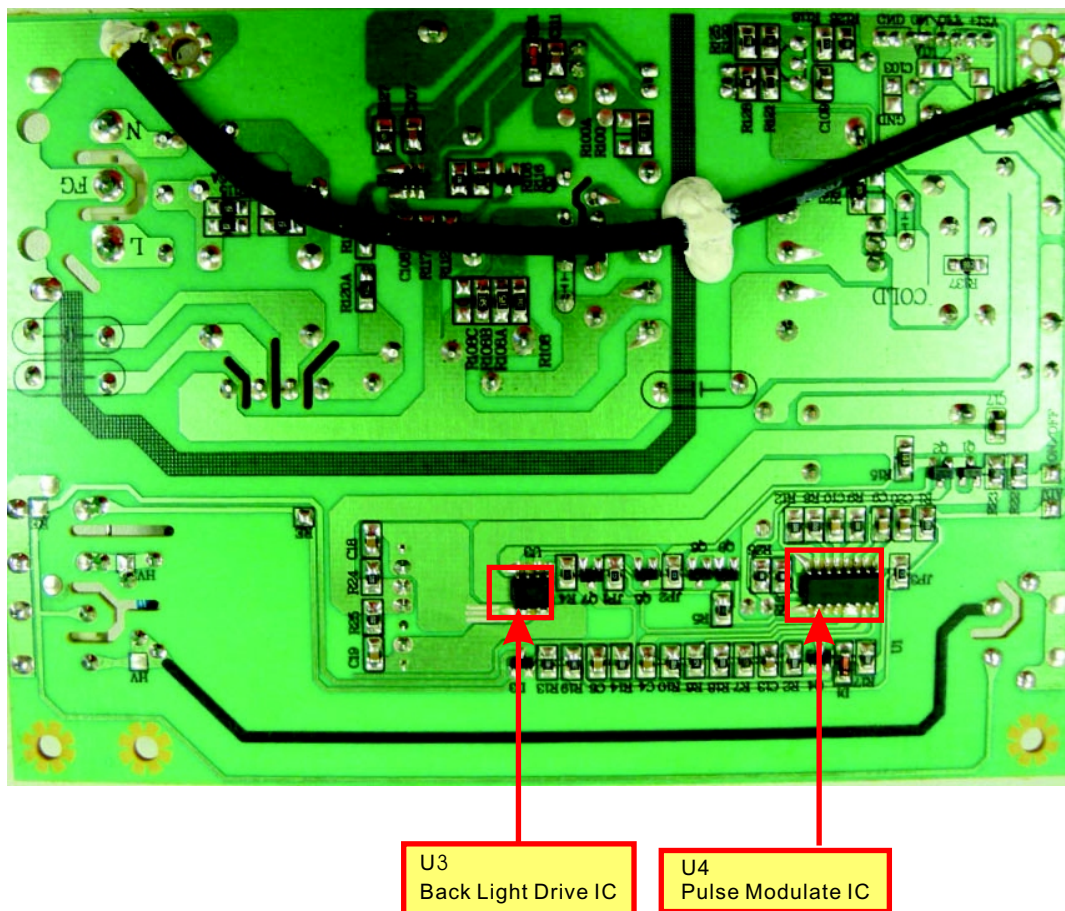


Illustration of actual object(3-1)

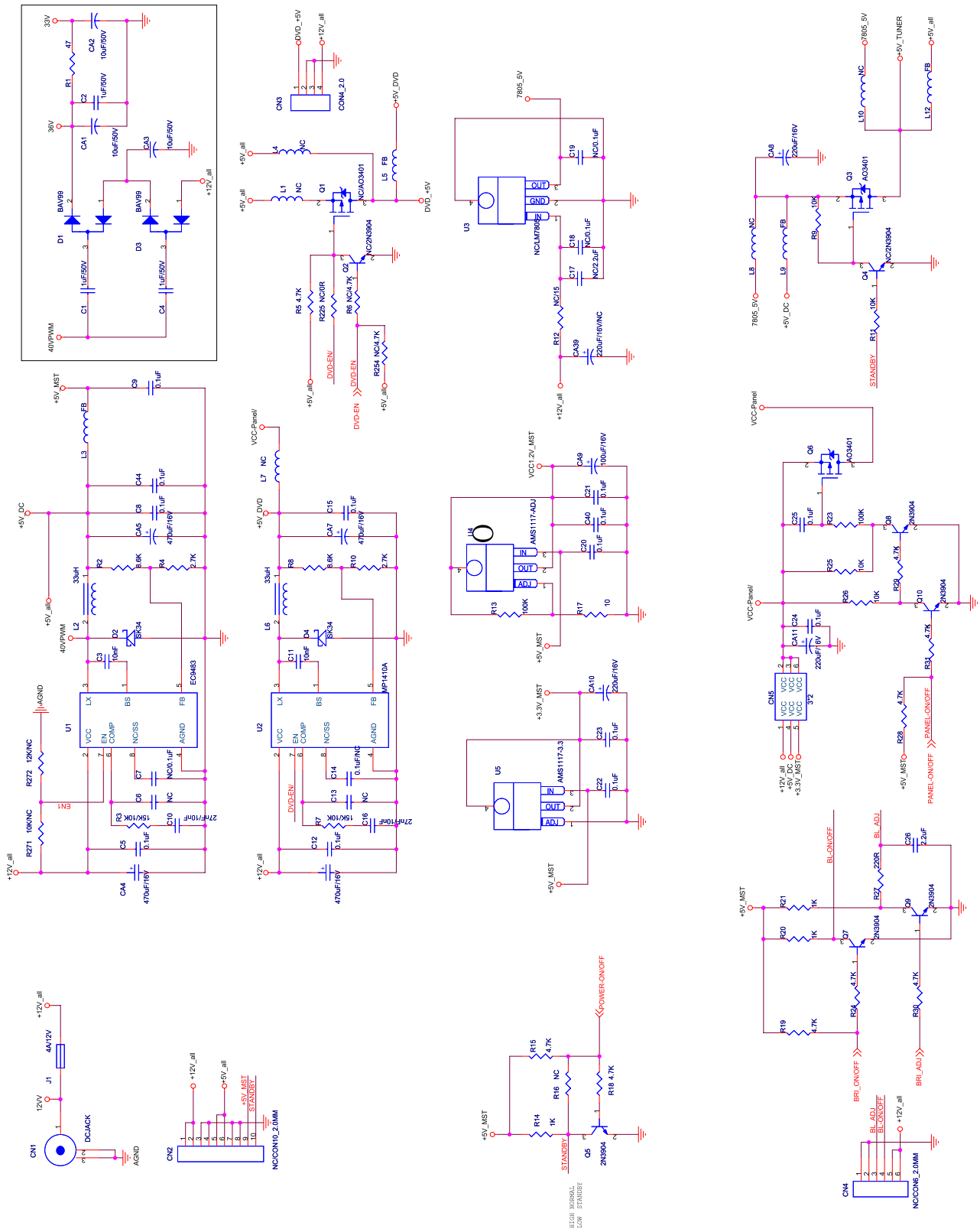
Power Board: TL15H511B (Rear)

Power Board model no. : AYL0150205

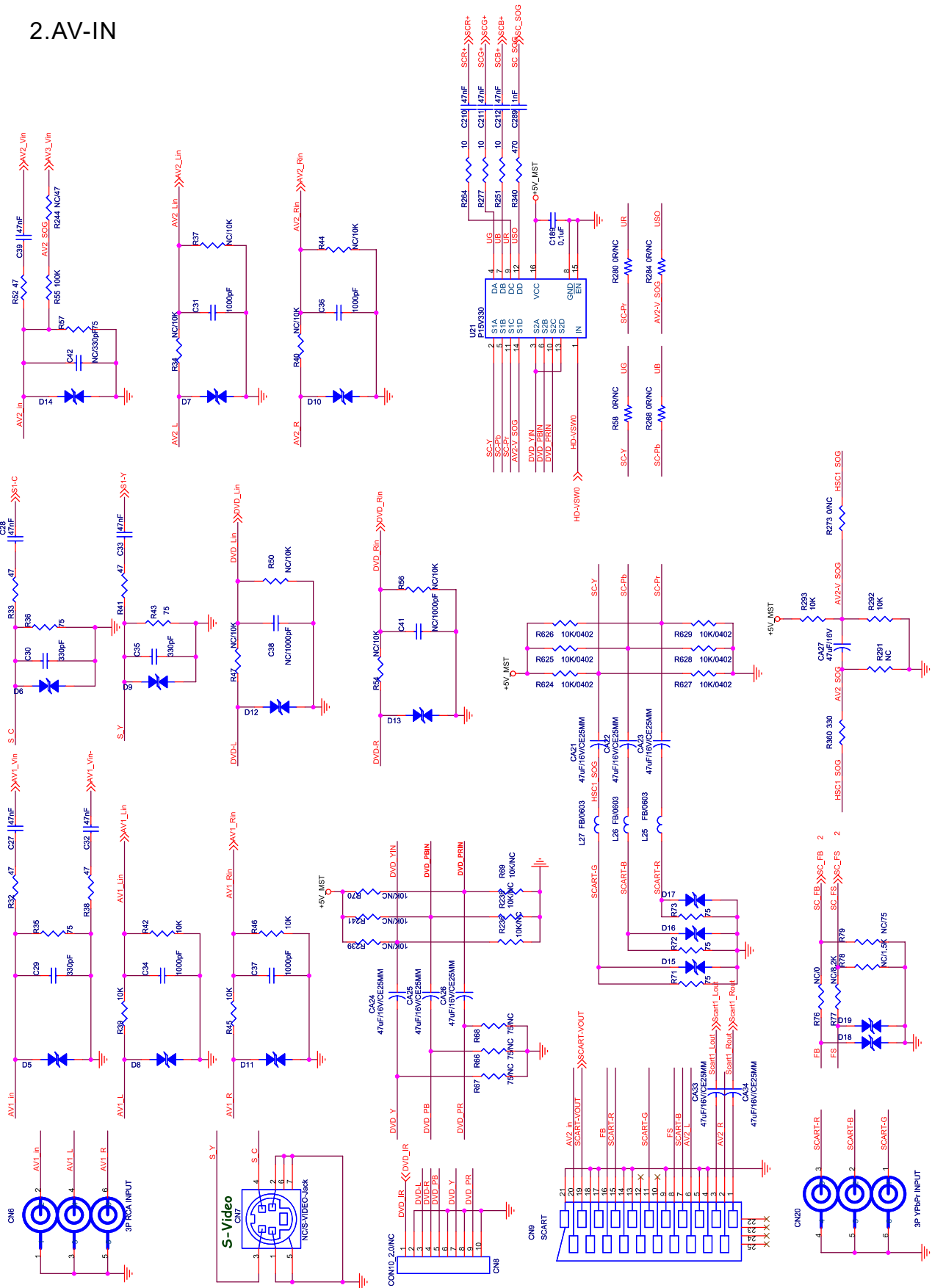


Drive PCB Principle Diagram

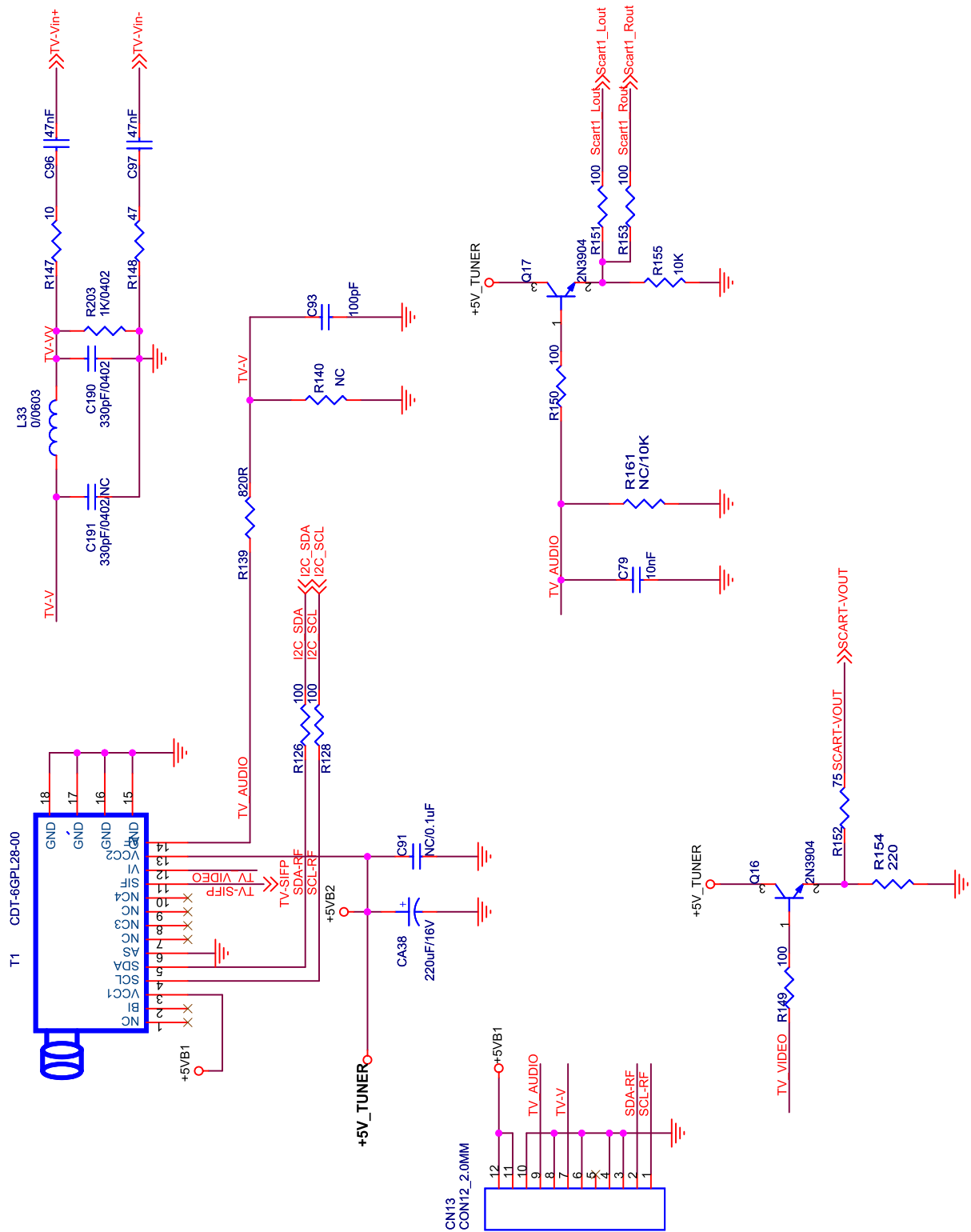
1. System power



2.AV-IN



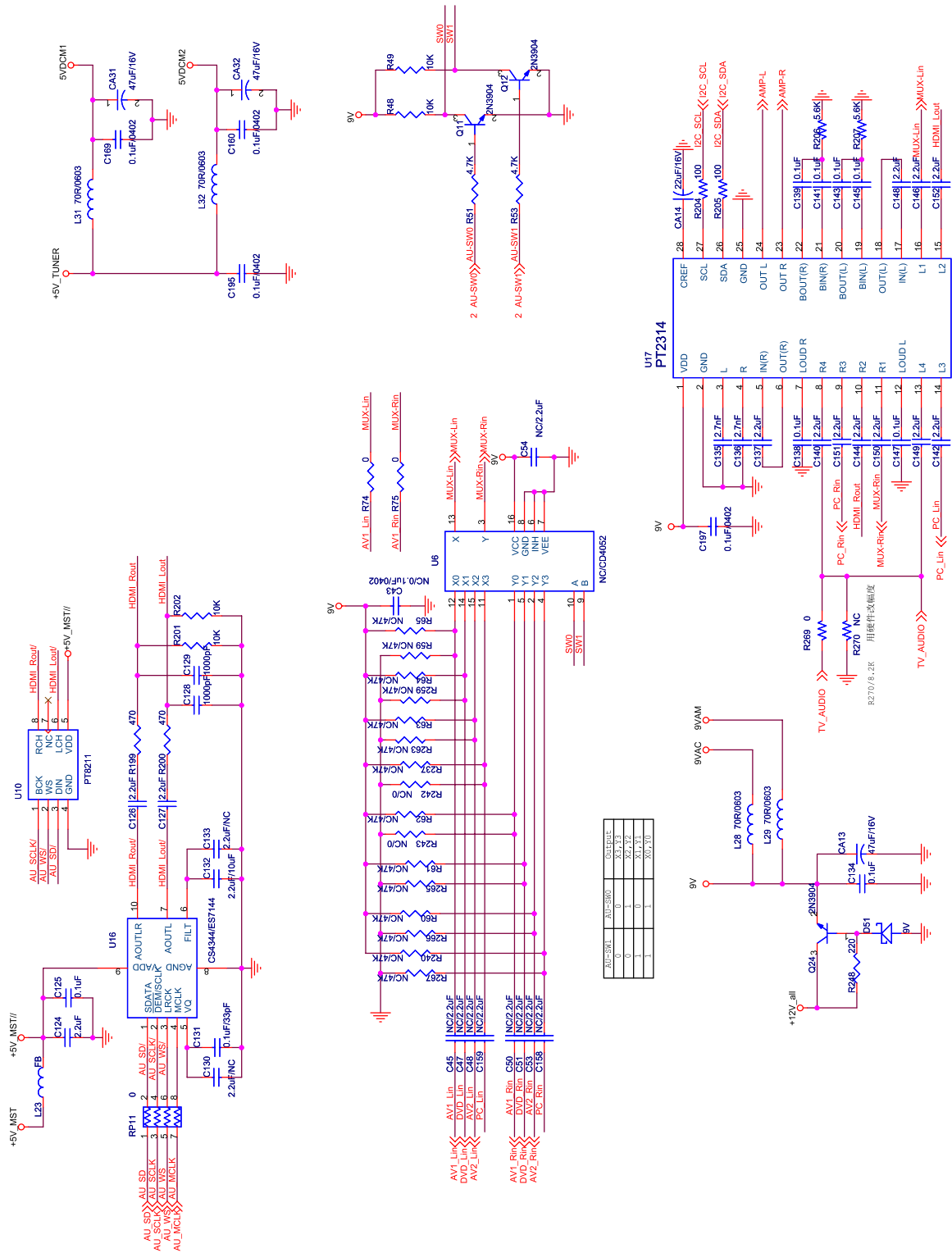
4.TUNER



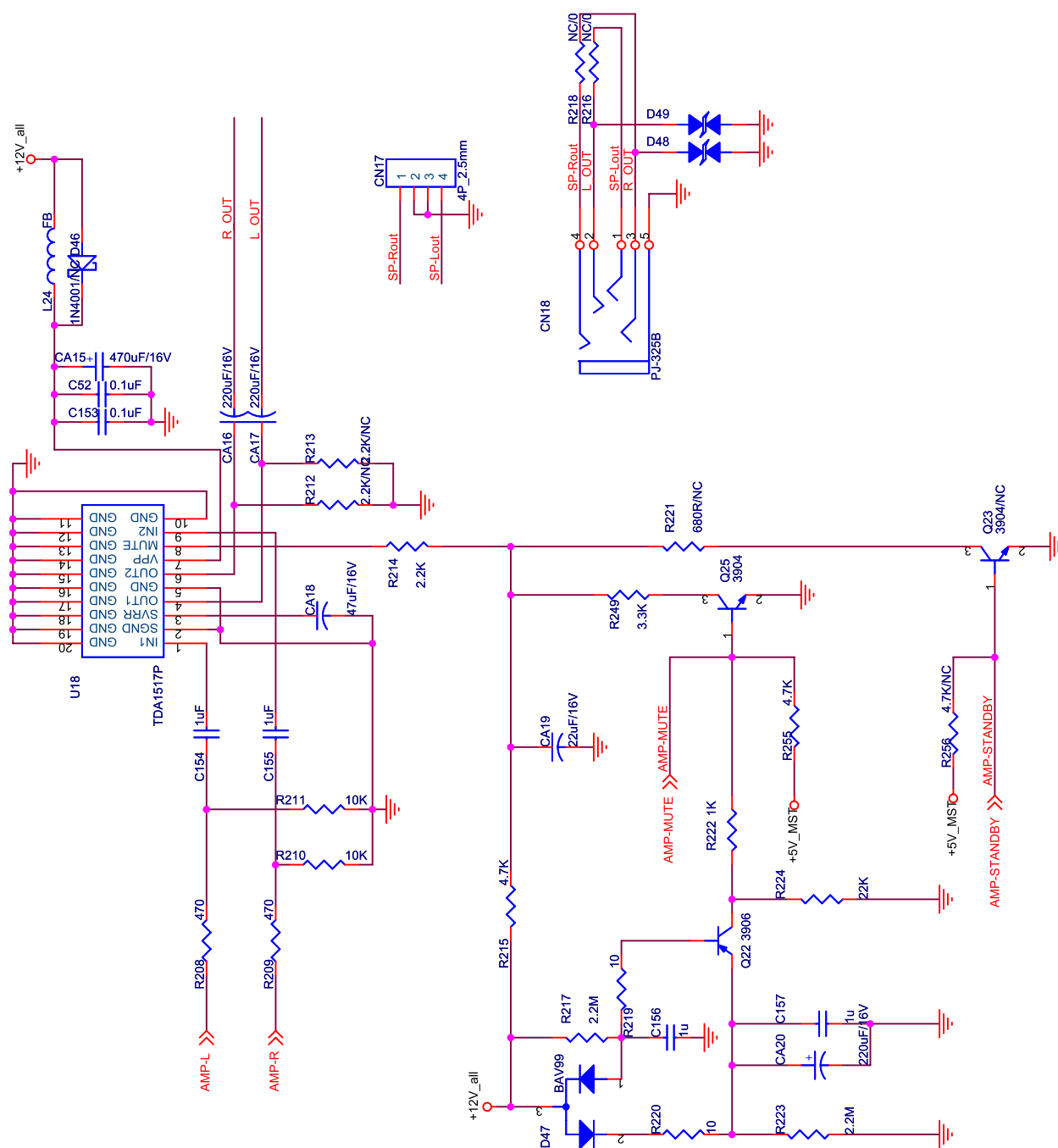
IC POWER



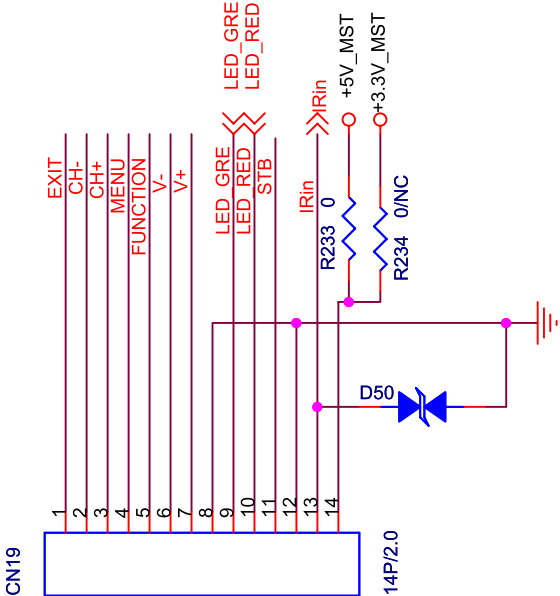
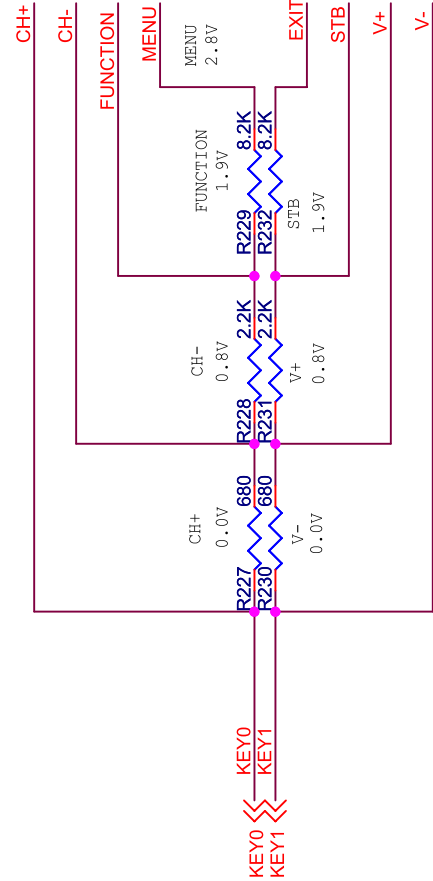
6.SC7314



7.AUDIO AMP

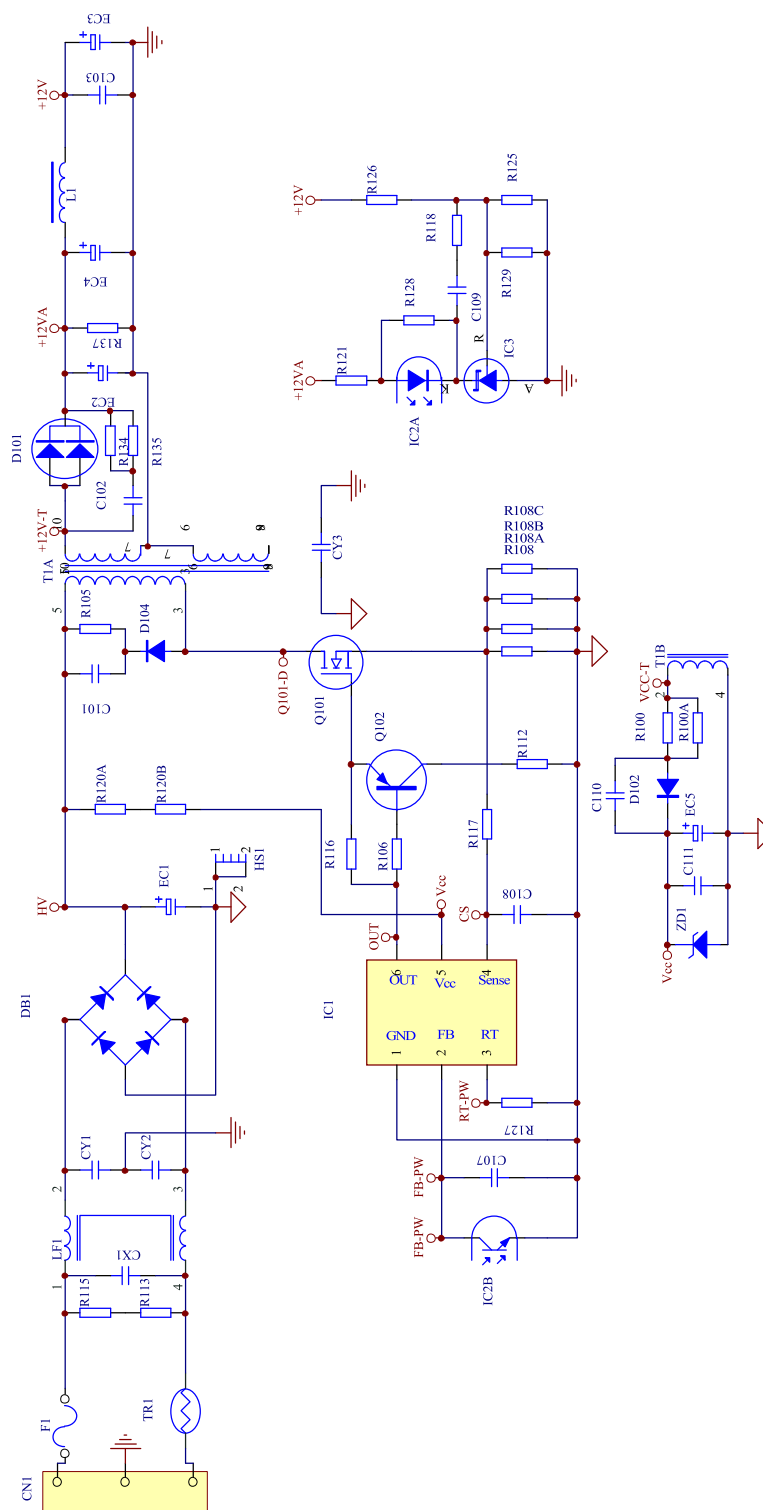


8.KEY & IR

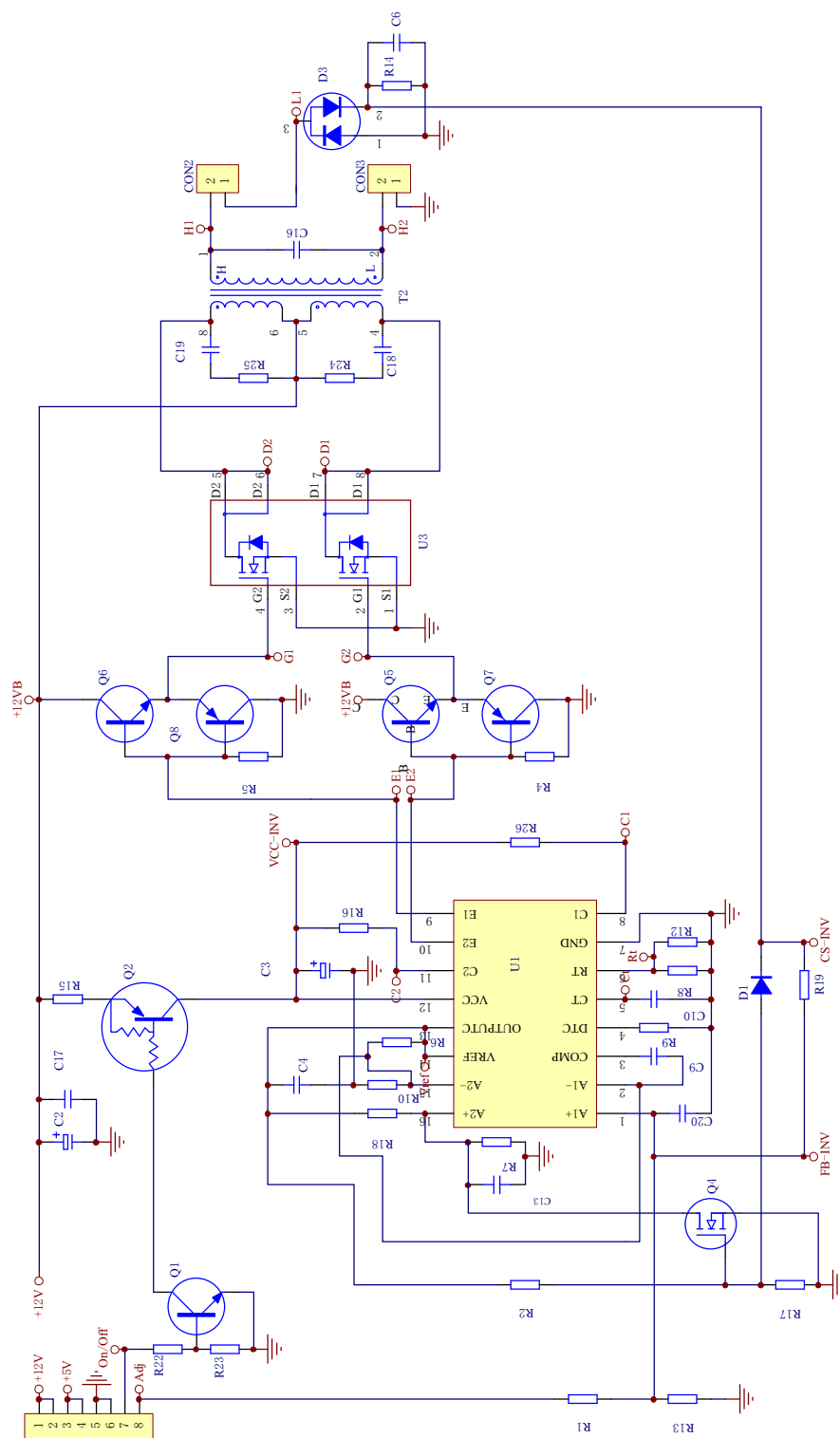


Power Board: TL15H511B
Power Board model no.: AYL0150205

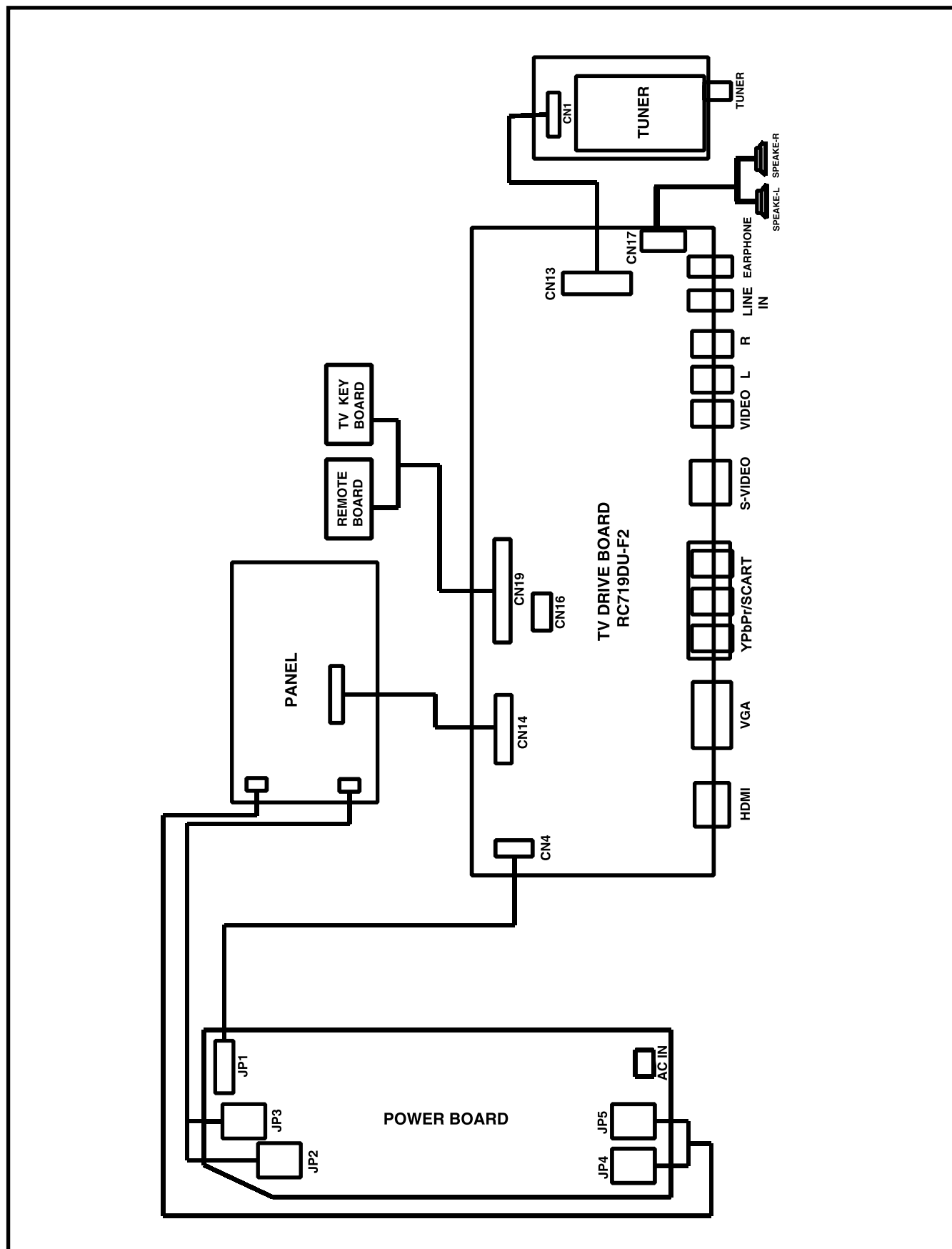
Schematic (1)



Schematic (2)

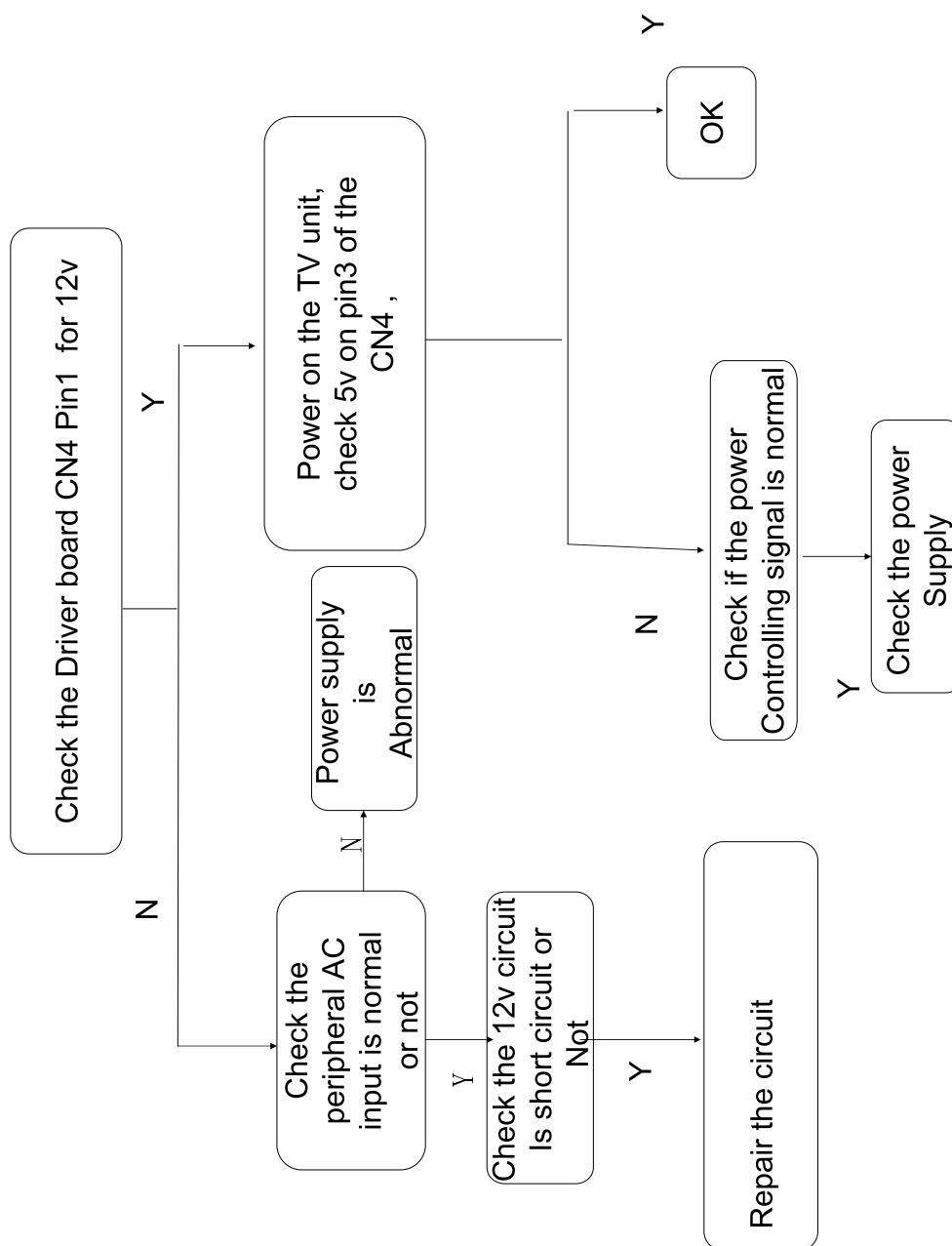


Block Diagram

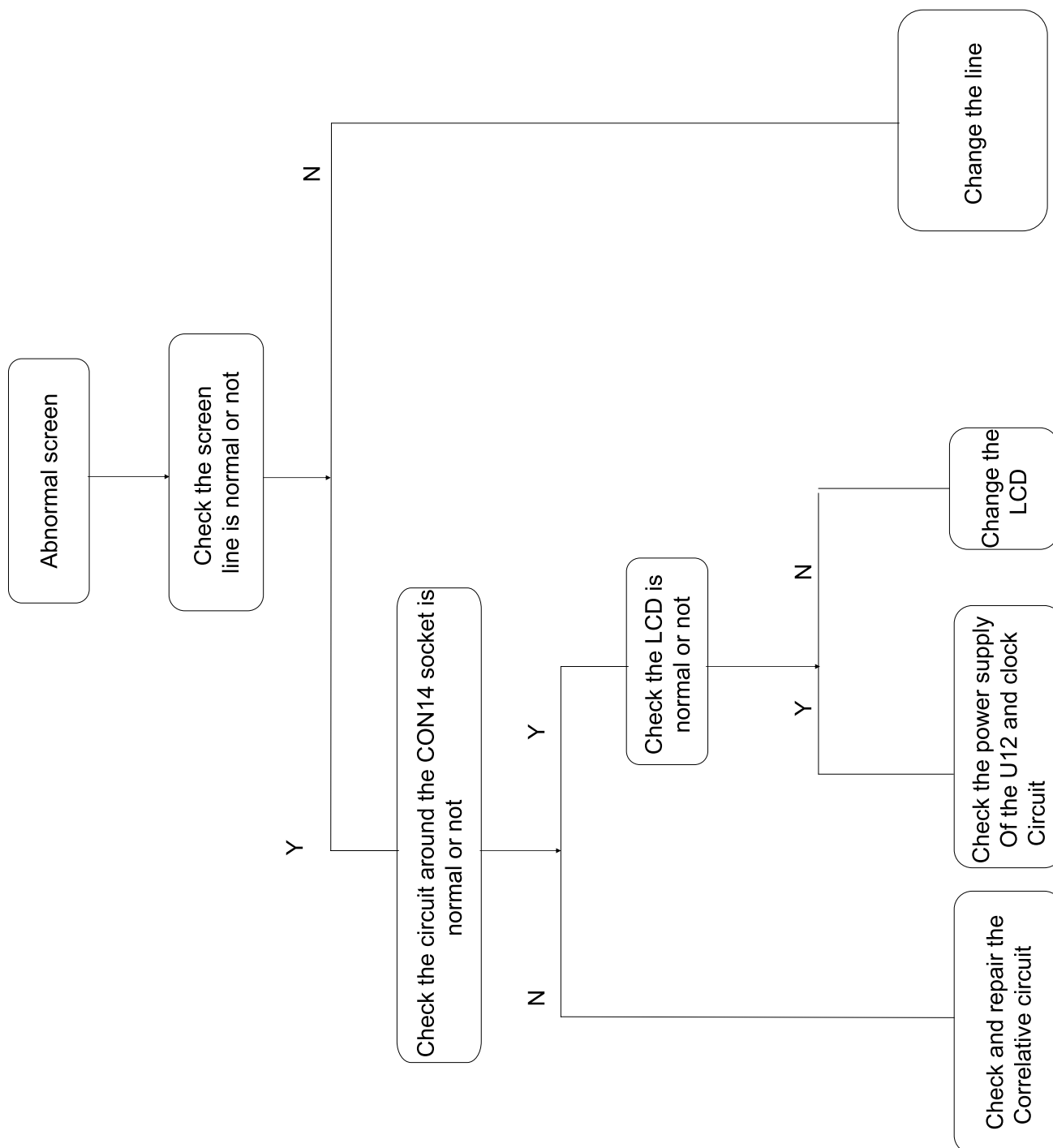


Trouble shooting Charts

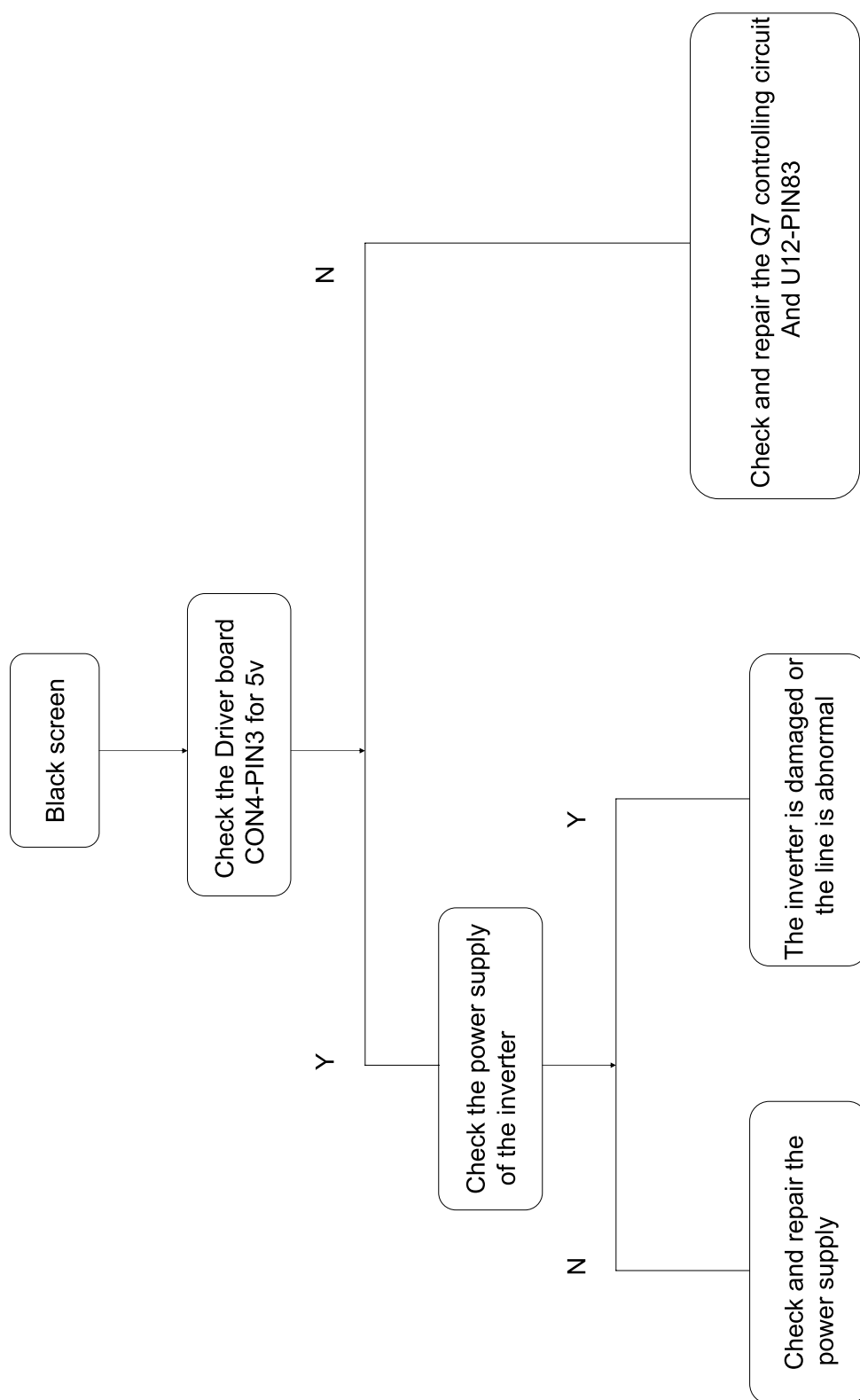
1. Power supply trouble



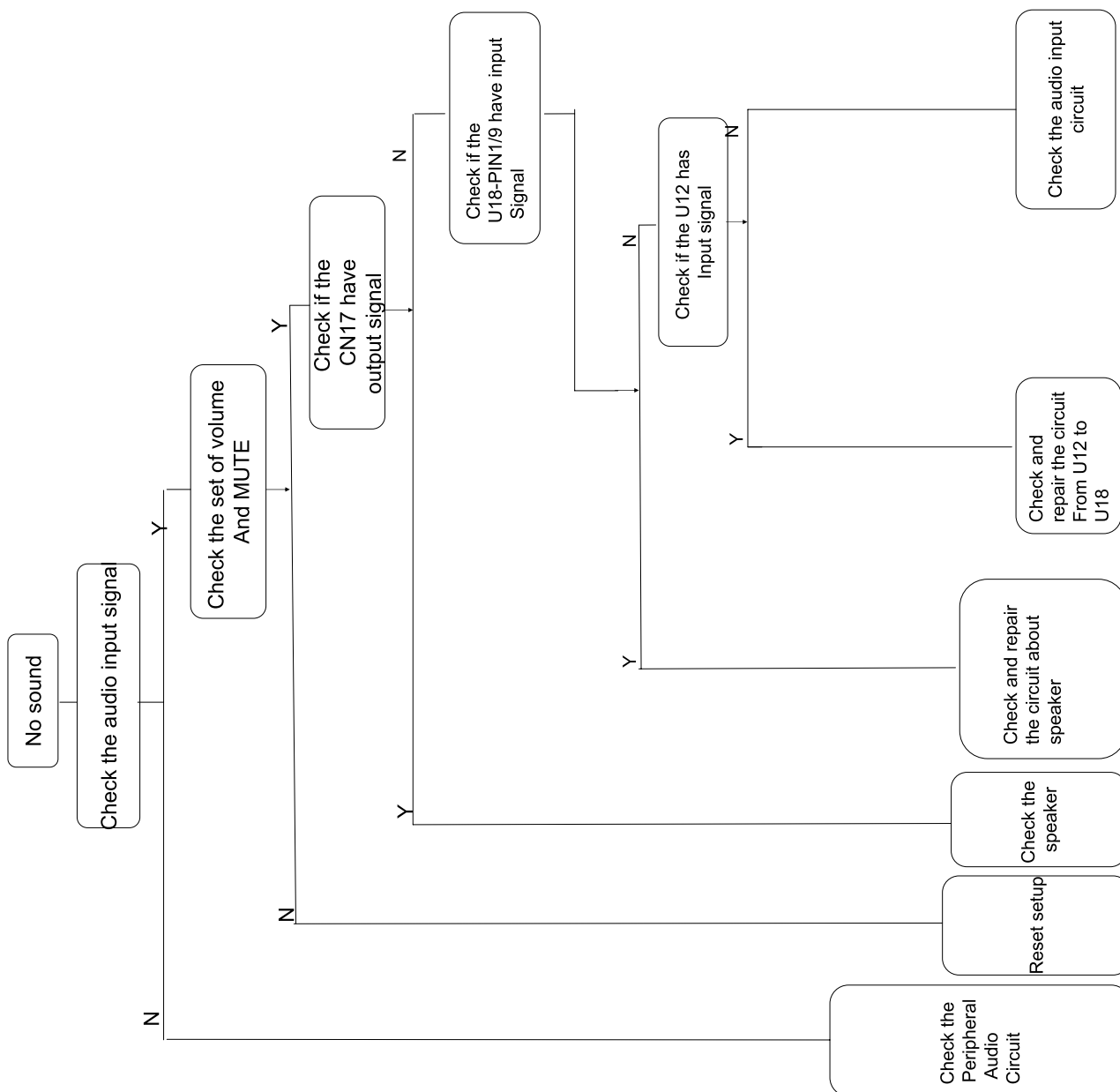
2. Abnormal screen



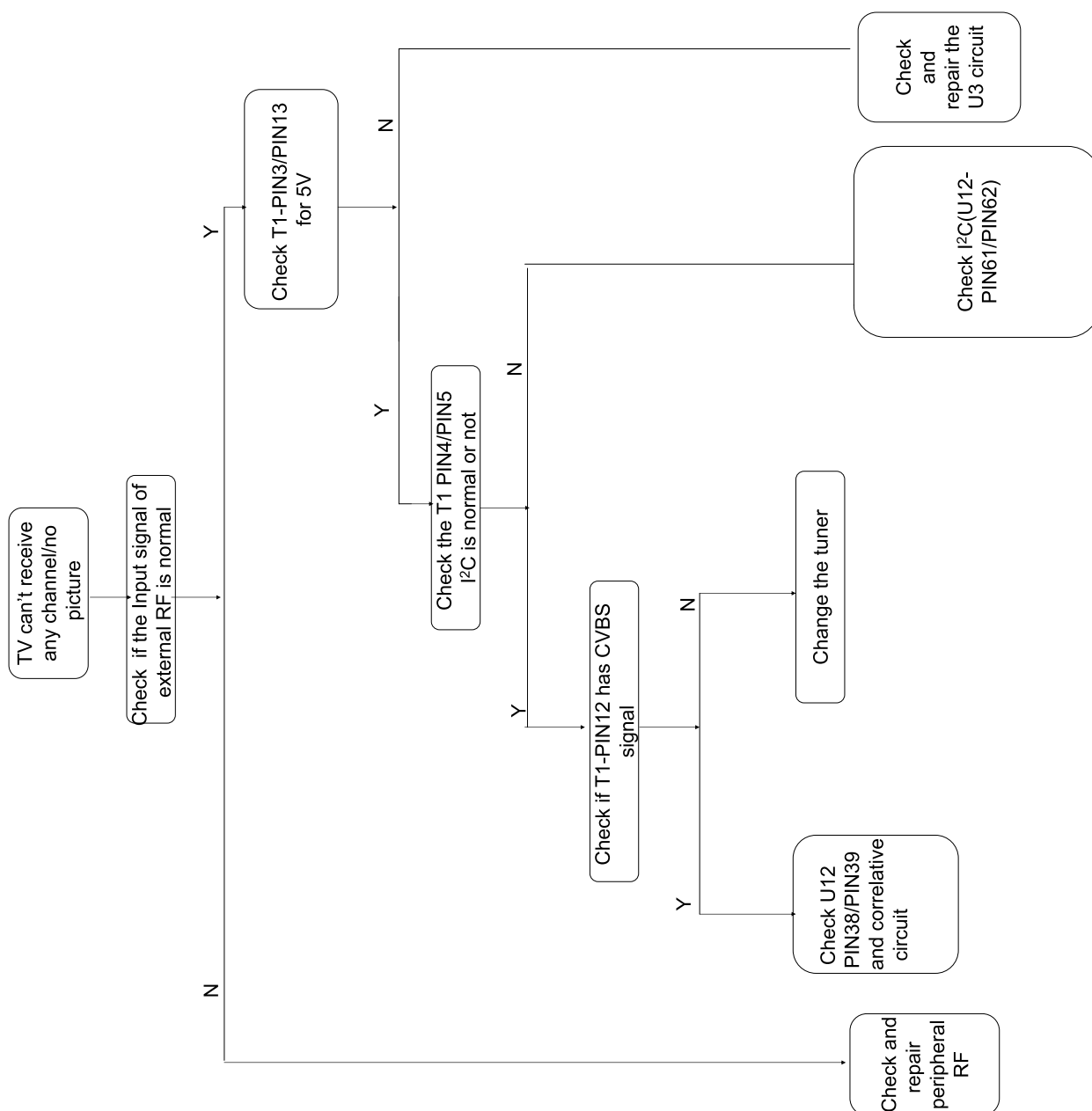
3. Black screen



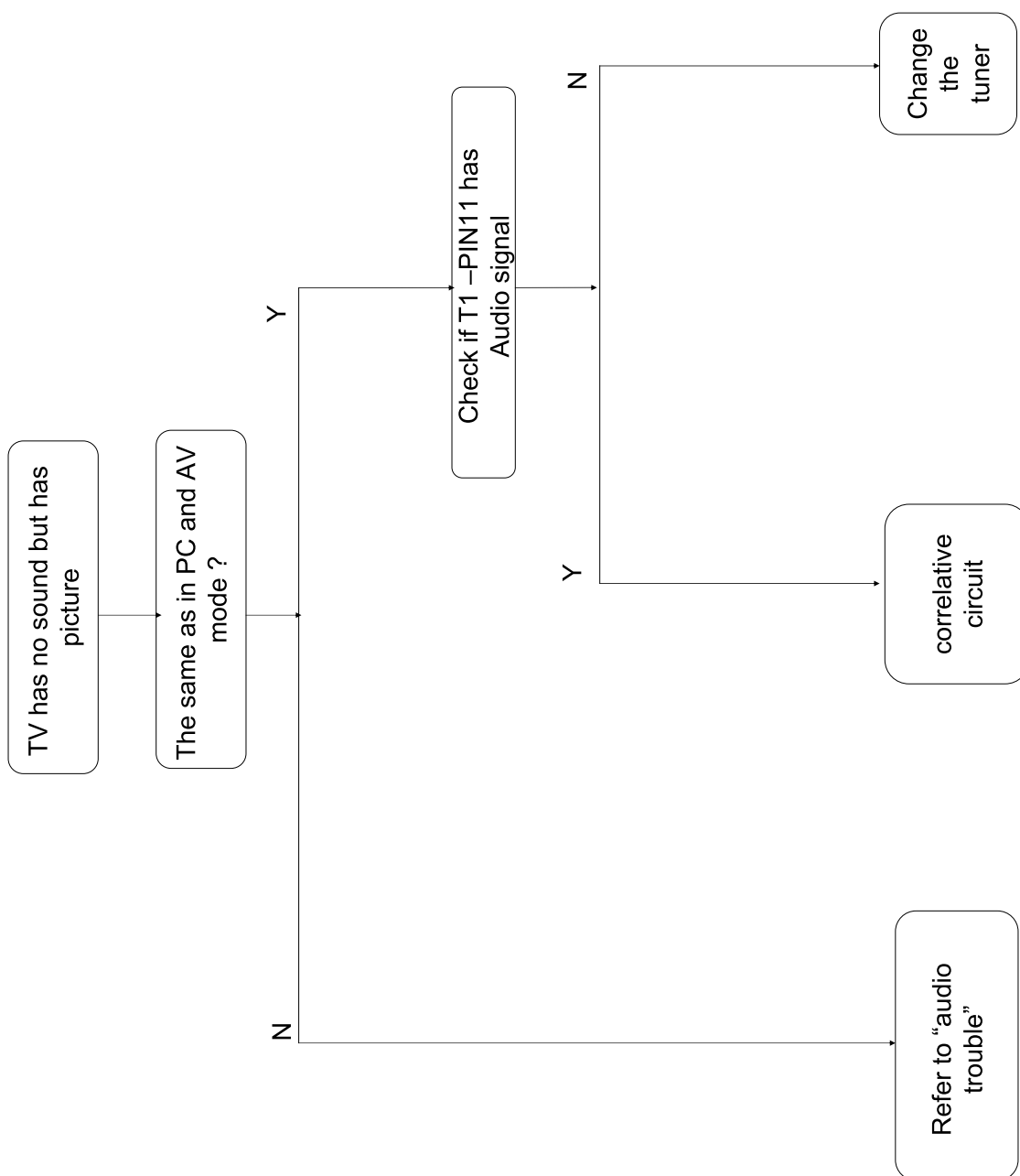
4. Audio trouble (No sound)



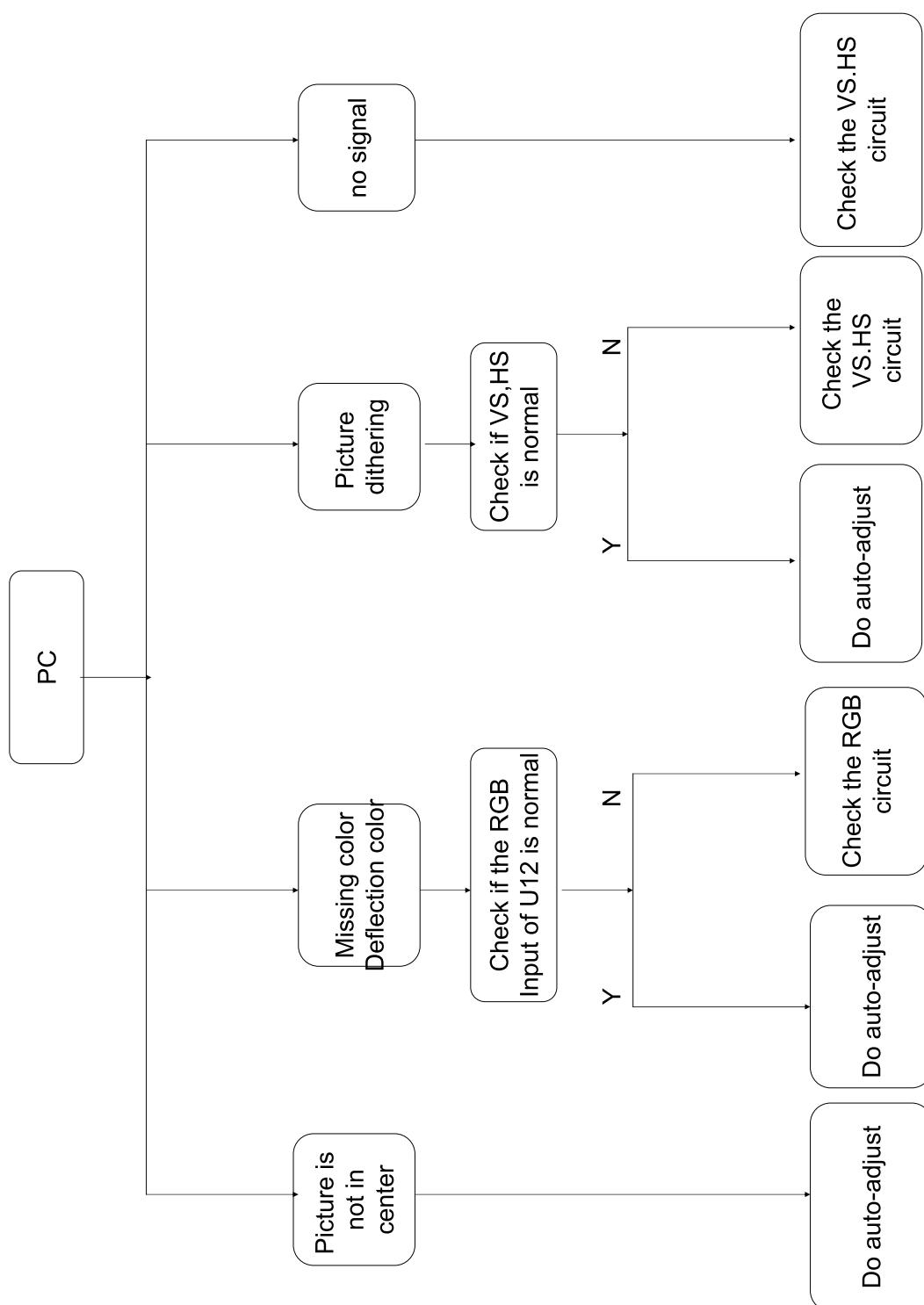
5.Function trouble (ATV video trouble)



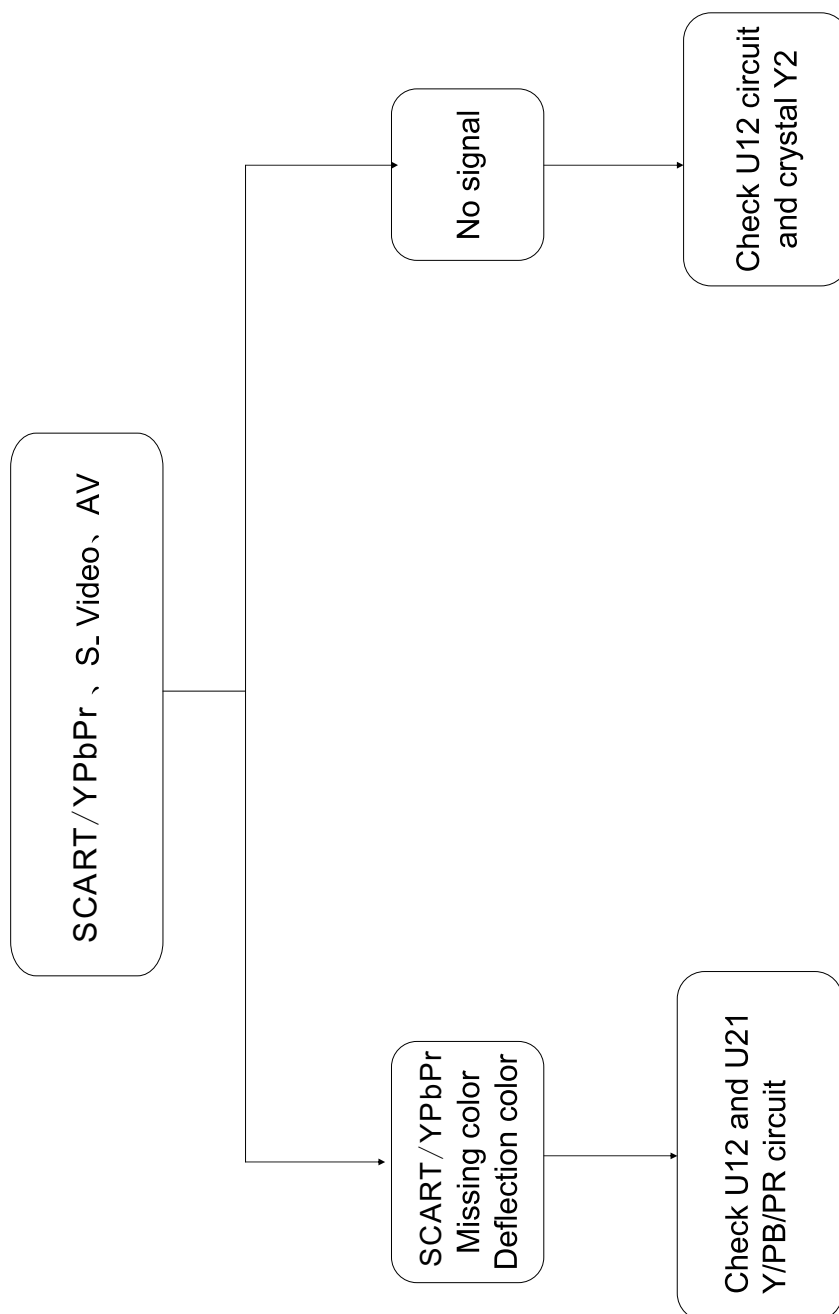
6.FUNCTION(ATV NO sound)



7.FUNCTION TROUBLE(PC)



8.FUNCTION TROUBLE (SCART/YPbPr 、 AV 、 S-VIDEO)



9. FUNCTION TROUBLE (HDMI)

