

**26 “ 32 “ LCD COLOR TV
Service Manual**

Model No.:

TL26H615B

TL32H615B

TL32H610B

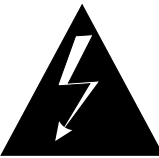
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Safety Notice

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

Specifications

LCD Panel		
Size	26" Diagonal	32" Diagonal
Display size	575.769(H) X 323.712 (V) mm	697.685(H) X 392.256 (V) mm
Pixel Pitch	0.4215(H) X 0.4215 (V) mm	0.51075(H) X 0.51075 (V) mm
View Angle	150 °/150°(H/V)	178 °/178°(H/V)
Frequency		
Horizontal	30~75KHz	30~75KHz
Vertical	56~60Hz	56~60Hz
Display color	16.7M colors	16.7M colors
Display Resolution		
Maximum Mode	1360 X 768 @ 60Hz	1360 X 768@ 60Hz
Optimum Mode	1280 X 1024 @ 60Hz	1280 X 1024 @ 60Hz
Input Source		
Sync.	H/V separate, TTL, P. or N.	H/V separate, TTL, P. or N.
Video Signal	1Vp-p @ 75 ohm	1Vp-p @ 75 ohm
RGB Signal	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm
TV		
Color System	PAL/SECAM	PAL/SECAM
Sound System	BG, DK, I	BG, DK, I
Video		
Color System	PAL/SECAM/NTSC	PAL/SECAM/NTSC
Video Format	CVBS, S-VHS, RGB	CVBS, S-VHS, RGB
Power Supply		
Input	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz
Power Consumption		
Working	140W	165W
Standby	≤3W	≤ 3W
Environmental Considerations		
Operating Temperature	10℃ ~ 40 ℃(50°F ~ 104°F)	10℃ ~ 40 ℃(50°F ~ 104°F)
Operating Humidity	10% ~ 80%	10% ~ 80%
Audio Characteristics		
Audio Input	RCA Jack (L, R), 0.5Vrms (-9dB)	RCA Jack (L, R), 0.5Vrms (-9dB)
Audio Input (PC)	Ø3.5 Stereo, 0.5Vrms (-9dB)	Ø3.5 Stereo, 0.5Vrms (-9dB)
Frequency	RF: 100Hz~12KHz (at ± 3dB)	RF: 100Hz~12KHz (at ± 3dB)
Response	A/V: 100Hz~13KHz (at ± 3dB)	A/V: 100Hz~13KHz (at ± 3dB)
Dimension (WXDXH) mm		
Without Stand	681.2X93.4X474.0	812.9X106.0X560.9
With Stand	681.2X245.6X527.9	812.9X245.6X619.0
Weight (Kg)		
Net Weight	11.0	15.2
Gross Weight	14.0	18.2

Note:

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

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
SXGA	1280X1024	64.0	60.0
SXGA	1360X768	47.7	60.0

HDMI INPUT

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
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

- Modes, which are not listed in the above table, may not be supported. For an optimal picture is recommended to choose a mode listed in the table.
- The incoming display modes compatible with WINDOWS as 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.

Location and Function of Controls

FRONT PANEL

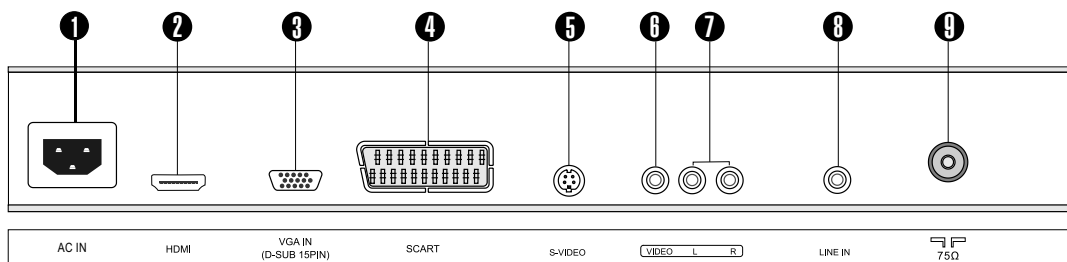
Button Name	Description
INPUT	Select the input signal.
MENU	Enter or exit from the menu.
VOL +/-	Increase or decrease the volume. Adjust the values of the selected menu item in the OSD menu.
CH ▲ / ▼	When you are watching the TV program, press these buttons to select channel in ascending or descending order. Select the upper or lower menu item in the OSD menu.
STANDBY/⏻	Switch on the LCD TV when at standby mode or vice versa.
Power Indicator	Illuminates red in standby mode. Illuminates green when the LCD TV is switched on.
Remote Sensor	Infrared sensor for the remote control.
Main Power Switch	Switch on/off the LCD TV.

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 AC Input Socket: Connect to an earth 100-240V, 50/60Hz AC outlet with the power cable.
- ❷ HDMI connector, connect HDMI signal input.
- ❸ VGA input interface, connect the D-Sub 15 pins analog output connector of the PC.
- ❹ SCART input interface, connect your AV system with SCART output.
- ❺ S-VIDEO input, connect video input from external device here.
- ❻ CVBS / Composite video inputs, connect your AV system.
- ❼ Audio Channel input for Composite video & S-video mode.
- ❽ Audio input for VGA mode, connect to your PC audio output.
- ❾ 75 Ω aerial input, connect antenna connector or aerial interface here to receive cable / aerial signal.

Disassembly the Framework(1)

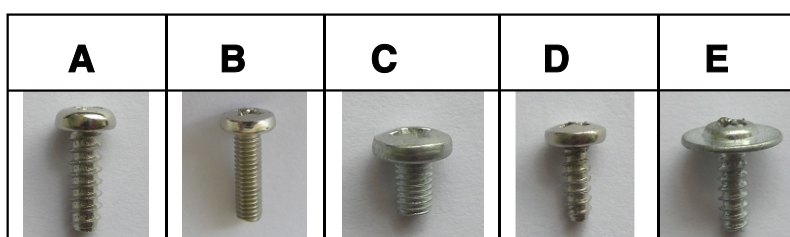
Please follow the following steps to disassemble the unit :

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、TL26H615B

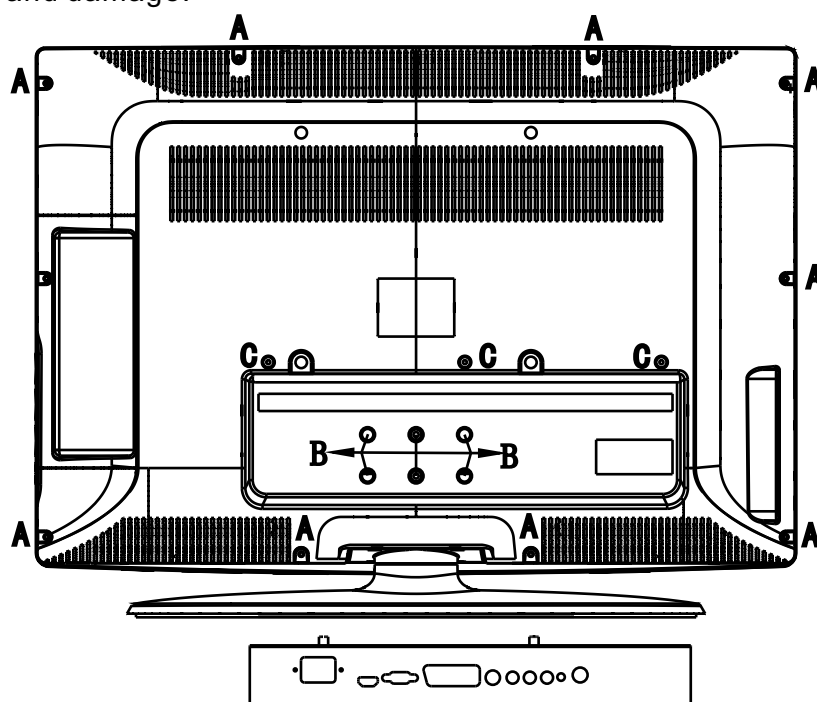
Disassemble the rear cabinet:

1.1、Unfasten the 6 screws B (BM4×12) , take out the stand from the TV.

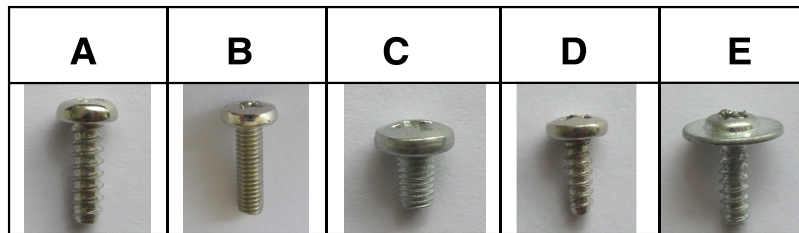
1.2、Unfasten the 10 screws A (BST4×12), and the 3 screws C (BM3X6) , uninstalling the back cover .

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.



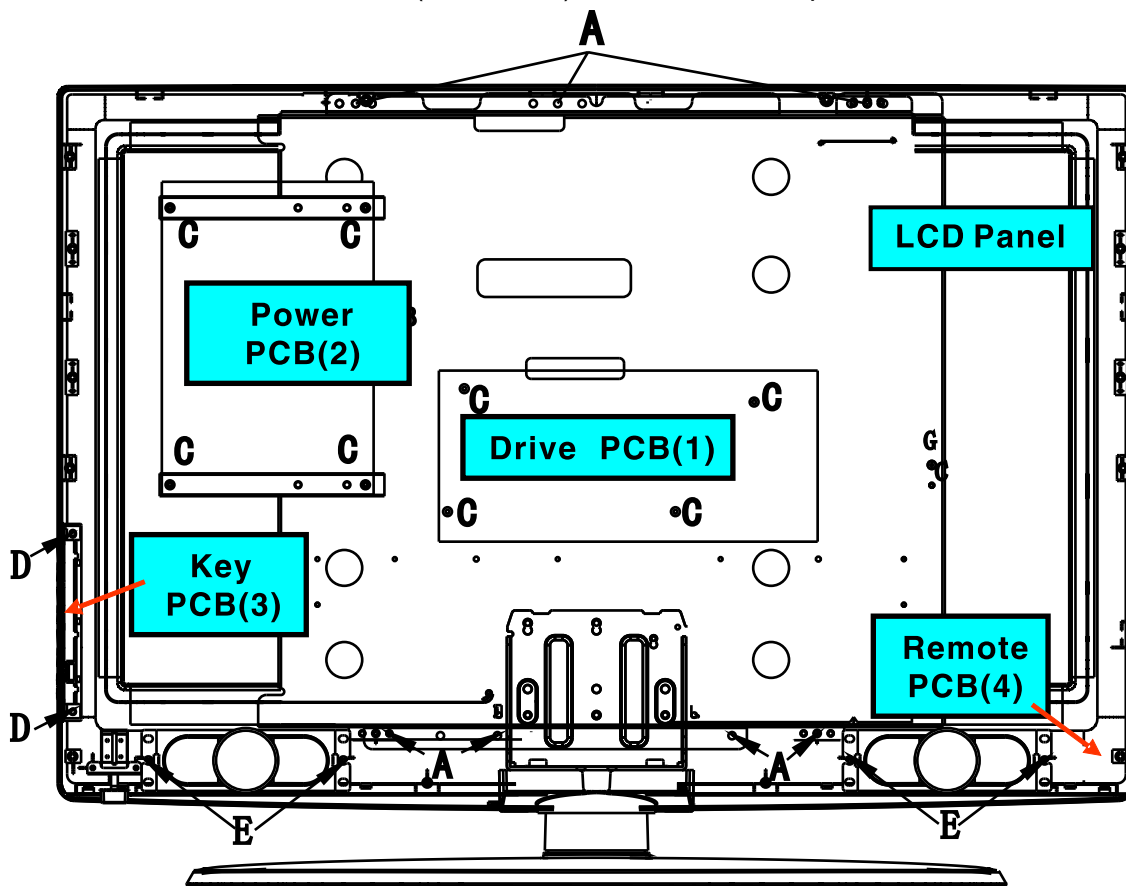
Disassembly the Framework(1)



2、TL26H615B

Disassemble PCB assembly and Front cabinet:

- 2.1、Uninstall the Connection cable with Drive PCB1、 Power PCB2、 Key PCB3、 Remote PCB4;
- 2.2、Unfasten 8 Screws of A (BST4×12)take out the Front cabinet , and the 2 screws D (BST3×10)take out the key PCB3 ;
- 2.3、Unfasten 4 screws of C (M3×6) and take out the Drive PCB1;
- 2.4、Unfasten 4 screws of C (M3×6) and take out the Power PCB2 ;
- 2.5、Unfasten 4 screws of E (PWT3×8) , remove the 2 speakers.



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

Disassembly the Framework(2)

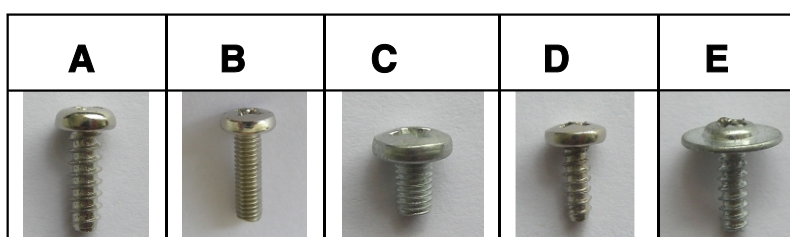
Please follow the following steps to disassemble the unit :

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、TL32H615B

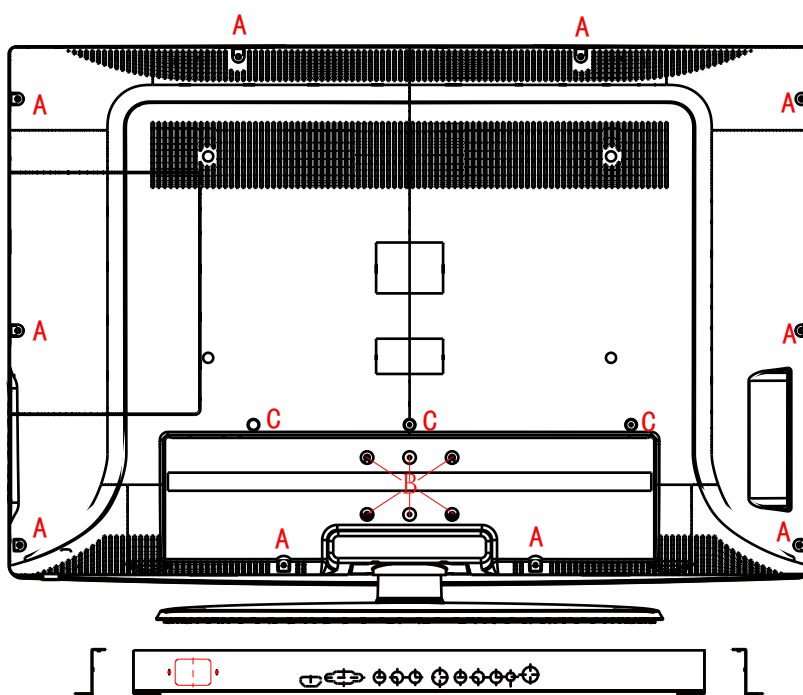
Disassemble the rear cabinet:

1.1、Unfasten the 6 screws B (BM4×12) , take out the stand from the TV.

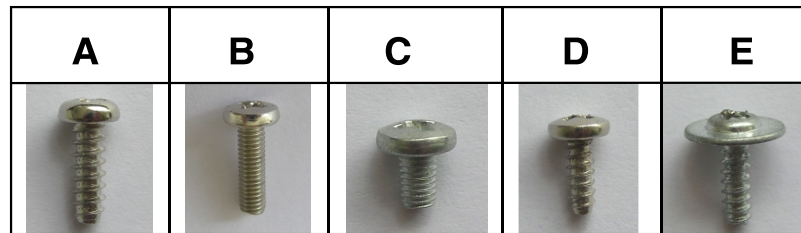
1.2、Unfasten the 10 screws A (BST4×12), and the 3 screws C (BM3X6) , uninstalling the back cover .

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.



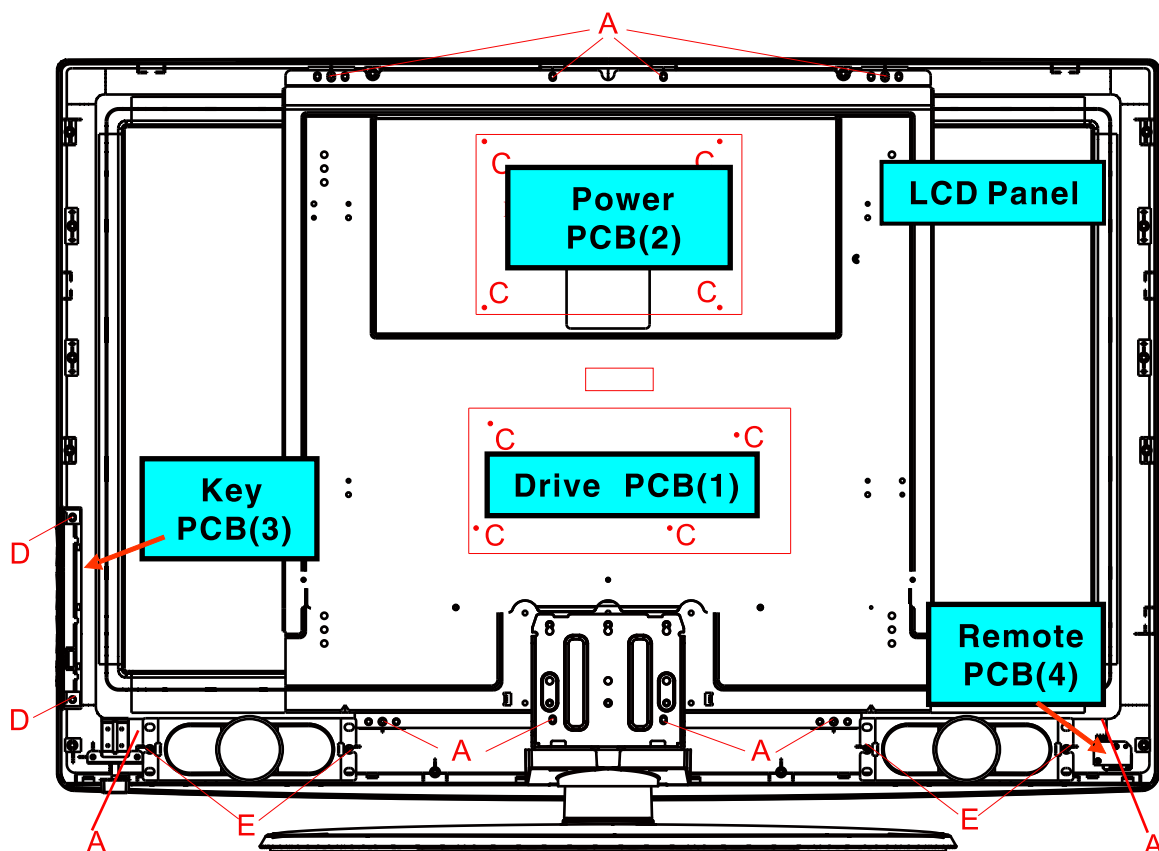
Disassembly the Framework(2)



2、TL32H615B

Disassemble PCB assembly and Front cabinet:

- 2.1、Uninstall the Connection cable with Drive PCB1、Power PCB2、Key PCB3、Remote PCB4;
- 2.2、Unfasten 10 Screws of A (BST4×12),and the 2 screws D (BST3×10) take out the Front cabinet and the key PCB3 ;
- 2.3、Unfasten 4 screws of C (M3×6) and take out the Drive PCB1;
- 2.4、Unfasten 4 screws of C (M3×6) and take out the Power PCB2 ;
- 2.5、Unfasten 4 screws of E (PWT3×8) , remove the 2 speakers.



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

Disassembly the Framework(3)

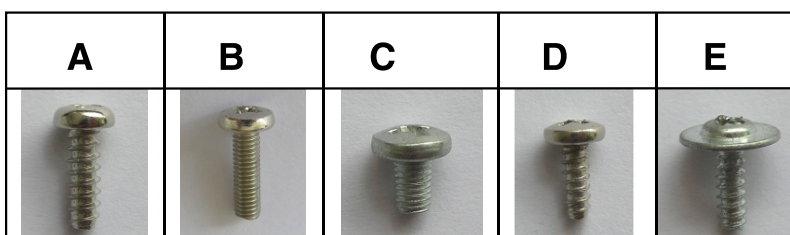
Please follow the following steps to disassemble the unit :

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、 TL32H610B

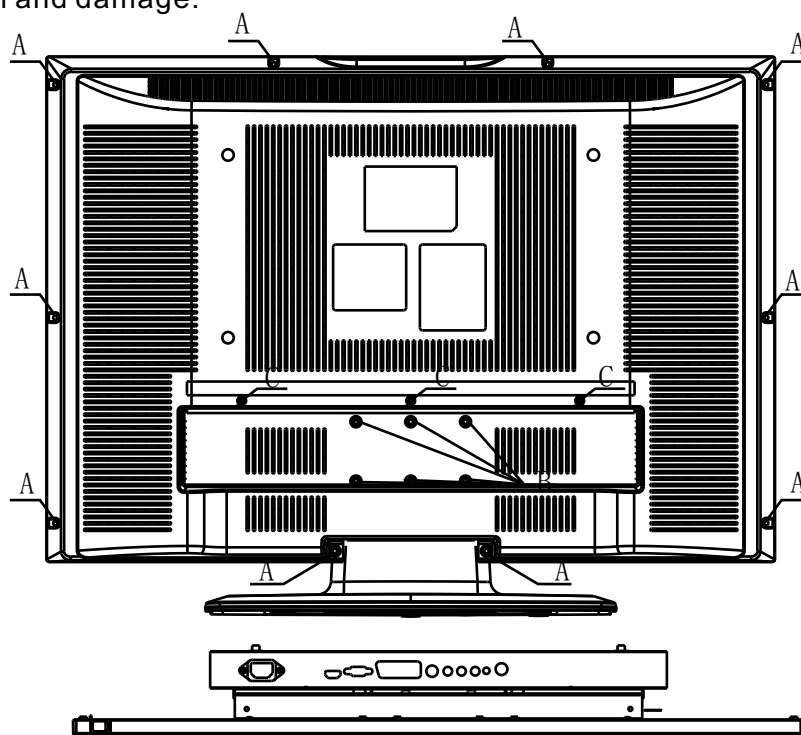
Disassemble the rear cabinet:

1.1、 Unfasten the 6 screws B (BM4×12) , take out the stand from the TV.

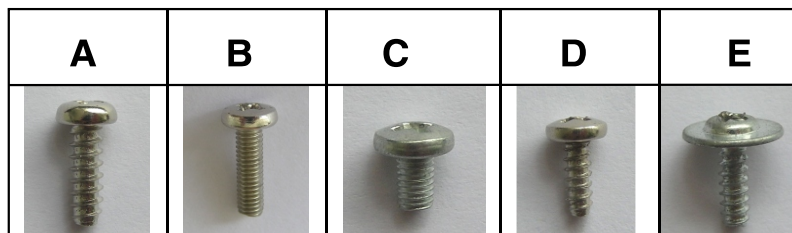
1.2、 Unfasten the 10 screws A (BST4×12), and the 3 screws C (BM3X6) , uninstalling the back cover .

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.



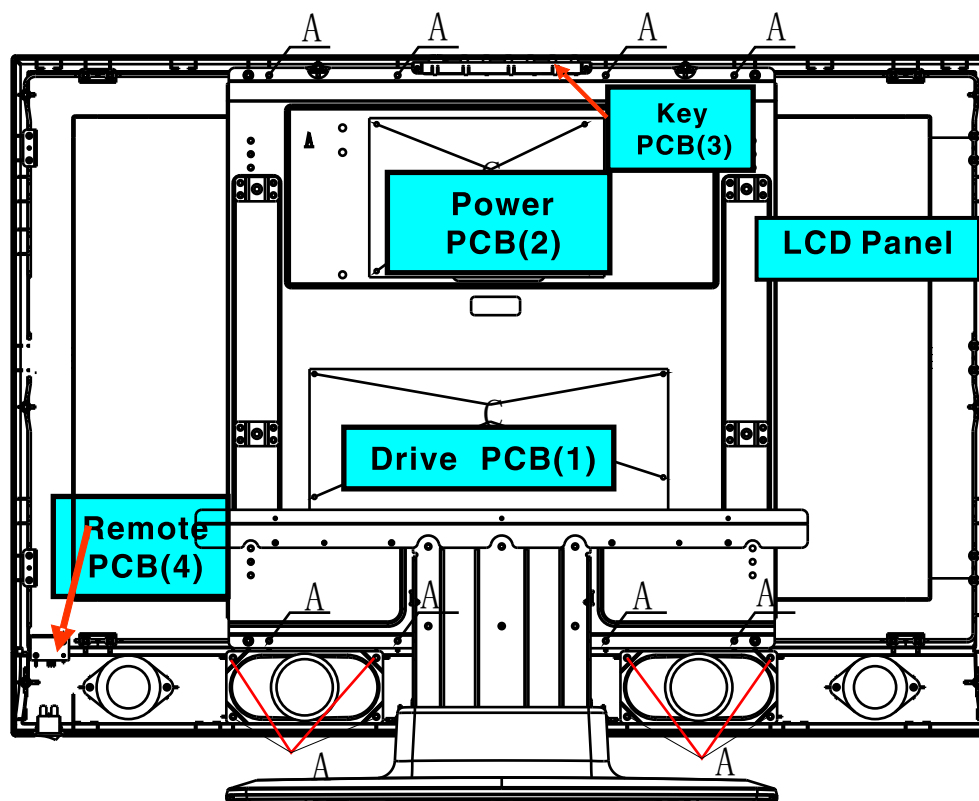
Disassembly the Framework(3)



2、TL32H610B

Disassemble PCB assembly and Front cabinet:

- 2.1、Uninstall the Connection cable with Drive PCB1、 Power PCB2、 Key PCB3、 Remote PCB4;
- 2.2、Unfasten 8 Screws of A (BST4×12)and take out the Front cabinet ;
- 2.3、Unfasten 4 screws of C (M3×6) and take out the Drive PCB1;
- 2.4、Unfasten 4 screws of C (M3×6) and take out the Power PCB2 ;
- 2.5、Unfasten 8 Screws of A (BST4×12) , remove the 2 speakers.

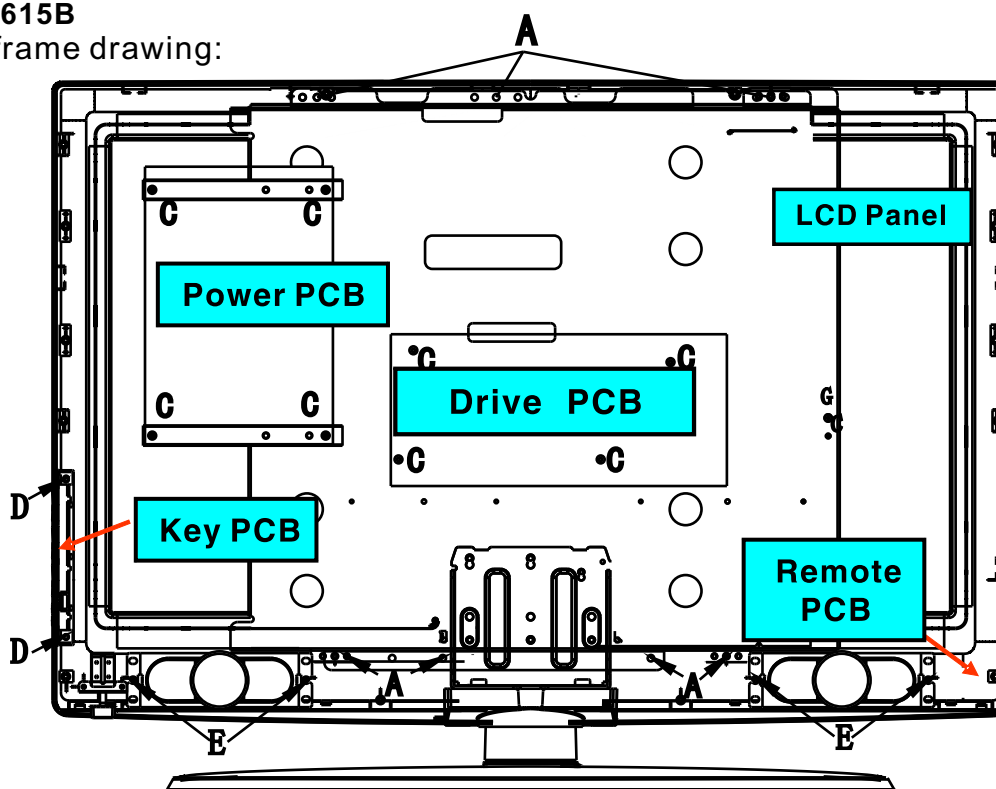


Warning : When Disassemble the Drive PCB and Power PCB , please be careful of avoiding the connector pins to be flexed.

Illustration of actual object(1)

TL26H615B

Inner frame drawing:



TL26H615B

Inner view:

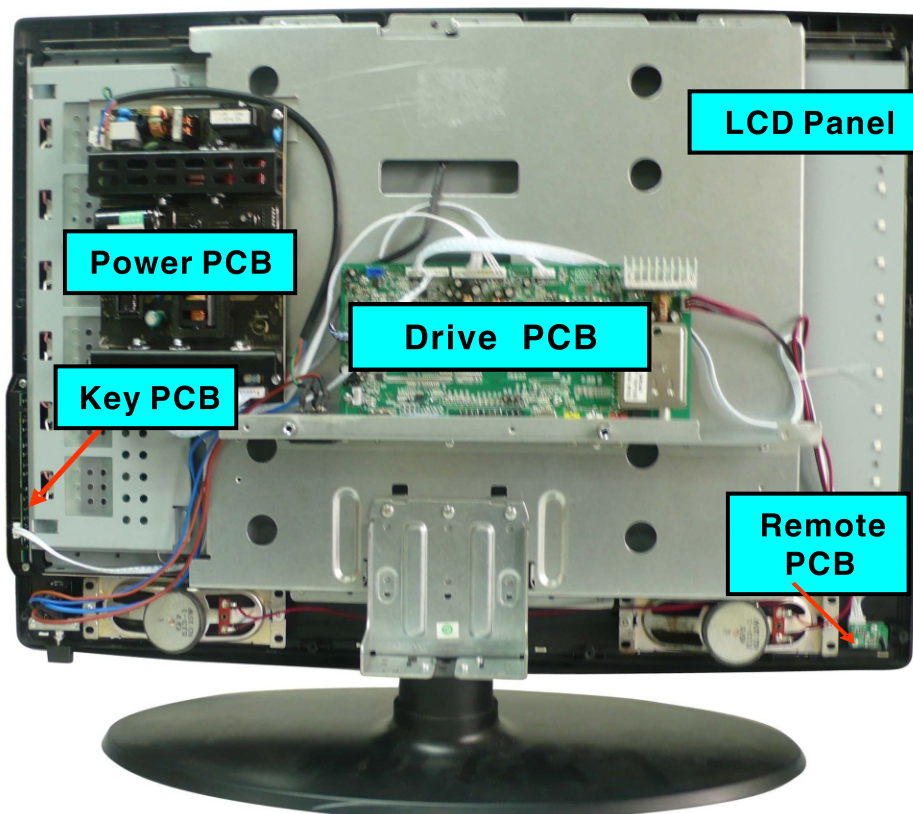
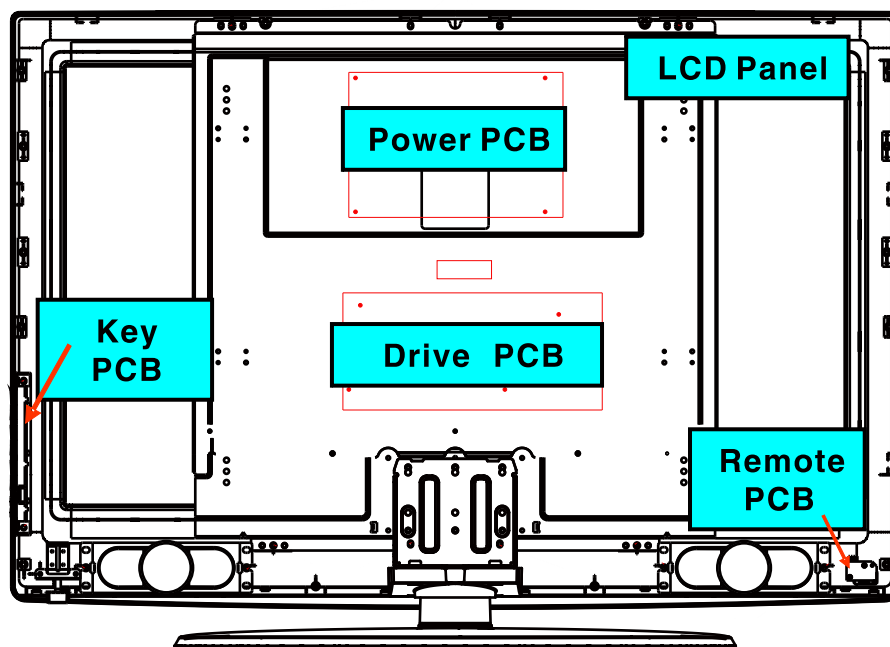


Illustration of actual object(2)

TL32H615B

Inner frame drawing:



TL32H615B

Inner view:

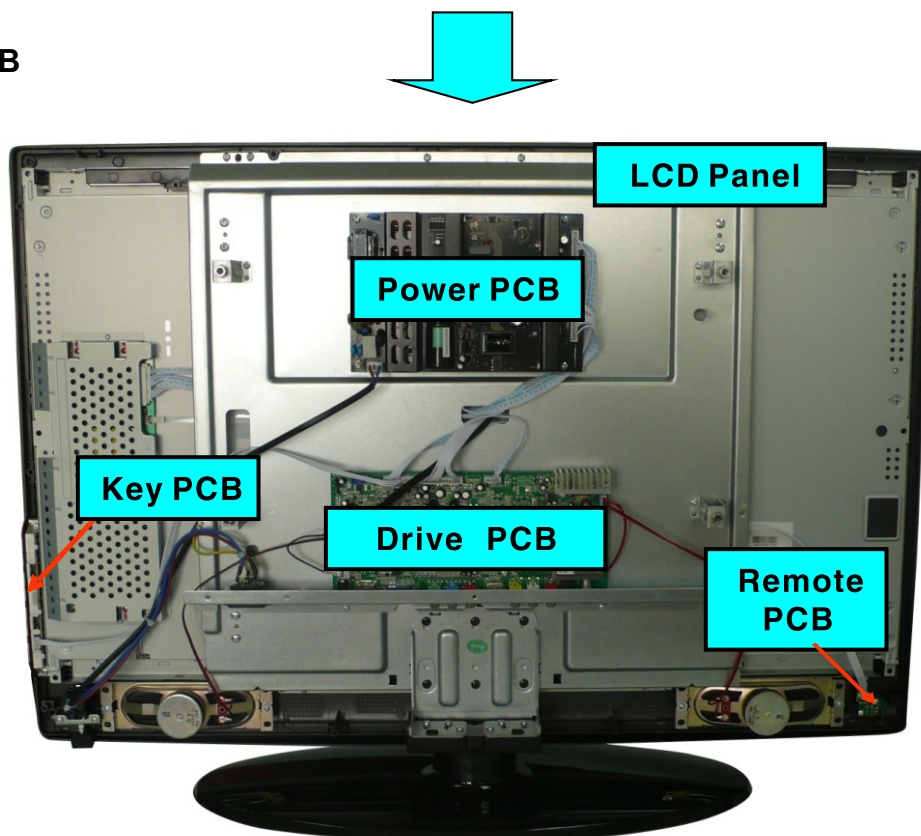
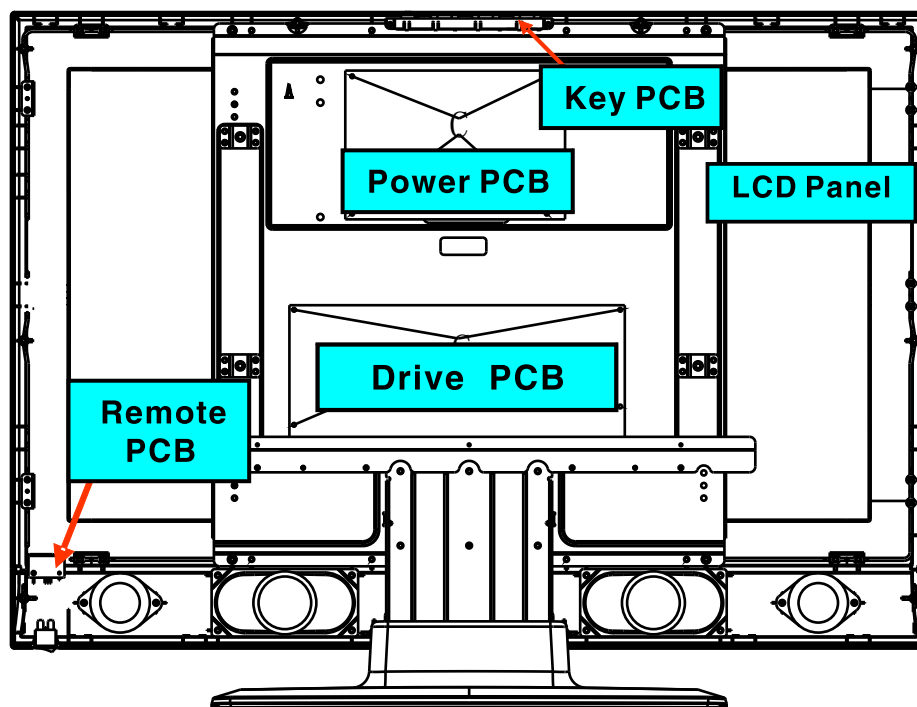


Illustration of actual object(3)

TL32H610B

Inner frame drawing:



TL32H610B

Inner view:

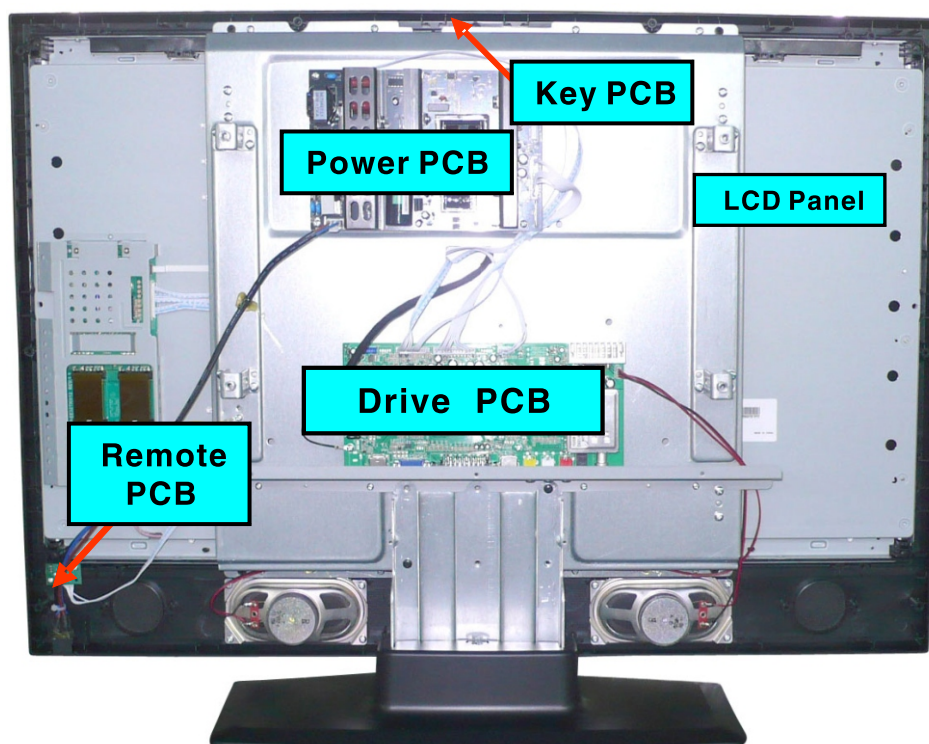
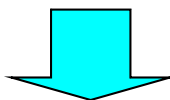


Illustration of actual object(4)

PCB name : Drive PCB (obverse)

Drive PCB Model No.:MST9E19V1.4

Function : TV、 AV 、 SCART、 VGA、 HDMI、 VIDEO、 S-VIDEO.

Signal decode processed:

- 1、 TV、 AV 、 SCART 、 VGA、 HDMI、 VIDEO、 S-VIDEO→ IC U4(decode CPU)
→ Display
- 2、 AUDIO→ IC U4(decode CPU)→ U60→ SPEAKER

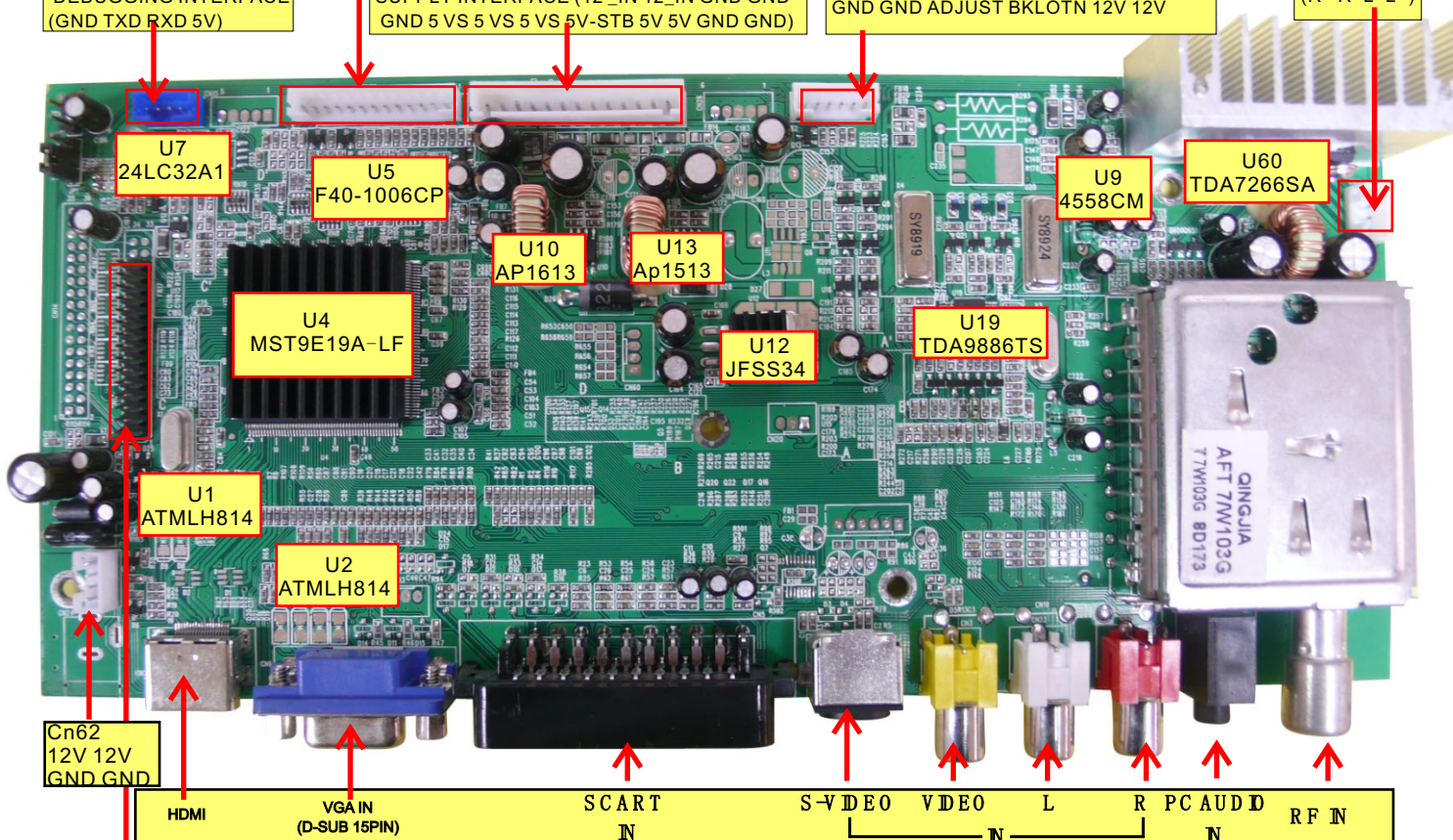
CN35(13PIN/2.0)IR+KEY BOARD
(CH- CH+ MENU AV/PC VOL- VOL+ GND
GREEN RED ON/OFF GND IR_IN IR_VCC)

CN16(4PIN/2.0) ATV
DEBUGGING INTERFACE
(GND TXD RXD 5V)

CN25 (13PIN/2.54) MAIN POWER
SUPPLY INTERFACE (12_IN 12_IN GND GND
GND 5 VS 5 VS 5 VS 5V-STB 5V 5V GND GND)

CN27 (6PIN/2.0) INVERTER INTERFACE
GND GND ADJUST BKLOTN 12V 12V

CN18
(R+ R- L- L+)



CN13(2*15PIN/2.0)LVDS PANEL INTERFACE
(PWR 5/3.3V PWR GND GND GND RTX0- RTX0+ RTX1-
RTX1+ RTX2- RTX2+ GND GND RXOC- RXOC+ RXO3-
RXO3+ RXE0- RXE0+ RXE1- RXE1+ RXE2- RXE2+ GND
GND RXEC- RXEC+ RXE3- RXE3+ RXE4- RXE4+ RXO4- RXO4+)

Illustration of actual object(5)

Power Board: TL26H615B/TL32H615B/TL32H610B (obverse)

Power Board model no. : MD0825LP133

FUNCTION : Supply direct voltage and current. Adopt controlling IC to supply voltage 24V\12V\5V separately.

Ac power be commutated → T2 5V voltage insulating transformer → SB5V/5V

Ac power be commutated → T1 24V voltage insulating transformer → 24V\12V

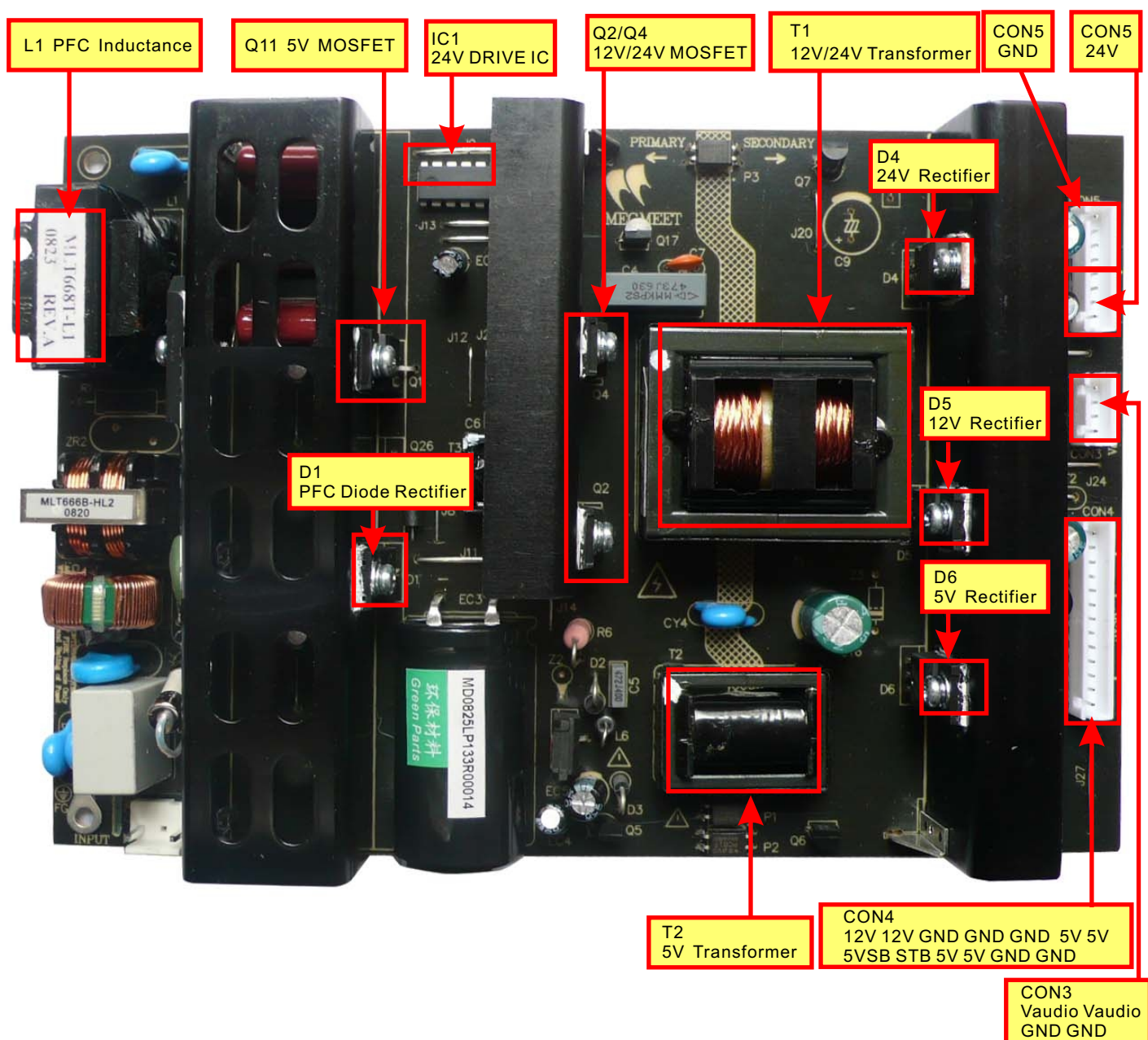
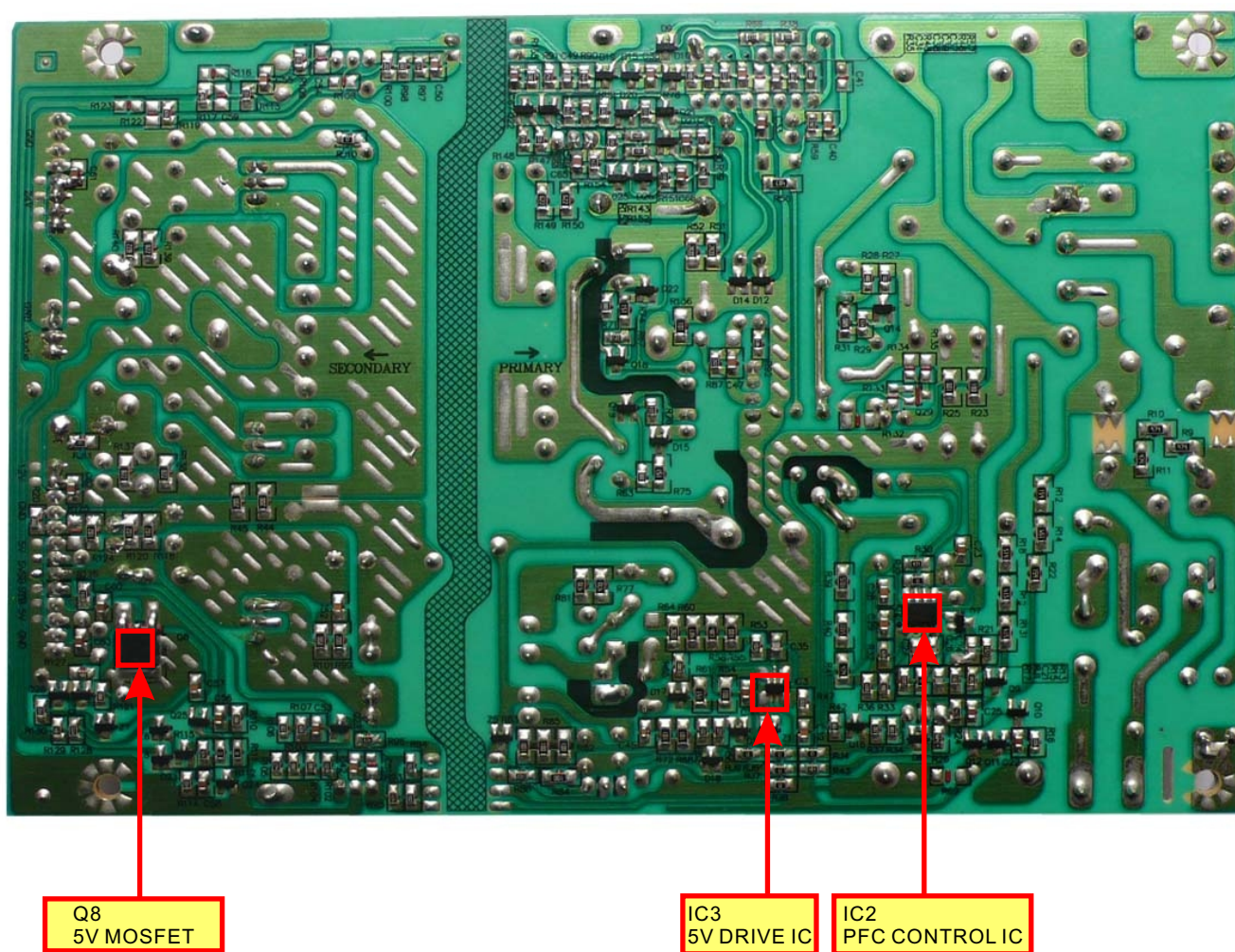


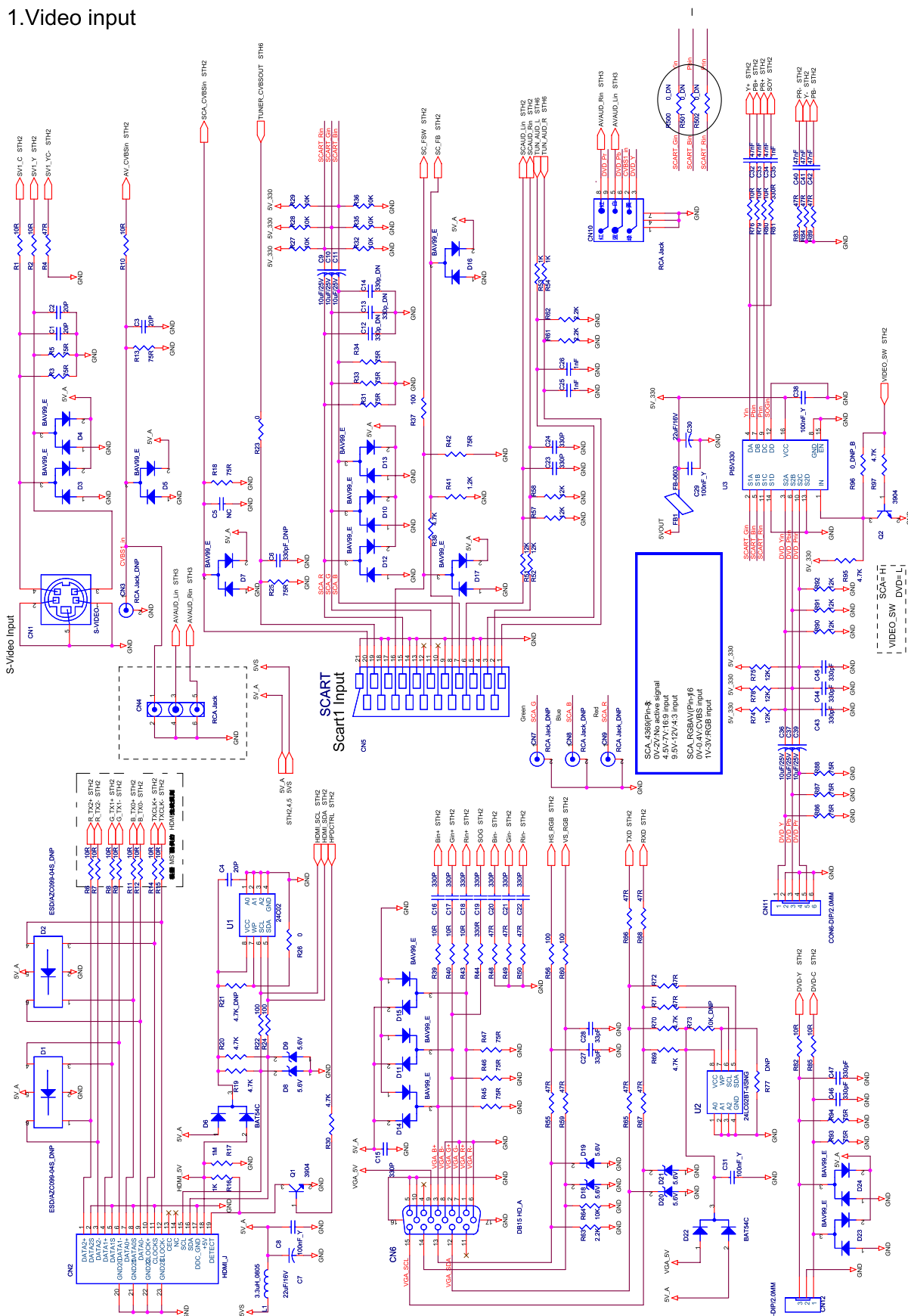
Illustration of actual object(6)

Power Board: TL26H615B/TL32H615B/TL32H610B(Rear)
Power Board model no. : MD0825LP133



Drive PCB Principle Diagram

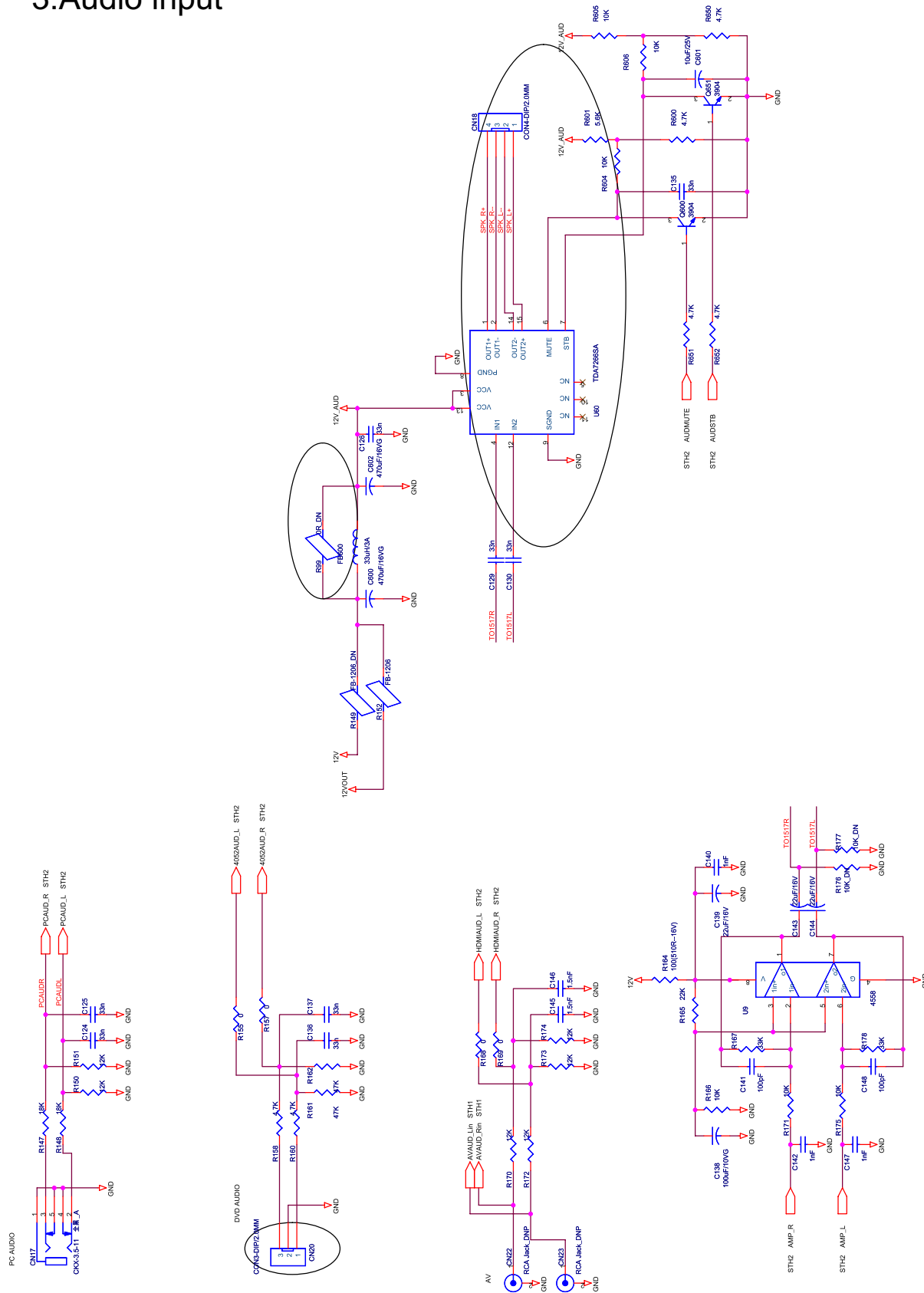
1.Video input



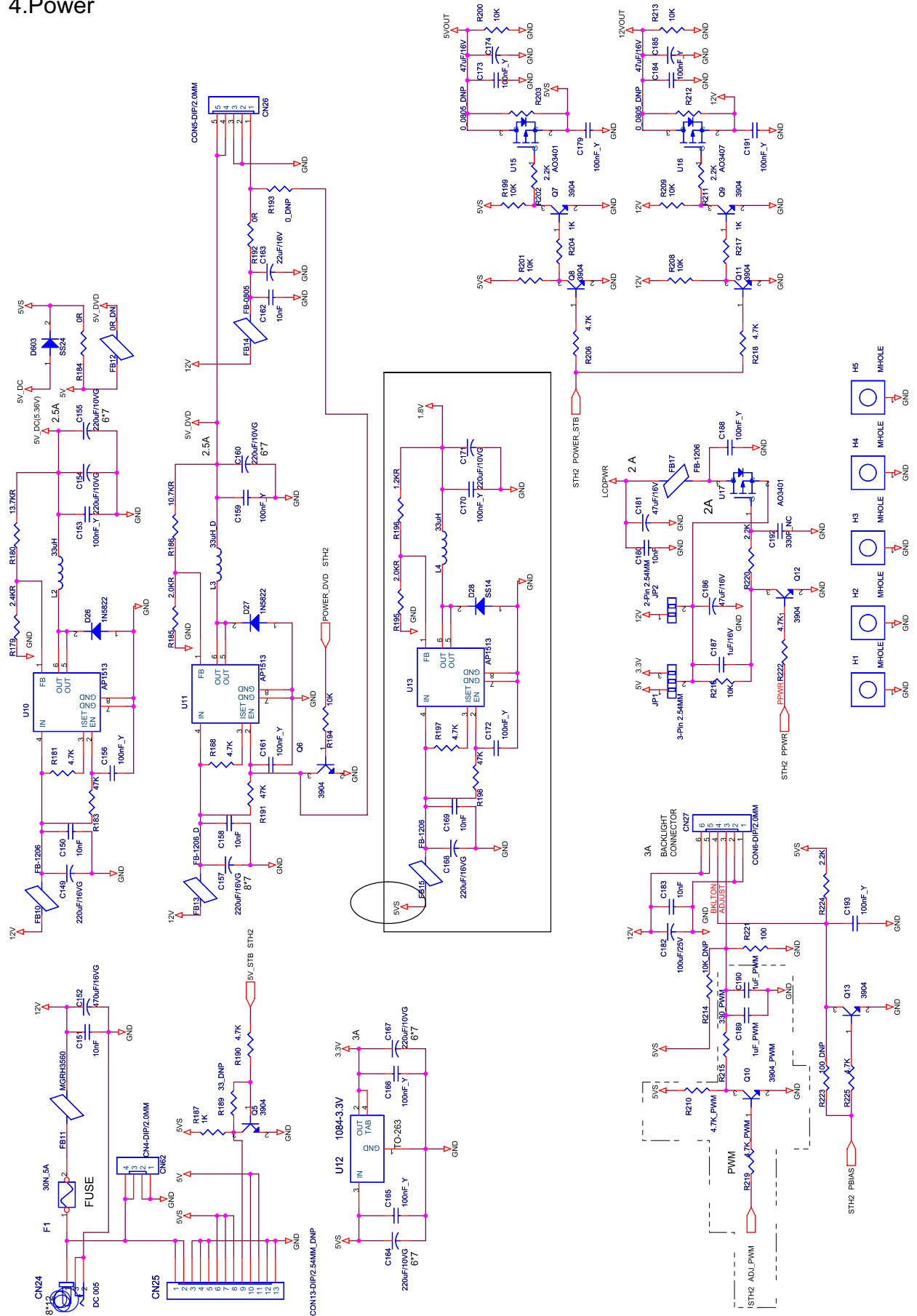
U4
MST9E19A



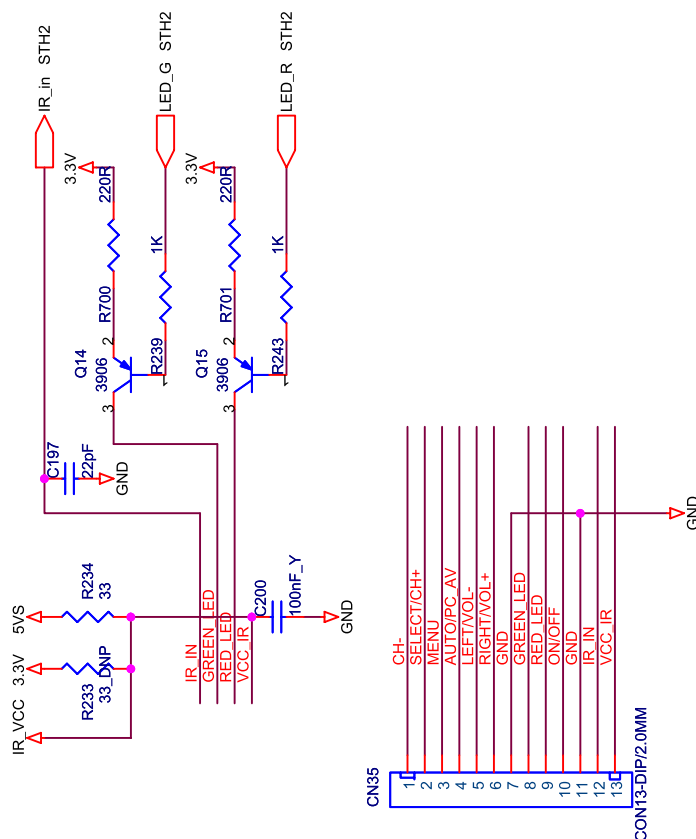
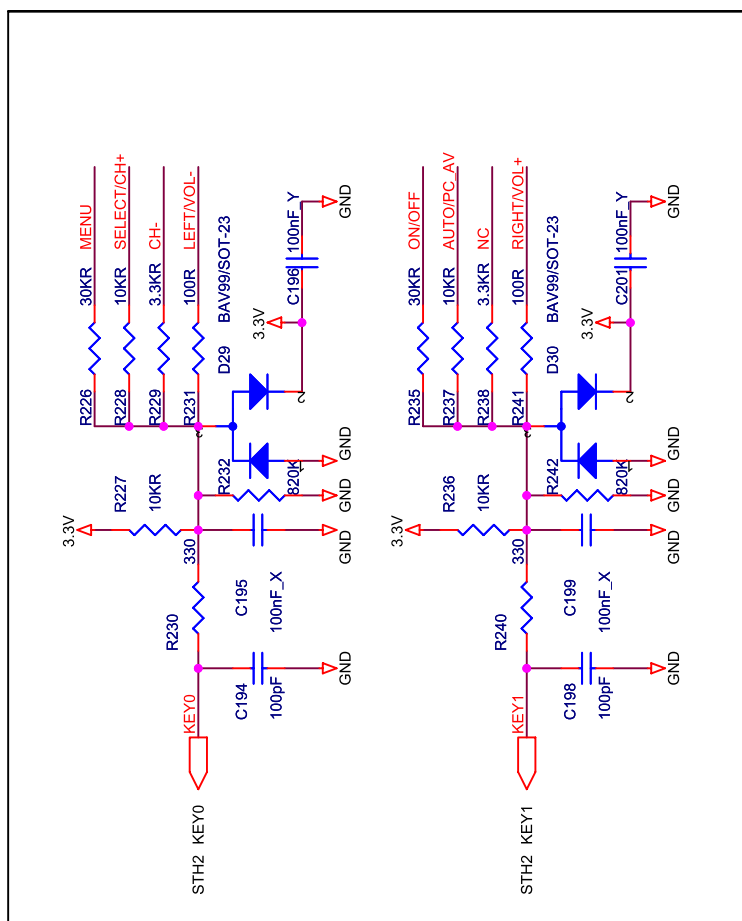
3.Audio input



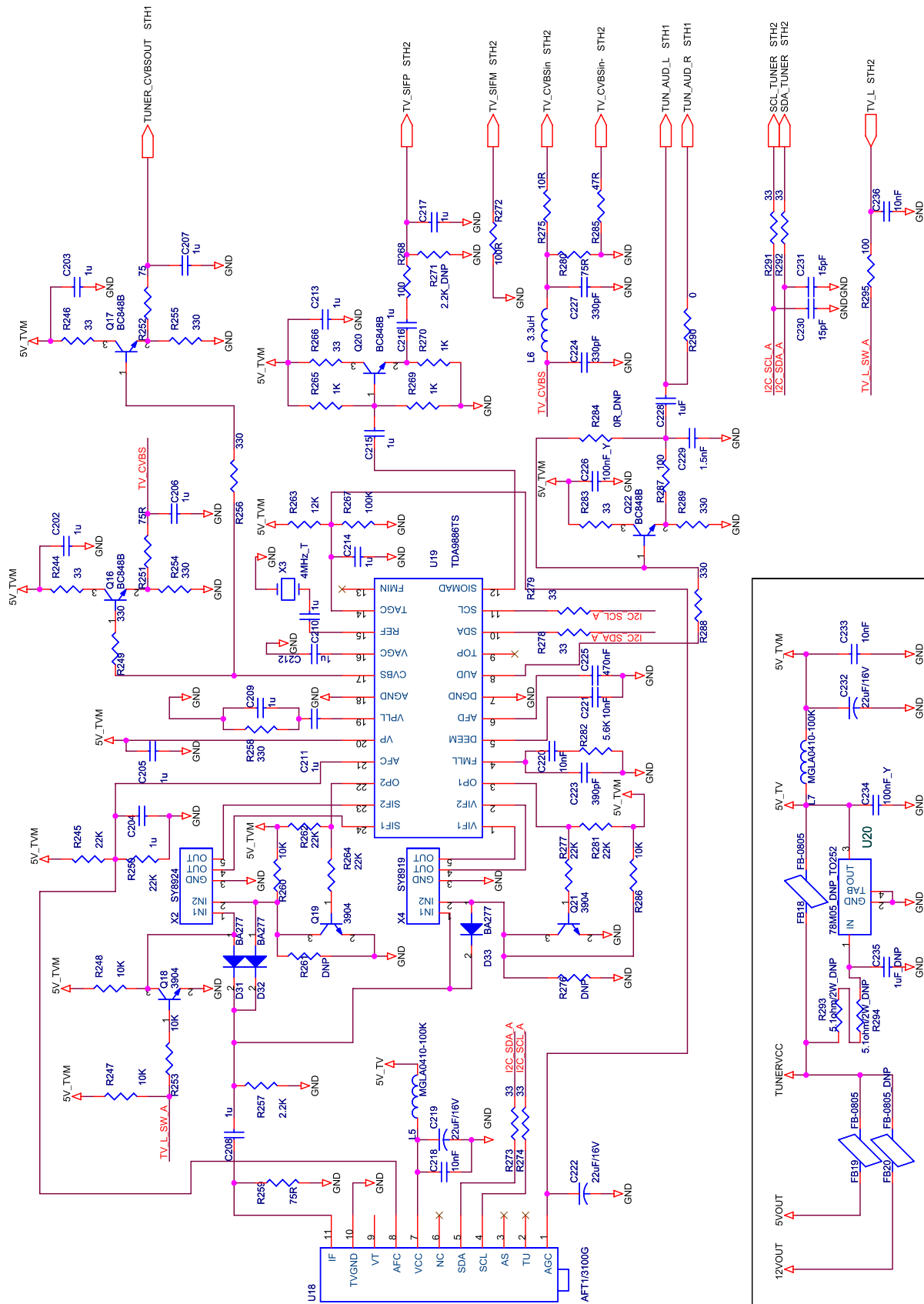
4.Power



5.RTC & Keypad



6.TUNER

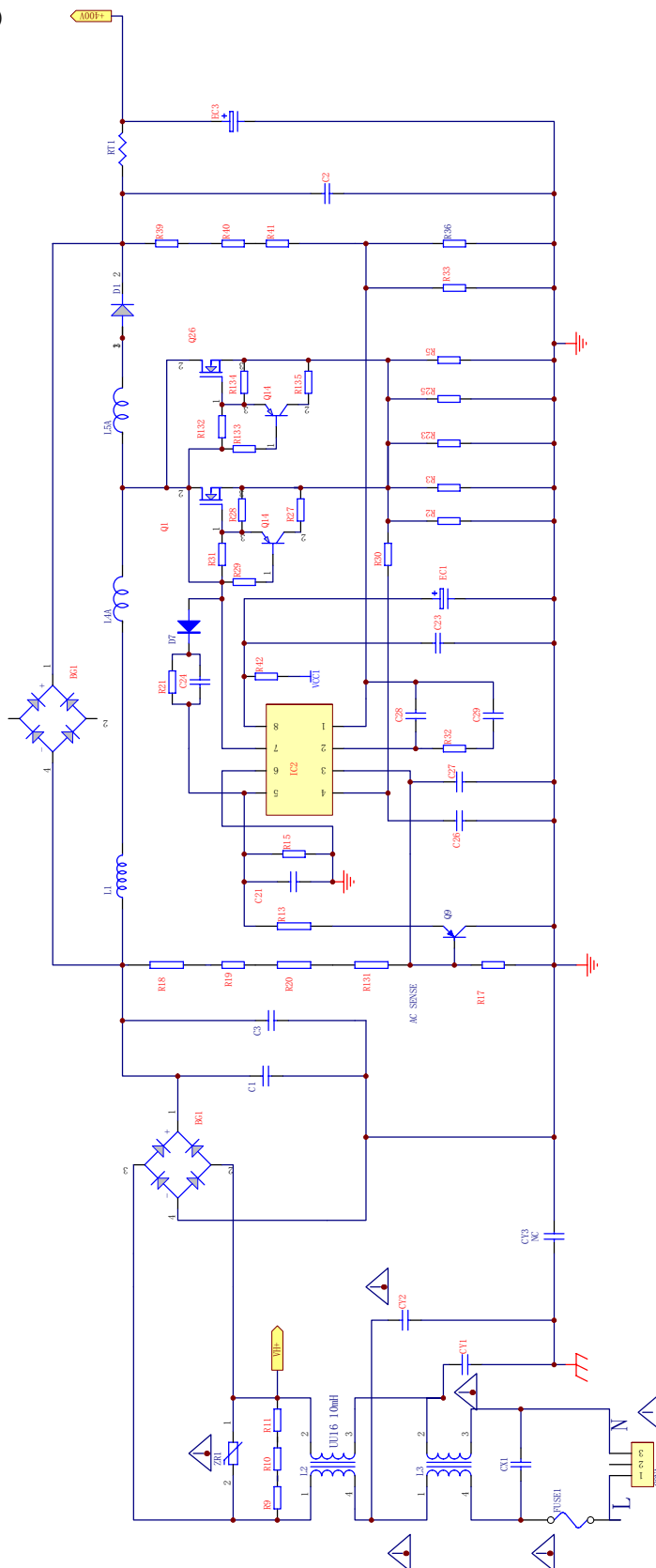


Power PCB Circuit Diagram

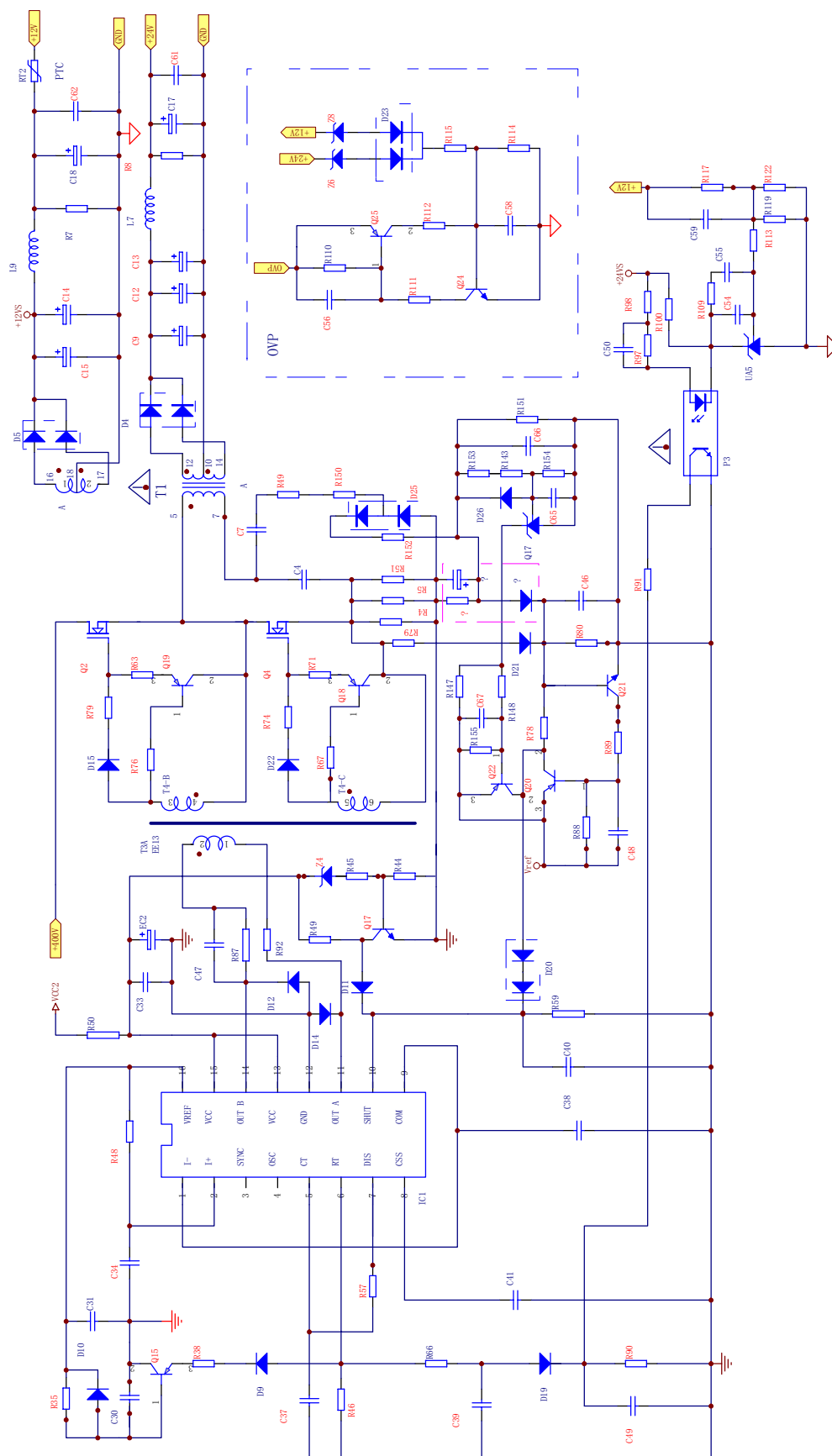
Power Board: TL26H615B/TL32H615B/TL32H610B

Power Board model no. : MD0825LP133

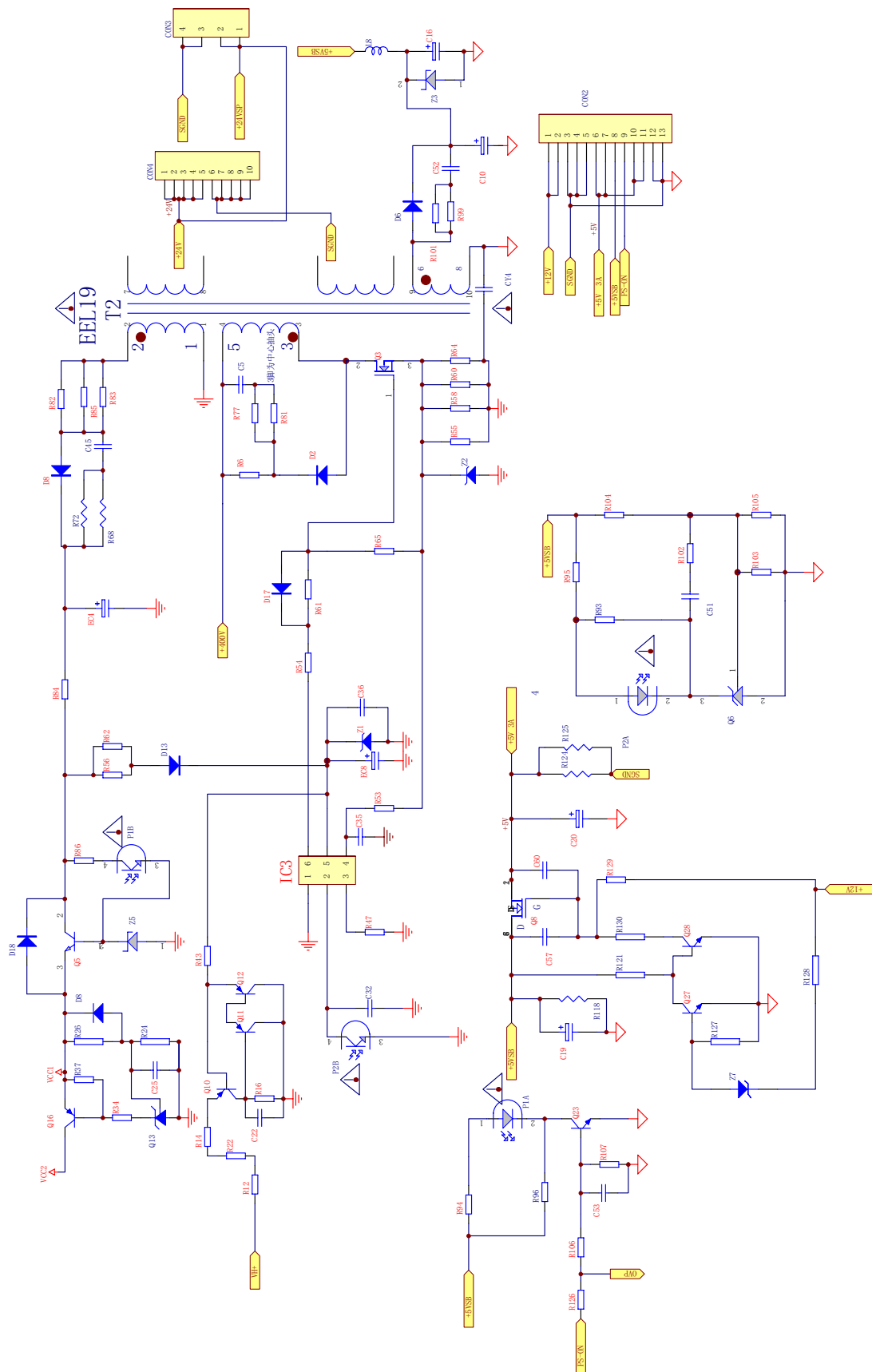
MD0825LP133 Schematic (1)



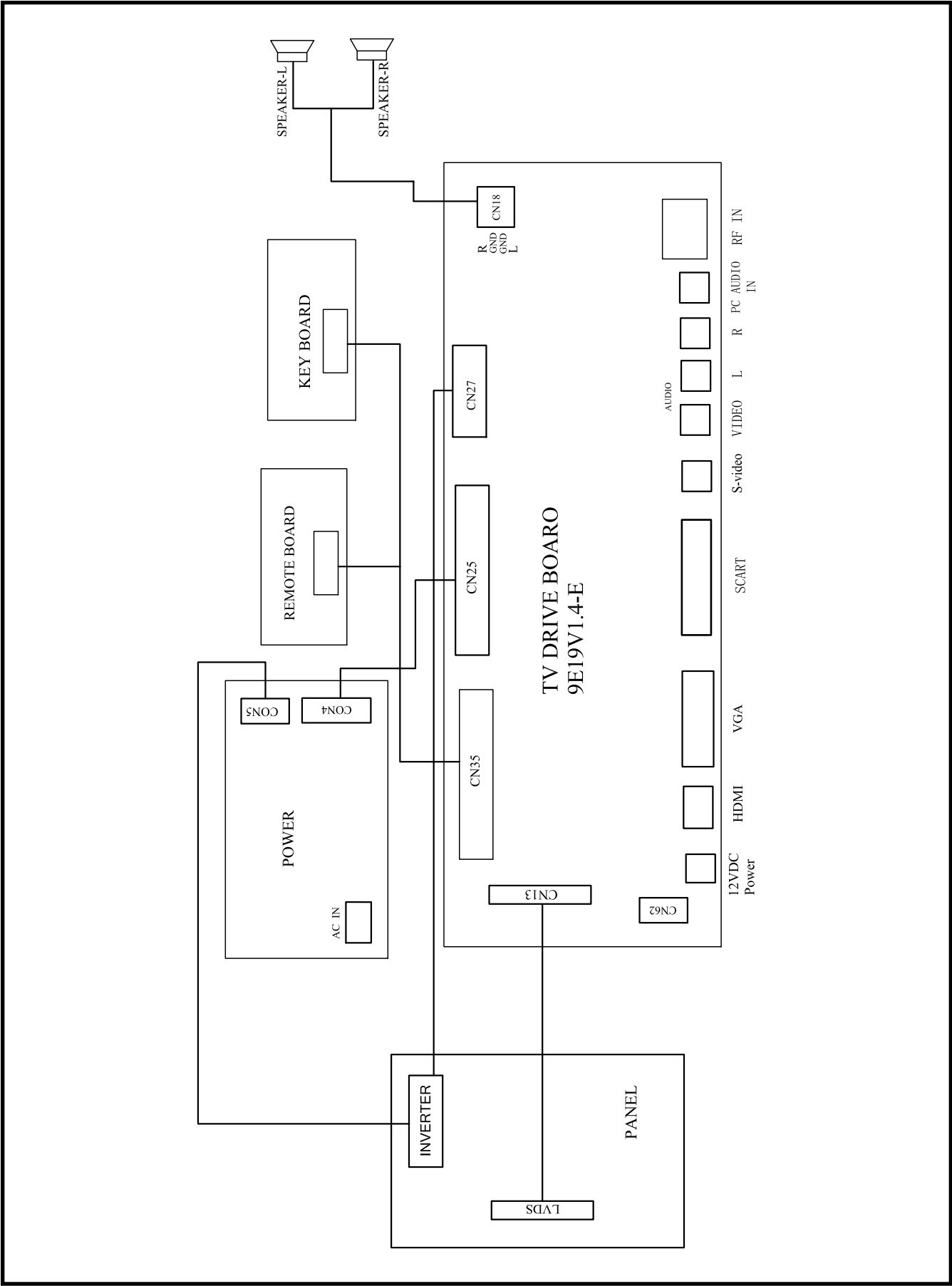
MD0825LP133 Schematic (2)



MD0825LP133 Schematic (3)

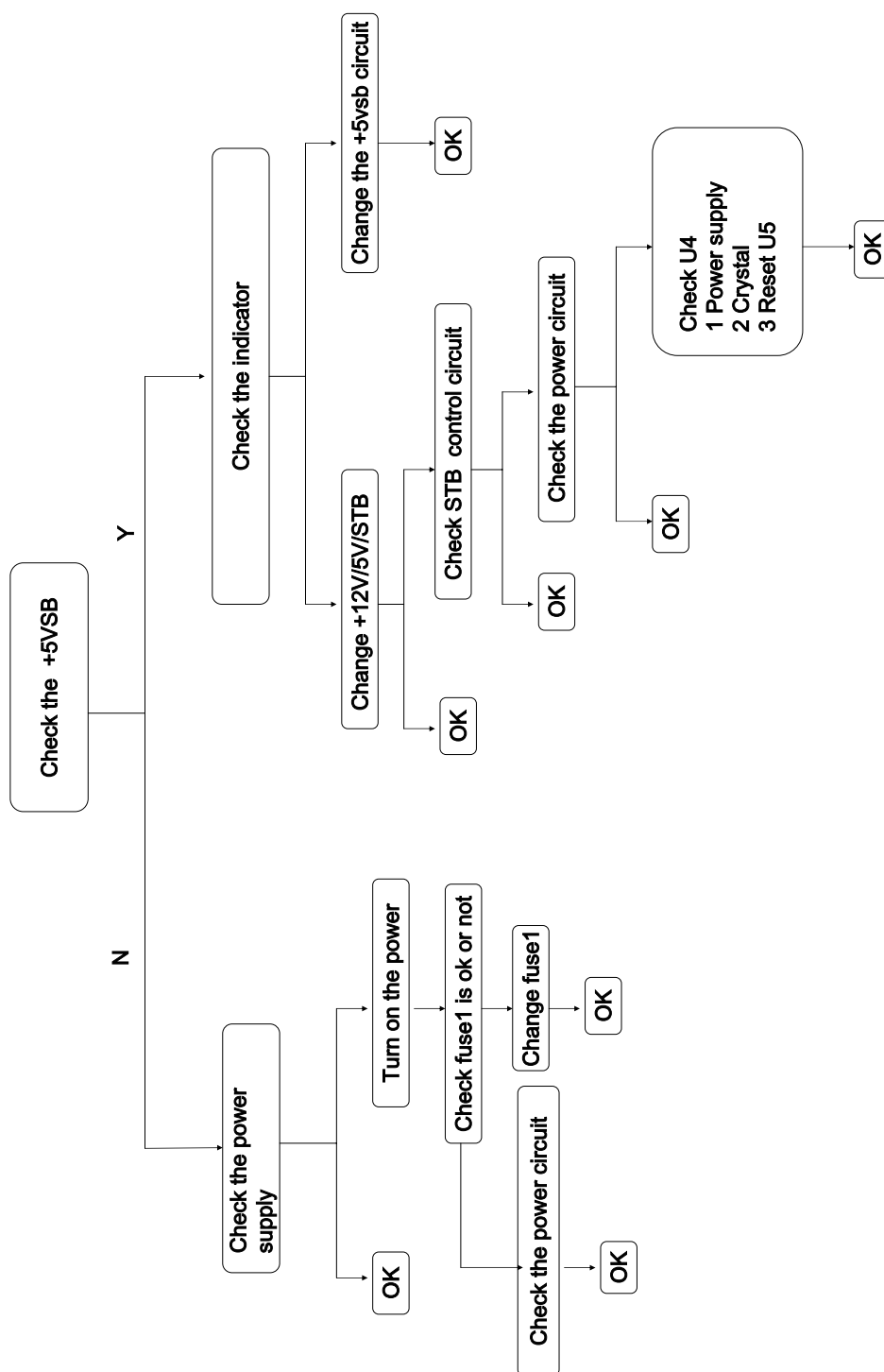


Drive PCB Block Diagram

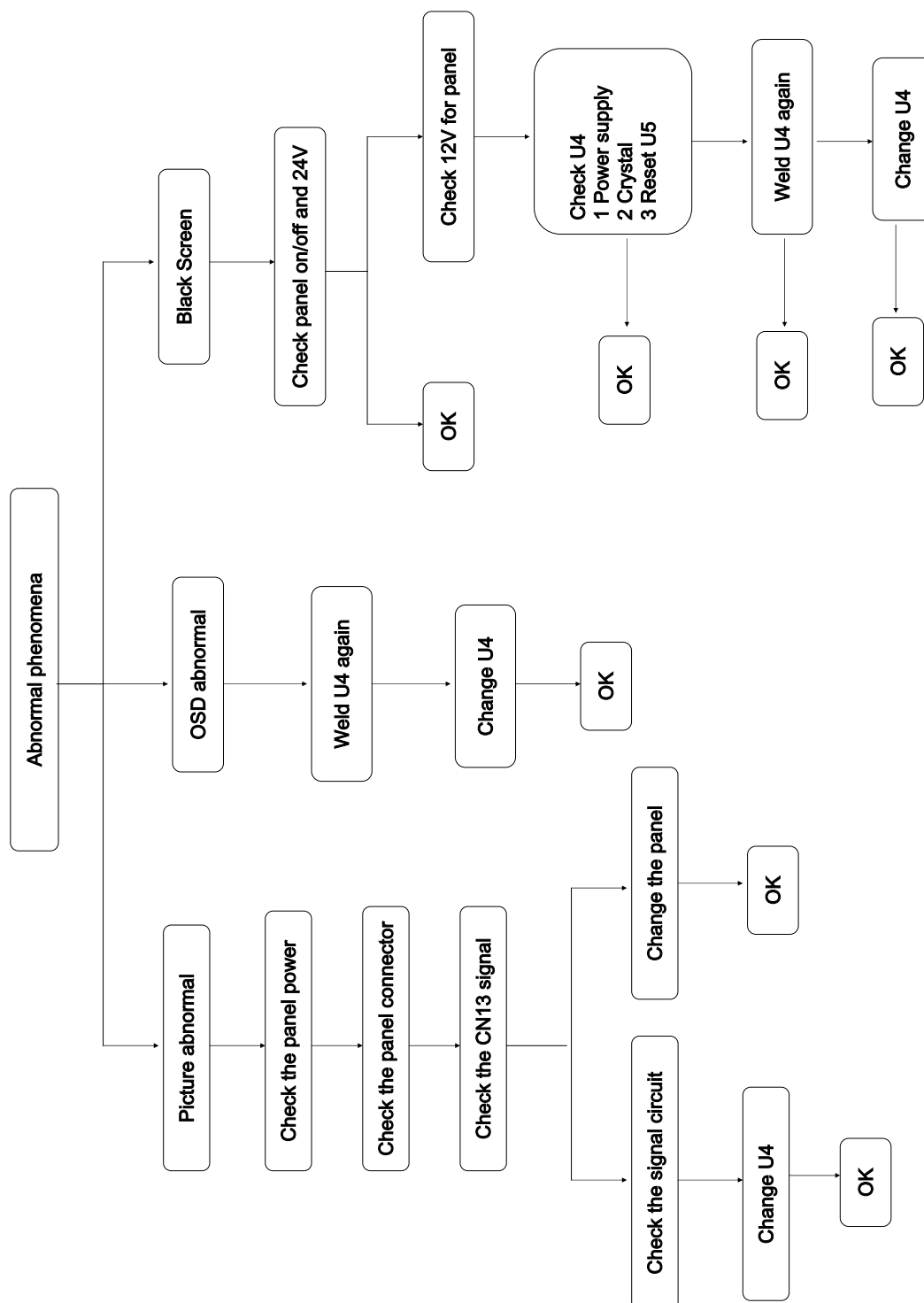


Trouble shooting Charts

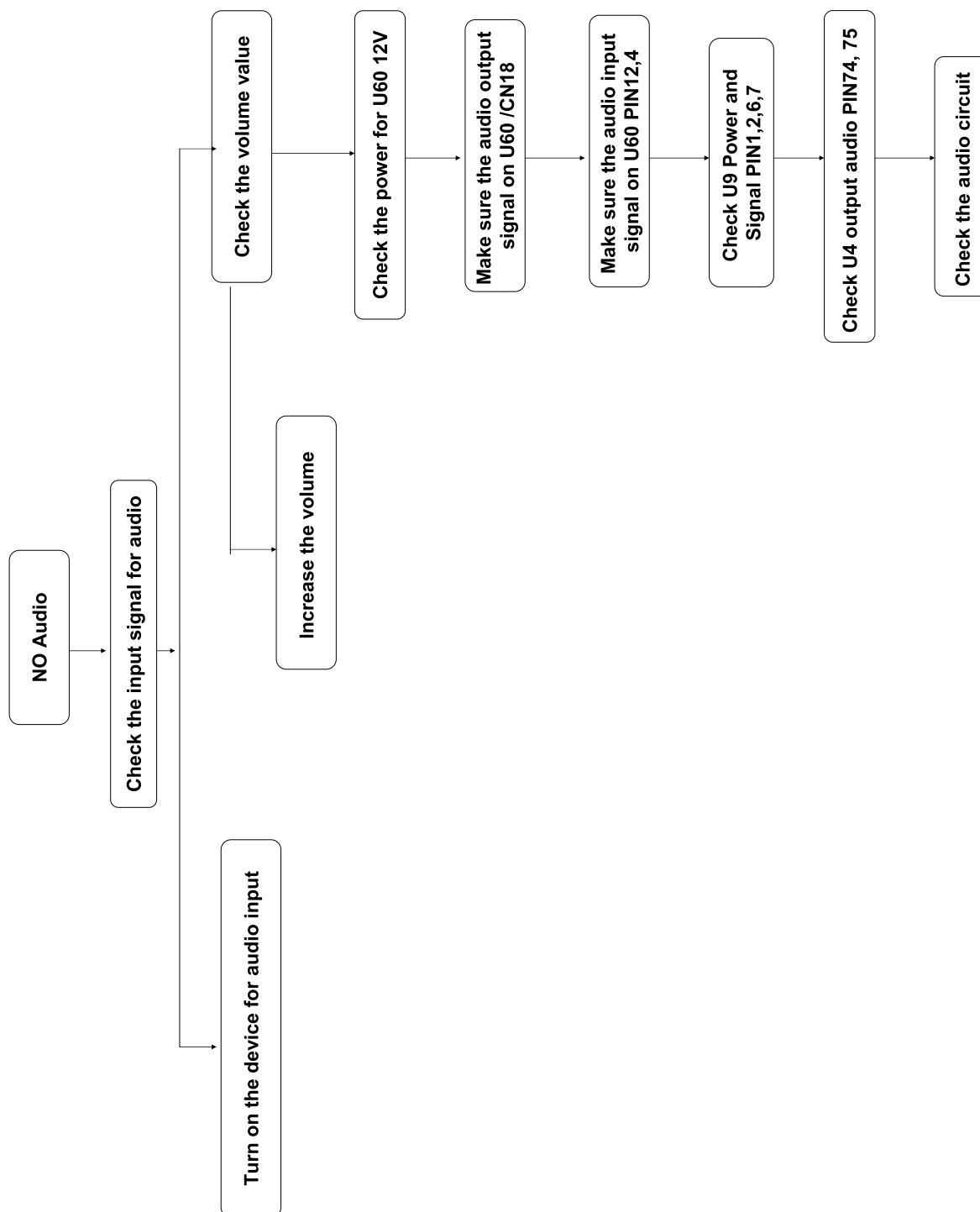
1.Power Supply Trouble



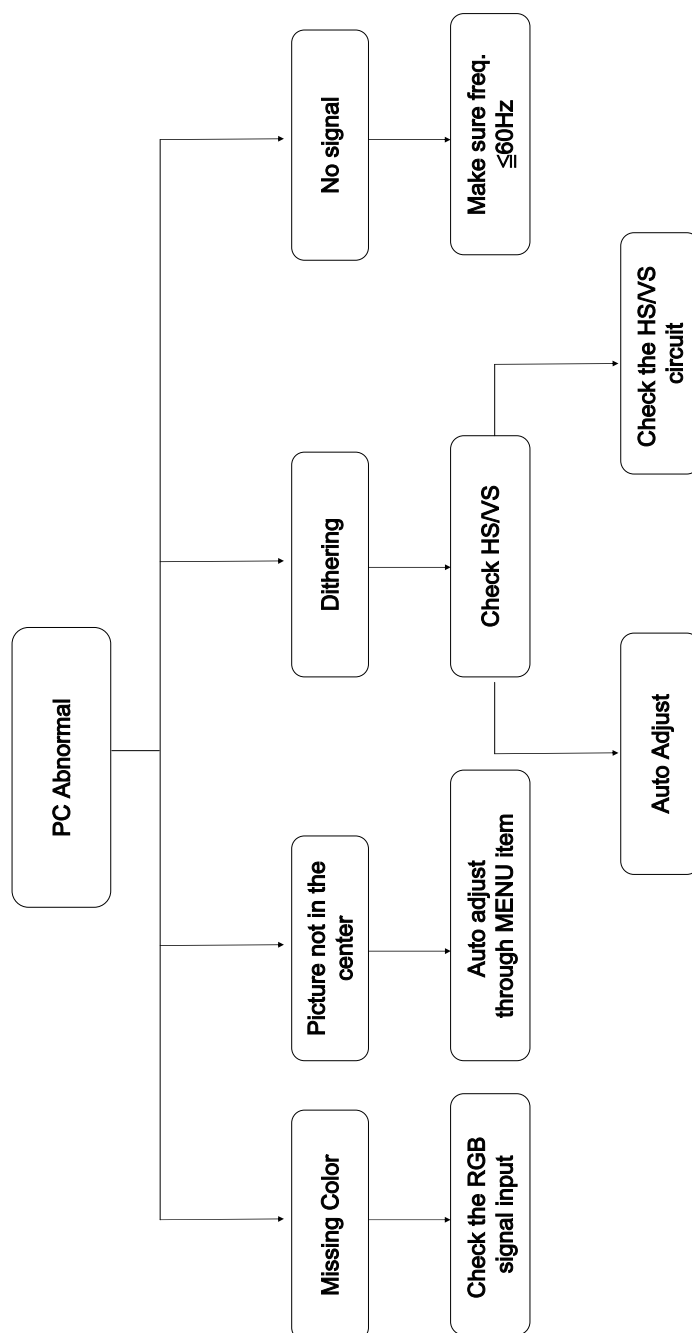
2. Abnormal screen



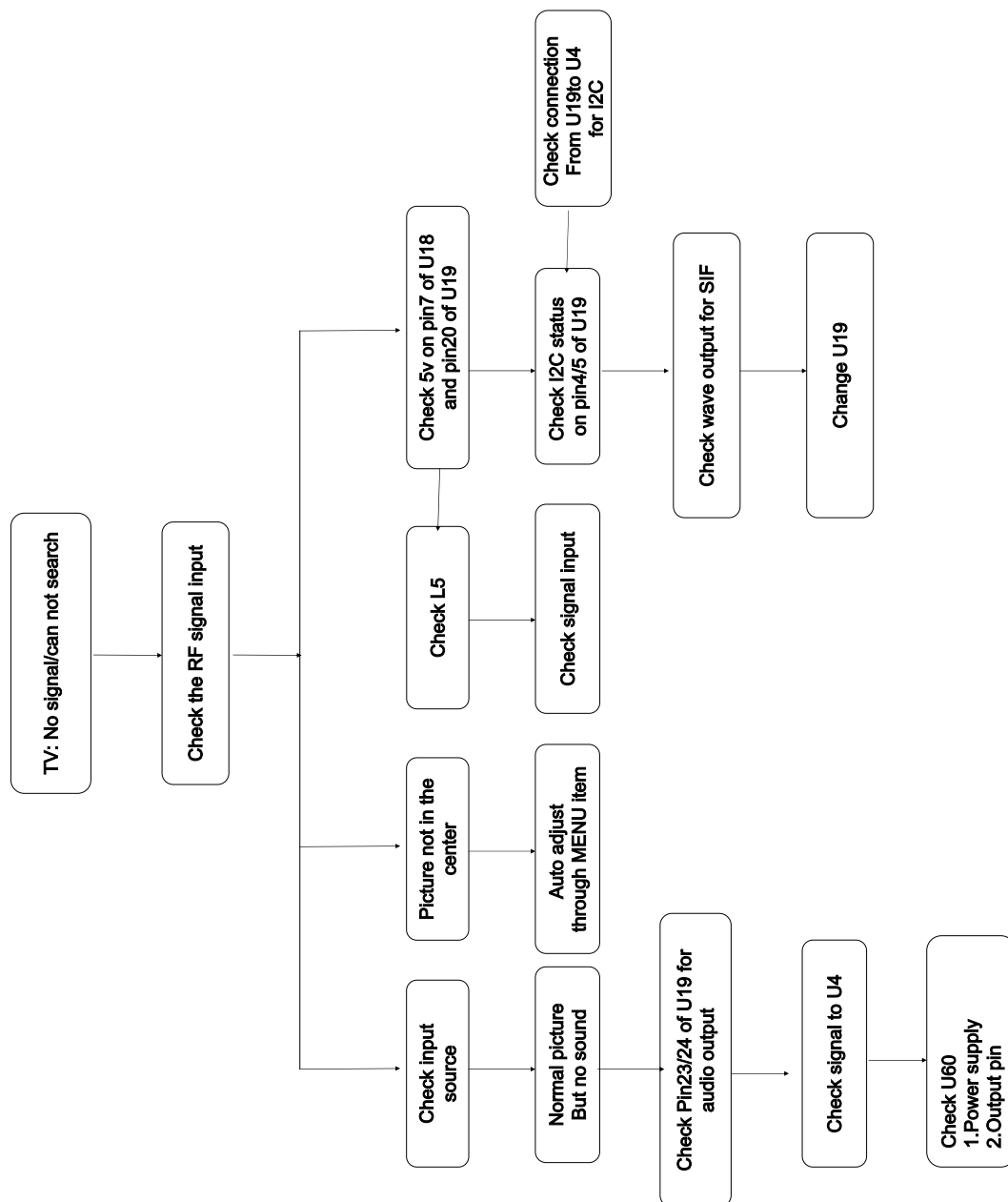
3 . Audio Trouble



4. PC



5 .TV



6 . NO SIGNAL

