

Service  
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# Service Manual

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## SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

## **Important Safety Notice**

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, AOC Company will be referred to as AOC.

### **WARNING**

Use of substitute replacement parts, which do not have the same, specified safety characteristics might create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.  
Servicer assumes all liability.

### FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiations when open AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

-Must mount the module using mounting holes arranged in four corners.

-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.

-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.

-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).

-Make certain that treatment person's body is grounded through wristband.

-Do not leave the module in high temperature and in areas of high humidity for a long time.

-Avoid contact with water as it may a short circuit within the module.

-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

## Revision List

## 1. General Specification

<b>Model</b>	LE32A3330/61	
<b>Panel Size</b>	800mm diagonal (32" viewable)	
<b>Resolution</b>	1366 x 768	
<b>TV System</b>	PAL, NTSC, SECAM; B/G, D/K, I	
<b>Speaker</b>	10W x 2	
<b>Antenna impedance</b>	75Ω	
<b>Input Voltage</b>	100-240V AC,50/60Hz	
<b>Power consumption</b>	55W	
<b>Standby power consumption</b>	<1W	
<b>RF input</b>	RF input x 1	
<b>Video/Audio terminals</b>	AV input x 1, Video output x 1	
<b>Component input</b>	Component input x 1	
<b>HDMI input</b>	HDMI input x 2	
<b>VGA terminals</b>	VGA (D-SUB 15 pin) input x 1 PC Audio input x 1	
<b>USB input</b>	USB input x 1	
<b>Audio output terminals</b>	Earphone output x 1	
<b>Size (W x H x D) (with base and stand) (mm)</b>	733 x 508 x 179	
<b>Size (W x H x D) (without base and stand) (mm)</b>	733 x 456 x 68	
<b>Weight</b>	8.2Kg (with stand and base) 7.7Kg (without stand and base)	
<b>Wall mount size</b>	100 x 200mm	
<b>Wall-Mount accessory</b>	Optional accessory and not included in standard package	
<b>Operating conditions</b>	<b>Temperature</b> <b>Humidity</b> <b>Altitude</b>	0°C to +40°C 10%~85% To 3,000m
<b>Storage conditions</b>	<b>Temperature</b> <b>Humidity</b> <b>Altitude</b>	-10°C to +50°C 5%~85% To 5,000m

### Notes:

- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

## 2. Operating Instructions

### 2.1 The Use of Remote Control

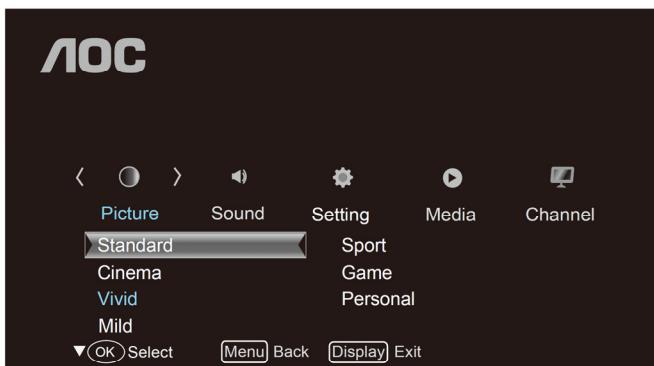


Button		Description
	POWER	Press to turn on and off the TV. The TV will not completely power off unless TV power cord is physically unplugged from the AC power supply.
	TV	Press to select TV source mode.
	AV/Ypbpr	Press repeatedly to choose AV or YPbPr source mode.
	HDMI/PC	Press repeatedly to choose HDMI or PC source mode directly.
	USB	Press to select USB source mode.
	0~9	Press any number key among 0-9 to select desired TV channel.
	-/-/-	Toggle the channel number bits to - (1 digit) / - (2 digits) / - - (3 digits) for faster switching of channels
	Back	Press to return back and display the previous channel or source.
	VOL+/-	Press this key to adjust the volume.
	Source	Press to show the list of available input sources,
	Mute	Press this key to mute TV sound. Press it again or press the volume + key to cancel mute.
	CH+/-	Press to scroll through the TV channels.
	Display	Press to show the information about the input source or TV channel.
	Sleep	Press to automatically turn off the TV to stand by mode after a preset period of time. Sleep timer can be set to off, 15, 30, 60, 90 & 120 minutes
	Zoom	Press to resize the aspect ratio of the picture or optimum viewing Available aspect ratio are: wide mode, normal mode, zoom 1, zoom 2; For computer input: normal mode and wide modes.
	Menu	Press to activate/exit OSD menu or return back to previous level of OSD;
	▲/▼/◀/▶	1. Press to navigate through OSD menu; 2. Press DOWN arrow key to enter into Sub menu from OSD Main menu; 3. TV mode: RIGHT/LEFT arrow keys function are the same as VOL+/-, and UP/DOWN arrow keys function are the same as CH+/-. 4. USB Media: Used for fast forward or rewind when music/video playback
	OK	1. Press to confirm the setting/selection of OSD menu functions. 2. TV mode: Press OK key to Display channel list or favorite channel. 3. USB mode: Press OK key to dispaly media setting function menu while playing Video/Music/Photo/Text files.
	Red	Hotkeys, these keys can execute the action according to the OSD info. 1.TV mode: Channel menu <b>Red:</b> Press to mark selected channel as Favorite. <b>Green:</b> Press to Skip the selected channel from the list. <b>Yellow:</b> Press to Lock the selected channel from the list. <b>Blue:</b> Press to Delete the selected channel from the list.
	Green	
	Yellow	
	Blue	2.USB mode: Photo play:Press <b>Red/Green</b> key to rotate image, <b>Yellow</b> key to display image info and <b>Blue</b> key to set slide time. Music/Video play:Press <b>Red</b> key to change repeat mode.
	Freeze	Press to freeze the current picture frame while the TV is operating in TV, AV, Component, HDMI input source.
	Picture	Press repeatedly to select required pre-defined picture modes.
	Audio	Press repeatedly to select required pre-defined sound modes.
	MTS*	No function.
	Previous	USB mode:Press to play back to the previous music track/photo slide/video
	Play/Pause	USB mode:Press to START/PAUSE playing photo slideshow/ music/video playback
	Stop	USB mode: Press to STOP playing photo slideshow/ music playback/video play and go back to the previous menu.
	Next	USB mode: Press to play the next music track/photo slide/video file.

## 2.2 To Use the Menus

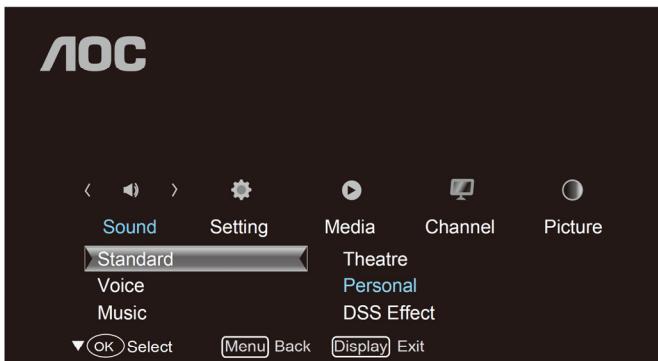
	Press the MENU button to display main menu.
	Press the ▲/▼/◀/▶ button to select required menu  icon for picture setup,  icon for sound setup,  icon for feature setup,  icon for Channel setup and  icon for USB media setup.
	Press the ▼/▲ and ◀/▶ button to select the desired menu item and then press the OK for entering into the sub menus.
	Follow sub-menu operations and the detailed description refer to the table under each settings description.
	Press the MENU button return to previous menu.

### Picture Setting



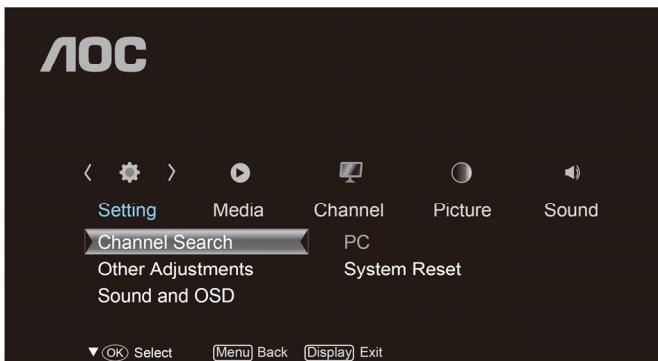
Main menu	Sub Menu Functions	Description
Standard		For standard picture settings. Recommended for home entertainment.
Cinema		For viewing film-based content. Most suitable for viewing in a theater like environment
Vivid		For Enhances picture contrast and sharpness.
Mild		Optimizes video for viewing more mild.
Sport		Optimizes video for watching sports event.
Game		Optimizes video for playing game and entertainment content.
Personal	Brightness	Brightens or darkens the picture.
	Contrast	Increases or decreases picture contrast.
	Color	To add or reduce color.
	Tint	Video tint adjustment ,Can only select with NTSC signal.
	Sharpness	To improve details. Not available in PC mode /HDMI mode.
	Backlight	Control the brightness of the backlight from 0 to 100. Lower the backlight value brightness is low and Higher the backlight value higher the brightness.
	Color Temp.	Select the color temperature as Cool/ Normal/ Warm.

## Sound Setting



Main menu	Sub Menu Functions	Description
<b>Standard</b>		For standard quality sound with treble and bass at medium level
<b>Voice</b>		Suitable for spoken dialog.
<b>Music</b>		Enhance treble and bass and optimizes sound for listening to music
<b>Theatre</b>		Optimizes sound for watching movie content.
<b>Personal</b>	Balance	Adjust the balance between left and right speakers to adapt to your listening position.
	120Hz	
	500Hz	Adjusts the level of specific bandwidth frequencies to get customized sound quality.
	1.5KHz	Increase 120Hz bandwidth frequency increases Bass in sound
	5KHz	Increase in 10KHz bandwidth frequency increases Treble in sound.
	10KHz	Change middle frequency bandwidth (1.5KHz) to vary Voice content in sound.
<b>DSS Effect</b>		TV provides surround sound effect with rich bass and clear dialog when DSS effect is On.

## Setting Menu



Main menu	Sub Menu Functions	Description
<b>Channel Search</b>	Auto Search, Update Search, Manual Search	Please refer to "Channel Search" (p19,p20) for details.
<b>Other Adjustments</b>	Password Setting ,TV Lock, Blue Screen,Sleep Time, Zoom, Noise Reduction, DCR, DCC	Please refer to "Other Adjustments" (p21) for details.
<b>Sound and OSD</b>	Language, Menu Transparency, Menu Timeout, AVL	Please refer to "Sound and OSD" (p22) for details.
<b>PC</b>	Auto Adjust, H.Position, V.Position, Phase and Clock	Please refer to "PC setup" (p23) for details.
<b>System Reset</b>		You can restore the factory default picture and sound settings of your TV. The channel settings and TV lock remains the same.

## Channel Search

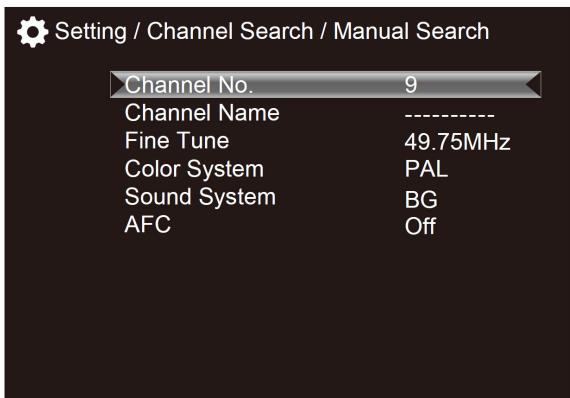
Note: This setting is only available in TV mode.



Main menu	Description
<b>Auto Search</b>	TV automatically searches for the channel in the available frequency band and stores sequentially. 1.Select <b>Channel Search</b> menu. 2.Select Auto Search and press <b>OK</b> key or ► arrow key to tune channels automatically and store. 3.During auto searching Press <b>Menu</b> key to stop search.
<b>Update Search</b>	Updates your channel list by adding new/missed channels to the end of the list without disturbing previously stored channels. Updated Search can be done when Auto Search is interrupted before searching all channels. It takes same time as auto search.
<b>Manual Search</b>	Search for the channels manually and store it to the desired channel number. It can also be used for editing of channels searched by auto search if required. Please refer to "Manual Search description" in next page for details.

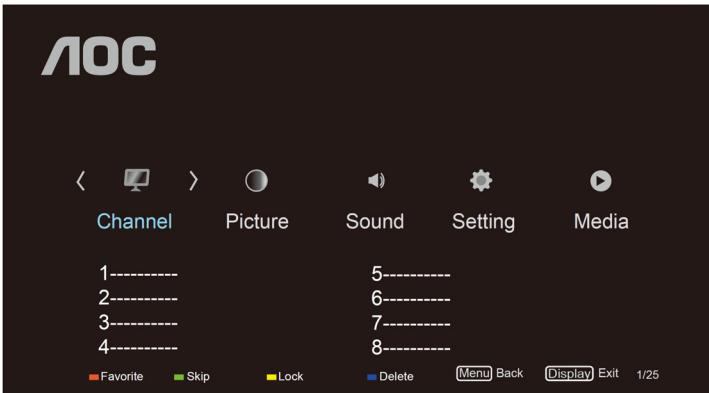
## Manual search description

1. Select Channel Search menu.
2. Select Manual Search and press OK key or ► arrow key to get Manual search sub-menu



Menu Function	Description
Channel No.	Press the ◀/▶ arrow button to select desired channel number.
Channel Name	To Enter a name for the selected channel. Press ► arrow button and then press ▲/▼ arrow button to select a character. Press ► arrow to move the cursor to next position. Program Name can be a word of maximum 5 characters. To confirm the name press <b>Menu</b> button.
Fine Tune	Press ◀/▶ button to manually search the desired channel. Press Menu button to store the searched channel to specified channel number.
Color System	Press the ◀/▶ button to select the required Color system. Available color systems are [Auto], [PAL], [NTSC] and [SECAM]. India region: Auto or PAL must be selected as the color system. Tips: Skip this step if your system setting is correct.
Sound System	Press the ◀/▶ button to select the required Sound system Available sound systems are [BG], [I] , [DK] and [MN]. India region: Auto or BG must be selected as the sound system. Tips: Skip this step if your system setting is correct.
AFC	Automatic Frequency Control: Reduces the tuning error of a TV tuner by automatically fine tuning the TV tuner to desired channel. By default AFC is On.

## Channel Edit Menu



In these case the shortcut key like Red key,Green key,Yellow key,Blue key action as below.

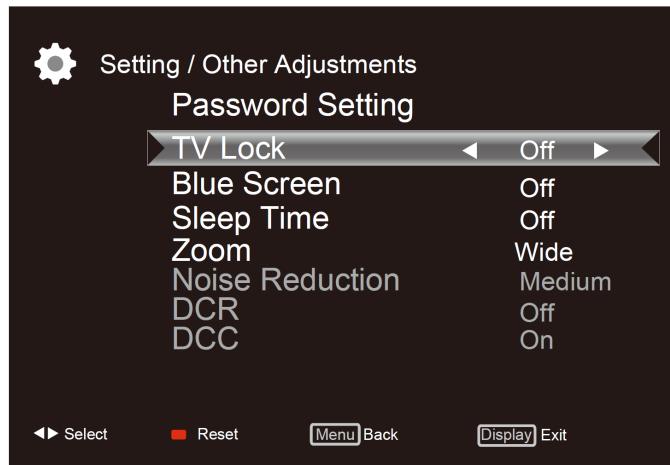
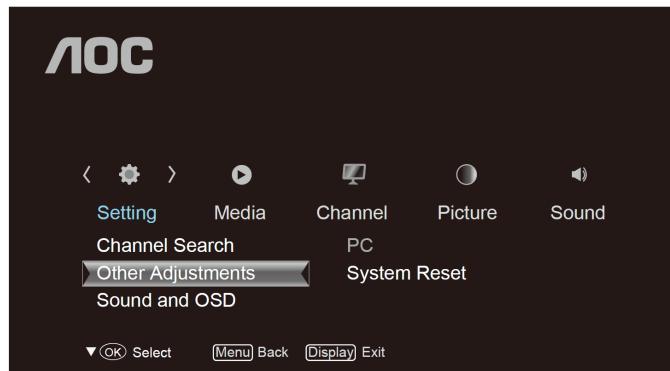
Red key:To set the channel as user's favorite channel.

Green key:To skip the channel and you will not find this channel by press ch+/- key to change channel.

Yellow key:To lock the channel and user will get the channel only by entering the password.

Blue key:To delete the channel and user will get the channel only by re-searching the channel.

## Other Adjustments

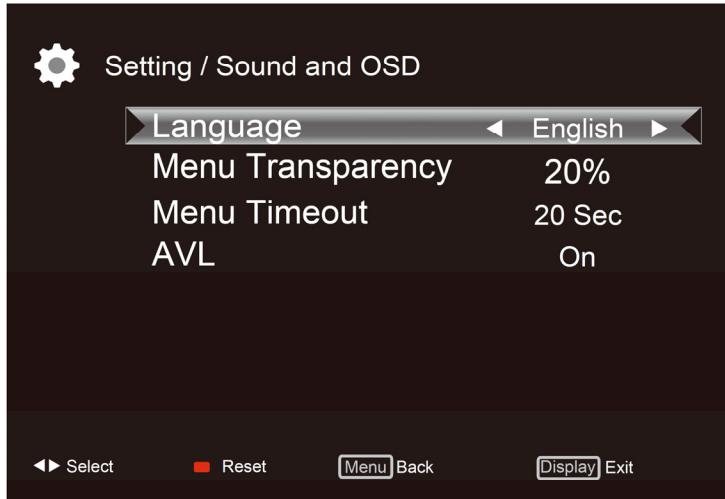


Menu Functions	Description
Password Setting	The initial password for AOC is 0000. You can change the password to any 4-digit number of your choice. A super password 3448 is pre-defined to enter into child lock setup function in case you have forgotten the password.
TV Lock	You can restrict access of the Channel Search menu, so that initial tuned channels are not disturbed by the unauthorized users. Access to locked channels in channel edit menu will be denied only when TV lock is On. How to enable the TV lock? 1. Select the TV lock ON. 2. Turn off the TV. 3. Turn ON the TV, now TV lock is enabled.
Blue Screen	To select the transition type required while changing from one channel to another Select <b>Off</b> : Blank signal will appear while changing the channel. Select <b>On</b> : Blue screen will appear while changing the channel. Select <b>Freeze</b> : Picture get freezed while changing the channel
Sleep Time	Set a time period after which the TV will be turned off and enter stand by mode automatically. Sleep timer can be set to off, 15, 30, 60, 90 & 120 minutes. Tips: 1. The TV switches to standby after the specified time. 2. This can also be set by using the Sleep button on the remote control.
Zoom	To resize the aspect ratio of the picture for optimum viewing Available aspect ratio are : <b>Wide, Normal, Zoom 1, Zoom 2</b> ; For PC mode: Normal and Wide mode. Picture size can also be accessed by Zoom button on remote control.
Noise Reduction	To filter out and reduces the image noise and improve picture quality. It is available only in TV, AV and YPbPr mode Available options for Noise reduction are: <b>Off, Low, Medium, High</b> .
DCR	Dynamic contrast ratio: Setup the contrast of the TV set to vary in accordance with the brightness and darkness of the TV set when it is set to on.
DCC	To strengthen the contrast ratio of TV picture. (Not support in PC source mode).

### Notes:

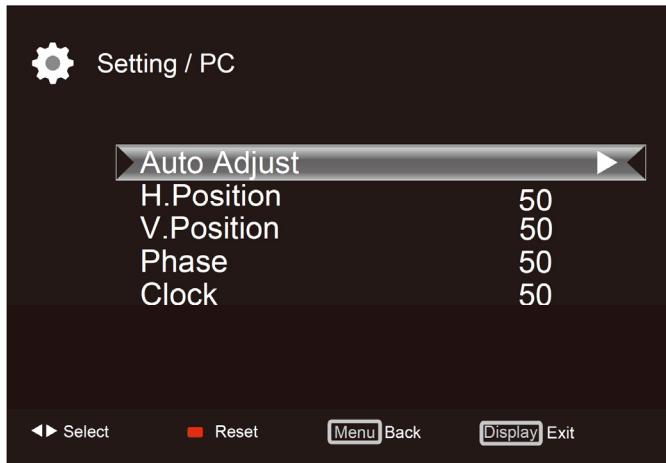
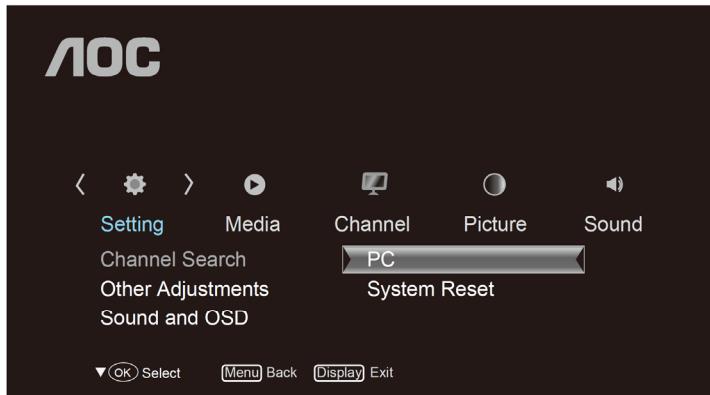
- Passwords Setting, TV Lock, Blue Screen functions are available only in TV mode.
- Noise Reduction, DCR, DCC will be enable only when the Picture mode is Personal.
- Press Red key on remote control to reset Blue screen, Sleep time, Zoom, Noise Reduction, DCR,DCC, functions to the default settings.

## Sound and OSD



Menu Function	Description
Language	English will be the default OSD language.
Menu Transparency	To set Menu Transparency(0%~100%).
Menu Timeout	Set time duration for OSD display (Off, 10,20,30,40,50,60 seconds).
AVL	Automatically reduces sudden volume changes, for example, when switching between the channels.

## PC setting

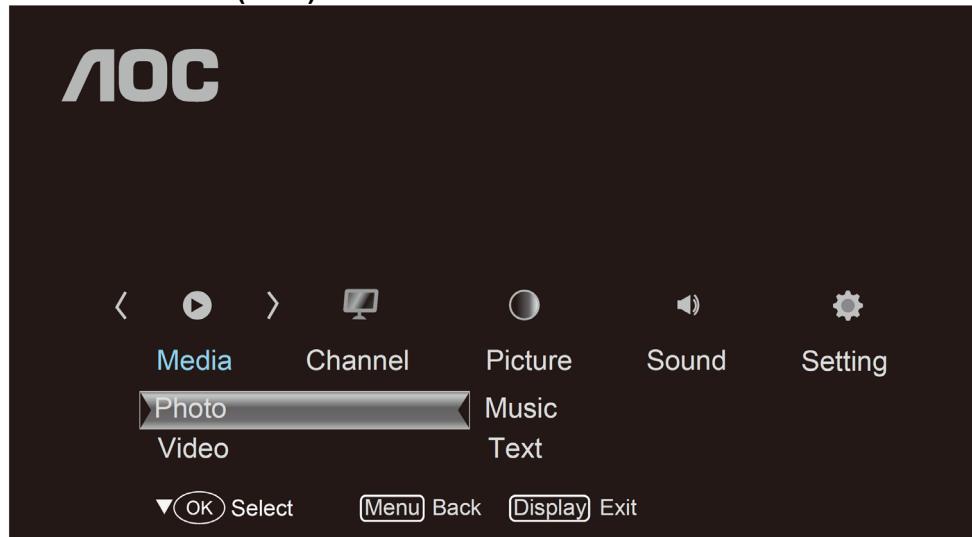


Menu Functions	Description
Auto Adjust	Press ► arrow button to adjust the screen automatically to the optimal position of the picture.
H.Position	Adjusts the horizontal position of the picture.
V.Position	Adjusts the vertical position of the picture.
Phase	Eliminate the vertical interfering lines.
Clock	Eliminate the vertical interfering lines by adjusting clock frequency.

### Notes:

- If the PC is connected to the TV and no signal has been input from the PC for more than 30 seconds, the TV enters the standby mode automatically.
- This setting is only available in VGA source

## Media Functions(USB)



TV USB port can be used to view JPEG photos, play mp3 music and Video files, and read text present in USB devices.

### Entering to USB Media:

Press the Direct USB key on remote to get USB Media menu as shown above

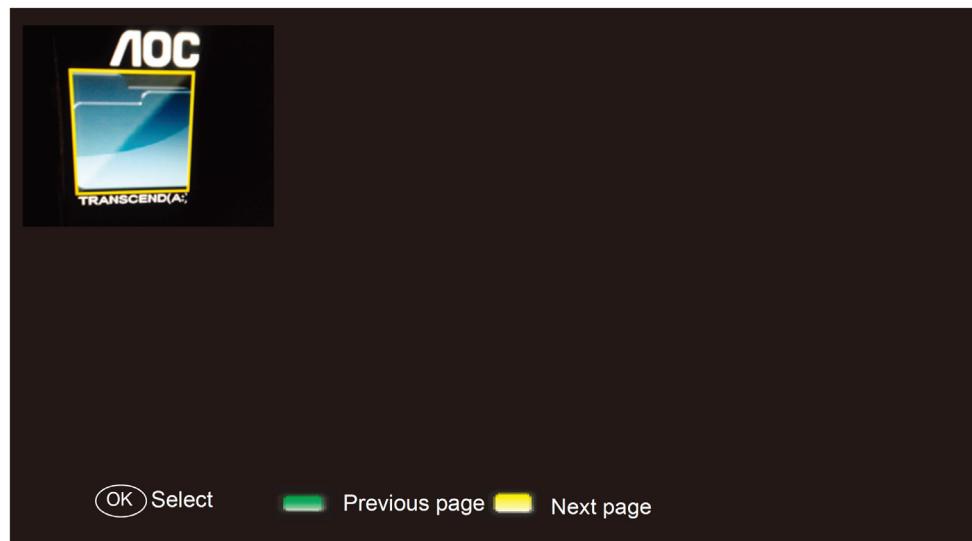
Or

Press the **Source** key and **▲/▼/◀/▶** keys on remote and select USB source to get USB Media menu as shown above

Select the **Media type (Photo/ Music/ Video/ Text)** to be viewed and press **OK** key to enter into USB Media and When USB drive is detected by the TV, USB drive is displayed as a folder on the screen as shown below. If more than one USB is plugged to the TV two folders will be displayed. Select the required drive and press OK key to view subfolder or files in the USB drive.

### Notes:

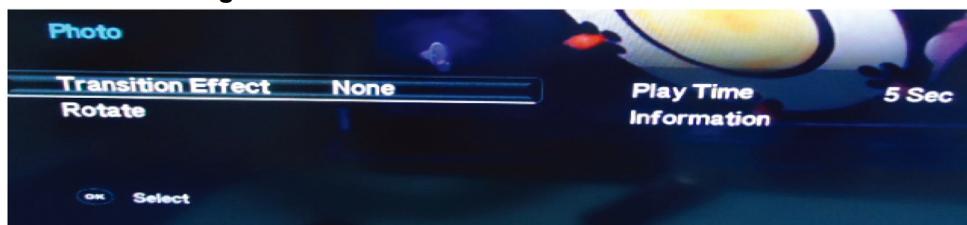
- If USB storage device is plug-in to TV USB port, Media menu will pop up on TV screen irrespective of Input Source .
- Files of selected Media type can only be viewed through USB. Media type can be any one among Photo / Music / Video / Text.



### Viewing Photos

1. Thumbnail of the available images will be displayed on the screen. If no images are displayed then select the folder containing the Photos .
2. To select a particular image and to display it in fullscreen press key and press OK key.  
Slide show starts automatically when image is viewed in full screen.
3. Press key to play/pause slideshow. Press to view previous or next image. Press key to stop slideshow

## USB menu settings for Photo Slide show



Press OK key to get following Menu setup shown above.

1. [Transition Effect] : Select the slide transition as None, Top To Bottom, Bottom To Top, Left To Right, Right To Left, Random.
2. [Rotate] : Rotate the select photo by 90° clock wise direction.
3. [Play Time] : Select the duration of time a photo is to be displayed.
4. [Information] : Display the information of the file.

## Playing Music files

1. Thumbnail of the available music files will be displayed on the screen. If no files are displayed then select the folder containing the music files.
2. To play particular music file select the required file and press OK key.
3. Press key to play/pause music. Press to play previous or next track. Press key to stop Music play.

## USB menu settings for Music play



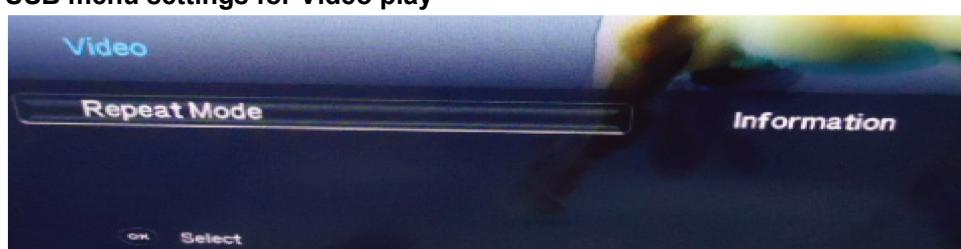
Press OK key to get following Menu setup shown above.

1. [Repeat Mode] : Select the repeat mode as None, Single,Random,All.
2. [Sound Mode] : Select sound mode like Pop,Rock,Class,Dance,Music,Personal.
3. [DSS Effect] : Turn on or off TV DSS effect.
4. [Background Music] : Select it to on to turn off display and to get only sound from TV
5. [Information] : Display the information of the file.

## Playing Video files

1. Thumbnail of the available video files will be displayed on the screen. If no files are displayed then select the folder containing the video files.
2. To play particular video file select the required file and press OK key.
3. Press key to play/pause video. Press to play previous or next video. Press key to stop video play.

## USB menu settings for Video play



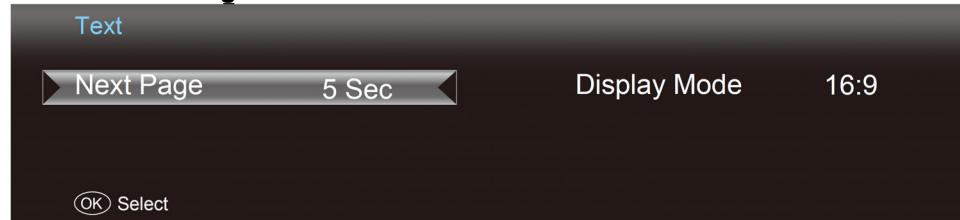
Press OK key to get following Menu setup shown above.

1. [Repeat mode] : Select the repeat mode as None, Single,All,Random.
2. [Information] : Display the information of the file.

## Reading Text files

1. Thumbnail of the available text files will be displayed on the screen. If no files are displayed then select the folder containing the text files.
2. To read particular text file select the required file and press OK key.
3. Press **◀/▶/▲/▼** keys to browse the text. Press MENU key to stop text read.

## USB menu settings for text read



Press OK key to get following Menu setup shown above.

1. [Next Page] : Select the duration of time a page is to be displayed.
2. [Display Mode] : Select the text display mode as 4:3 and 16:9.

Formats supported to multimedia mode: Photo, Music, and Video.

Picture	Format	Resolution	Type	Note
	JPEG	15360 x 8640	Baseline JPEG	

Audio	Format	Sample Rate	Date Rate	Channel
	MP3	32K-48KHz	32-320 Kbps	Mono/Stereo

Video	Format	File Extension	Codec	Data Rate
	Real media	.RM/.RMVB	RealVideo 8/9	Max 10Mbps
	MPEG1/2	.DAT/.MPG	MPEG-1/2 Video	Max 20Mbps
	MPEG4	.AVI /.MP4	H.264	Max 20Mbps

Remarks:

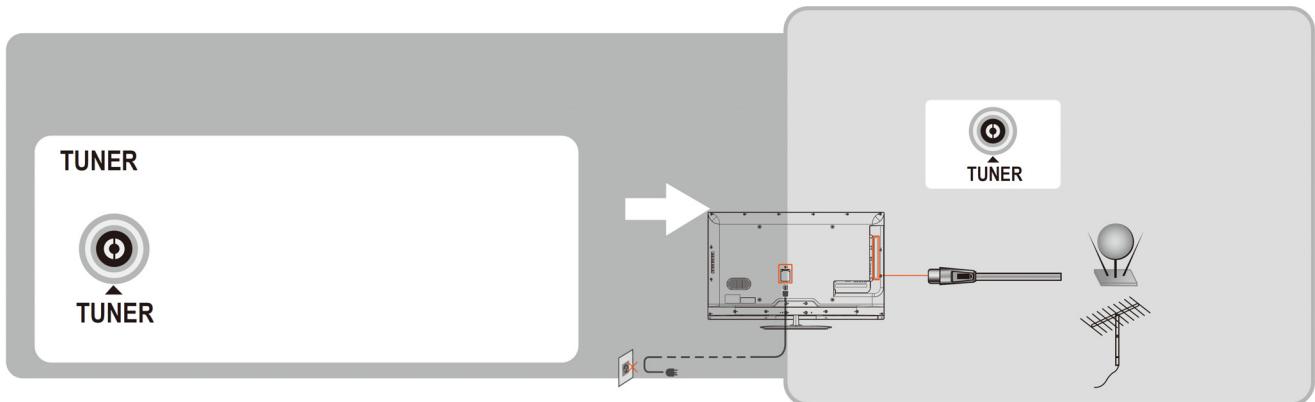
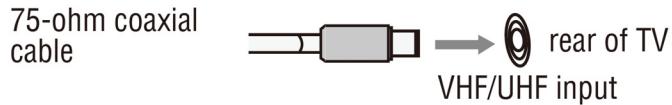
1. USB interface of digital multimedia player is not all-purpose. So when some USB devices could not be recognized, the problem is usually not the performance failure but due to device driver.
2. Because USB devices and memory capability are different, the time needs for multimedia player to read information are also different. So the information reading speed of the player temporarily getting slow are not the performance failure.
3. The voltage supplied to USB interface is 5V, and the most electrical current is 500mA. When some interface criteria of USB devices are different from standard USB protocol, digital multimedia player may be unable to recognize USB devices correctly, which is normal status.
4. USB could be used as an interface to update software.
5. If some files source could not play because of the parameter decoding-limitation, the problem is not performance failure.
6. The system can not support dynamic Gif format.

## 2.3 How to Connect

You can enjoy standard-definition and high-definition digital programming (if available in your area), along with standard-definition analog programming.

It is strongly recommended that you connect the antenna/cable input using a 75-ohm coaxial cable to receive optimum picture quality. A 300- ohm twin lead cable can be easily affected by radio frequency interference, resulting in signal degradation.

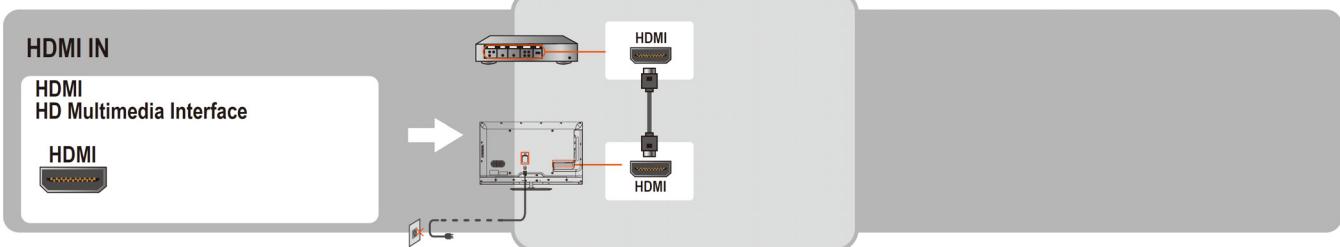
### Cable or VHF/UHF(or VHF only)



### High Definition Interface

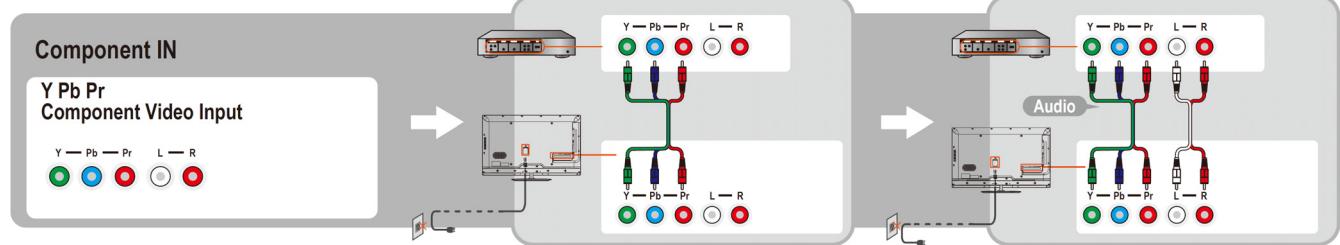
You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input on the back of your TV.

#### HDMI Connection

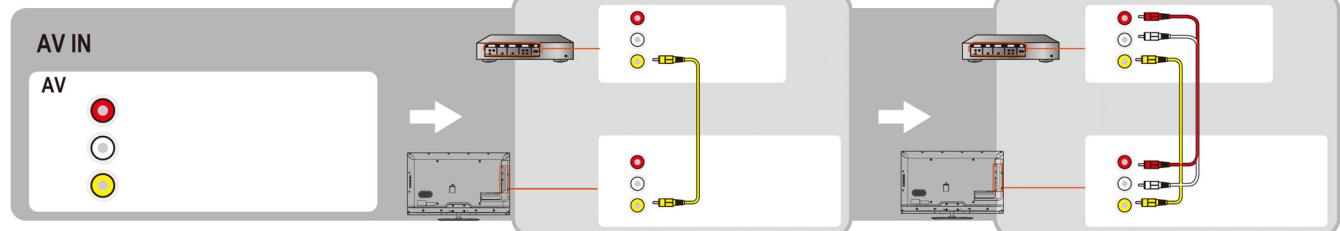


If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN (with DVI-to-HDMI cable or adapter) jack and connect the audio jack to the PC AUDIO IN jacks.

#### Component Signal Connection

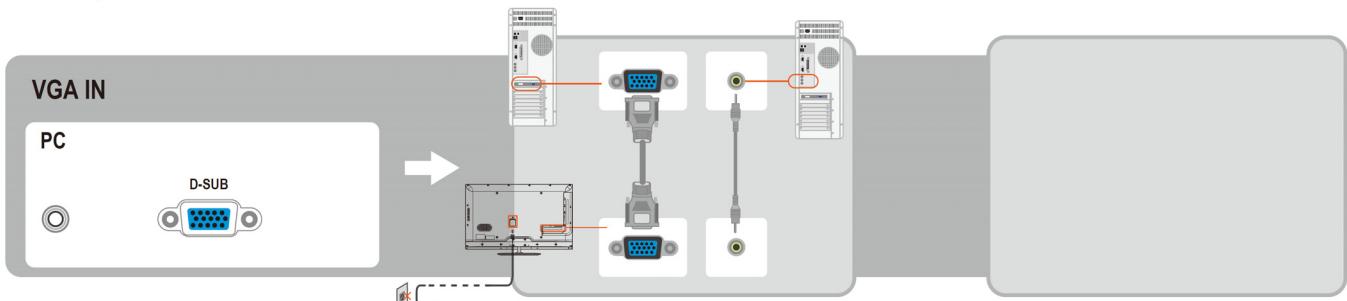


#### Composite Signal Connection



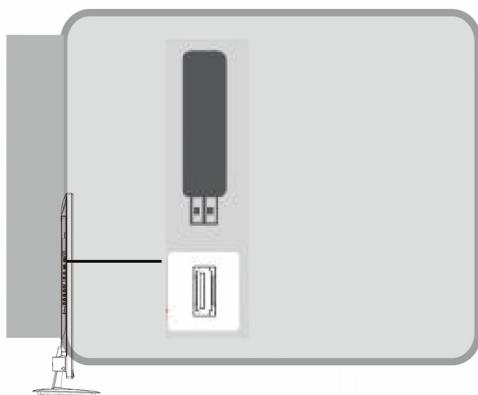
## PC Connection

Use the TV as a monitor for your PC shown below with the HD15 to HD15 connection. This TV can also be connected to a PC with DVI or HDMI output.

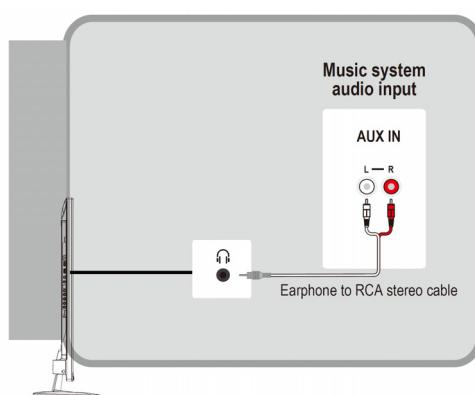


- Connect the PC IN jack to the PC using the HD15- HD15 cable with ferrite core (analog RGB) and audio cable.
- If the PC is connected to the TV and no signal has been input from the PC for more than 30 seconds, the TV enters the standby mode automatically.

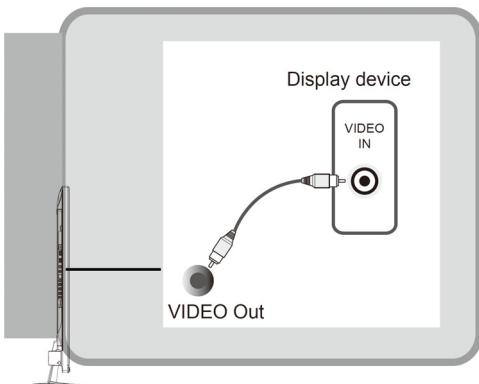
## Connecting USB drive



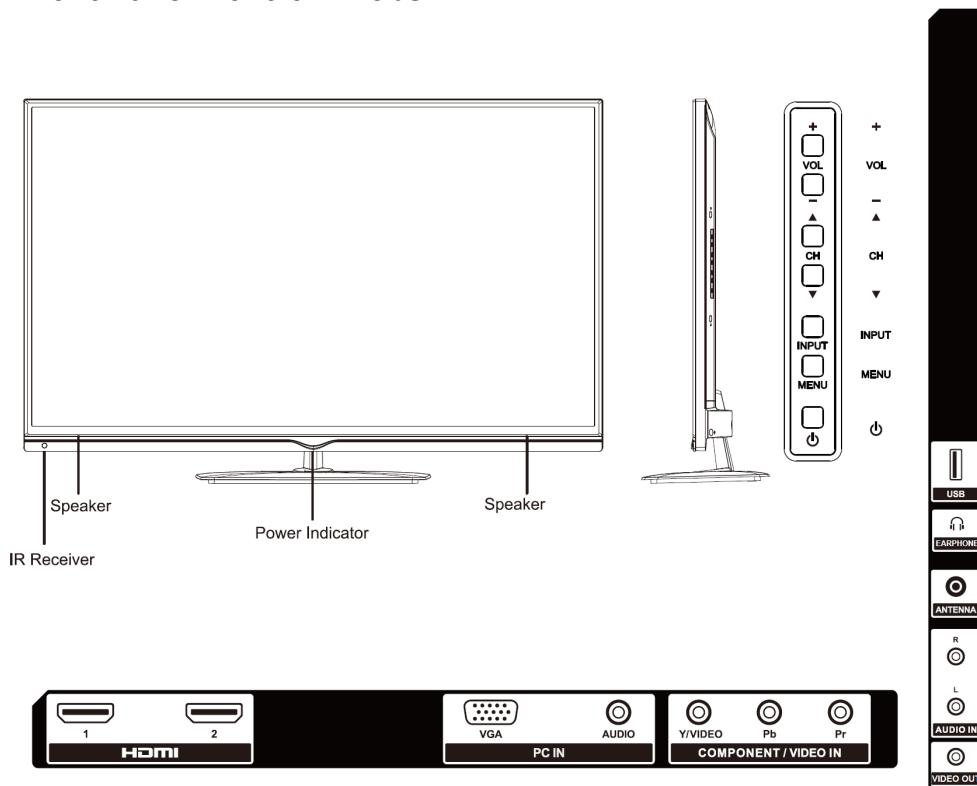
## Connecting Earphone



## Connecting VIDEO



## 2.4 Front Panel Control Knobs



### Controls

Item	Description
1.VOL +/-	press to increase or decrease the sound volume level.
2.CH △/▽	press to select the next higher or lower program number.
3.INPUT	press to select the input source.
4.MENU	press to open or exit the OSD menu.
5. (Power)	Switches the product on/standby or off. The product is not powered off completely unless it is physically unplugged.

### Connections

Item	Description
HDMI	Connect a HDMI signal to HDMI port. The HDMI (High definition Multimedia Input) connector provides Non-compressed and fully digital audio/video data transmission between TV set and any HDMI audio/video devices, including the set top box, DVD player, Blue-ray player, A/V receiver and computer. You need an HDMI connection for viewing in 480i, 480p, 576i, 576p 720p, 1080i and 1080p modes.
PC In (VGA)	It is used to Connect the video output port of a personal computer with a 15 pin D-sub (Analog RGB) VGA cable. It can be connected to other simulated RGB devices. Connect separate audio cable between PC and TV to get sound. Please refer to "Reference Table for computer input signal" for signals that can be displayed. For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case, connect the adapter to the computer before connecting the HD15-HD15 cable. If the picture is noisy, flickering or not clear, adjust Phase and Pitch of Screen settings.
Component/AV In	Connects to the COMPOSITE VIDEO output jack from your video equipment that has COMPOSITE VIDEO, and audio (L/R) jacks can connect audio in source to your TV. Connects to your TV's component video (YPbPr) and audio in jacks. Component video provides better picture quality than the composite video connections. Component video (YPbPr) connection is necessary to view 480i, 480p, 720p, 1080i and 1080p formats.
Video Output	For connecting the Composite Video signal of the TV to other display devices as their source signal.
TV Antenna input	The RF input is for connecting to the cable or VHF/UHF antenna.
Earphone	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adapter (not supplied). While headphones are connected, the TV speakers are muted.
USB/Service	Insert USB storage device to the USB 2.0 port to view photos, videos, and listen to music. / For future software upgrades.

### 3. Input / Output Specification

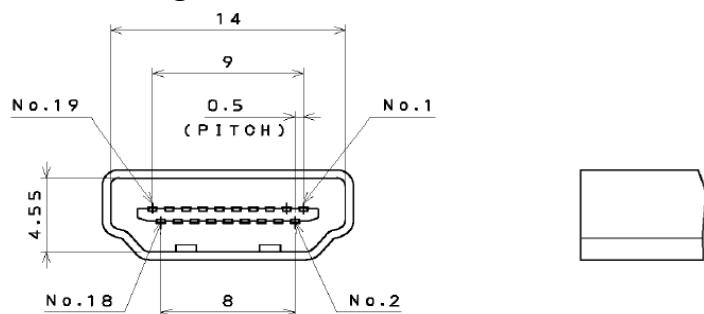
#### RGB Signal Input



**15 - Pin Color Display Signal Cable**

Pin No.	Description	Pin No.	Description
1	Red Video	9	+5V
2	Green Video	10	Sync Ground
3	Blue Video	11	Not Used
4	Not Used	12	Serial Data for DDC
5	Ground	13	H-Sync.
6	Red Ground	14	V-Sync.
7	Green Ground	15	Serial Clock for DDC
8	Blue Ground		

#### HDMI Digital Connector Pin Assignments



Pin No.	Description	Pin No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	NC
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

## Compatible Mode Table

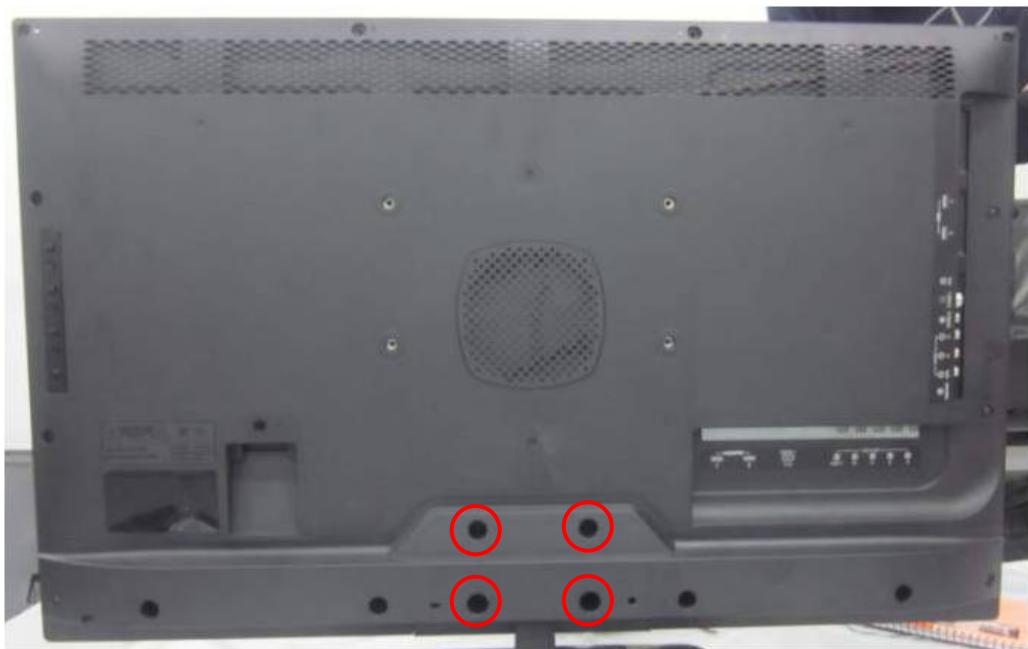
LE32A3330/61

RGB Input Signal Timing

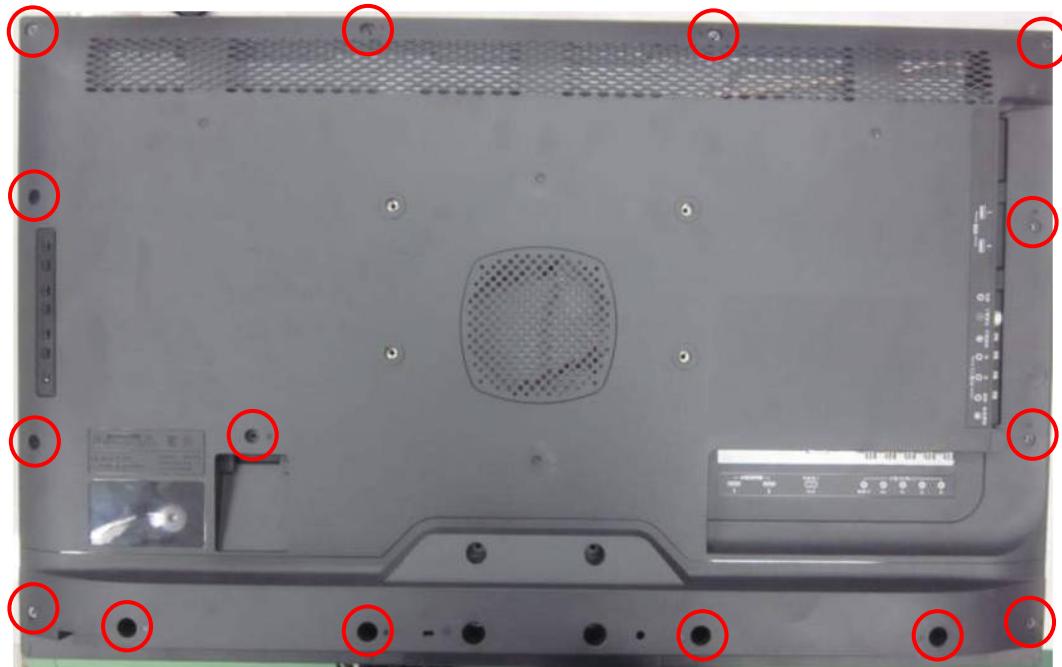
Dots × Lines	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Sync Polarity		Presence		Screen Mode
			Horizontal	Vertical	Horizontal	Vertical	FULL (16:9)
<b>640 X 480</b>	59.9	31.5	NEG	NEG	YES	YES	YES
<b>800 X 600</b>	60	37.9	POS	POS	YES	YES	YES
<b>1024 X 768</b>	60	48.3	NEG	NEG	YES	YES	YES
<b>1280 x 1024</b>	60	-	-	-	-	-	-
<b>1360 X 768</b>	60	47.7	POS	POS	YES	YES	YES

## 4. Mechanical Instructions

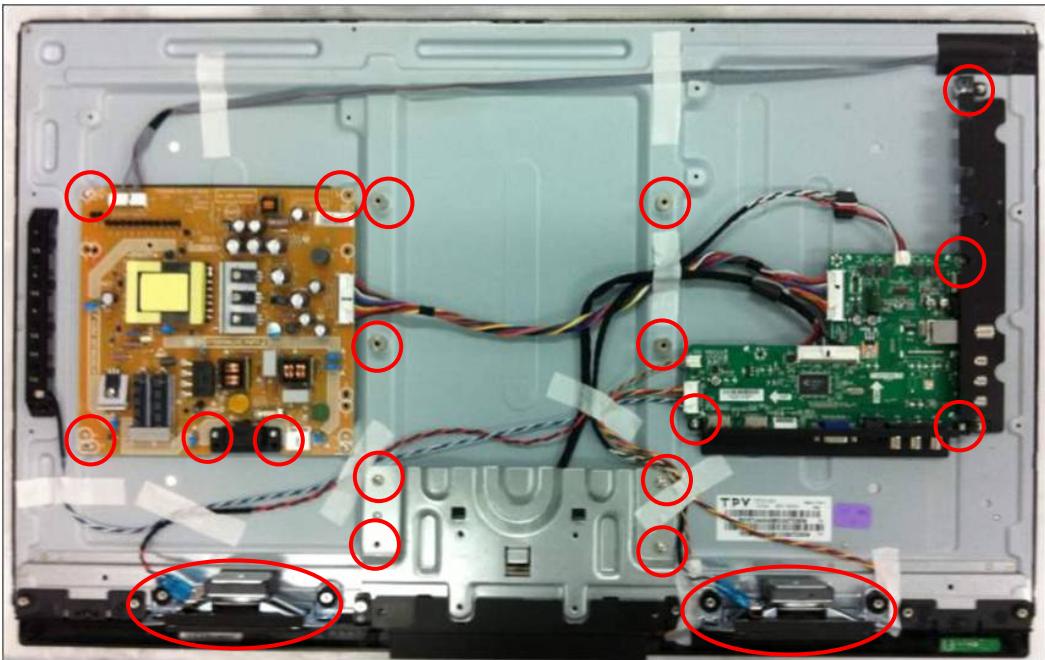
1. Remove the screws to remove BASE.



2. Remove the screws to remove REAR COVER.



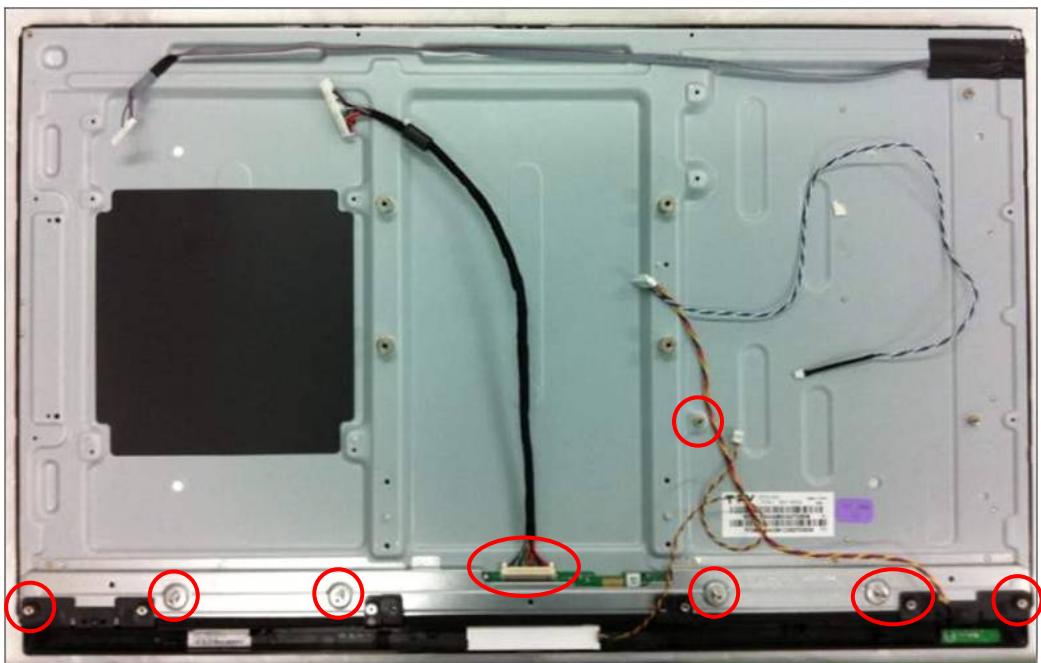
3. Remove the screws to remove SPEAKERS, MAIN BOARD and POWER BOARD.



4. Remove the IR board.

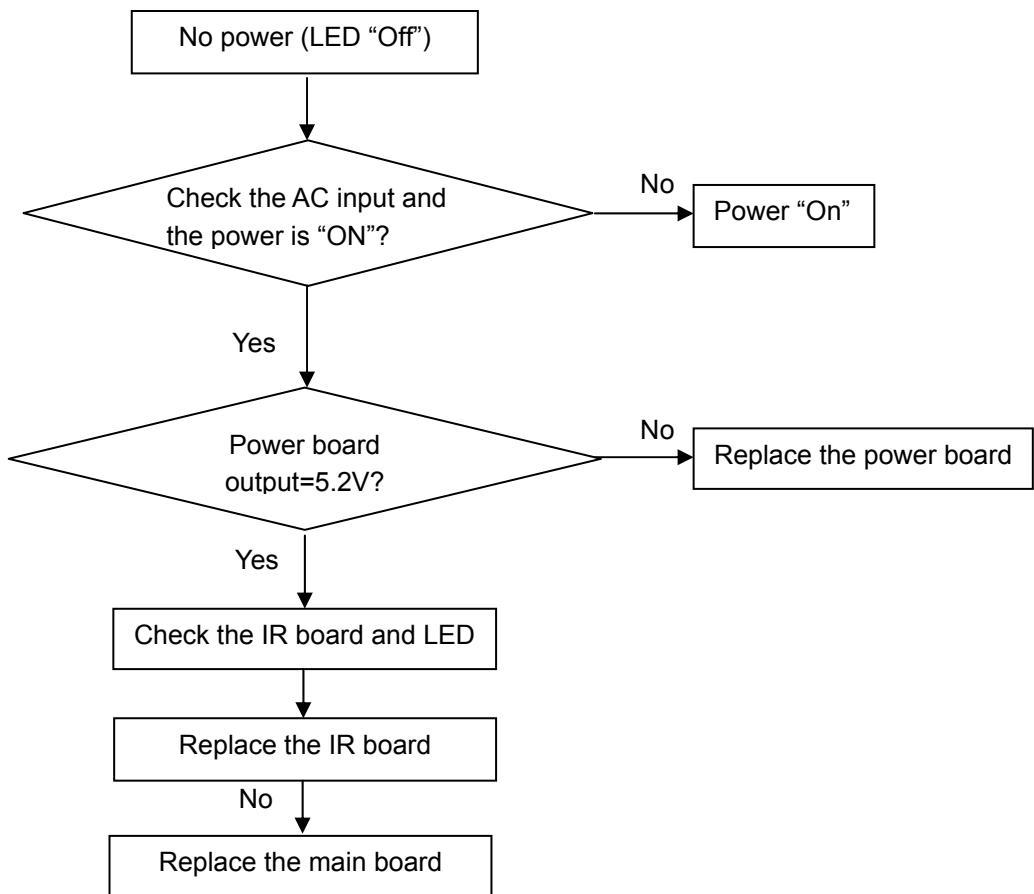


5. Remove the screws to remove the Panel.

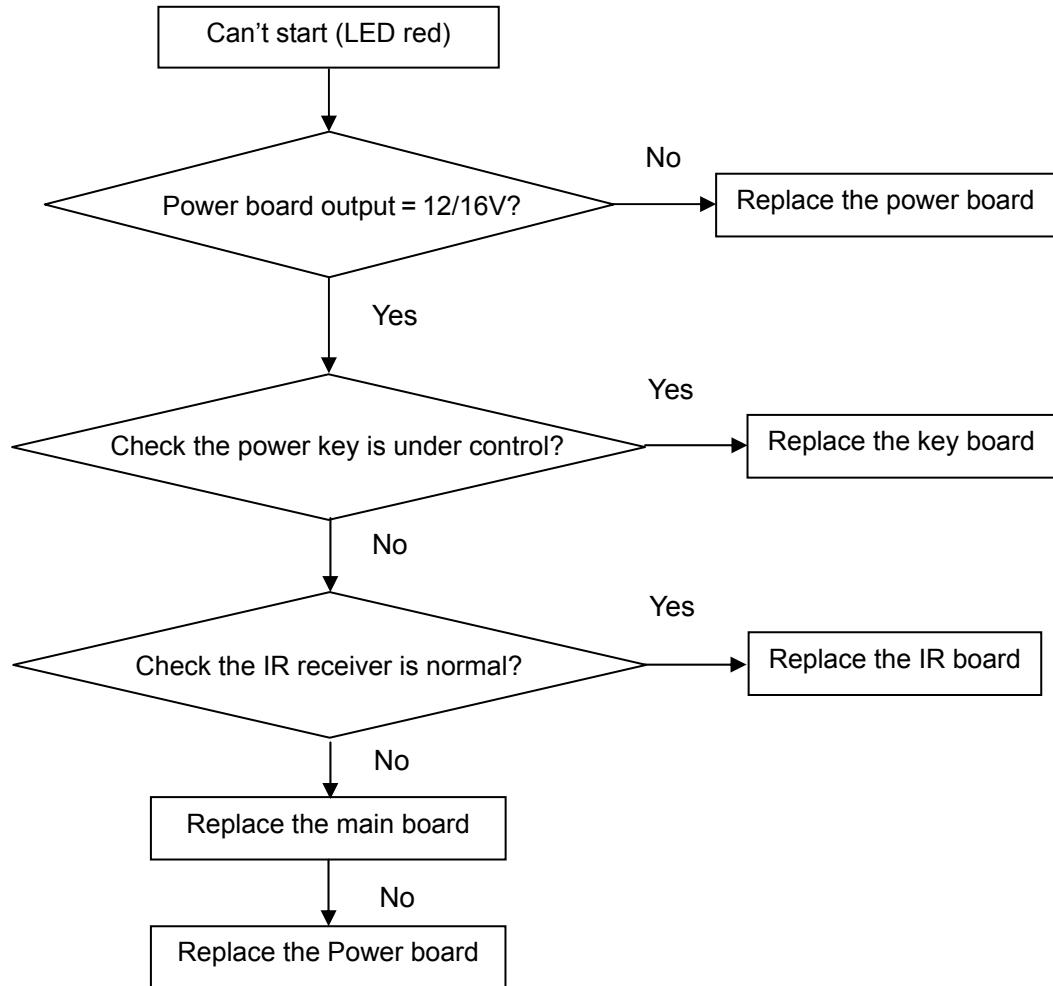


## 5. Repair Flow Chart

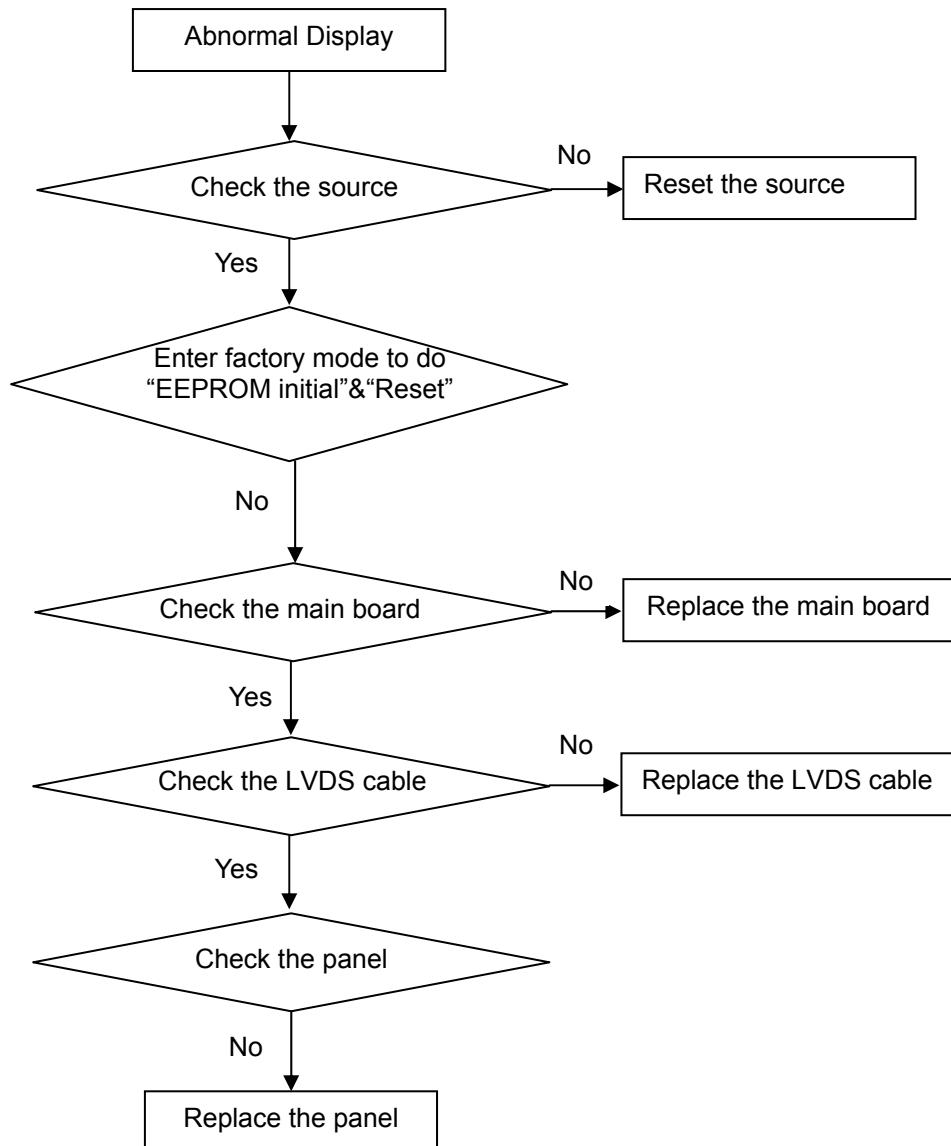
### 1. No power



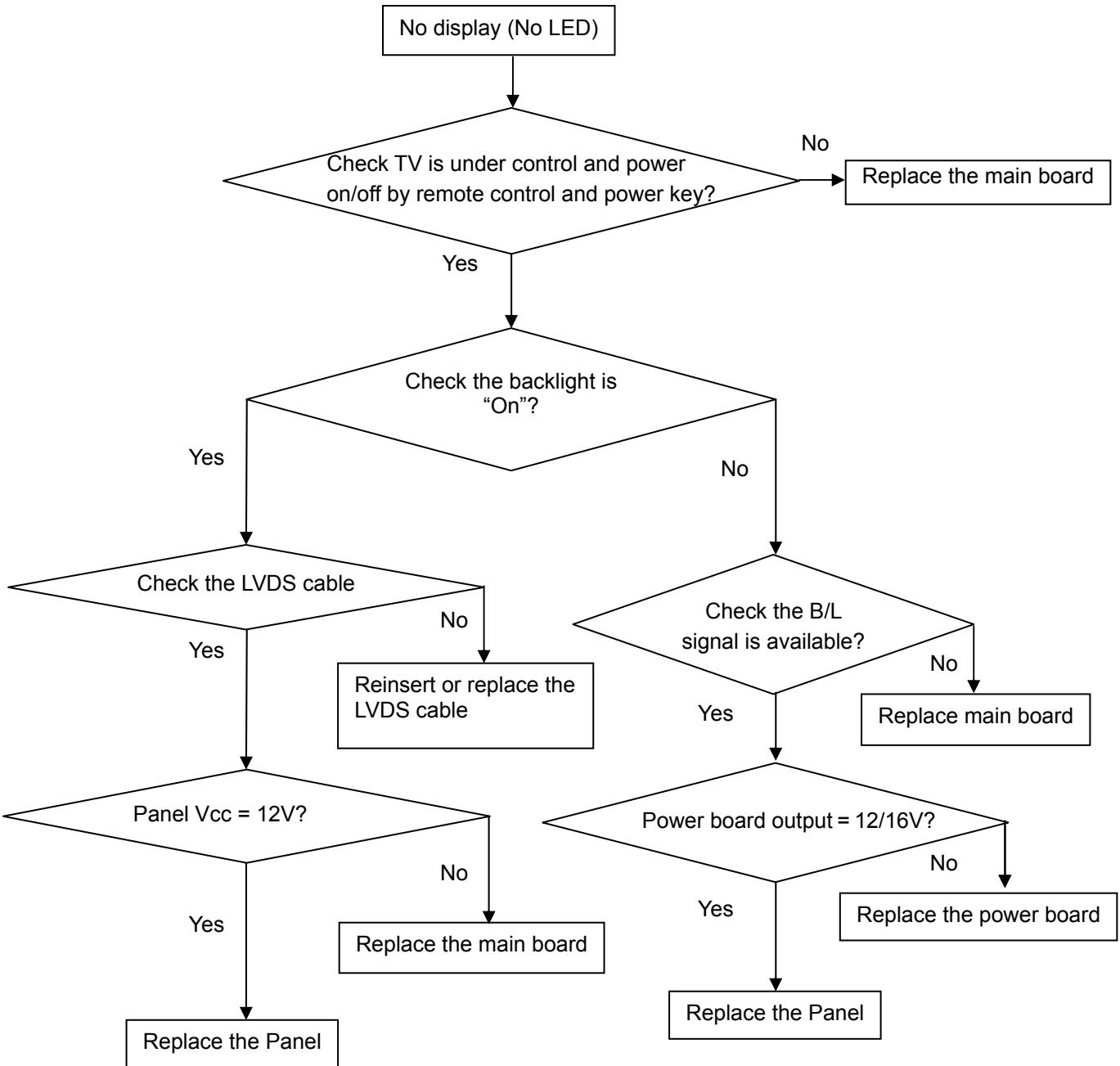
## 2. Can't start



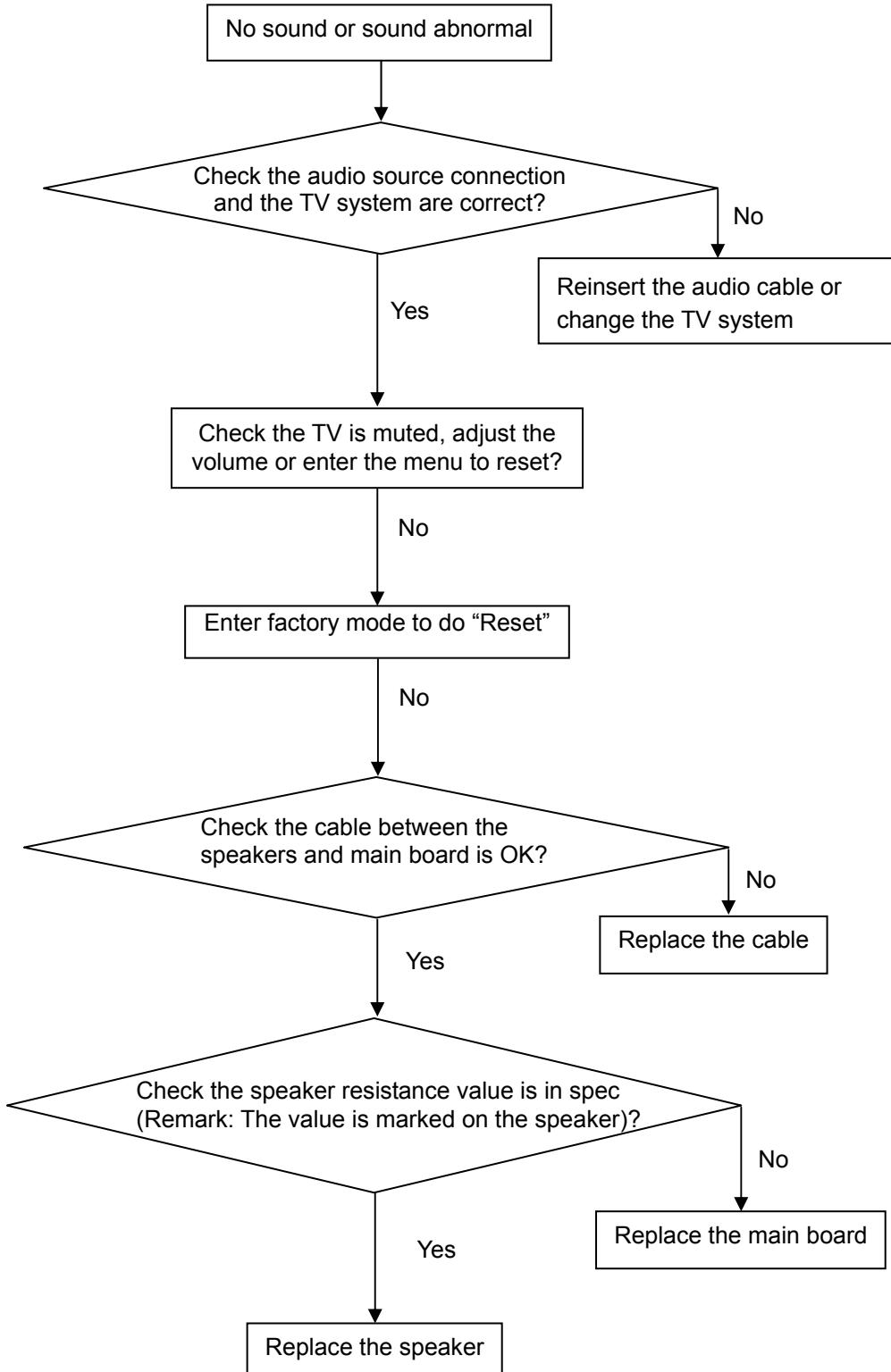
### 3. Abnormal display



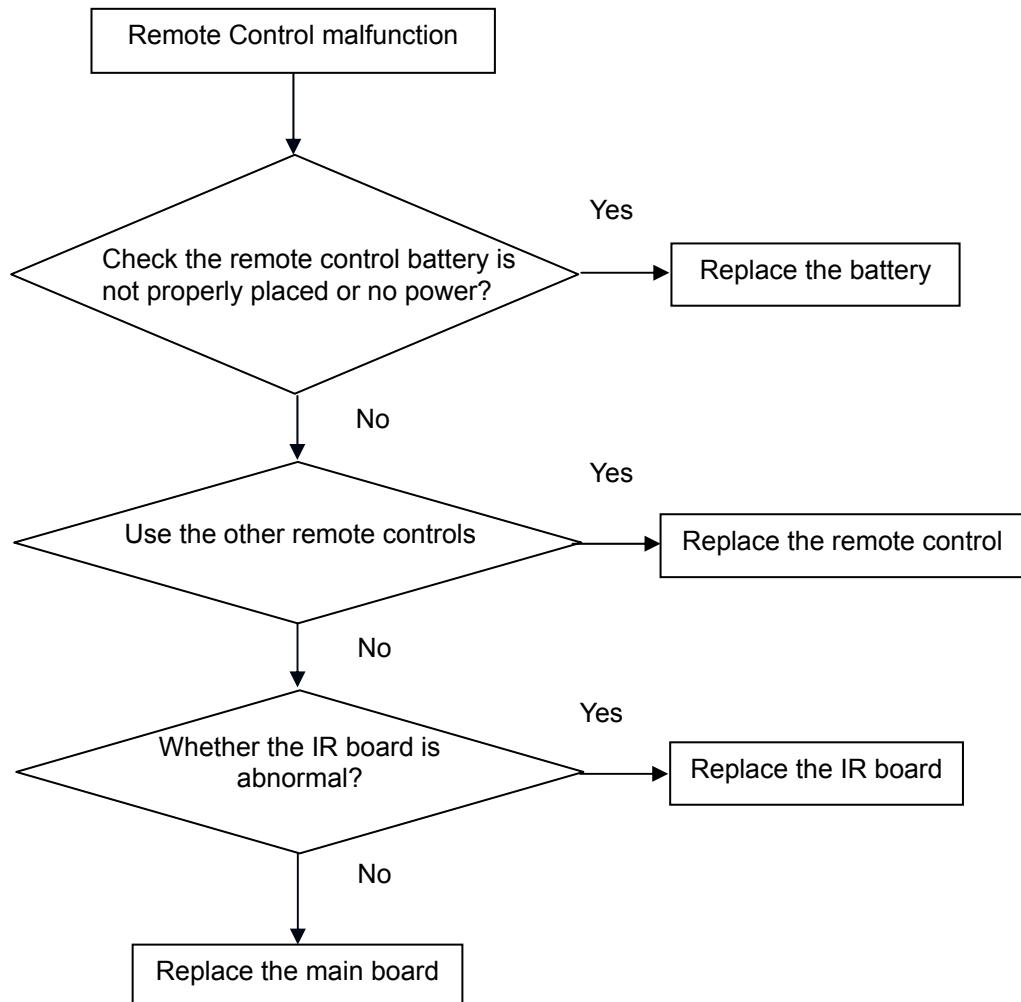
#### 4. No display



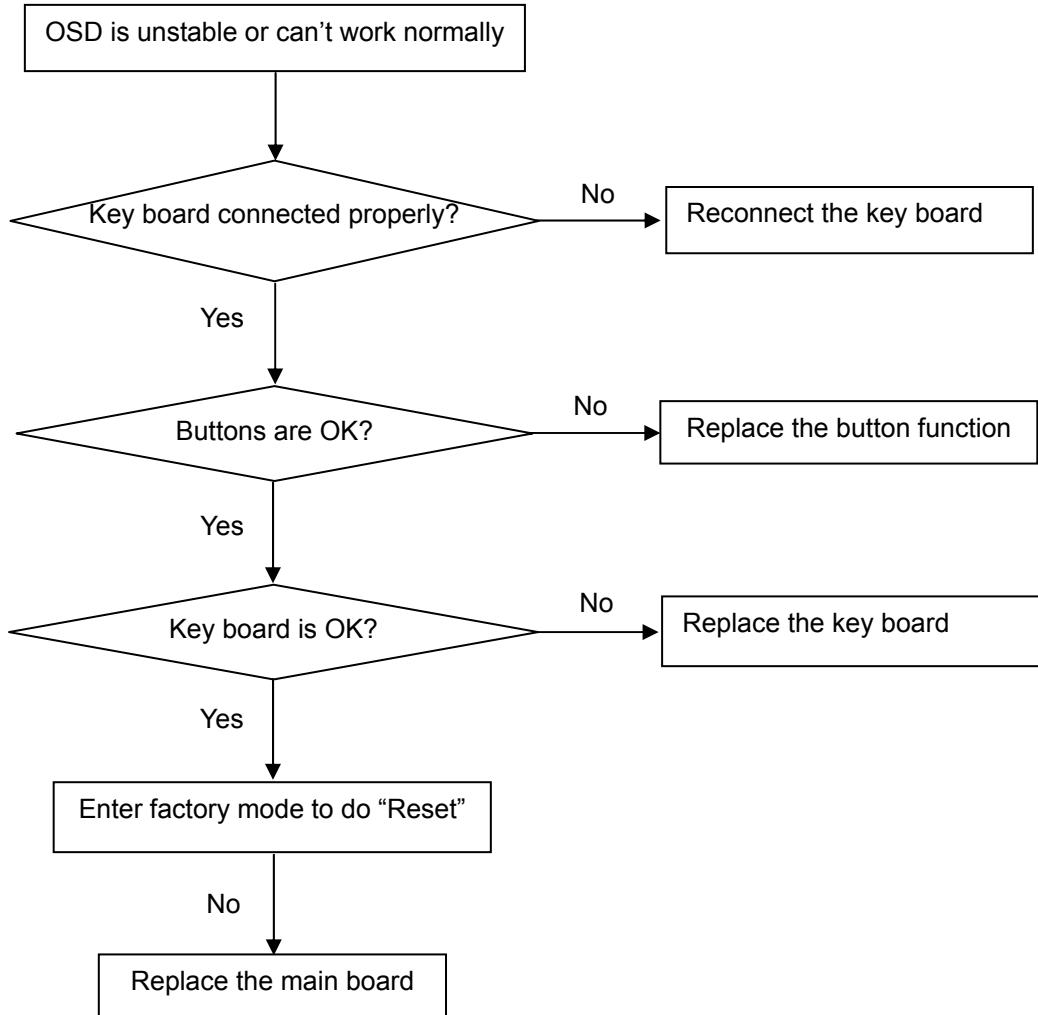
## 5. Sound problem



## 6. Remote control malfunction

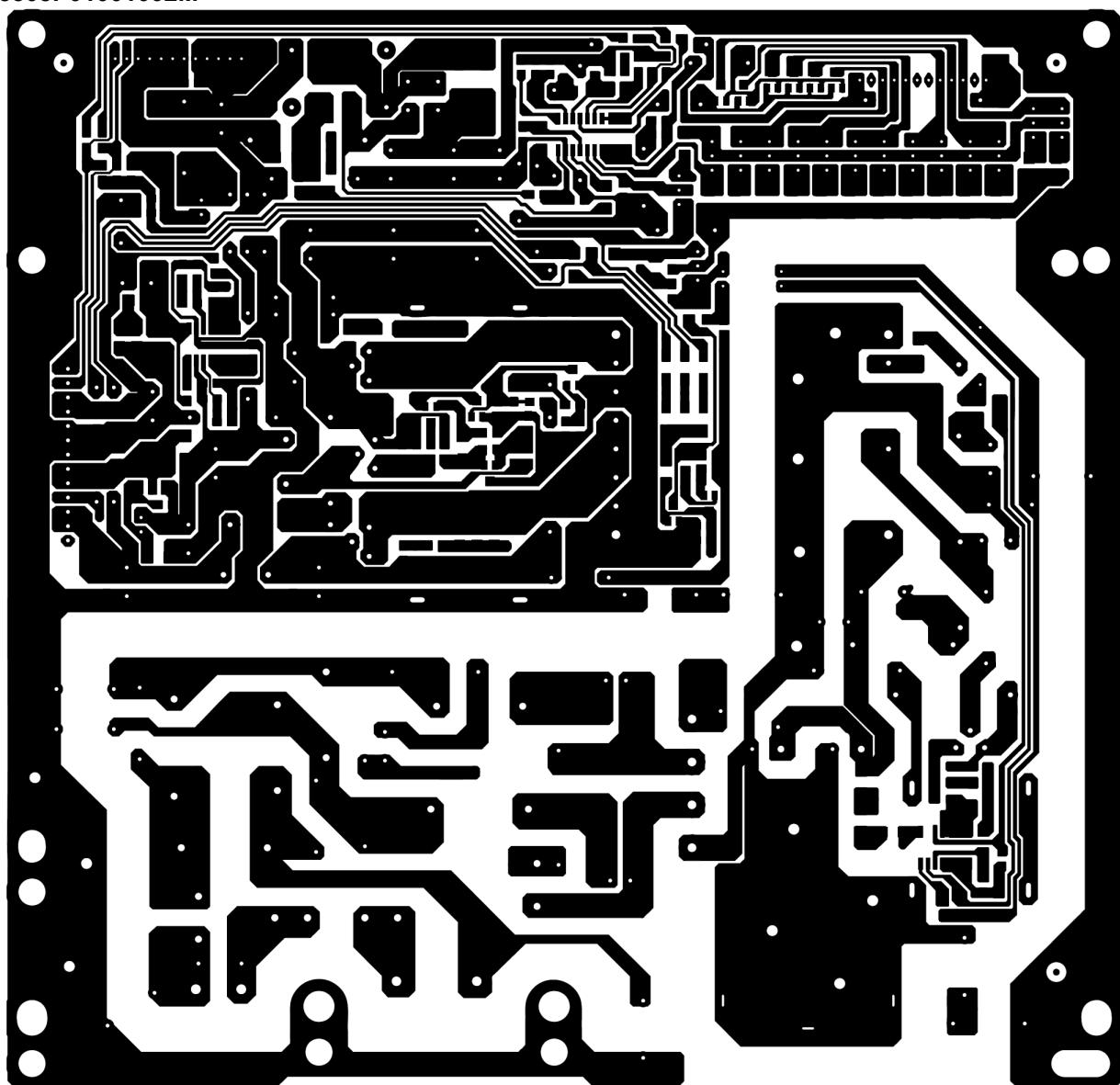


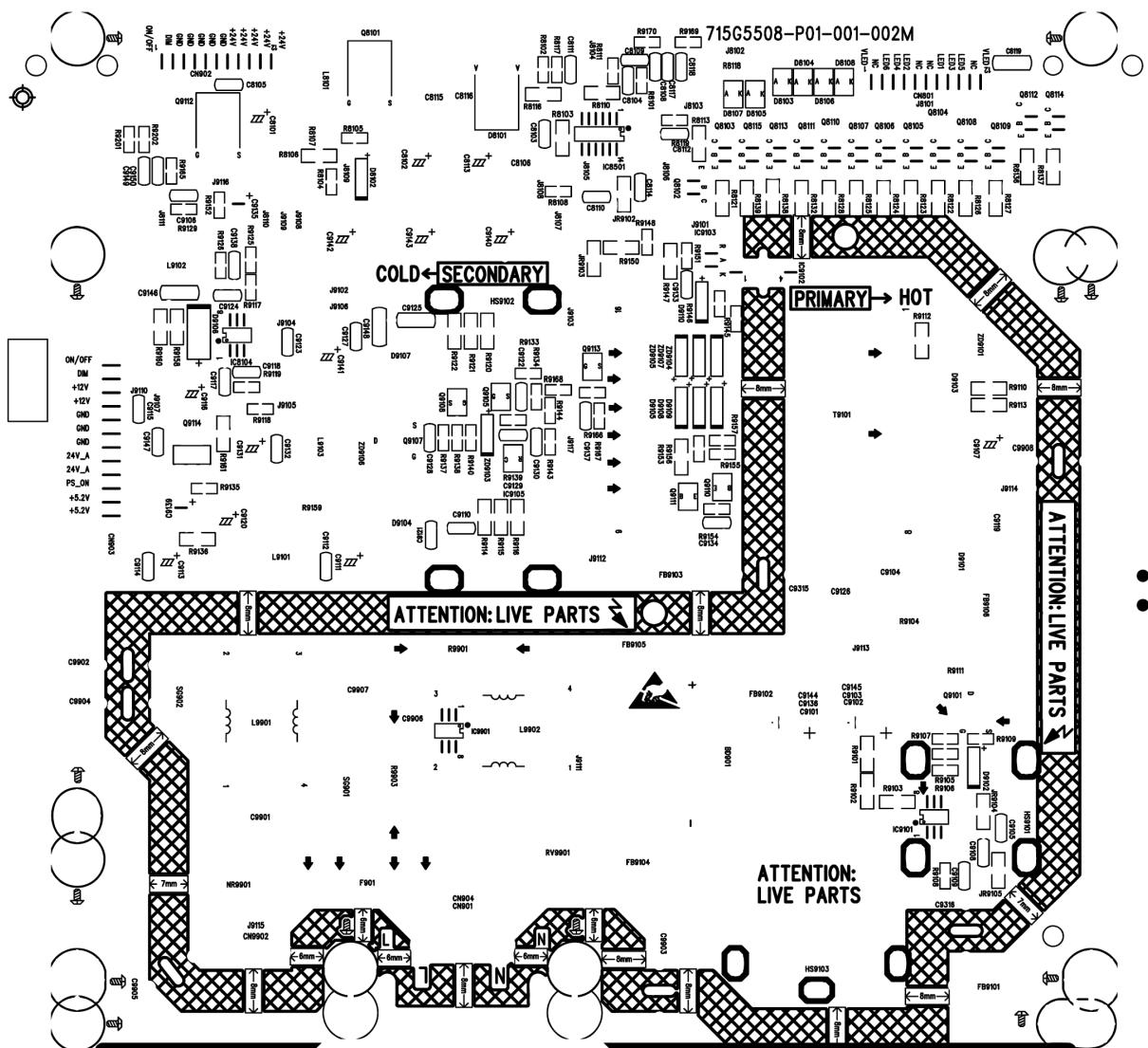
## 7. OSD is unstable or can't work normally

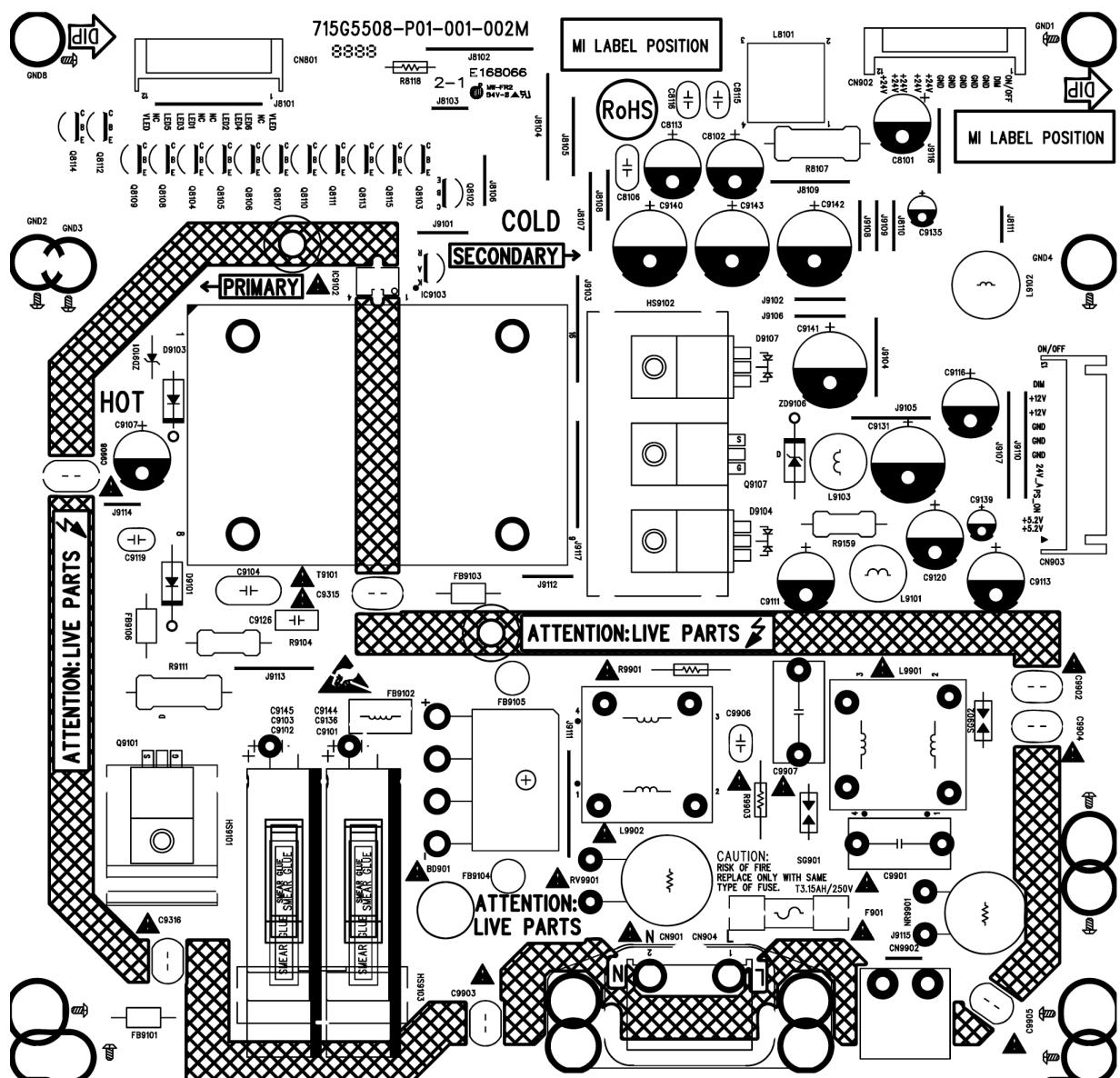


## 6. PCB Layout

### 6.1 Power Board 715G5508P01001002M

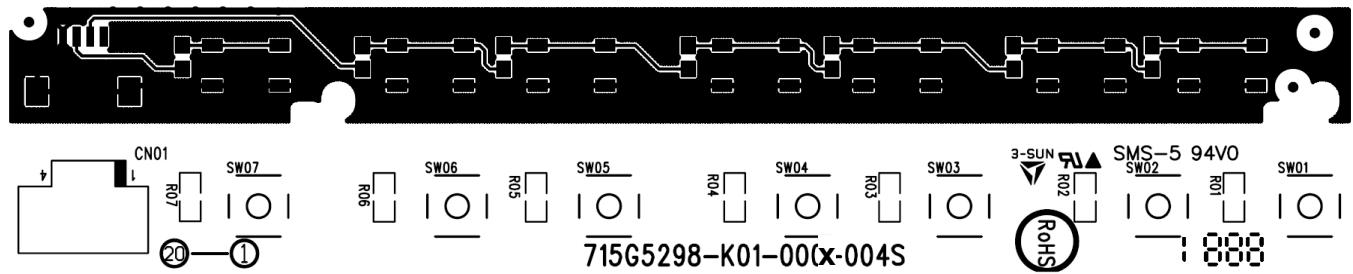






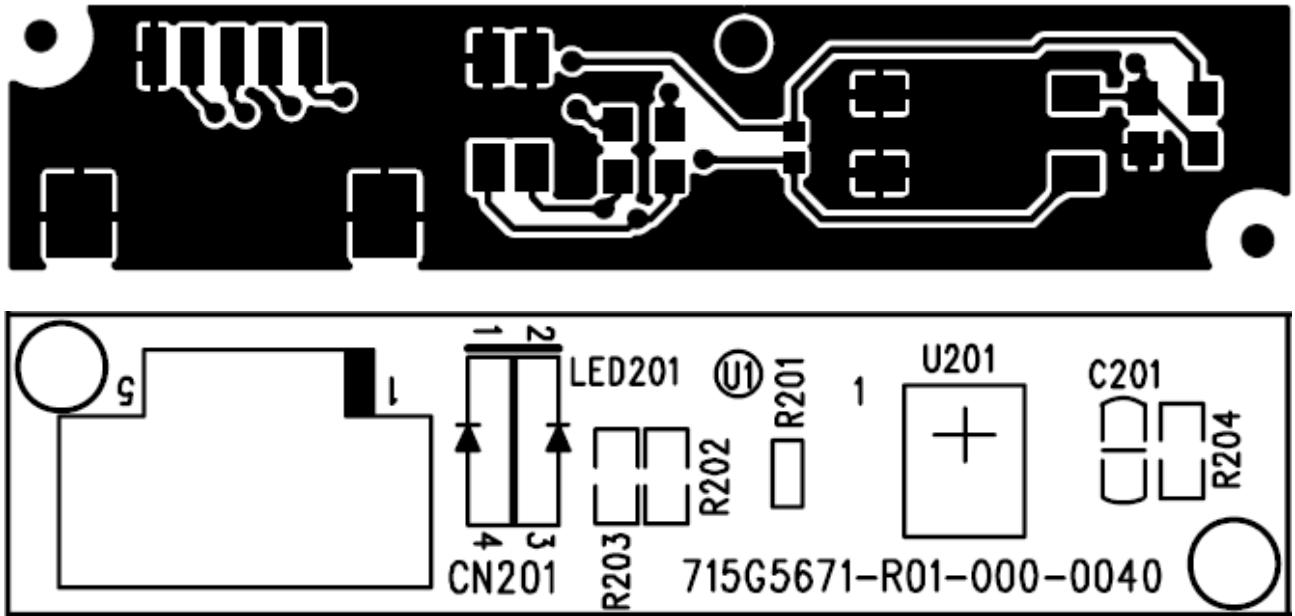
## 6.2 Key Board

715G5298K01000004S



## 6.3 IR Board

715G5671R01000004X



## 7. Adjustment

(Take other model for example)

### ADC Adjustment

#### 1. Factory Mode

Turn on the TV. Press RC key ‘menu’+’1’+’9’+’9’+’9’ or ‘menu’+’1’+’9’+’9’+’9’+’ok’. It will achieve the factory mode.

#### 2. ADC Adjustment (It's no need to adjust ADC.)

(1) Enter into the factory mode :(same as the above-mentioned)

(2) Select item “Source”: Ypbpr

a. Tim\pat. (COMPONENT mode: TIM = 314; PAT = 185 , select item “auto color” and press ok key.

b. Tim\pat. (COMPONENT mode: TIM = 311; PAT = 185 , select item “auto color” and press ok key.

(3) Select item “Source”: VGA

Tim\pat. (VGA mode: TIM = 137; PAT = 42 , select item “auto color” and press ok key.

#### 3. White Balance Adjustment

(1) Enter into the factory mode :(same as the above-mentioned).

(2) Just only adjust Ypbpr source.

a. Select item “Source”: Ypbpr and item “Color Temp”: Normal, Adjust gain of RGB to meet spec in the below setting of Tim\pat. (COMPONENT mode: TIM = 314; PAT = 141(80IRE))

b. Select item “Source”: Ypbpr and item “Color Temp”: Warm, Adjust gain of RGB to meet spec in the below setting of Tim\pat. (COMPONENT mode: TIM = 314; PAT = 141(80IRE))

c. Select item “Source”: Ypbpr and item “Color Temp”: Cool, Adjust gain of RGB to meet spec in the below setting of Tim\pat. (COMPONENT mode: TIM = 314; PAT = 141(80IRE))

(3) check VGA TIM137,PAT141, AV TIM304 PAT141, HDMI TIM349 PAT141 , white balance whether or not meet the specifications.

#### 4. The following color specifications for reference, to RD engineering specifications.

Source	VGA/YPbPr/AV/HDMI	VGA/YPbPr/AV/HDMI	VGA/YPbPr/AV/HDMI
Temp	Normal/(8000 K)	Warm/(6500 K)	Cool/(9300 K)
x (center)	0.285 0.030	0.313 0.030	0.271 0.030
y (center)	0.293 0.030	0.321 0.030	0.274 0.030

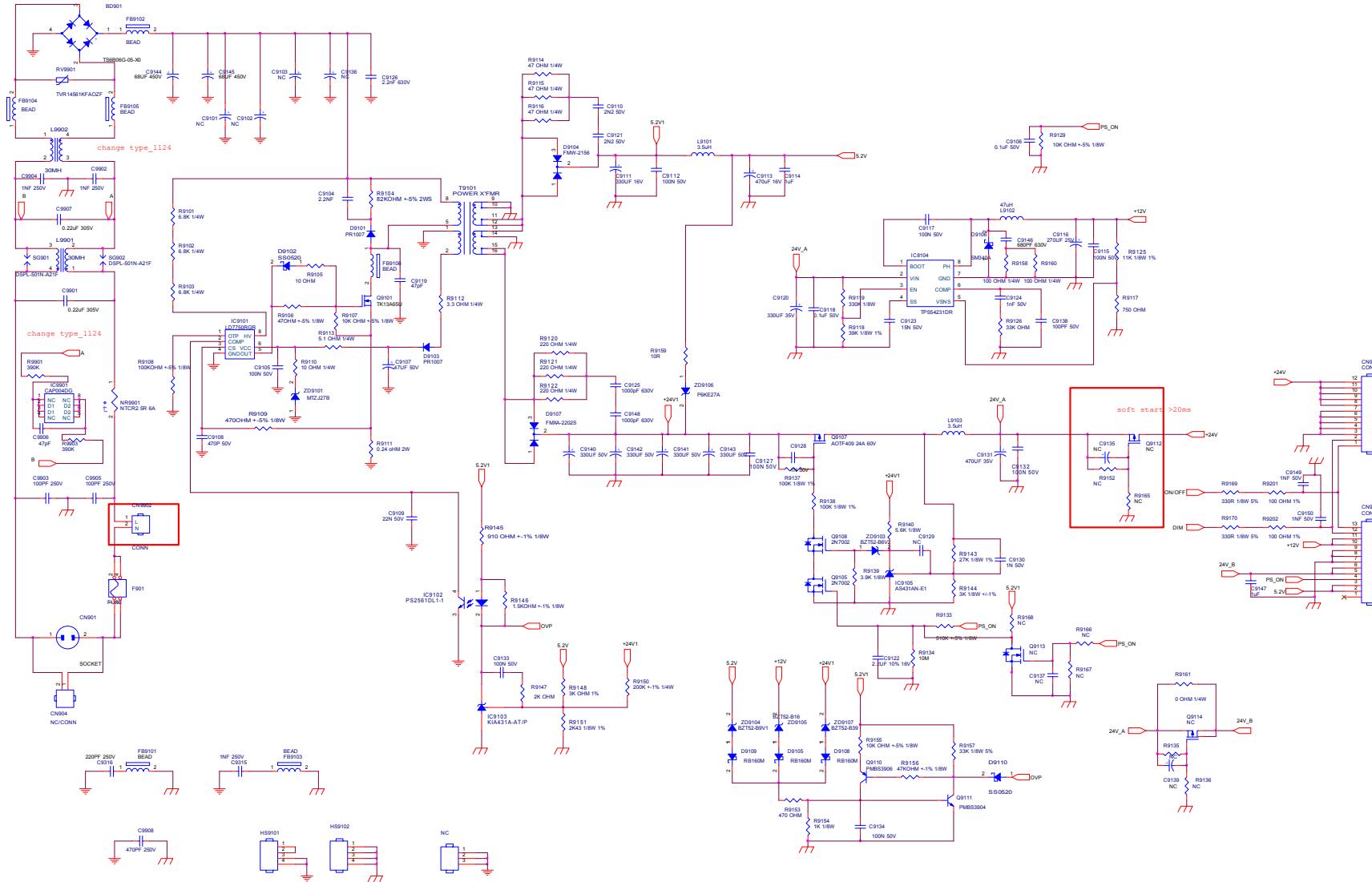
**Note:** 1、all models of color temperature within specification, but also ensure the brightness conform to engineering specifications.

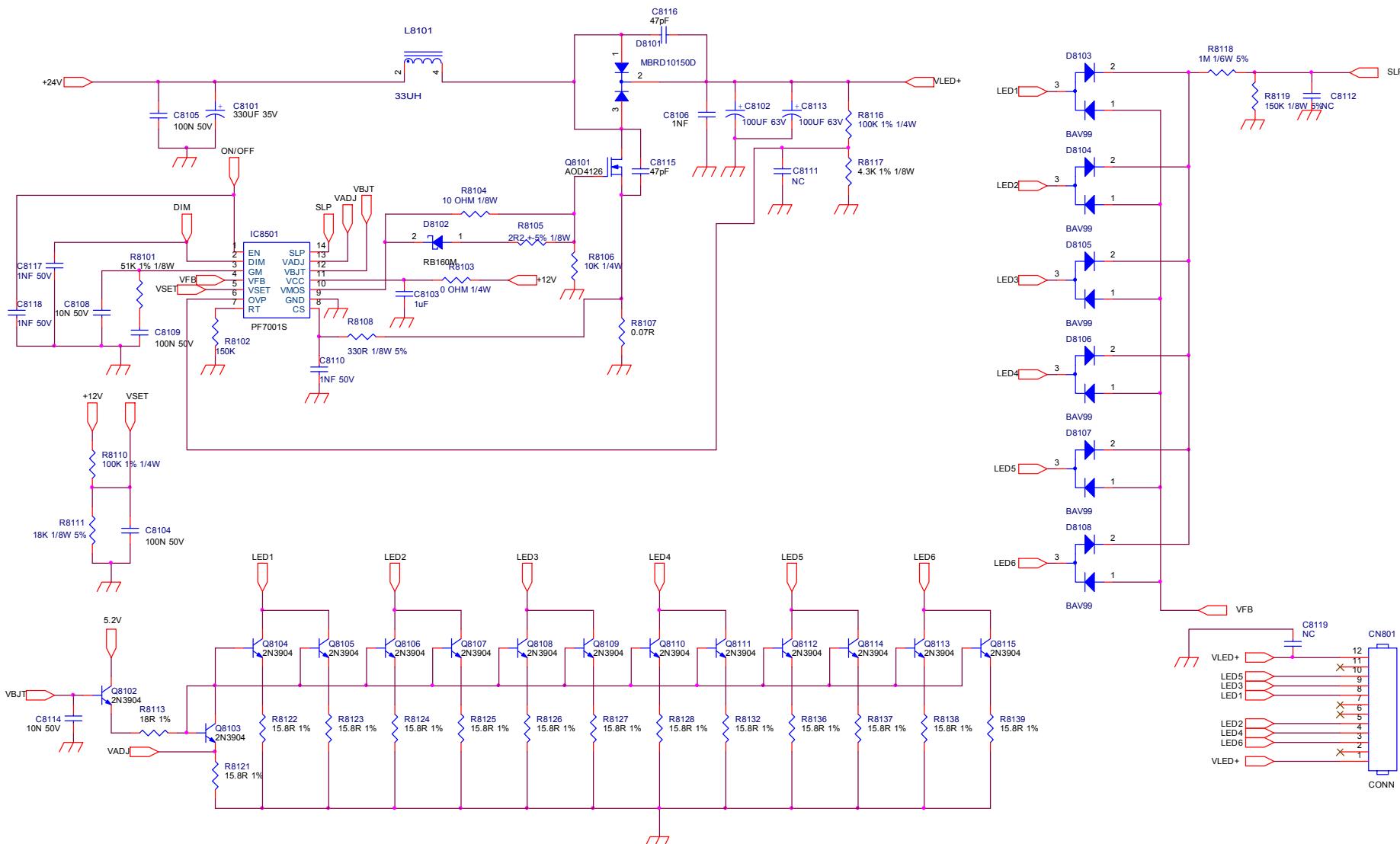
2、RGB gain value cannot exceed 138,128,138

## 8. Schematic Diagram

## 8.1 Power Board

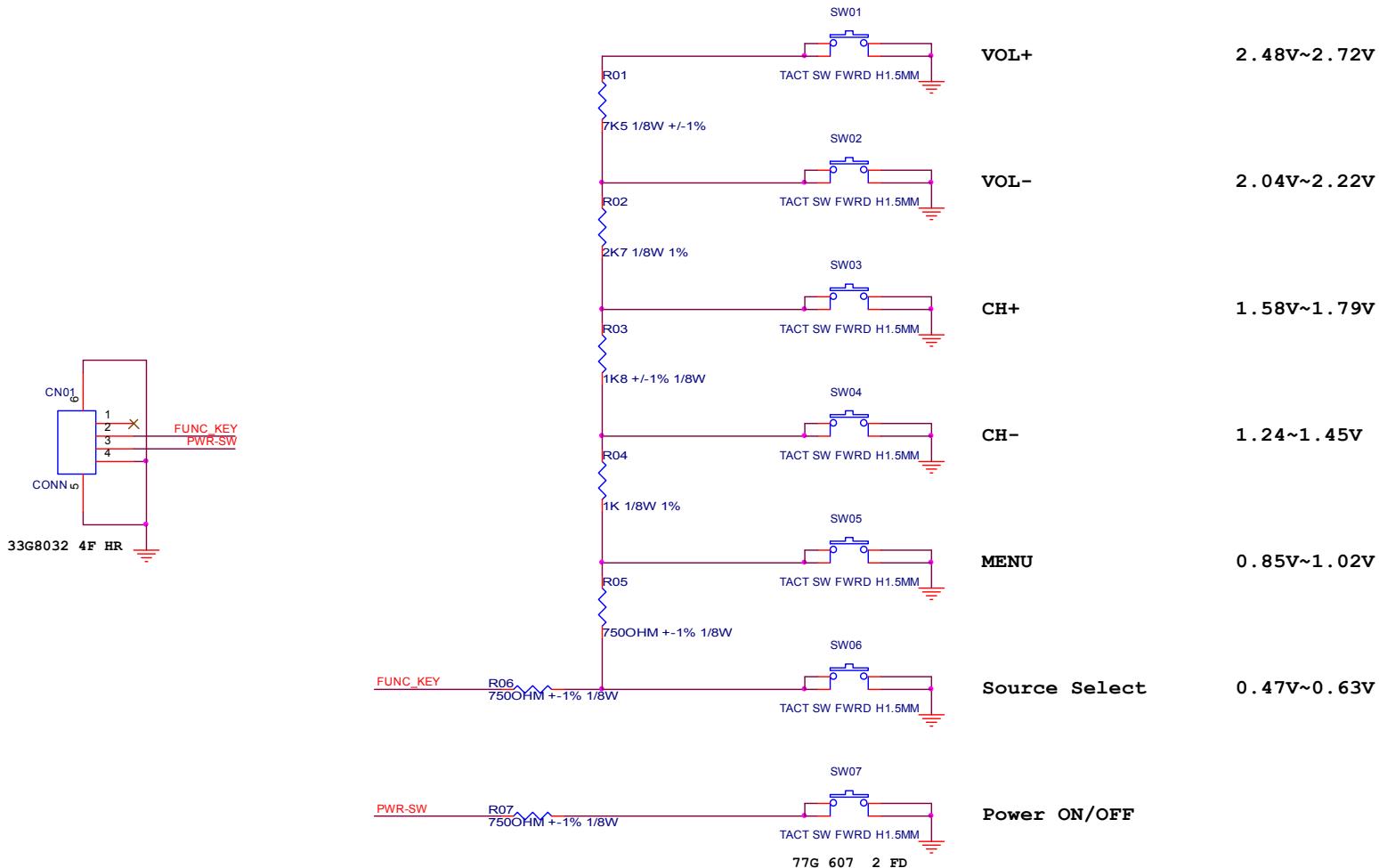
**715G5508P01001002M**





## 8.2 Key Board

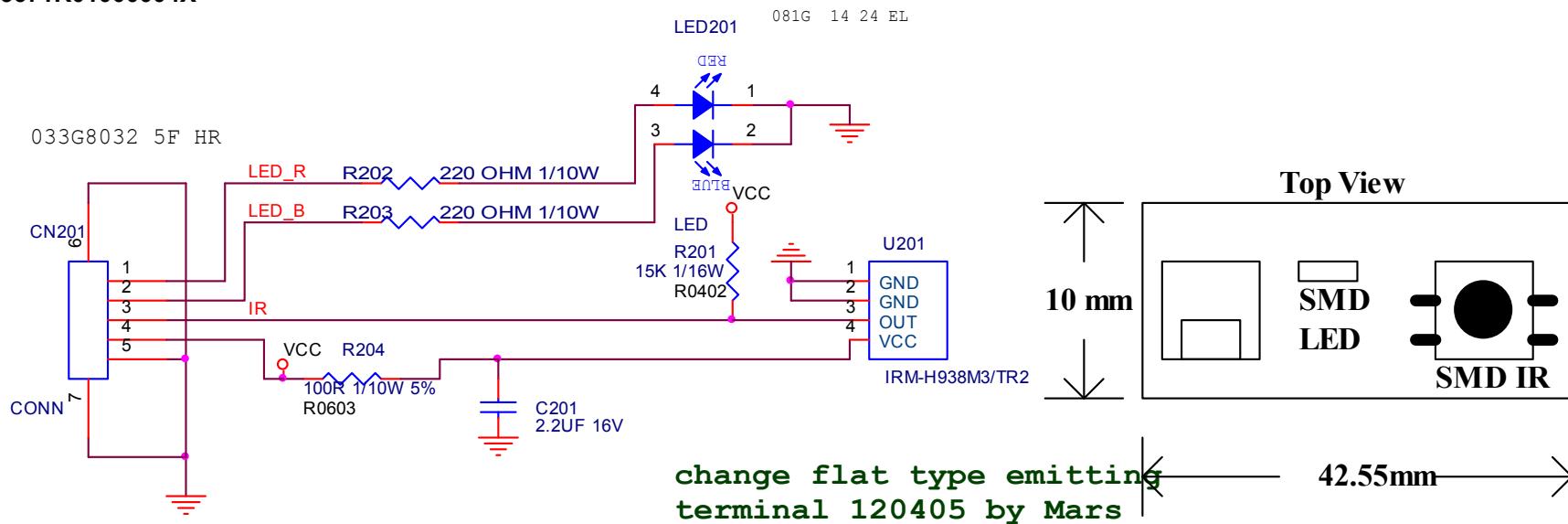
715G5298K01000004S



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	Custom
話筒瓜網腹	TPV MODEL		Rev A
Key Component	PCB NAME		称爹
Date	Sheet	2 of 2	<称爹>

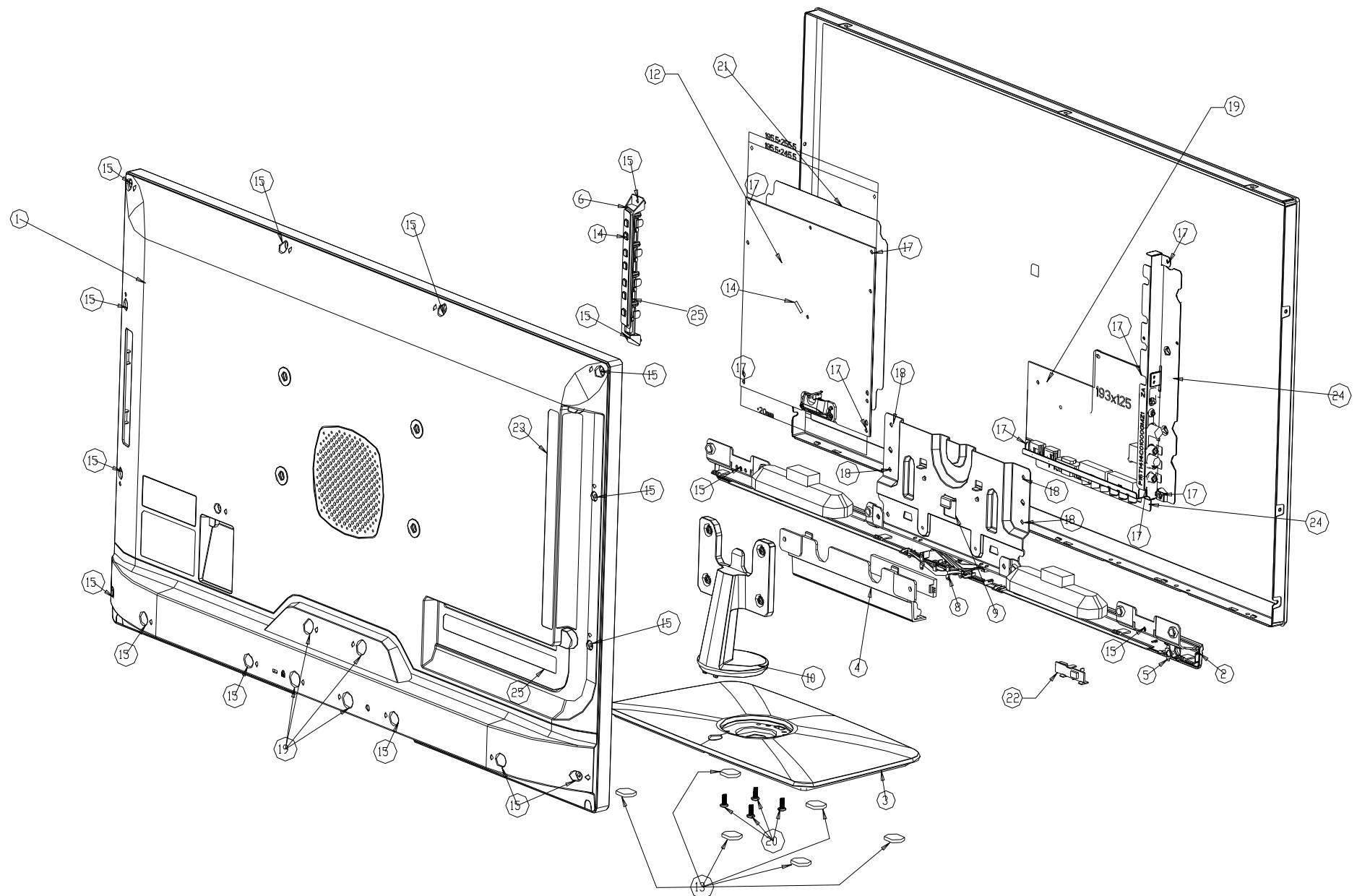
## 8.3 IR Board

715G5671R0100004X



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A
結隔瓜網腹	TPV MODEL	Rev	A
Key Component	02-IR&LED	PCB NAME	<称爹>
Date	Friday, June 22, 2012	Sheet	2 of 2

## 9. Exploded View



<b>Item</b>	<b>Description</b>
1	REAR_COVER
2	DECO_BEZEL
3	BASE
4	COVER_STAND
5	LENS_POWER
6	COVER_FUNCTION
7	KEY
8	LENS_IR
9	BKT_HINGE
10	DIE-CASTING
11	BKT_IO
12	ADAPTER BOARD
13	FOOT PAD
14	PCB-SUPPORT
19	MAIN BOARD

	<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
21	TAPE_INSULATING	15	0M1G1030 6 47 CR3 SCREW(REAR COVER/BEZEL)	14
22	IPTV BOARD	17	0M1G1730 8120 SCREW 3x8(POWER BOARD)	9
23	IO LABEL	18	0M1G1740 8120 SCREW FOR STD/MF 42-D020715/42-D000649(HINGE/PANEL)	4
25	KEY BOARD	20	0M1G1740 12225 CR3 SCREW M1-MACHINE SCREW x12.0(STAND COVER/BASE)	4

## 10. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice.  
Please go to <http://cs.tpv.com.cn/hello1.asp> for the latest information.

### LE32A3330/61 E32C11NCCHA1NNX

Location	Part No.	Description	Remark
	052G 1186	SMALL TAPE	
	052G 2191 A	PAPER TAPE	
ECN1	095G801313RY04	HARNESS 13P-13P 350mm	
	0M1G1030 6 47 CR3	SCREW	
	0M1G1030 6 47 CR3	SCREW	
	0M1G1730 8120	SCREW 3x8	
	0M1G1740 8120	SCREW FOR STD/MF 42-D020715/42-D000649()	
	0M1G1740 12225 CR3	SCREW M1-MACHINE SCREW x12.0	
	0Q1G 930 8 47 CR3	SCREW	
ECN2	317GAADW024GPU	LIGHT BAR GPBLE032BG-334-07	
	317GAAMB065CVT	MAIN BOARD T.VST59S.72A	
E37801	378G0110567YAQ	16 OHM 11W L132*W34*34.5H 0 NO	
ECNA1	395G801404LY34	HARNESS 4P-B&R+B&W 700/500	
ECN8	395G801410DY24	HARNESS 10P-5P+4P 400/550	
ECN8	395G801410RY24	HARNESS 10P-5P+4P 400/550	2nd source
ECN21	395G801840LY17	LVDS CABLE 30P-40P 400	2nd source
ECN21	395G801840RY17	LVDS CABLE 30P-40P 400	
	IRPFCXAF	IPTV BOARD	
CN201	033G8032 5F B	CONN 1.25mm 5P R/A 11.2mm 5.7mm	2nd source
CN201	033G8032 5F X	WAFER 5P 1.25MM S1315-05RVB-S03-K	
R201	061G0402153 JI	RST 0402 15K 5% 1/16W	
R204	061G0603101 JT	RST CHIP 100R 1/10W 5% TZAI YUAN	
C201	065G060322515K T	CAP 0603 2.2UF 10% 16V X5R	
U201	356GS927057	IR RECEIVER IRM-H938M3/TR2 38 KHZ 6V	
E715	715G5671R01000004X	IB BOARD PCB	
	KEPFCXA2	KEY BOARD	
CN01	033G8032 4F X	WAFER 4P 1.25MM	
R04	061G08051001FT	RST CHIP 1K 1/8W 1%	
R03	061G08051801FY	RST CHIP R 1K8 +/-1% 1/8W	
R02	061G08052701FY	RST CHIP 2K7 1/8W 1%	
R07	061G08057500FF	RST CHIPR 750 OHM +/-1% 1/8W FENGHUA	
R06	061G08057500FF	RST CHIPR 750 OHM +/-1% 1/8W FENGHUA	
R05	061G08057500FF	RST CHIPR 750 OHM +/-1% 1/8W FENGHUA	
R01	061G08057501FY	RST CHIP R 7K5 1/8W +/-1%	
SW07	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW05	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW06	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW02	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW03	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW04	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW01	077G 607 2 FD	CHIP TACT SW BY FORWARD SFKQGMA2125T-PL	
SW03	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW04	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW02	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW05	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW06	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW07	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	
SW01	077G 607 2 HC	TACT SW 4P 1.5mm 160g TS-4402-1.58B-01	

CN01	311GW125D04ADJ	WAFER 1.25mm 4P R/A 1.25T-11-4PWB
	709T52980XS001	COMSUPTIVE ASS'Y
E715	715G5298K01000004S	KEY BOARD PCB
E750	LCV315TU4AXA08011X	PANEL TPT315B5-TU4A R00A XM TPV
	P12G6311010	RUBBER PAD SILICONE
	P15T1414C01000GMZ1	BKT_IO
	P15T1442C01000GMZ1	BKT_IO
	P15T1619101	BKT_HINGE SGCC 1.2 mm
	P20G0029001	DIE-CASTING
	P33T0359ADTV1L0100	COVER_FUNCTION
	P33T0361ADT01L0100	KEY
	P33T03900ED01C0100	LENS_IR
	P33T0391XHZ01C0100	LENS_POWER
	P34T10810GM05K0100	REAR_COVER
	P34T1083AFL01L01BA	BASE
	P34T1133ADTZ1L01BA	DECO_BEZEL
	P34T11340GM01K0100	COVER_STAND
	PLTVCL246AXGL	ADAPTER BOARD NA
	040G 45762412B	OTHER LABEL
CN801	033G3802 12 H X	WAFER 12P 2.0mm H W2011-12RVA-S01
IC9102	056G 139 8	Photo-Coupler PS2561DL1-1 CTR Q100~200%
RV9901	061G 46561 WB	VARISTOR 560V 10% 14
R8107	061G3SWJ70759B SY	RST WD 0.07R 5% 3W
C9901	063G 10722410V	0.22UF 275VAC ARCO
C9907	063G 10722410V	0.22UF 275VAC ARCO
C9144	067G 42Z68015K	EC 68UF 20% 450V 12.5*50 2000 hr
C9145	067G 42Z68015K	EC 68UF 20% 450V 12.5*50 2000 hr
FB9105	071G 55 21	FERRITE BEAD
FB9104	071G 55 21	FERRITE BEAD
FB9102	071G 55906	FERRITE CORE 510R C8B R6H 6x9.2(A)
L9902	073G 174241 X	LINE FILTER 18MH MIN EF20 3LFEF2022-303M
L9901	073G 174241 X	LINE FILTER 18MH MIN EF20 3LFEF2022-303M
L8101	073G 174259 CP	BOOST CHOKE 33UH 10% 2.5A L020341-6
L9103	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG
L9101	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG
L9102	073G 253214 H	CHOKE COIL 47UH 10% L470R HA
CN901	087G 50147D HC	AC SOCKET R/A 2P 12DEGREE H=12.8
BD901	093G 50460938	BRIDGE TS6B06G-05-X0 6A 800V KBJ
	0Q1G 340 8140	SCREW Q1-SELF TAPING SCREW :Q x8.0
CN903	311GW250B13BBX	WAFER 2.5mm 13P R/A 35mm 7mm
NR9901	361G0058509MYW005A	NTCR 5R 20% 3.1W SCK13055MTY501
T9101	380GL32P102N00	X'FMR 320uH 10% 5uH YUVA-1986-3
	705TXC57899	Q9101 ASS'Y
Q9101	057G 667956	MOSFET TK13A65U(STA4,X.M) 13A 650V SC-67
	0M1G 930 8120	SCREW 3x8
HS9101	Q90G0219 2	HEAT SINK
	705TXC84025	F901 ASS'Y
F901	084G 34 14	FUSE ---
F901	084G 41 3	T3.15AH250V 02153.15 LITTLEFUSE
	705TXC93986	D9104&D9107 ASS'Y
D9107	093G 52 57	RECTIFIER FMXA-2202S 20A 200V TO-220F
D9104	093G1506 2	SCHOTTKY FMW-2156 15A 60V TO-220
	0M1G1730 8120	SCREW 3x8
Q9107	357G0600A02	MOSFET AOTF409 24A 60V 43W TO-220FL

HS9102	Q90G0219 3	HEAT SINK	
IC9105	056G 158501	IC AS431AN-E1 SOT23	
IC8104	056G 368909	Others IC TPS54231DR SO-8	
IC9101	056G 379190	AC/DC CONVERTER LD7750RGR SOP-7	
IC9901	056G 665142	Others CAP004DG-TL SOP-8	
IC8501	056G 700 34	LED DRIVER PF7001S SOP-14	
Q8101	057G 600923	MOSFET AOD4126 TO-252	
Q9105	057G 763904	TRA FET 2N7002 SOT-23 PHILIPS	
Q9108	057G 763904	TRA FET 2N7002 SOT-23 PHILIPS	
R9105	061G0805100 JF	RST CHIPR 10 OHM +-5% 1/8W FENGHUA	
R8104	061G0805100 JF	RST CHIPR 10 OHM +-5% 1/8W FENGHUA	
R9202	061G08051000FY	RST CHIPR 100 OHM +-1% 1/8W YAGEO	
R9201	061G08051000FY	RST CHIPR 100 OHM +-1% 1/8W YAGEO	
R9137	061G08051003FT	RST CHIP 100K 1/8W 1%	
R9138	061G08051003FT	RST CHIP 100K 1/8W 1%	
R9154	061G0805102 JI	RST 0805 1K 5% 1/8W	
R9107	061G0805103 JT	RST 0805 10K 5% 1/8W	
R9155	061G0805103 JT	RST 0805 10K 5% 1/8W	
R9129	061G0805103 JT	RST 0805 10K 5% 1/8W	
R9108	061G0805104 JT	RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN	
R9134	061G0805106 JT	RST CHIPR 10M +-5% 1/8W TZAI YUAN	
R9125	061G08051102FT	RST 0805 11K 1% 1/8W SMD0805011KF	
R9146	061G08051501FF	RST CHIPR 1.5KOHM +-1% 1/8W FENGHUA	
R8102	061G0805154 JF	RST CHIPR 150KOHM +-5% 1/8W FENGHUA	
R8102	061G0805154 JI	RST 0805 150K 5% 1/8W	
R8119	061G0805154 JT	RST CHIP 150K 1/8W 5% TZAI YUAN	
R8111	061G0805183 JT	RST CHIP 18K 1/8W 5%	
R8105	061G0805229 JF	RST CHIPR 2R2 +-5% 1/8W FENGHUA	
R9151	061G08052431FY	RST CHIP 2K43 1/8W 1%	
R9143	061G08052702FT	RST CHIP 27K 1/8W 1%	
R9148	061G08053001FI	RST CHIPR 3KOHM +-1% 1/8W 0805	
R9144	061G08053001FT	RST CHIP R 3K 1/8W +/-1%	
R9170	061G0805331 JT	RST CHIP 330R 1/8W 5% TZAI YUAN	
R8108	061G0805331 JT	RST CHIP 330R 1/8W 5% TZAI YUAN	
R9169	061G0805331 JT	RST CHIP 330R 1/8W 5% TZAI YUAN	
R9126	061G0805333 JI	RST CHIPR 33KOHM +-5% 1/8W 0805	
R9157	061G0805333 JT	RST CHIP 33K 1/8W 5% TZAI YUAN	
R9119	061G0805334 JF	RST CHIPR 330KOHM +-5% 1/8W FENGHUA	
R9119	061G0805334 JT	RST CHIP 330K 1/8W 5% TZAI YUAN	
R9118	061G08053902FF	RST CHIPR 39KOHM +-1% 1/8W FENGHUA	
R9118	061G08053902FT	RST CHIP 39K 1/8W 1%	
R9139	061G0805392 JF	RST CHIPR 3.9KOHM +-5% 1/8W FENGHUA	
R8117	061G08054301FY	RST CHIPR 4K3 +-1% 1/8W YAGEO	
R9106	061G0805470 JT	RST CHIPR 47OHM +-5% 1/8W TZAI YUAN	
R9156	061G08054702FF	RST CHIPR 47KOHM +-1% 1/8W FENGHUA	
R9109	061G0805471 JT	RST CHIPR 470OHM +-5% 1/8W TZAI YUAN	
R8101	061G08055102FI	RST 51K OHM 1% 1/8W TA-I	
R9133	061G0805514 JT	RST CHIPR 510K +-5% 1/8W TZAI YUAN	
R9140	061G0805562 JF	RST CHIPR 5.6kOHM +-5% 1/8W FENGHUA	
R9117	061G0805751 JF	RST CHIPR 750 OHM +-5% 1/8W FENGHUA	
R9145	061G0805911 JF	RST CHIPR 910 OHM +-5% 1/8W FENGHUA	
JR9103	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
JR9105	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
JR9104	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	

JR9102	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
R8103	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	
R9161	061G1206000 JI	RST 1206 MAX0R05 5% 1/4W	
R9110	061G1206100 JF	RST CHIPR 10 OHM +-5% 1/4W FENGHUA	
R8110	061G12061003FI	RST 1206 100K 1% 1/4W	
R8116	061G12061003FI	RST 1206 100K 1% 1/4W	
R9160	061G1206101 JI	RST 1206 100R 5% 1/4W	
R9158	061G1206101 JI	RST 1206 100R 5% 1/4W	
R8106	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	
R8113	061G12061809FT	RST 1206 18R 1% 1/4W	
R9150	061G12062003FF	RST CHIPR 200KOHM +-1% 1/4W FENGHUA	
R9150	061G12062003FT	RST CHIPR 200KOHM +-1% 1/4W TZAI YUAN	
R9147	061G1206202 JI	RST 2K OHM 5% 1/4W TA-I	
R9120	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	
R9122	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	
R9121	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	
R9112	061G1206339 JT	RST CHIPR 3.3 OHM +-5% 1/4W TZAI YUAN	
R9114	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	
R9116	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	
R9115	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	
R9153	061G1206471 JI	RST 470 OHM 5% 1/4W TA-I	
R9113	061G1206519 JT	RST CHIPR 5.1 OHM +-5% 1/4W TZAI YUAN	
R9102	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	
R9101	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	
R9103	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	
C9138	065G080510131J F	CAP CHIP 0805 100PF J 50V NPO	
C8117	065G080510231J F	CAP 0805 1NF 5% 50V NPO	
C9149	065G080510231J F	CAP 0805 1NF 5% 50V NPO	
C8110	065G080510231J F	CAP 0805 1NF 5% 50V NPO	
C9150	065G080510231J F	CAP 0805 1NF 5% 50V NPO	
C8118	065G080510231J F	CAP 0805 1NF 5% 50V NPO	
C8117	065G080510231J M	CAP 0805 1NF 5% 50V NP0	
C9149	065G080510231J M	CAP 0805 1NF 5% 50V NP0	
C9150	065G080510231J M	CAP 0805 1NF 5% 50V NP0	
C8110	065G080510231J M	CAP 0805 1NF 5% 50V NP0	
C8118	065G080510231J M	CAP 0805 1NF 5% 50V NP0	
C9124	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	
C9130	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	
C8108	065G080510332K Y	CAP CHIP 0805 10N 50V X7R +/-10%	
C8114	065G080510332K Y	CAP CHIP 0805 10N 50V X7R +/-10%	
C9106	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C9118	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C9112	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9117	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C8105	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9132	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9134	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C8109	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C8104	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9115	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9133	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9127	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C9105	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C8103	065G080510532K M	CAP 0805 1UF 10% 50V X7R	

C9114	065G080510532K	M	CAP 0805 1UF 10% 50V X7R	
C9147	065G080510532K	M	CAP 0805 1UF 10% 50V X7R	
C9123	065G080515332K	Y	CAP CHIP 0805 15N 50V X7R +/-10%	
C9110	065G080522232K	Y	CAP CHIP 0805 2N2 50V X7R +/-10%	
C9121	065G080522232K	Y	CAP CHIP 0805 2N2 50V X7R +/-10%	
C9109	065G080522332K	Y	CAP CHIP 0805 22N 50V X7R +/-10%	
C9128	065G080522432K	Y	CAP CHIP 0805 220N 50V X7R +/-10%	
C9122	065G080522512K	M	CAP 0805 2.2UF 10% 16V X7R	
C9108	065G080547131J	Y	CAP CHIP 0805 470P 50V NPO +/-5%	
C9146	065G1206102B2K	Y	CAP 1206 1NF 10% 630V X7R -	
C9148	065G1206102B2K	Y	CAP 1206 1NF 10% 630V X7R -	
C9125	065G1206102B2K	Y	CAP 1206 1NF 10% 630V X7R -	
D8108	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
D8103	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
D8104	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
D8106	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
D8107	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
D8105	093G 64 33		SWITCHING BAV99 0.2A 85V SOT-23	
ZD9103	093G 39S952	T	ZENER BZT52-B6V2 -R1-10001 6.2V 0.41W SO	
ZD9104	093G 39S953	T	ZENER BZT52-B9V1 9.1V 0.41W SOD-123	
D8102	093G 60S 15	T	SCHOTTKY RB160M 60 TR 1A 60V SOD-123	
D9108	093G 60S 15	T	SCHOTTKY RB160M 60 TR 1A 60V SOD-123	
D9105	093G 60S 15	T	SCHOTTKY RB160M 60 TR 1A 60V SOD-123	
D9109	093G 60S 15	T	SCHOTTKY RB160M 60 TR 1A 60V SOD-123	
D9102	093G 60S934	T	DIODE SS0520 SOD-123	
D9110	093G 60S934	T	DIODE SS0520 SOD-123	
D9106	093G 60S935	T HF	SCHOTTKY SK34A R2G 3A 40V DO-214AC	
R8123	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8136	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8128	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8138	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8121	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8125	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8122	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8139	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8126	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8132	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8127	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8137	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
R8124	361G12061699FT		RST CHIPR 1206 16R9 1% 1/4W	
D8101	393G0060A11		HF SCHOTTKY MBRD10150D 10A 150V TO-252	
D8101	393G0060A14		SCHOTTKY SM10150D1-C 10A 150V (D-Pack)	
ZD9107	393G039SA1300T		ZENER BZT52-B39_R1_00001 39V 0.41W	
ZD9105	393G039SA1400T		ZENER BZT52-B16_R1_00001 16V 0.41W	
	PLCL246AXGLAI		ADAPTER BOARD FOR AI	
T9101	006G 31 4		1.7MM RIVET	
BD901	006G 31 4		1.7MM RIVET	
CN9902	006G 31500		EYELET	
CN901	006G 31500		EYELET	
L9902	006G 31502		EYELET	
C9145	006G 31502		EYELET	
NR9901	006G 31502		EYELET	
C9907	006G 31502		EYELET	
C9144	006G 31502		EYELET	

C9901	006G 31502	EYELET
RV9901	006G 31502	EYELET
L9901	006G 31502	EYELET
IC9103	056G 158 12	Shunt Regulator KIA431A-AT/P TO-92
Q8111	057G 417513 T	TRA 2N3904 TO-92
Q8105	057G 417513 T	TRA 2N3904 TO-92
Q8112	057G 417513 T	TRA 2N3904 TO-92
Q8113	057G 417513 T	TRA 2N3904 TO-92
Q8115	057G 417513 T	TRA 2N3904 TO-92
Q8103	057G 417513 T	TRA 2N3904 TO-92
Q8109	057G 417513 T	TRA 2N3904 TO-92
Q8114	057G 417513 T	TRA 2N3904 TO-92
Q8106	057G 417513 T	TRA 2N3904 TO-92
Q8102	057G 417513 T	TRA 2N3904 TO-92
Q8104	057G 417513 T	TRA 2N3904 TO-92
Q8107	057G 417513 T	TRA 2N3904 TO-92
Q8110	057G 417513 T	TRA 2N3904 TO-92
Q8108	057G 417513 T	TRA 2N3904 TO-92
R8118	061G 60210552T TZ	RST CFR 1M 1/6W 5%
R9111	061G152M24852T SY	RST MOFR 0.24OHM +-5% 2WS SY
R9104	061G152M82352T SY	RST MOFR 82KOHM +-5% 2WS FUTABA
R9159	061G208M10052T SY	RST MOF 10R 5% 1W
R9903	061G212Y39452T SY	RST MGF 390K 5% 1/2W RMU12J3903A520NL
R9901	061G212Y39452T SY	RST MGF 390K 5% 1/2W RMU12J3903A520NL
C8106	065G 1K10223T	CAP CER 1NF 10% 1KV Y5P
C9104	065G 1K22293S	CAP CER 2.2NF 10% 1KV R TAPING
C8115	065G 1K470 2T6921	CAP CER 47pF K 1KV
C9119	065G 1K470 2T6921	CAP CER 47pF K 1KV
C8116	065G 1K470 2T6921	CAP CER 47pF K 1KV
C9906	065G 1K470 2T6921	CAP CER 47pF K 1KV
C9905	065G306K1012SR	CAP Y1 100PF 10% 250V Y5P
C9903	065G306K1012SR	CAP Y1 100PF 10% 250V Y5P
C9316	065G306K2212SR	CAP Y1 220PF 10% 250V Y5P
C9908	065G306K47123R	CAP Y1 470PF 10% 250V Y5P
C9908	065G306K4712SR	CAP Y1 470PF 10% 250V Y5P
C9904	065G306M1023SR	CAP Y1 1NF 20% 250V Y5U
C9902	065G306M1023SR	CAP Y1 1NF 20% 250V Y5U
C9315	065G306M1023SR	CAP Y1 1NF 20% 250V Y5U
C9107	067G 3154707KT	EC 47UF 20% 50V ER1H470MPN1007RU
C8113	067G 5151018KT	EC 100UF 20% 63V EV1J101MPN1012RSU
C8102	067G 5151018KT	EC 100UF 20% 63V EV1J101MPN1012RSU
C9120	067G 5153316KT	EC 330UF 20% 35V 10*12 5000 hr
C8101	067G 5153316KT	EC 330UF 20% 35V 10*12 5000 hr
C9113	067G 5154713KT	EC 470 20% 16V EV
C9111	067G204S3313KT	CAP CS 330UF 20% 16V 10*7 2000 hr
C9116	067G215P2714KT	EC 270UF 20% 25V 10*9
C9131	067G515S4716KT	EC 470UF 20% 35V 12.5*12 EC EC1V471MPN
FB9106	071G 55 29	FERRITE BEAD
FB9103	071G 55 29	FERRITE BEAD
FB9101	071G 55 29	FERRITE BEAD
ZD9106	093G 3918652T	TVS P6KE27A 27V 100A 600W DO15
ZD9101	093G 39G 6	ZENER MTZJ27B 27V 0.5W DO-35
D9103	093G110050152T	DIODE PR1007 1A/1000V 500ns DO-41
D9101	093G110050152T	DIODE PR1007 1A/1000V 500ns DO-41

J9117	095G 90 23	JUMP WIRE --
J9101	095G 90 23	JUMP WIRE --
J9113	095G 90 23	JUMP WIRE --
J9105	095G 90 23	JUMP WIRE --
J9102	095G 90 23	JUMP WIRE --
J9109	095G 90 23	JUMP WIRE --
J8108	095G 90 23	JUMP WIRE --
J9116	095G 90 23	JUMP WIRE --
J8110	095G 90 23	JUMP WIRE --
J9104	095G 90 23	JUMP WIRE --
J8111	095G 90 23	JUMP WIRE --
J8102	095G 90 23	JUMP WIRE --
J9114	095G 90 23	JUMP WIRE --
J8106	095G 90 23	JUMP WIRE --
J9112	095G 90 23	JUMP WIRE --
J8107	095G 90 23	JUMP WIRE --
J9103	095G 90 23	JUMP WIRE --
J9107	095G 90 23	JUMP WIRE --
J9110	095G 90 23	JUMP WIRE --
J8104	095G 90 23	JUMP WIRE --
J8105	095G 90 23	JUMP WIRE --
J9108	095G 90 23	JUMP WIRE --
J9106	095G 90 23	JUMP WIRE --
J9111	095G 90 23	JUMP WIRE --
J8101	095G 90 23	JUMP WIRE --
J9115	095G 90 23	JUMP WIRE --
J8103	095G 90 23	JUMP WIRE --
J8109	095G 90 23	JUMP WIRE --
C9126	363G213K2224TA	CAP DMPE 2.2nF 10% 630V RSBPC1220SH00K
C9140	367G415X3317KT	EC 330UF 20% 50V 12.5*12
C9142	367G415X3317KT	EC 330UF 20% 50V 12.5*12
C9143	367G415X3317KT	EC 330UF 20% 50V 12.5*12
C9141	367G415X3317KT	EC 330UF 20% 50V 12.5*12
E715	715G5508P01001002M	POWER BOARD PCB
	Q11G701017000L00ZL	PCB-SUPPORT PA66 YES 94V-V0
	Q12G6300 25 3	FOOT PAD
	Q40G0003615D90	OTHER LABEL
	Q45G99010TV03900WN	PROTECT BAG
	Q50G 4 10	TIE (Y1900221)
	Q50G 500 TV005	CABLE TIE
	Q52G 1185 99	BIG CARTON TAPE FOR AOC 72MM
	Q52G1501150523 W	INSULATING PLATE
	Q52G18010TV056	TAPE_INSULATING
	X40G0002615A06	POS STICKER LABEL
	X40G2012032X8600ZA	IO LABEL
	X40G2012032X8700ZA	LABEL SIDE
	X41G78DV61508A	WARRANTY CARD
	X44GJA531020YX	CUSHION-TL
	X44GJA532020YX	CUSHION-TR
	X44GJA533020YX	CUSHION-BL
	X44GJA534020YX	CUSHION-BR
	X44GJA5361504A	ARTWORK CARTON ASA LE32A3330/61
E089	089G202A15N JR	AC POWER CORD 1500mm
E092	092GB1JX1A3EGC	BATTERY 1.5V LR03 LR03alkali

E098	098GRABD6NEACD	REMOTE AOC 90-364100T4425	2nd source
	0M1G1740 12225 CR3	SCREW M1-MACHINE SCREW x12.0	
E098	398GRABDFNEACC	REMOTE AOC RL76E ENGLISH	
	Q45G2010M0101A	pe bag for manual	
	Q45T 76 28NV2 R	PE BAG FOR BASE SCREW sz02742	
	X41G32MV61532B	MANUAL LE32A3330/61 india	
	040G 58162435A	MANUAL P/N LABEL	
	Q40G 581689 4B	SN LABEL(58x35mm)	
	Q40G0001954 1A	S/N LABEL	
	X40G0001624 2A	Label for screw pe bag	
	X40G032061549A	RATING LABEL --LE32A3330/61	