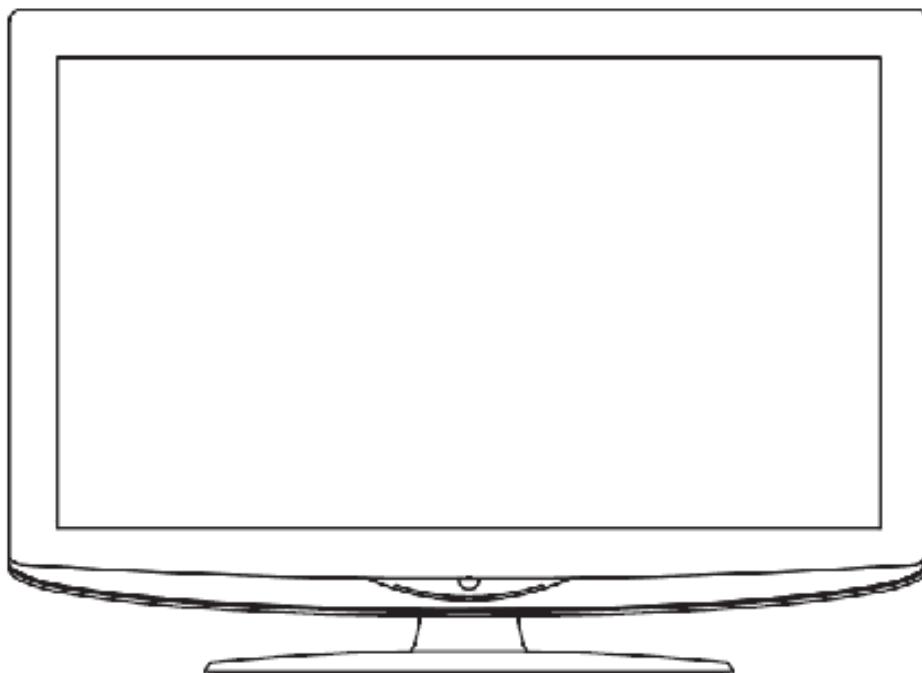




Acer AT3247 & AT3248 Service Guide

Service Guide Version and Revision

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ACER AT3247 & AT3248 Service Manual.

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Remind you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office may have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

Warning: (For FCC Certified Models)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Warning:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerous high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

Precautions

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

Special Notes on LCD TV Monitors

The following symptoms are normal with LCD TV monitor and do not indicate a problem.

Notes

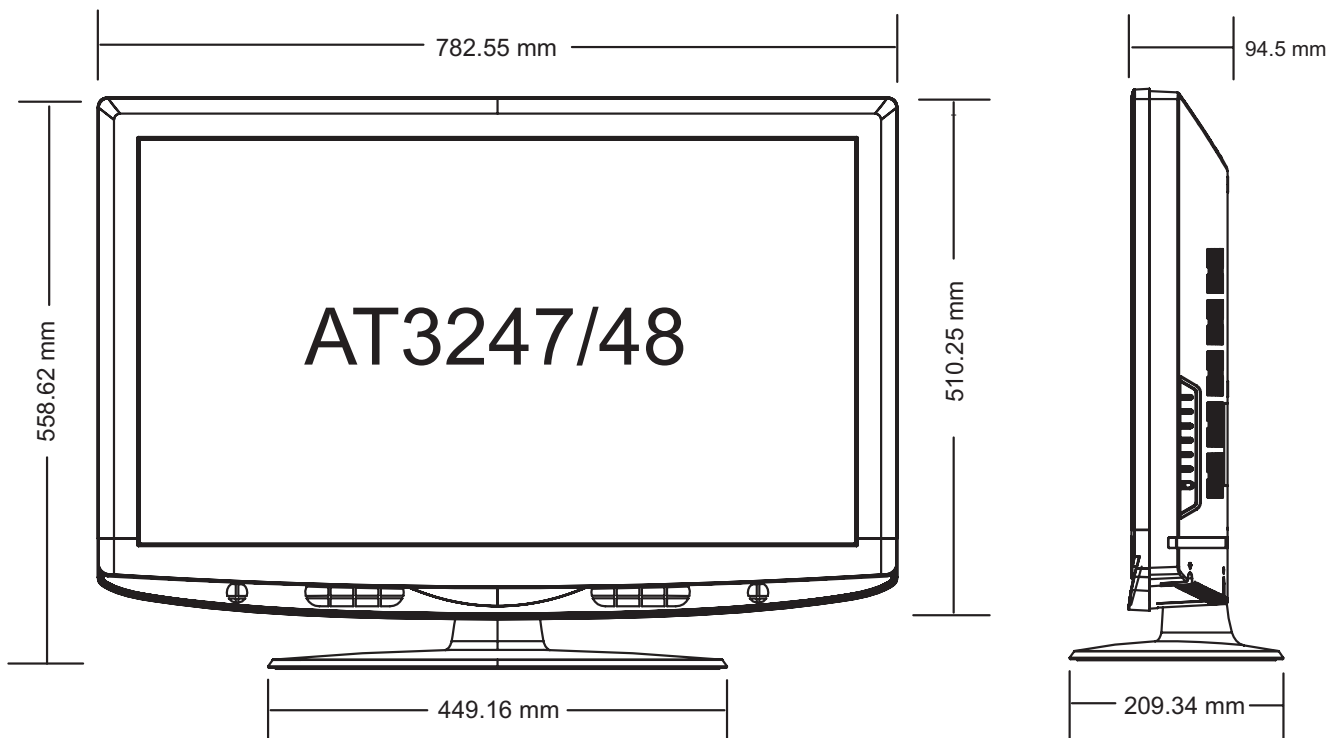
- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD TV screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD TV screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Model	AT3247	AT3248
Panel spec		
Resolution (pixels)	1366 x 768	
Brightness (typ.)	500 nit	
Contrast Ratio (typ.)	1200:1	
Dynamic Contrast Ratio (max.)	22000:1	
Viewing angle (typ.)	H: 178° ; V: 178°	
Response (typ.)	8 ms (Grey to Grey)	
Power supply		
Input	220 - 240 V-AC (50 - 60 Hz)	
Max. power consumption	<140 W	
Power saving	<1 W	
Mechanical		
Dimensions (W x H x D mm) (with stand)	782.54 x 558.62 x 207.36	
Dimensions (W x H x D mm) (without stand)	782.54 x 510.25 x 94.5	
Weight (kg) (with stand)	11.25	
Wefight (kg) (without stand)	10.00	
Gross weight (kg)	13.97	
Analog TV system		
Colour system	PAL, SECAM	
Sound system	B/G/D/K/I/L	
Stereo system	NICAM/A2	
Subtitle	Teletext 1.5 (1000 pages)	
Digital TV system		
Digital TV standard	DVB-T	DVB-T HD (H.264)
Sound system	ISO11172-3 layer1 & layer2 32 kHz,44.1 kHz,48 kHz	
Stereo system	PCM / MPEG (Layer I & II) Stereo 32 / 44.1 / 48 kHz	PCM / MPEG (Layer I & II) Stereo 32 / 44.1 / 48 kHz, Dolby AC-3
Frequency	7/8 MHz	

Terminal		
Analog/ Digital Tuner In	Hybird	
SCART 1	CVBS (In/Out), RGB (In), Audio R/L	
SCART 2	CVBS (In/Out), S-video (In), Audio R/L	
Component in	YPbPr, Audio (R/L)	
AV-in	CVBS, Audio (R/L)	
HDMI 1	Yes (HDMI 1.3)	
HDMI 2	Yes (HDMI 1.3)	
HDMI 3	Yes (HDMI 1.3)	
PC D-sub in	Yes	
PC audio-in	Yes	
SPDIF out	N/A	Yes (Optical)
Headphone out	Yes	
CA/CI	Yes	
USB port	Service only	
Service Port	Yes	
Resolution		
HDMI	480i/p, 576i/p, 720p, 1080i	
Audio system		
Speakers	10 W + 10 W	



LCD TV Description

The LCD TV will contain a main board (include audio), a switching power board, a function keyboard, an IR Board and a side board. The main board and power board will house the flat panel to control logic I2C bus, DDC, brightness control logic for LCD panel, DC-DC conversion to supply the appropriate power to the whole board and transmitting TTL level signals into LCD Module to drive the LCD display circuit.

The inverter board will drive the five CCFLs (Cold Cathode Fluorescent Lamp).

The switching power board will provides the power ON/OFF to control the TV and control LED indicator for DPMS.

The function keyboard and Remote Control will provide the OSD control signal to the Main Board.

Precautions and Notices

1-1 Assembly Precaution

- (1) Please do not press or scratch LCD panel surface with anything hard. And do not soil LCD panel surface by touching with bare hands (Polarize film, surface of LCD panel is easy to be flawed)
In the LCD panel, the gap between two glass plates is kept perfectly even to maintain display characteristic and reliability. If this panel is subject to hard pressing, the following occurs :
 - (a) Uniform color
 - (b) Orientation of liquid crystal becomes disorder
- (2) Please wipe out LCD panel surface with absorbent cotton or soft cloth in case of it being soiled.
- (3) Please wipe out drops of adhesive like saliva and water in LCD panel surface immediately.
They might damage to cause panel surface variation and color change.
- (4) Do not apply any strong mechanical shock to the LCD panel.

1-2 Operating Precaution

- (1) Please be sure to unplug the power cord before remove the back-cover. (be sure the power is turn-off)
- (2) Please do not change variable resistance settings in MAIN-BOARD; they are adjusted to the most suitable value. If they are changed, it might happen LUMINANCE does not satisfy the white balance spec.
- (3) Please consider that LCD backlight takes longer time to become stable of radiation characteristic in low temperature than in room temperature.
- (4) Please pay attention to displaying the same pattern for very long-time. Image might stick on LCD.

1-3 Storage Precaution

- (1) When you store LCD for a long time, it is recommended to keep the temperature between -20°C - 60°C without the exposure of sunlight and to keep the humidity less than 85% RH.
- (2) Please do not leave the LCD in the environment of high humidity and high temperature such as 60°C, 95%RH.
- (3) Please do not operate the LCD in the environment of abnormal temperature, below 0°C.

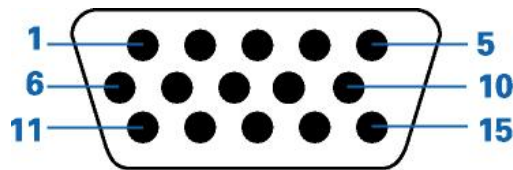
1- 4 High Voltage Warning

The high voltage was only generated by Power support part, if carelessly contacted the transformer on this module, can cause a serious shock.

D-SUB PIN Distribution

This procedure gives you instructions for installing and using the LCD TV display.

- (1) Position the display on the desired operation and plug the power cord into a convenient AC outlet. Three-wire power cord must be shielded and is provided as a safety precaution as it connects the chassis and cabinet to the electrical conduct ground. If the AC outlet in your location does not have provisions for the grounded type plug, the installer should attach the proper adapter to ensure a safe ground potential.
- (2) Connect the 15-pin color display shielded signal cable to your signal system device and lock both screws on the connector to ensure firm grounding. The connector information is as follow:



15 - Pin Color Display Signal Cable

Pin NO.	Description	Pin NO.	Description
1	Red video input	9	DDC +3.3V (or 5V)
2	Green video input /SOG	10	Logic ground
3	Blue video input	11	GND
4	GND	12	Serial data line (SDA)
5	GND— cable detect	13	H. Sync / H+V
6	Red video ground	14	V. Sync
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

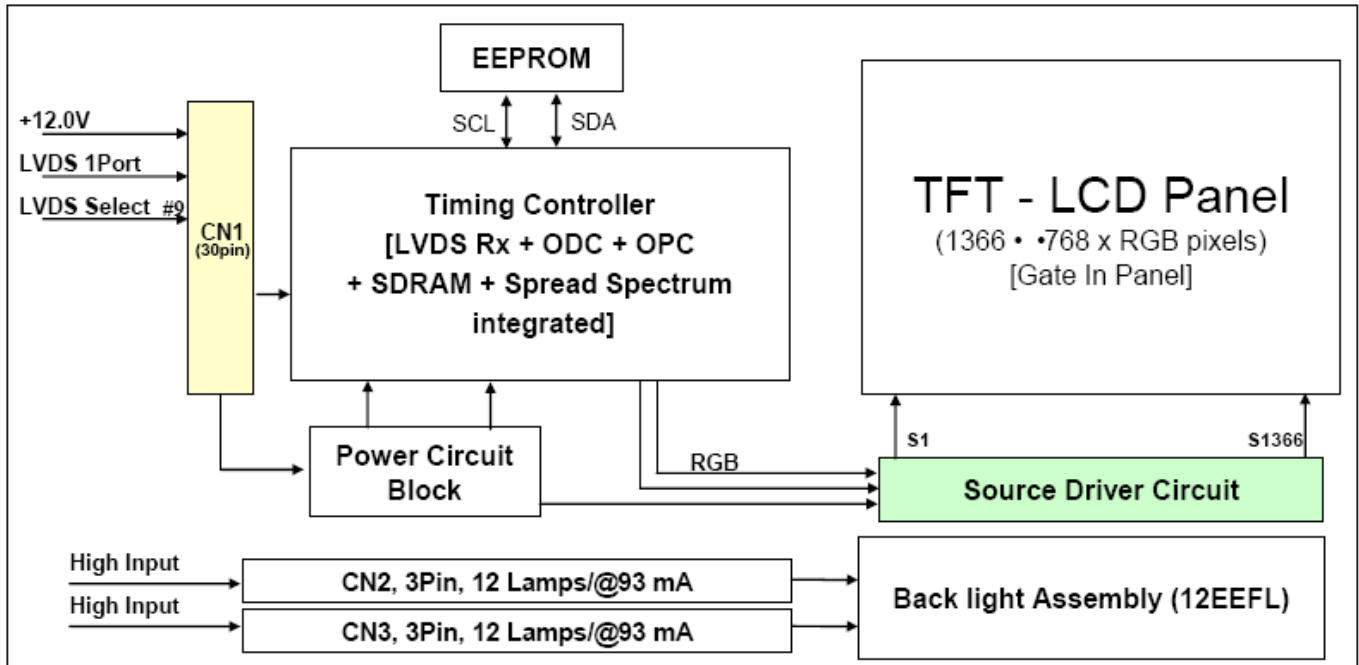
Factory Preset Display Modes:

VGA/HDMI Input Signal Reference Chart

	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Standard
1	640 x 480	31.5	60.0	VGA
2	640 x 480	37.9	72.8	VGA
3	640 x 480	37.5	75.0	VGA
4	640 x 480	35.0	66.7	MAC
5	720 x 400	31.5	70.1	VESA
6	800 x 600	35.2	56.3	SVGA
7	800 x 600	37.9	60.3	SVGA
8	800 x 600	46.9	75.0	SVGA
9	832 x 624	49.7	74.6	MAC
10	1024 x 768	48.4	60.0	XGA
11	1024 x 768	56.5	70.1	XGA
12	1024 x 768	60.0	75.0	XGA
13	1280 x 720	45.0	59.9	VESA
14	1366 x 768	47.7	59.8	VESA

LCD TV Panel Specification

The LC320WXE is a Color Active Matrix Liquid Crystal Display with an integral External Electrode Fluorescent Lamp (EEFL) backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally black mode. It has a 31.51 inch diagonally measured active display area with WXGA resolution (768 vertical by 1366 horizontal pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the luminance of the sub-pixel color is determined with a 8-bit gray scale signal for each dot, thus presenting a palette of more than 16.7M(true) colors.



General Specifications

Active Screen Size	31.51 inches(800.4mm) diagonal
Outline Dimension	760.0 mm(H) x 450.0 mm(V) x 43.0 mm(D) (Typ.)
Pixel Pitch	510.75• x 170.25• x RGB
Pixel Format	1366 horiz. by 768 vert. pixels RGB stripe arrangement
Color Depth	8bit, 16,7 M colors
Luminance, White	500 cd/m ² (Center 1 point) (Typ.)
Viewing Angle (CR>10)	Viewing angle free (R/L 178(Min.), U/D 178(Min.))
Power Consumption	Total 87.5Watt (Typ.) (Logic=3.5 W, Inverter= 84W [VBR-A=1.65V])
Weight	5,5Kg(Typ.)
Display Operating Mode	Transmissive mode, normally black
Surface Treatment	Hard coating(3H), anti-glare treatment of the front polarizer (Haze 10%)

Electrical Characteristics

Parameter	Symbol	Value			Unit
		Min	Typ	Max	
Circuit :					
Power Input Voltage	VLCD	10.8	12.0	13.2	V [DC]
Power Input Current	ILCD	-	290	380	mA
		-	400	520	mA
Power Consumption	PLCD	-	3.5	5.16	Watt
Rush current	IRUSH	-	-	3.0	A

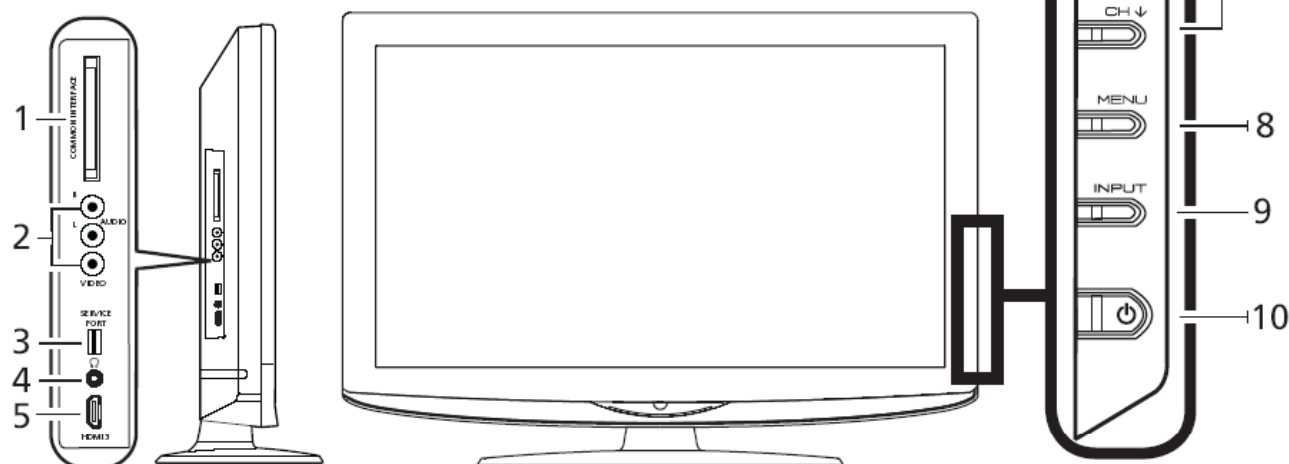
Optical Specifications

Ta= 25±2°C, VLCD=12.0V, fV=60Hz, Dclk=72.4MHz, IBL=93mArms

Parameter		Symbol		Value			Unit
				Min	Typ	Max	
Contrast Ratio		CR		900	1200		
Surface Luminance, white		L _{WH}		400	500		cd/m ²
Luminance Variation		δ _{WHITE}	5P			1.3	
Response Time	Gray-to-Gray	G to G		-	8	12	ms
	Uniformity	δ _{G TO G}		-	-	1	ms
Color Coordinates [CIE1931]	RED	Rx		Typ -0.03	0.636	Typ +0.03	
		Ry			0.335		
	GREEN	Gx			0.291		
		Gy			0.603		
	BLUE	Bx			0.146		
		By			0.061		
	WHITE	Wx			0.279		
		Wy			0.292		
Viewing Angle (CR>10)							
	x axis, right(φ=0°)	θr		89	-	-	degree
	x axis, left (φ=180°)	θl		89	-	-	
	y axis, up (φ=90°)	θu		89	-	-	
	y axis, down (φ=270°)	θd		89	-	-	
Gray Scale				-	-	-	

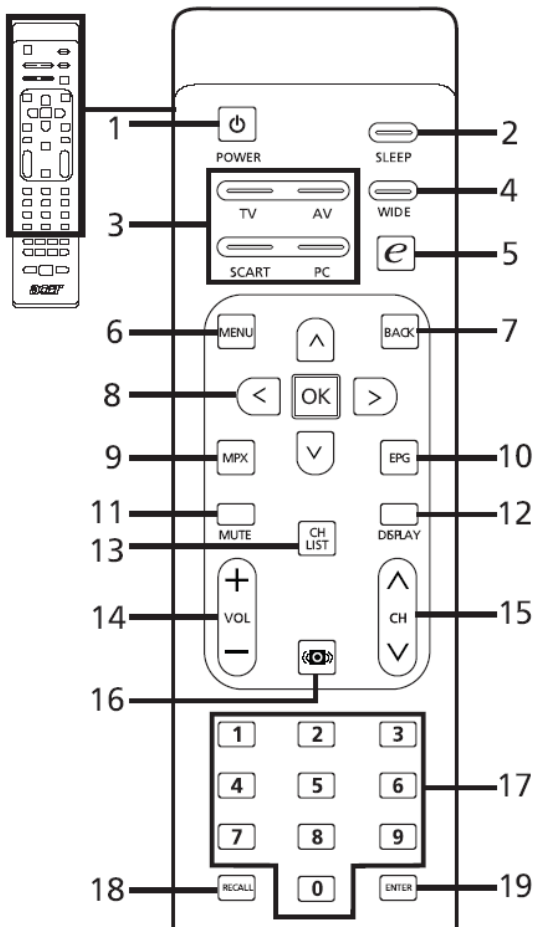
Front panel controls

Front panel view	
1	Common interface
2	AV-in CVBS, Audio L/R
3	USB port (Service only)
4	Headphone* jack
5	HDMI 3



6		Volume up	When the OSD is on, functions the same as the Right arrow.
		Volume down	When the OSD is on, functions the same as the Left arrow.
7		Channel up	When the OSD is on, functions the same as the Up arrow.
		Channel down	When the OSD is on, functions the same as the Down arrow.
8		Menu key	Turns the OSD menu On and Off.
9		Input key	Press to change input source. When the OSD is on, press this button to confirm selection.
10		Power On/Off	Turns the power On and Off.

Using the Remote Control



1 POWER

Press to turn your TV on/off.

2 SLEEP

Press to set a time period after which the TV will switch itself to standby (5, 30, 45, 60, 90 or 20 minutes).

3 Input buttons (TV/AV/SCART/PC)

Press to select correct input mode.

4 WIDE

Press to toggle scaling mode between Wide detect, 4:3, 6:9, Full*, Panorama and Letterbox , 2, 3 modes.

5 e (Empowering Technology)

Press to activate Acer Empowering Technology.

6 MENU

Press to open or close the Menu.

7 Back

Press to back to previous Menu.

8 Directional keys/OK

9 MPX

Press to select the audio type, displayed in the top right-hand corner(mono, stereo, bilingual).

10 EPG

Press to launch Electronic Programme Guide (EPG) mode (Digital TV mode only).

11 MUTE

Press to toggle audio on and off.

12 DISPLAY

Press to display or change input/ channel information (dependent on input/source type).

13 CH LIST

Press to launch the channel list. See page 40.

14 VOL (+/-)

Press to increase or decrease the volume.

15 CH (up/down)

Press to sequentially select the TV channel.

16 Sound

Press to turn audio mode to Surround mode.

17 Number keys.

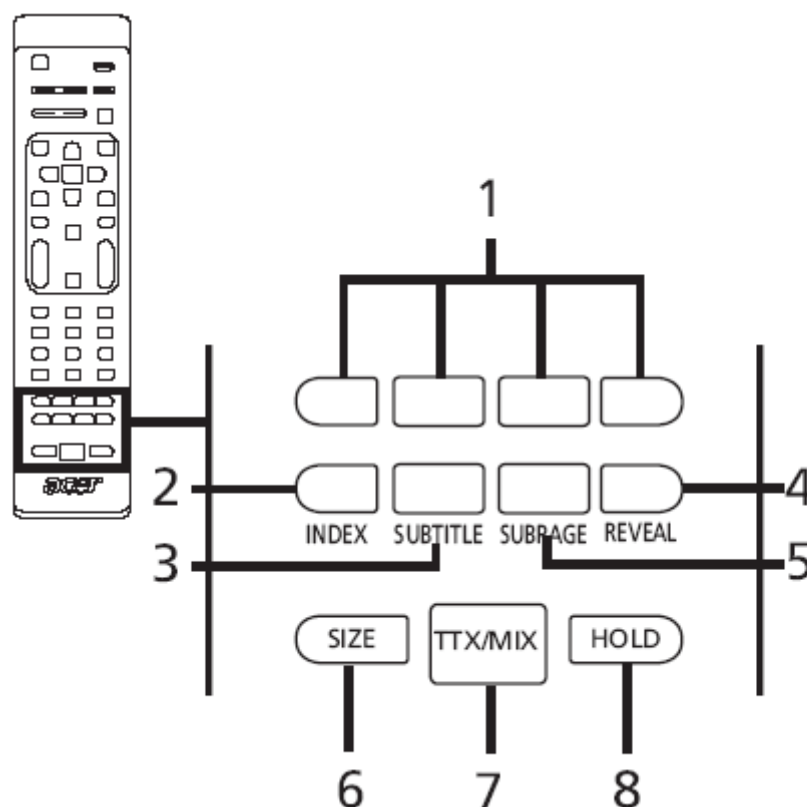
18 RECALL

Press to return to the previous channel.

19 ENTER

Press to confirm channel number selection.

Teletext



1 Color buttons (R/G/Y/B)

Operates corresponding button on the teletext page.

2 INDEX

Press to go to the index page.

3 SUBTITLE

Press to view subtitles on the screen.

4 REVEAL

Press to reveal hidden teletext information.

5 SUBPAGE

Press to access the teletext's subpages directly.

6 SIZE

Press once to zoom teletext page to 2X.

Press again to resume.

7 TTX/MIX (TELETEXT/MIX)

Press to switch from TV/AV to Teletext mode.

Press to overlay teletext page on the TV image.

8 HOLD

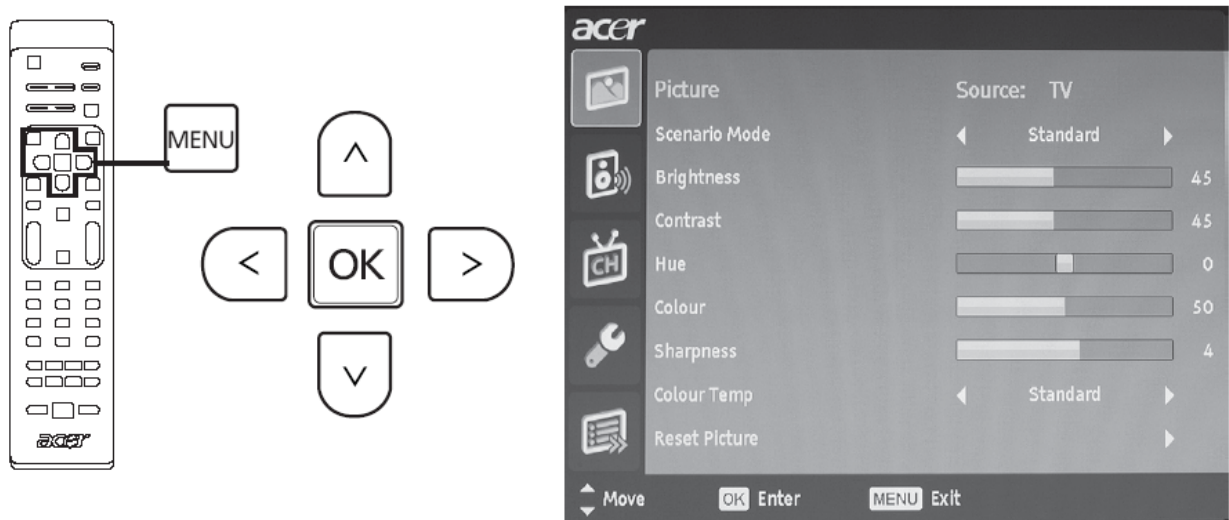
Press to pause the current teletext page in multi-page viewing mode. When watching TV, press to freeze the image on the screen.

Using the OSD Menus

Many of the advanced settings and adjustments are available through using the OSD (onscreen display) menus, as shown in the example screenshot below.

Basic operations required to navigate these menus (Picture, Audio, Channel management, Settings and Advance) are described in this section.

Navigating the OSD with the remote control



You can also interact with these menus using the right panel controls. Please see "Front panel view" on page 8 for details.

There are five main OSD menus. These are: Picture, Audio, Channel management, Settings and Advance. Use the following method to navigate these menus.		
1		Press the MENU button on the remote control or the MENU button on the control panel.
2		Select your desired menu by using the up and down directional keys to switch between the five menus.
3		Use the directional keys to interact with the menu. The up / down directions will scroll through the menu options, while left/right will adjust the different settings (for example, in the Picture menu, settings such as brightness, contrast, etc.). Press MENU to exit.

Adjusting the OSD settings

The OSD can be used for adjusting the settings of your LCD TV.

Press the **MENU** key to open the OSD. You can use the OSD to adjust the picture quality, audio settings, channel settings and general settings. For advanced settings, please refer to following page:

Adjusting the picture quality



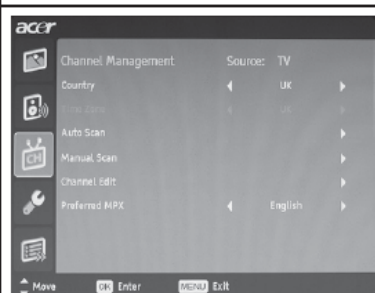
- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Picture** from the OSD. Then navigate to the picture element you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scales.
- 4 The **Picture** menu can be used to adjust the current **Scenario Mode, Brightness, Contrast, Hue, Colour, Sharpness** and other image-related qualities.

Adjusting the audio settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Audio** from the onscreen display. Then navigate to the feature you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scale. Press **OK** to save.
- 4 The **Audio** menu can also be used to adjust the the current **Scenario Mode, Treble, Bass, Balance, Steady Sound, Sound Effect** and other important sound-related settings.

Adjusting the channel management



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Channel Management** from the OSD.
- 3 Use the directional keys to navigate the menus.
- 4 The **Channel management** menu can be used to adjust **Country, Time Zone, Auto Scan, Manual Scan, Channel Edit** and other important channel-related settings.

Adjusting the settings



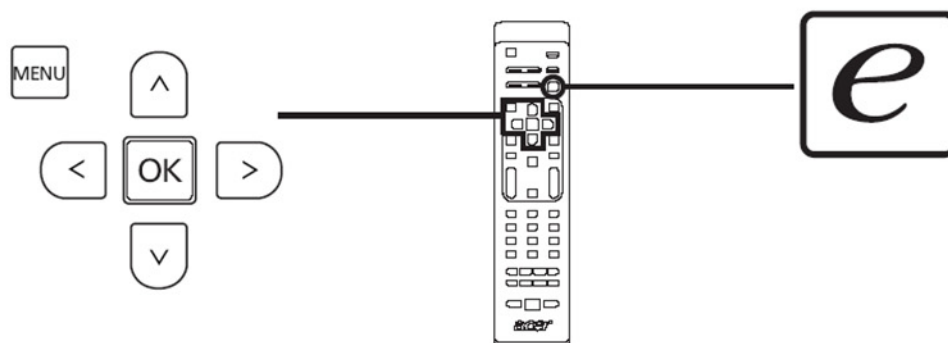
- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Setting** from the OSD. Then navigate to the feature you wish to adjust.
- 3 The **Settings** menu can be used to adjust the screen **Wide Mode, Menu Language, Sleep, Empowering Key Settings** and other important settings.

Adjusting the advance settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Advance** from the OSD. Then navigate to the feature you wish to adjust.
- 3 The **Advance** menu can be used to adjust the **Parental Control**, **Advanced Picture Adjust**, **SCART**, **Preferred Subtitle** and other important settings.

Empowering Technology



The Empowering Key opens up the Acer Empowering Technology functions.

Empowering Technology has choice is between Scenario mode and Favourite channel.

Set-up Empowering mode

To change your Empowering Key's default setting:

Set-up Empowering mode		
1		Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate and select Setting .
3		Highlight Empowering key settings. Then, select the setting you wish to use and press OK to confirm.
4		Press MENU to exit.

Default setting in different Empowering mode

Scenario mode in TV

Scenario mode has five preset viewing modes designed to give you the best picture quality when watching a particular kind of programme. There are five pre-defined audio and video settings for optimal enjoyment of the following scenarios: Standard TV, Movie, Game, Sport, Concert, User.

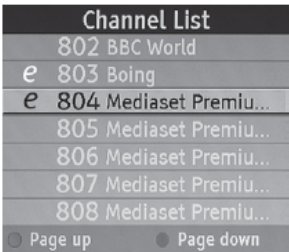
	Pressing the Empowering Key will toggle between the different modes.
---	---

Mode	Information
Standard	Standard mode allows you to watch your favourite channels with sharp, brilliant imagery via adaptive brightness and contrast adjustments, and listen to clear-sounding audio.
Movie	For comfortably enjoying movies at home, Movie mode displays dim scenes in clear detail; compensates for colour; and smoothly presents motion images. This is accomplished through optimal Gamma correction plus saturation, brightness and contrast adjustments. Movie mode makes the most of high-definition movie soundtracks.
Game	Game mode carefully details the exquisite graphics of modern video games, providing lifelike entertainment while protecting your eyesight by adjusting brightness and contrast. What's more, Game mode provides a heightened audio experience.
Sport	Sport mode is suited for outdoor sports programmes, with accurate background depth and clear gradation between the bright, outdoor playing field and darker auditoriums. Sports mode also brilliantly enhances colours and presents swiftly moving pictures without residual images. All of this is achieved via specific Gamma corrections and saturation adjustments. Precise audio can be heard.
Concert	Concert mode places you in a virtual concert hall, opera house or other dim environment by means of adaptive brightness and contrast adjustments. Concert mode accentuates symphonic harmonies and the tenor audio range.
User	User mode allows you to save your favourite video and audio settings.

Favourite channel mode in TV mode (default setting)

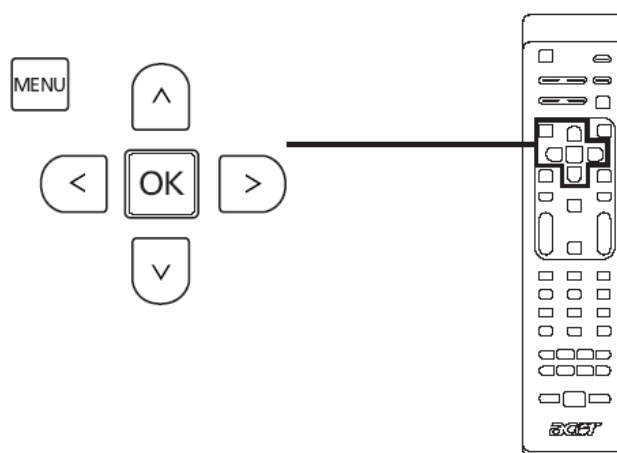
Favourite channel allows you to store your favourite TV channels and flick between them at the touch of a button.

To set Favourite channel as the default, follow the steps described on this page.

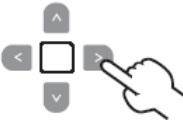
Storing favourite channels		
1		Press the CH LIST key on the remote control. This will bring up the channel list menu.
2		The current channel will be highlighted and press the Empowering Key to storing favourite channel.
3		Press the CH LIST key on the remote control to exit.
Viewing your favourite channels		
		On the remote control, if you press the Empowering Key , the TV will jump between the stored TV channels sequentially according to your list of favourites.

Advanced features

Advanced Picture Adjustment



Advanced Picture Adjustment			
1		Press the Menu key from the remote control hand set, to invoke the OSD (On Screen Display).	
2			Using the directional keys to navigate, select Advance from the OSD. Scroll to ' Advanced Picture Adjust ' sub-menu to adjust picture settings.
3			Using the directional keys , to navigate through ' Noise Reduction ', ' Back Light Control ' or ' ACM '.

4		* Noise Reduction: This function filters noise from a signal. You can set to Off, Low, Medium or High depending on your preference. * Back Light Control: This setting adjusts the picture displays 'backlight / brightness'. Use the Left or Right direction keys to adjust this feature. * ACM: This function (Adaptive Contrast Management) automatically adjusts picture contrast, depending on the brightness of the video content. You can turn this feature either to 'on' or 'off'.
5		Press MENU to exit.

Logo

When the monitor is power on, the LOGO will be showed in the center, and disappear slowly.



How to Optimize The DOS-Mode

Plug And Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

This monitor will appear to be non-functional if there is no video input signal. In order for this monitor to operate properly, there must be a video input signal.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signals this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

Using the Right Power Cord

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.

Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.

Please note that power supply cord needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

This chapter contains step-by-step procedures on how to disassemble the monitor for maintenance.

The tools listed as below are that we may use during this procedure:

1. A proper screwdriver
2. A pair of glove
3. A pliers
4. A plastic knife

Disassembly Procedure

Disassemble the base

1. Put the monitor on a clean soft cloth.

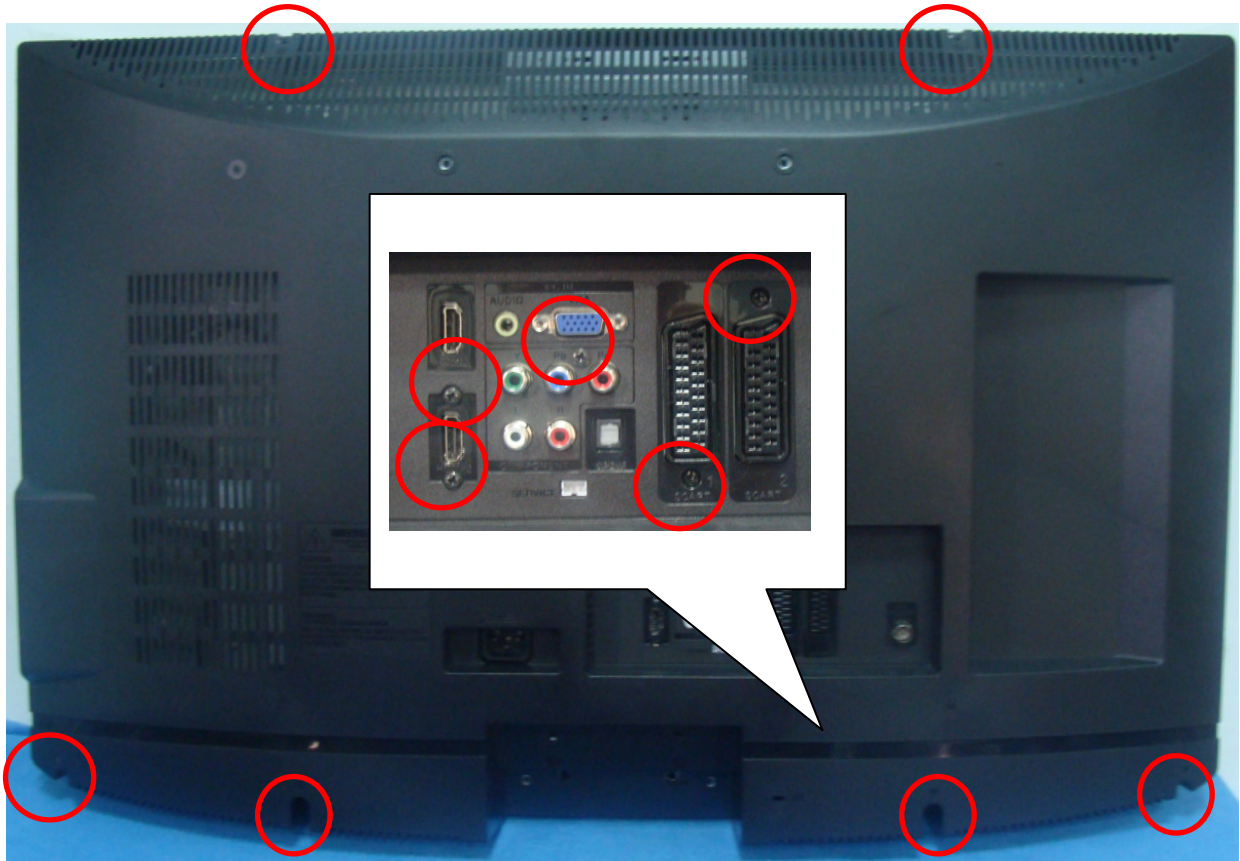


2. Remove 4 screws to remove the base.



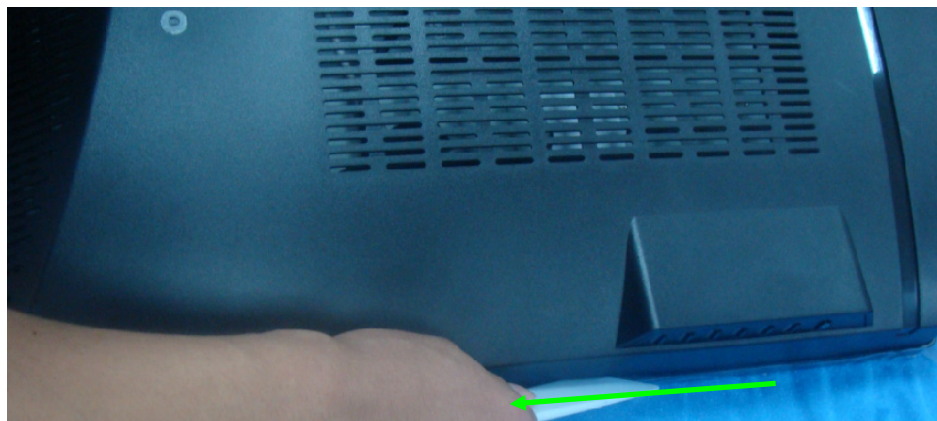
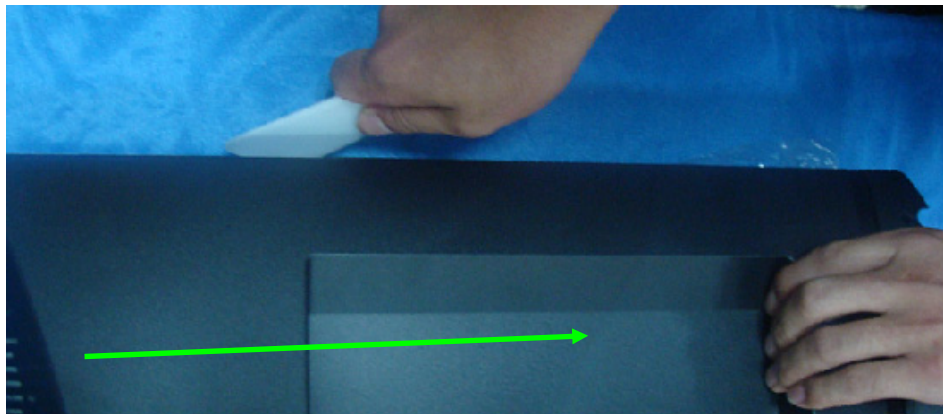
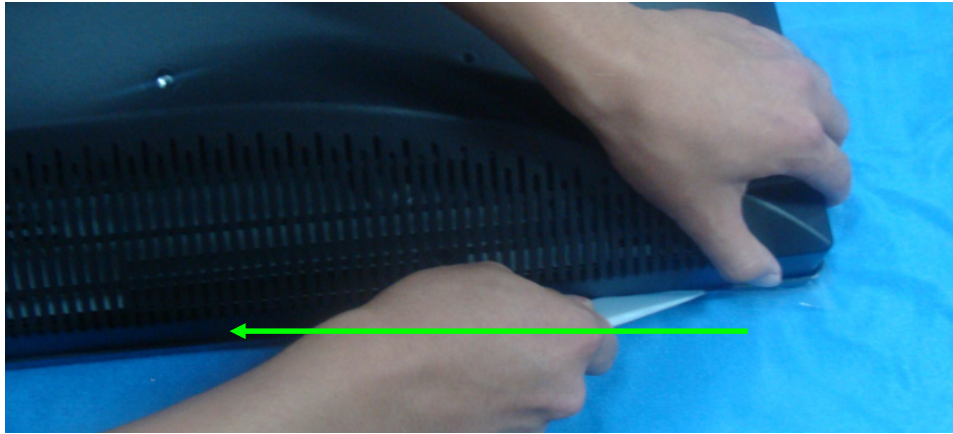
Disassemble the back cover

1. Remove 11 screws to remove back cover.



2. Pry the monitor up then find out the hooks' position, use the tool (like the picture or other card) to insert into the gap of bezel and rear cover.



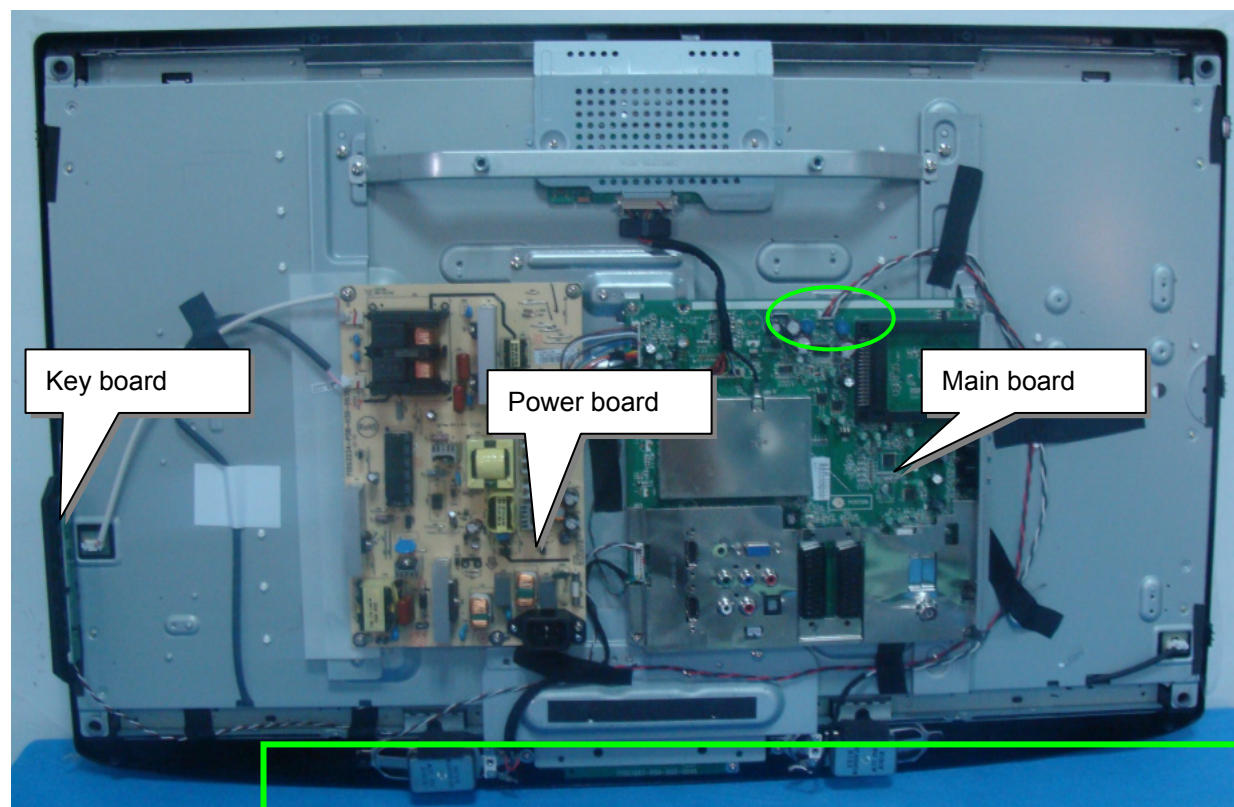


3. Turn over the monitor and take off the rear cover.

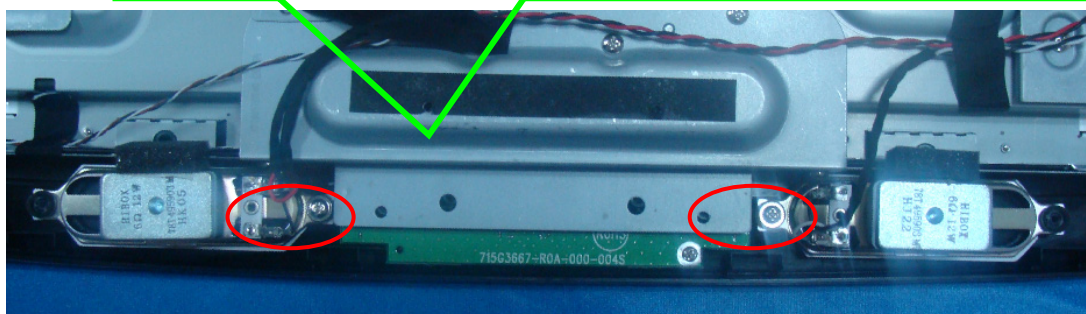


Disassemble the speakers.

Remove the 2 screws marked in red and disconnected the connector remark in green to remove the speakers

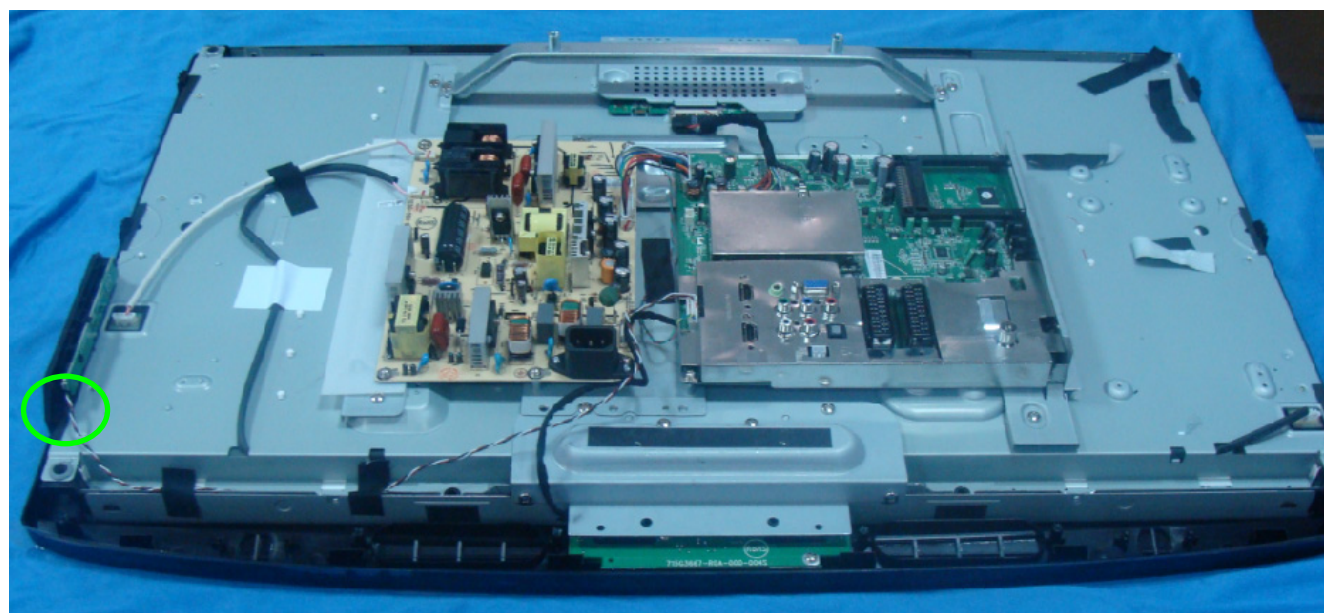


The speakers



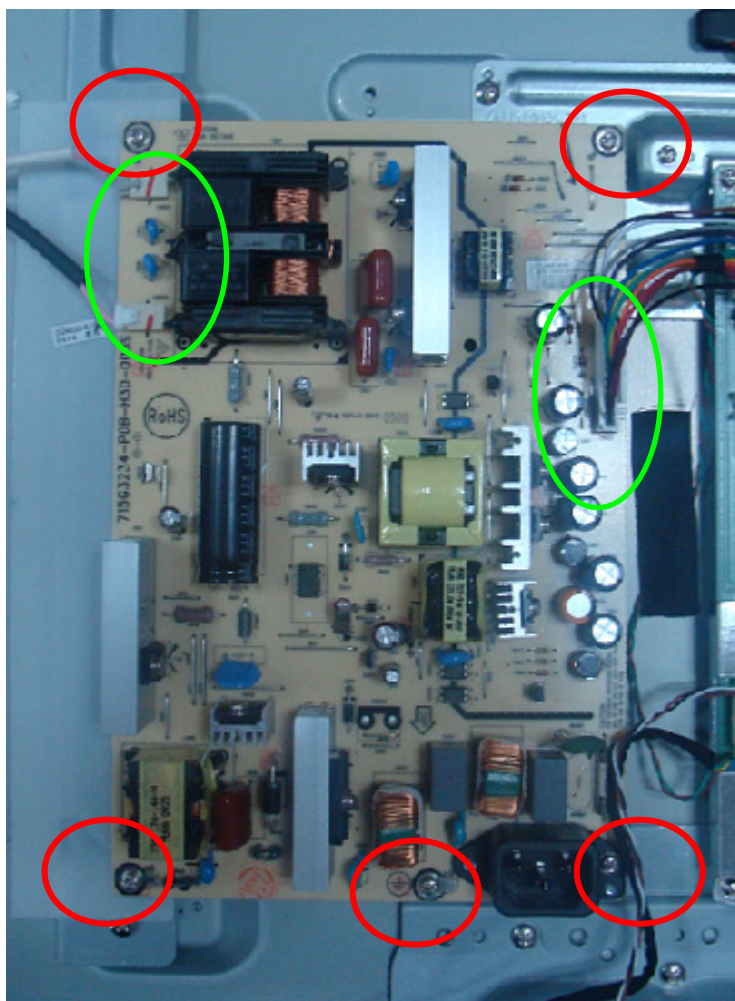
Remove the key board.

Disconnected the connector remark in green to remove the key board.

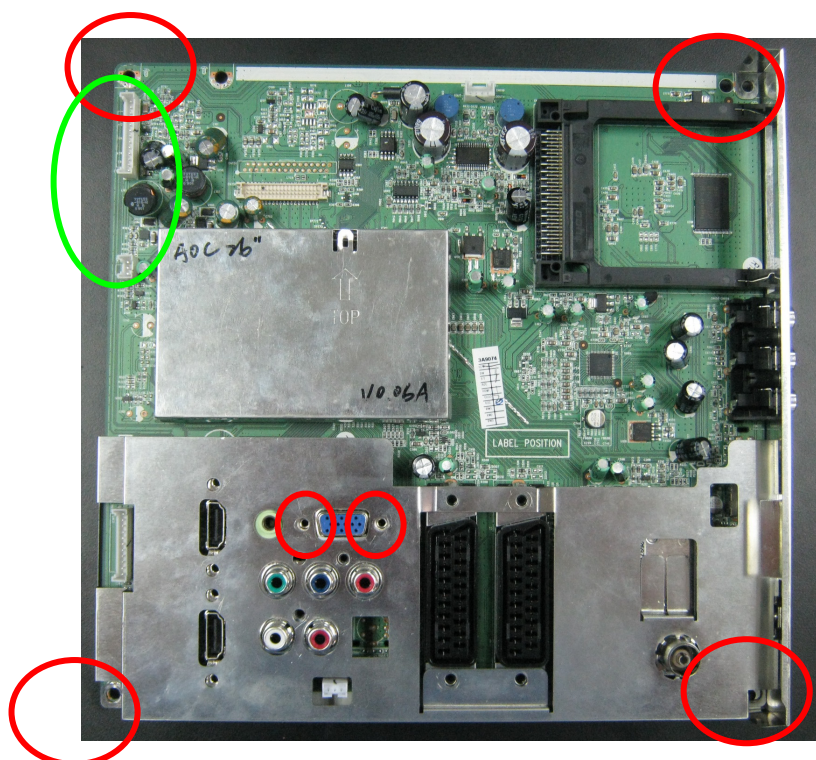


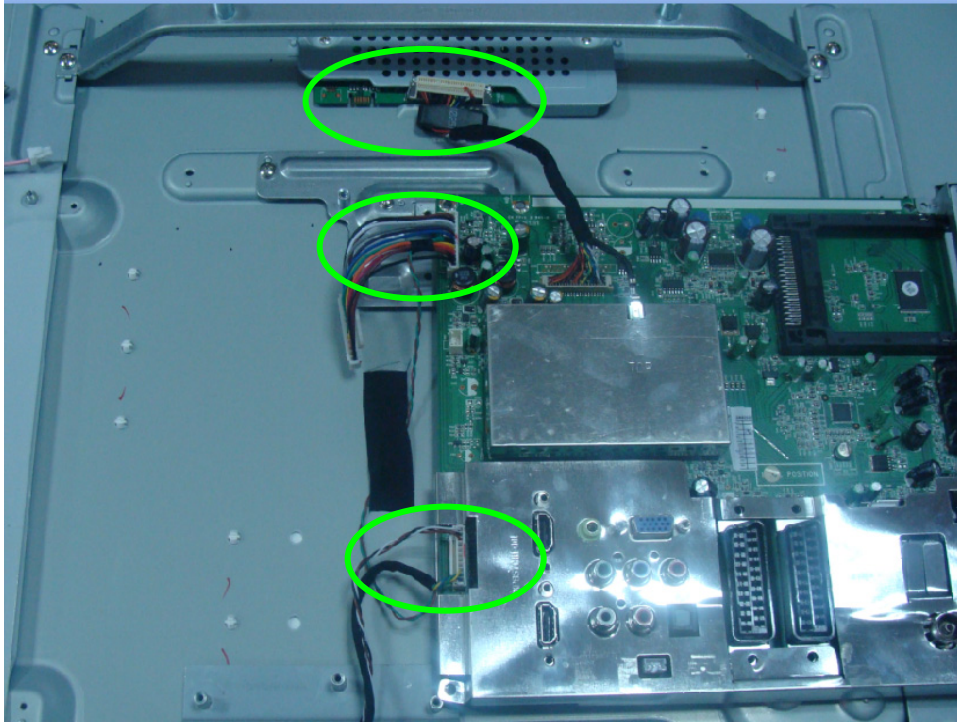
Remove the main board, power board.

1.Remove the 5 screws marked in red and disconnected the connector remark in green to remover the main board.



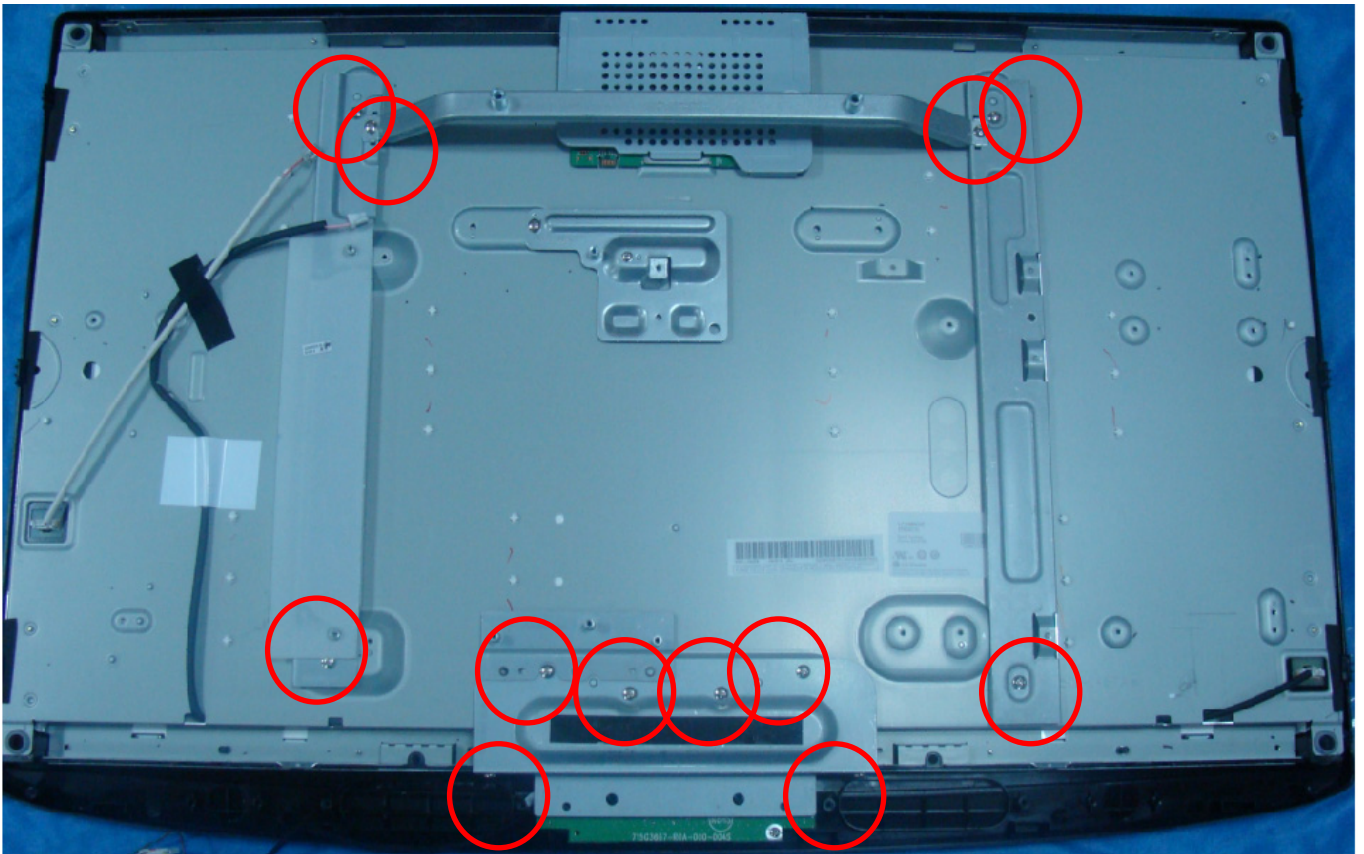
2.Remove the 6 screws marked in red and disconnected the connector remark in green to remove the main board





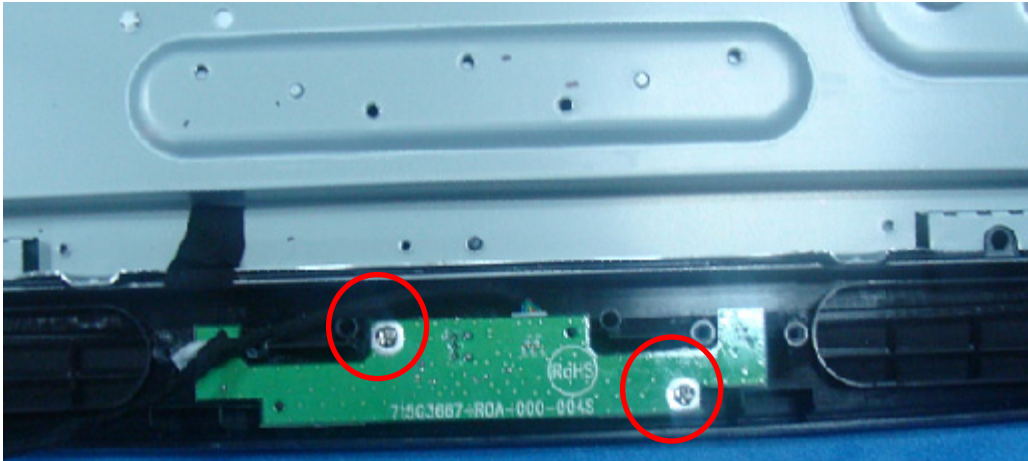
Remove the bezel.

1.Remove the 12 screws marked in red to remove the BKT.



Remove the IR board.

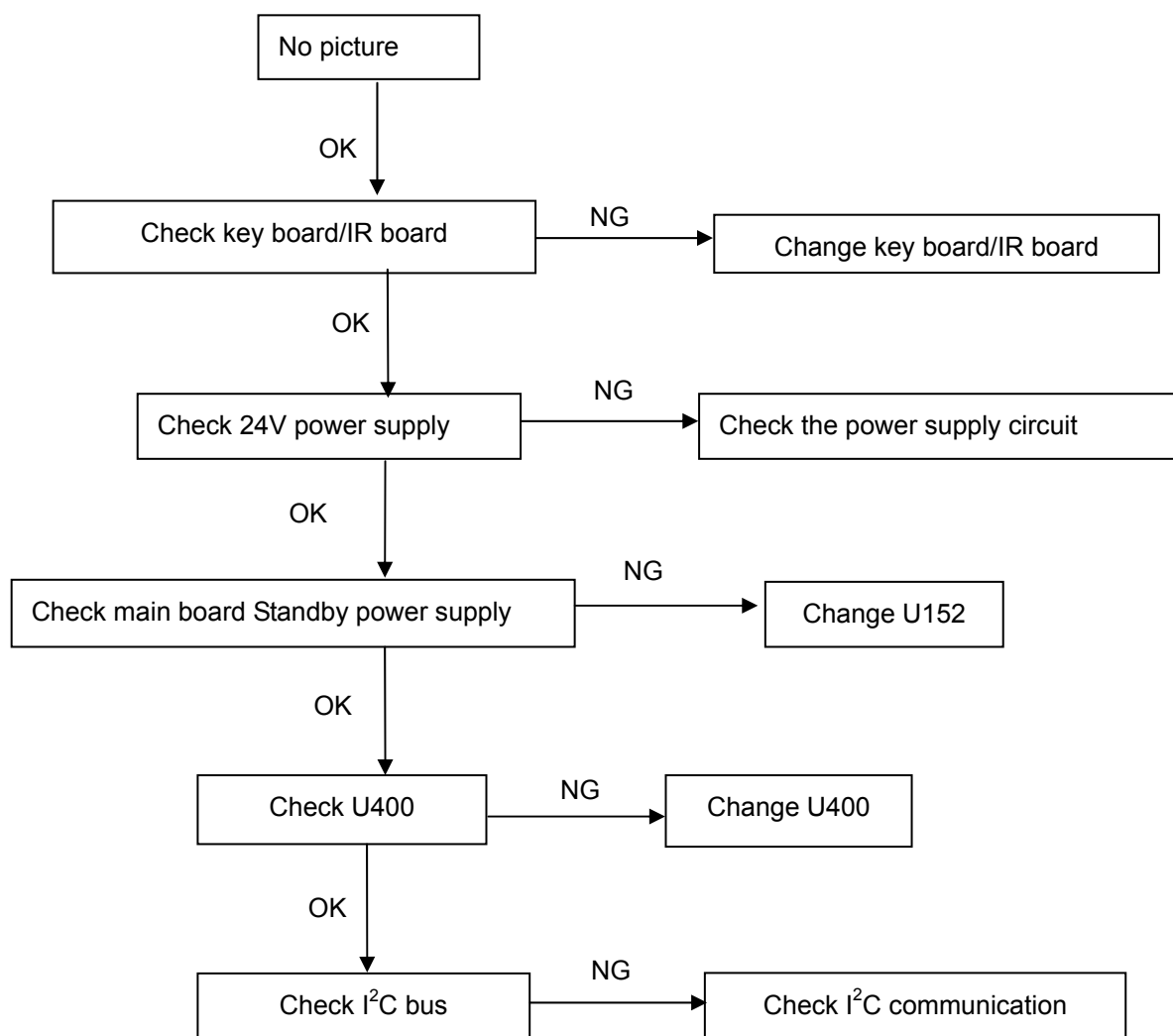
Remove the 2 screws marked in red .



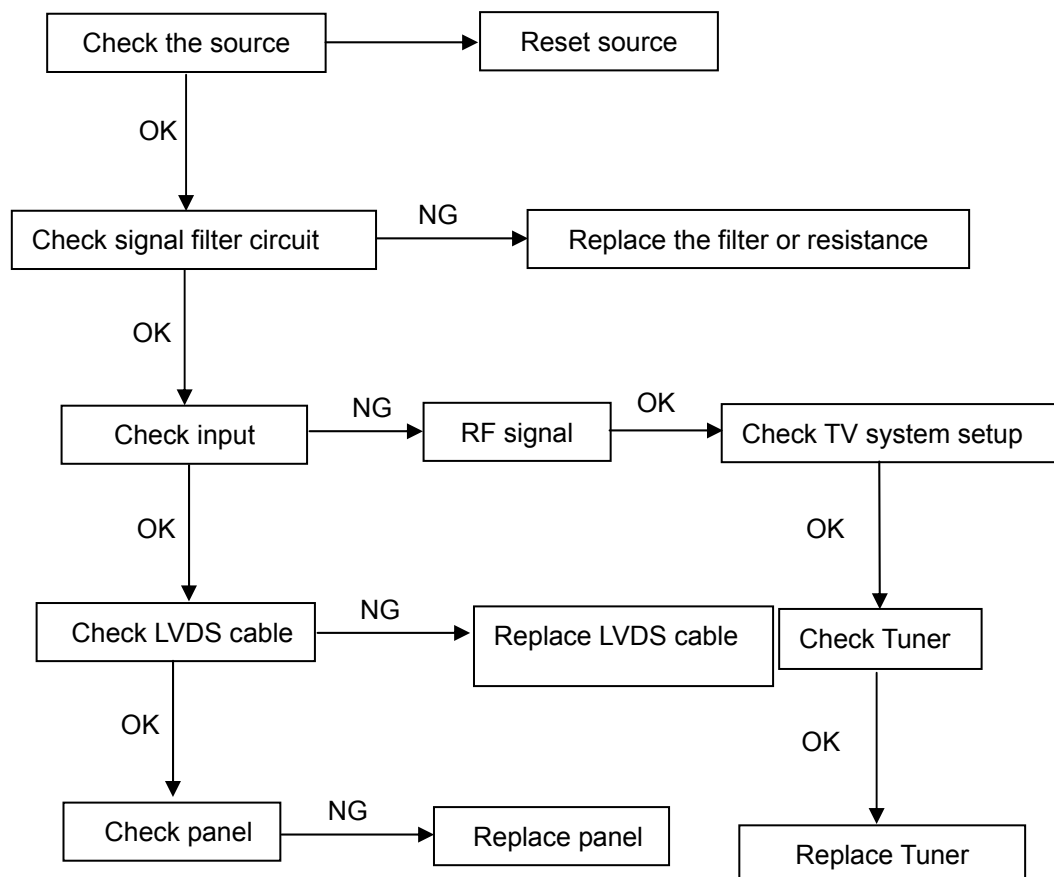
The panel



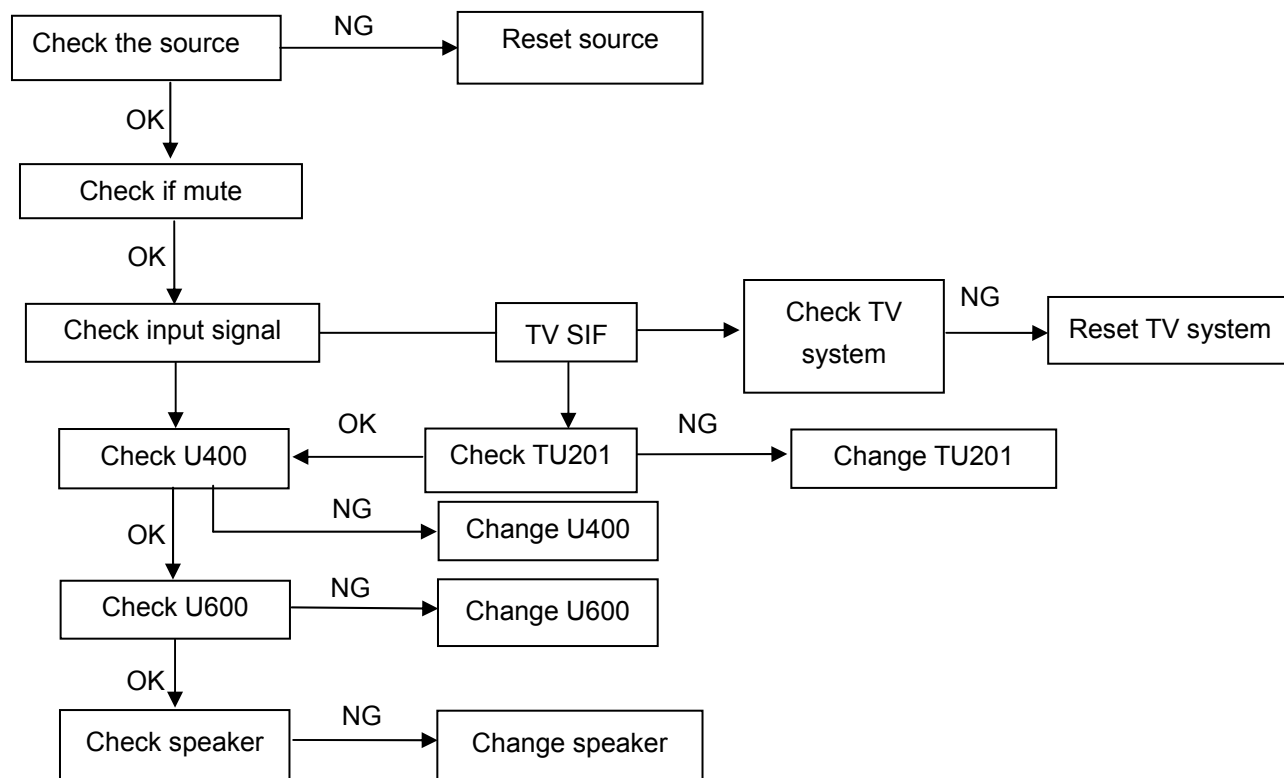
No picture (LED orange)



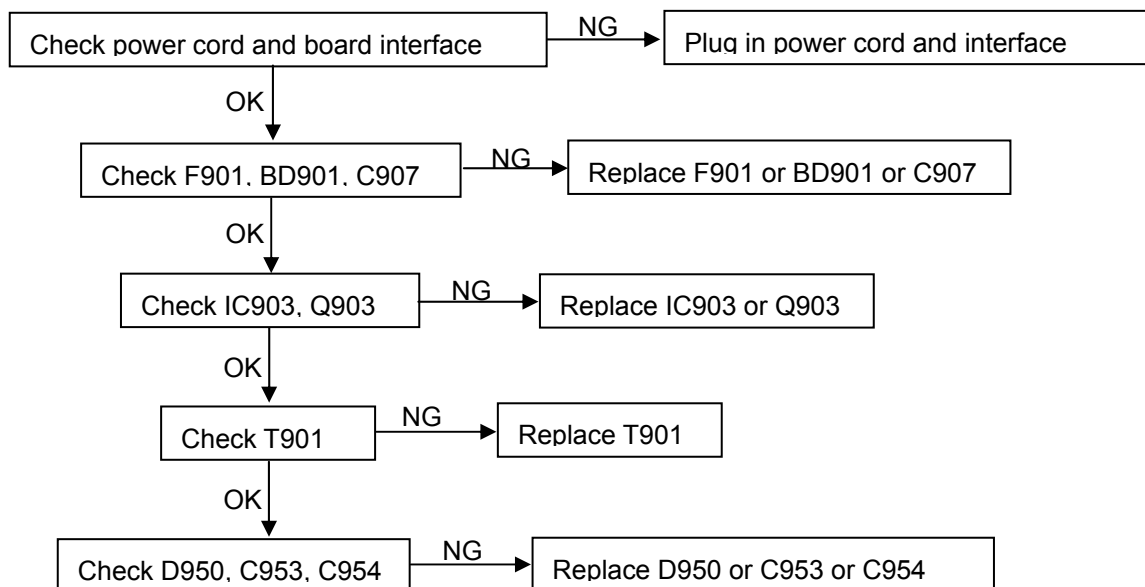
Abnormal display



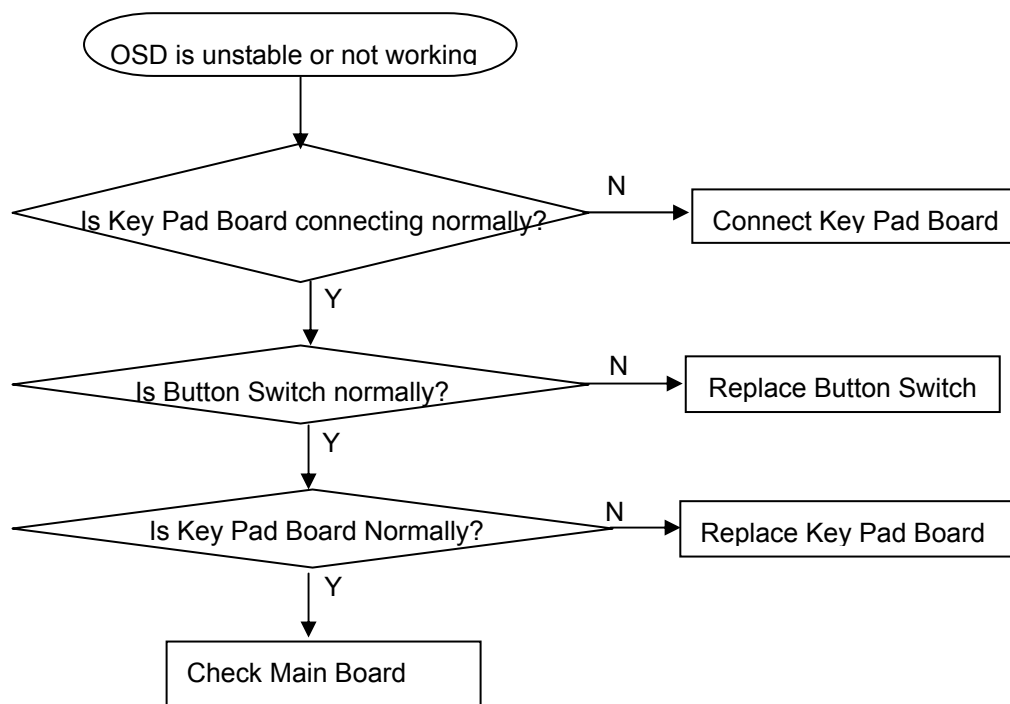
No sound



No Power (No LED indicator)



Key Board



1.U390 FW update

We must update U390 first, because the U390 firmware is the base of the system.

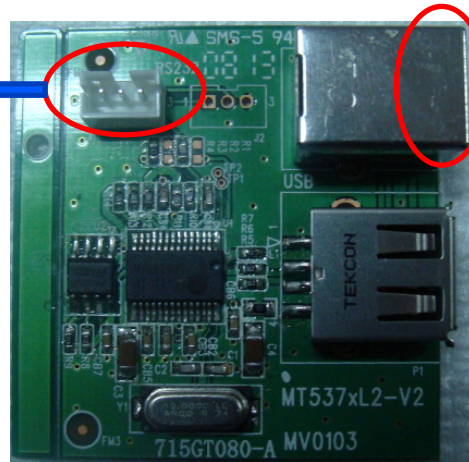
When we update U390, the soft tool is MTK Tool, the hardware tool is 715T080-A



Software tool

Version : mtk_tool-2.47.02.12_2

To TV 3 pin



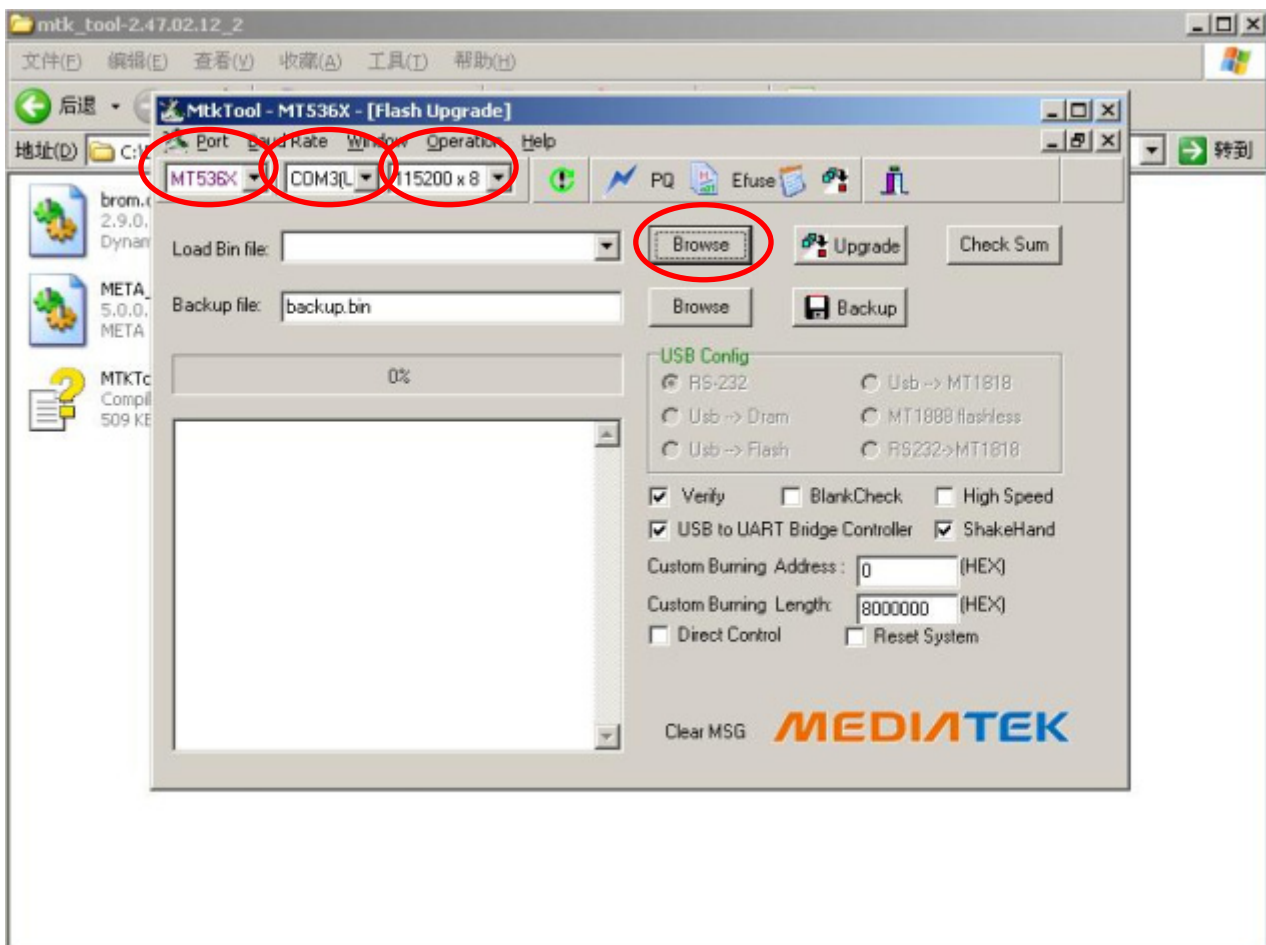
To PC
USB

Hardware tool

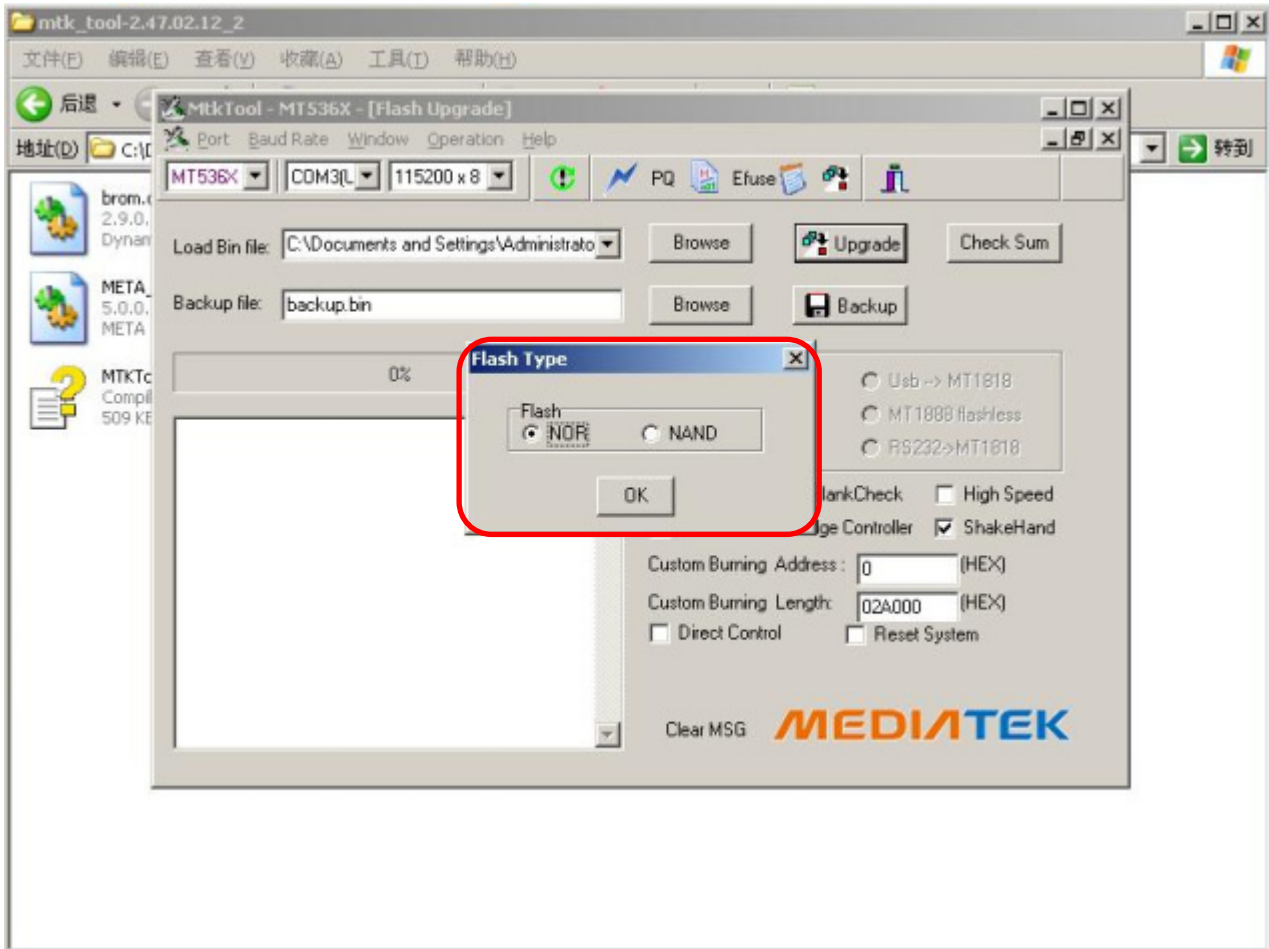
Part NO. : 715T080-A

Step1:double-click MTK.exe ,select IC type MT536X,com port is COM3(USB),the baud rate is 115200.

Step 2: click Browse to load firmware, and click Upgrade to start update firmware.



Step 3: After we click upgrade, there will be a small window, we must select Flash Type. The correct type is NOR , Click OK .



Step 4 :When we see this picture, show program OK ,then AC ON/OFF , program finished.

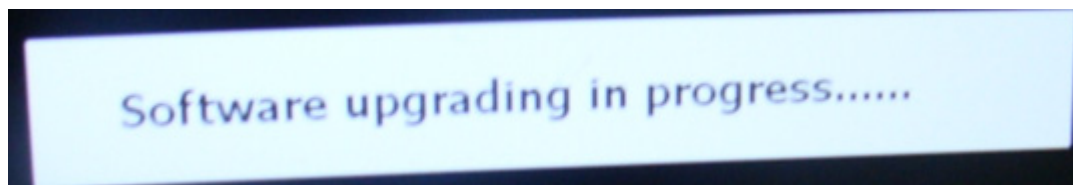
2. U391 FW update

After we update u390, next we update u391. We need not any other hardware tool , we only use USB disk to update FW.

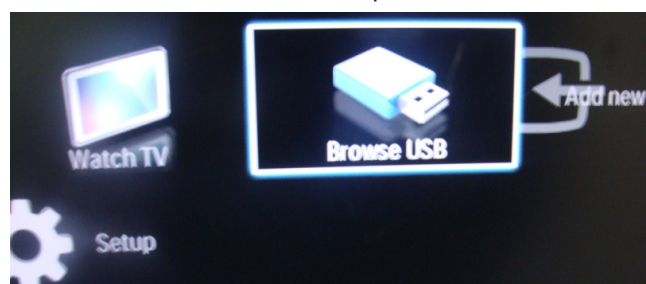
Step1:get the correct FW and save it in USB disk;

Step2:re-named the FW file, the system only recognize upgrade.pkg

Step3:when TV is standby, put the USB disk into TV USB port, then press power key on remote control , we can see the below picture (picture 1) and the LED is flickering . after the update is end, TV will be on (picture 2) .



picture 1



picture 2

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

YPbPr Mode display adjustment

White balance adjustment (B)

General set-up :

Equipment Requirements: Minolta CA-110 or Equivalent Color analyzer

Quantum Data Pattern Generator 802G , 802BT or equivalent instrument

Input requirements:

Input Signal Type : YPbPr signal

1. 720P mode, TVBar100 pattern by 802G or 802BT.

2. Select Smart picture to User mode and check the x, y data.

Input Signal Strength: 1 Vpp for Y signal ; 700 mVpp for Pb & Pr signal

Input Injection Point: YPbPr (RAC jack)

720P, TVBar100 pattern



Alignment method:

Initial Set-up:

1. Select source as "**Component**".
2. Set Smart picture as "**User**" and to be Contrast =50(**TBD**) (CMO), Brightness=50(**TBD**) (CMO), at normal menu mode.
3. Apply "TVBar100" pattern with color bar pattern by signal generator.
4. Enter factory mode menu: press "MENU+ "234" then enter FAC mode .

Alignment:

1. At FAC mode menu, select **FACTORY->Picture ->ADC -> Auto Colour** item. Then press ">" key to adjust ADC_GAIN_R, ADC_GAIN_G, ADC_GAIN_B and ADC_OFFSET_R, ADC_OFFSET_G, ADC_OFFSET_B. Then store those values to NVM.

White- Balance alignment :

1. Select source as "**HDMI1**".
2. Apply Flat pattern (**100% white pattern**), at FAC mode menu, select **Factory -> Picture -> Colour Temp** item
3. Set color temperature to "**Standard**".
4. Adjust the R Gain, G Gain, B Gain values to meet "Standard" color coordinates specification below. Then store those values to NVM.
5. Set color temperature to "**Warm**".
6. Adjust the R Gain, G Gain, B Gain values to meet "Warm" color coordinates specification below. Then store those values to NVM.
7. Set color temperature to "**Cold**".
8. Adjust the R Gain, G Gain, B Gain values to meet "Cold" color coordinates specification below. Then store those values to NVM.

Color temperature **Standard/Warm/Cold** (x, y) co-ordinates specification:

Picture Mode	x	Y
Normal (10000°K)	0.281±0.005	0.288±0.005
Warm (8000°K)	0.295±0.005	0.305±0.005
Cold (13000°K)	0.269±0.005	0.274±0.005

Table: Reading with Minolta CA-110.

Note:

1. Use Minolta CA-110 for color coordinates and luminance check.
2. **Luminance** > 400 **cd/m²** in the center of the screen when Brightness control at 100; Contrast control at 100
3. Reset AV setting, smart picture shall be recalled to be "**Standard**" and Contrast= **(TBD)** (CMO), Brightness=**(TBD)** (CMO)

PC mode display adjustment

WHITE-D adjustment (B)

General set-up:

Equipment Requirements: Minolta CA-110 or Equivalent Color analyzer
Chroma 2250 or equivalent PC signal generator

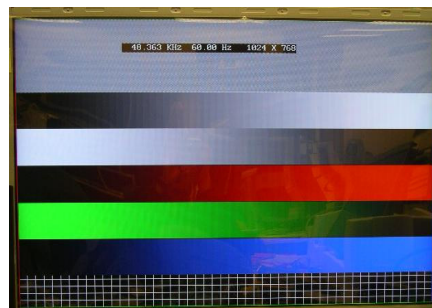
Input requirements:

Input Signal Type: PC VGA signal

1024X768/60Hz PC mode with **PGCWRGB** pattern. (see pattern-1)

Input Signal Strength: 0.7 Vp-p linear voltage.

Input Injection Point: PC D-SUB input



Pattern-1

Alignment method:

Initial Set-up:

1. Select source as "**VGA**".
2. Set Contrast = 50 (CMO) and Brightness=50 (CMO), at **Standard** menu mode.
3. Apply "**PGCWRGB**"(**pattern-1**) pattern by VGA pattern generator.
4. Enter factory mode menu: press "MENU+ "234" then enter FAC mode

Alignment:

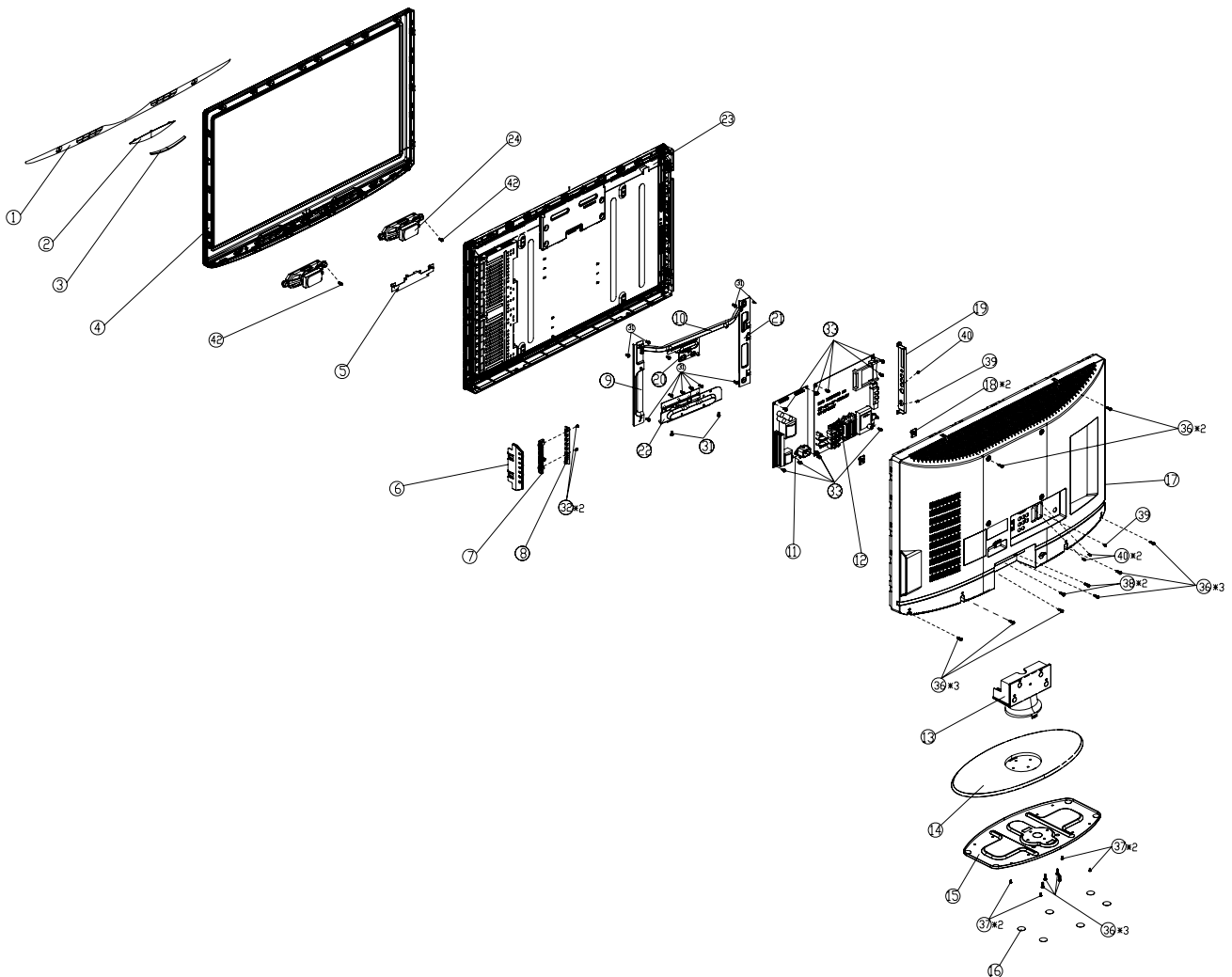
1. At FAC mode menu, select **FACTORY->Picture ->ADC -> Auto Colour** item. Then press ">" key to adjust ADC_GAIN_R, ADC_GAIN_G, ADC_GAIN_B and ADC_OFFSET_R, ADC_OFFSET_G, ADC_OFFSET_B. Then store those values to NVM.

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AT3247 & AT3248. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

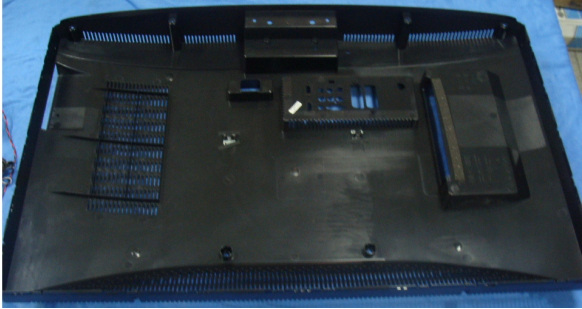
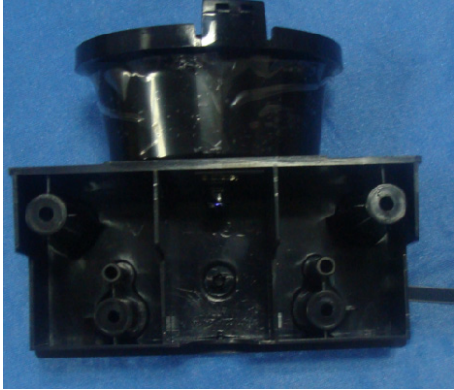
NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (<http://aicsl.acer.com.tw/spl/>). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

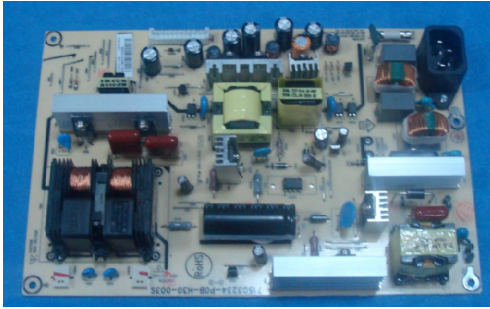
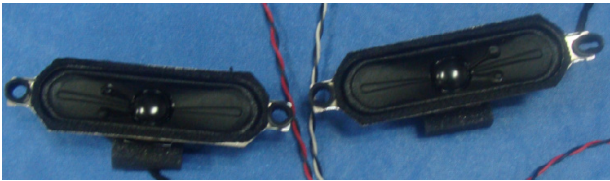
NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

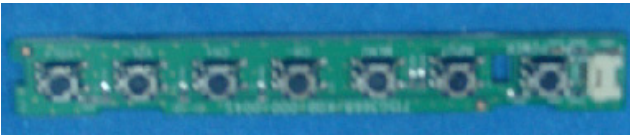
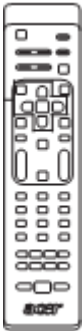
Exploded Diagram (Model: AT3247 & AT3248)



Item	TPV Part No.	Description	Acer Part No.	Q`ty
1	Q36T 809 1	SPEAKER GRILL	N/A	1
2	A33T0400 1B1C0100	DECO_BEZEL FOR 32"	N/A	1
3	P33T0115 1A1P0100	SMILE-LENS-ACER	N/A	1
4	A34T0517AGEBMM0500	BEZEL TV32W-8ACER	60.MA60B.002	1
5	IRPF9QAH	IR BOARD	N/A	1
6	A34T0754 GMA1L0119	COVER_FUNC	N/A	1
7	A33T0386AEPA1M0100	BUTTON_FUNC	N/A	1
8	KEPF9QAE	KEY BOARD	55.MA60B.003	1
9	A15T0845201	BKT-PANEL-SUPPORT-BR	N/A	1
10	A15T0281102	BKT-VESA-TOP	N/A	1
11	PWTV9NE1AB8	POWER BOARD	55.MA60B.002	1
12	CBPF92KBQHS	MAIN BOARD(AT3247)	55.MA60B.001	1
	CBPF92LBQ9S	MAIN BOARD(AT3248)	55.MA70B.001	1
13	Q37T0078011AEP	HINGE ASS'Y	42.M680B.001	1
14	A34T0521AEP 1M0220	BASE_S1	60.M680B.009	1
15	A15T0384201	BKT-BASE-PLATE-A1-BIG	N/A	1
16	Q12G6300 25 2	RUBBER FOOT	N/A	6
17	A34T0518 GM IL0130	REAR COVER 32	60.MA60B.001	1
18	A15T0282201	BKT-VESA-BTM	N/A	2
19	A15T0886102	BKT-IO-SIDE-TOP	N/A	1
20	A15T0895301	BKT-PCB-MIDDLE-ACER	N/A	1
21	A15T0846101	32BKT-PCB-HOLDER-L	N/A	1
22	A15T0848201	BKT-SUPPORT	N/A	1
23	750TVG320EBC12N000	PANEL LC320WXE-SBC1	LK.32008.001	1
24	078T 495903 M	SPEAKER 6OHM/12W 120MMX30MM	23.M680B.002	2
31	0D1G 940 6120	SCREW	N/A	13
32	0Q1G 930 6120	SCREW 3X6MM	N/A	2
33	0M1G1730 8120	SCREW	N/A	10
36	0Q1G 940 14 47 CR3	SCREW	N/A	12
37	0Q1G 130 8120	SCREW 42A9930011	N/A	4
38	0M1G 940 10 47 CR3	SCREW	N/A	2
39	0D1G 930 8 47 CR3	SCREW	N/A	2
40	0D1G 930 8 47 CR3	SCREW	N/A	3

Description	Picture	TPV Part No.	Acer Part No.
Bezel		A34T0517AGEBMM0500	60.MA60B.002
Panel		750TVG320EBC12N000	LK.32008.001
Rear Cover		A34T0518 GM IL0130	60.MA60B.001
Hinge Ass'y		Q37T0078011AEP	42.M680B.001
Base		A34T0521AEP 1M0220	60.M680B.009

Power Board		PWTV9NE1AB8	55.MA60B.002
Main Board (AT3247)		CBPF92KBQHS	55.MA60B.001
Main Board (AT3248)		CBPF92LBQ9S	55.MA70B.001
Speaker		078T 495903 M	23.M680B.002
LVDS Cable		095G8018 30984 X	N/A
IR board		IRPF9QAH	N/A

Key Board		KEPF9QAE	55.MA60B.003
Remote Control		098TR7BDYNTARD	25.M860B.001
Power Cord		089G404A18N IS	27.L40VB.005

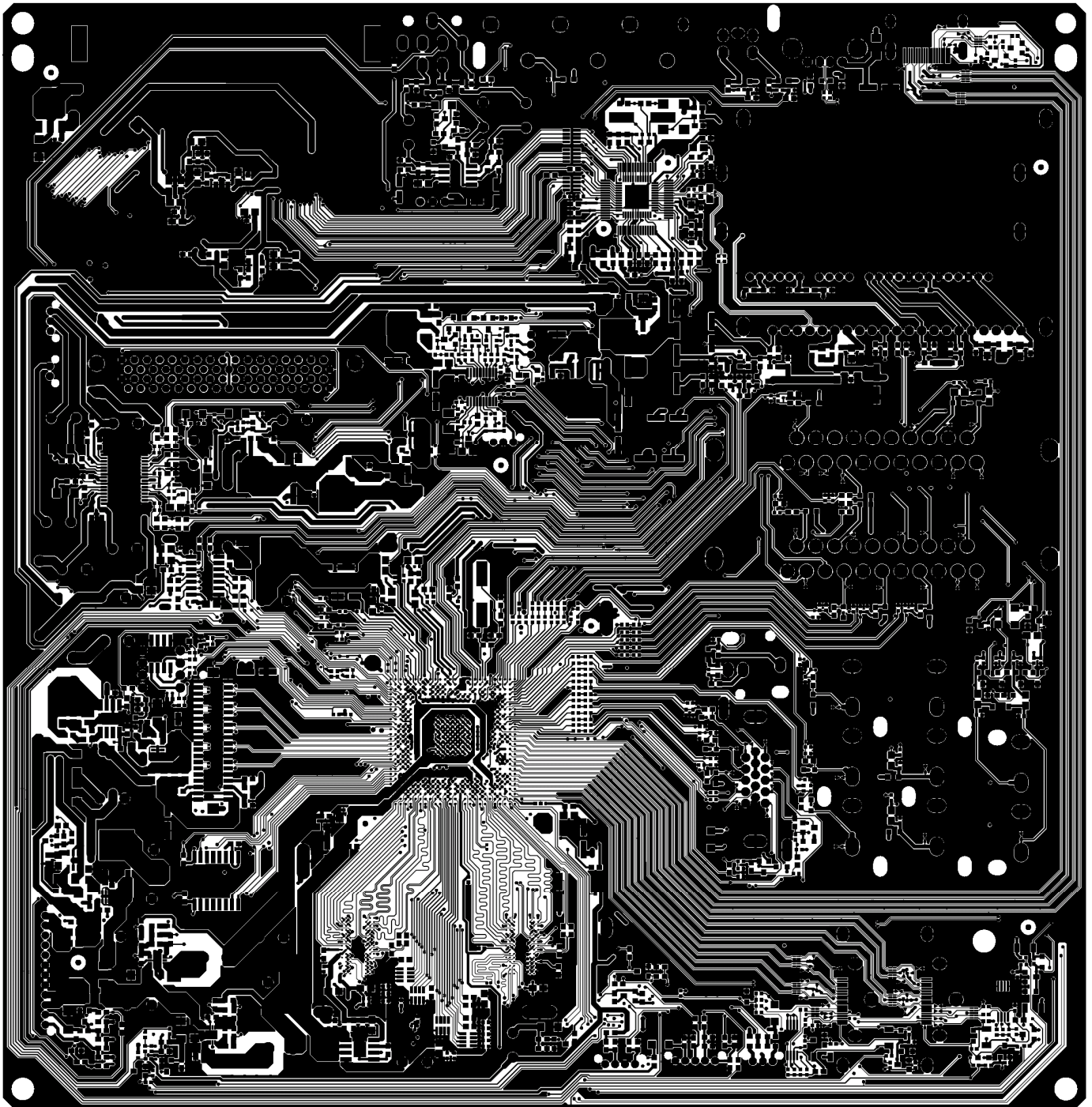
EDID Data

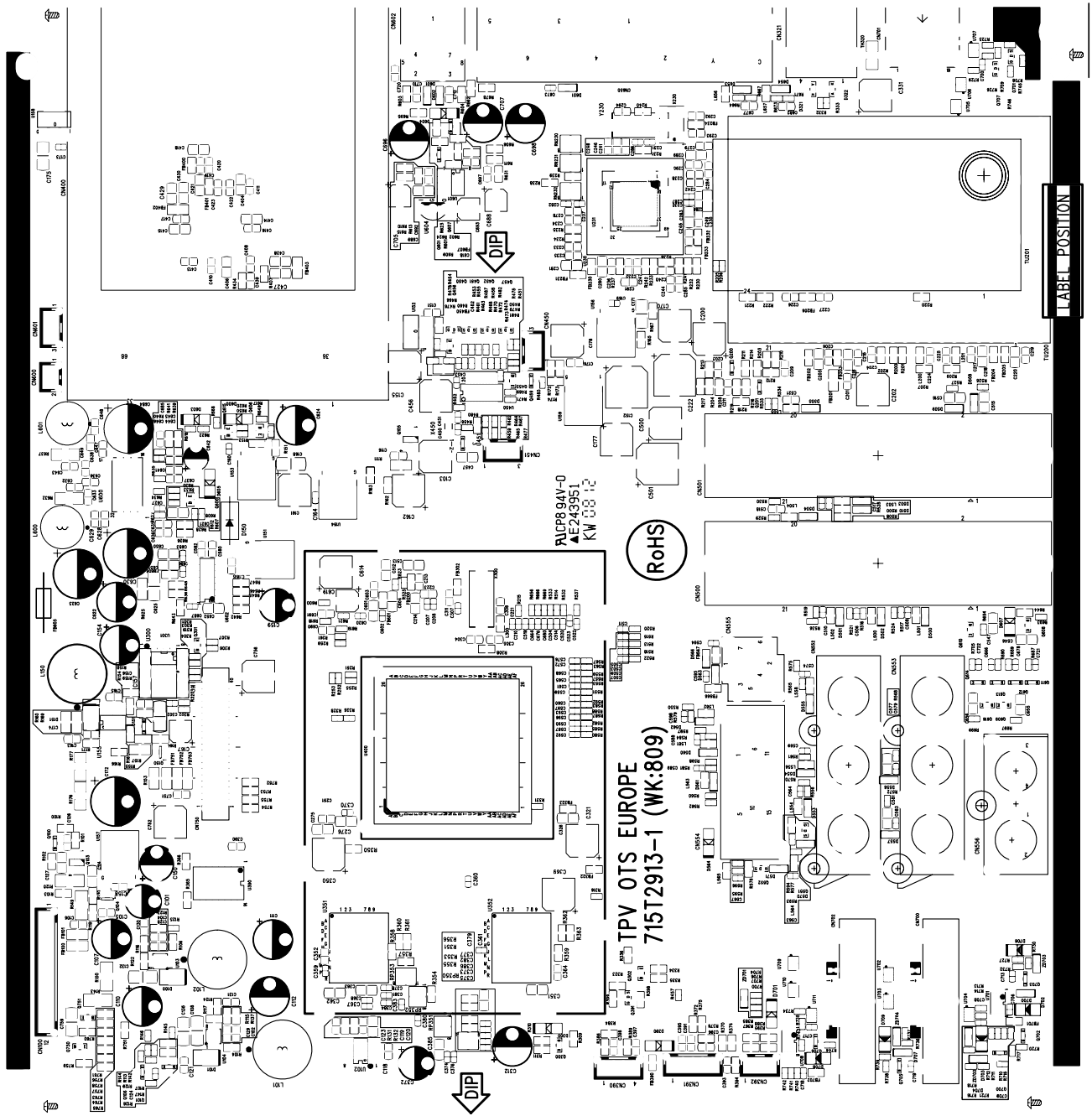
DDC DATA for For D-SUB Input

00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F

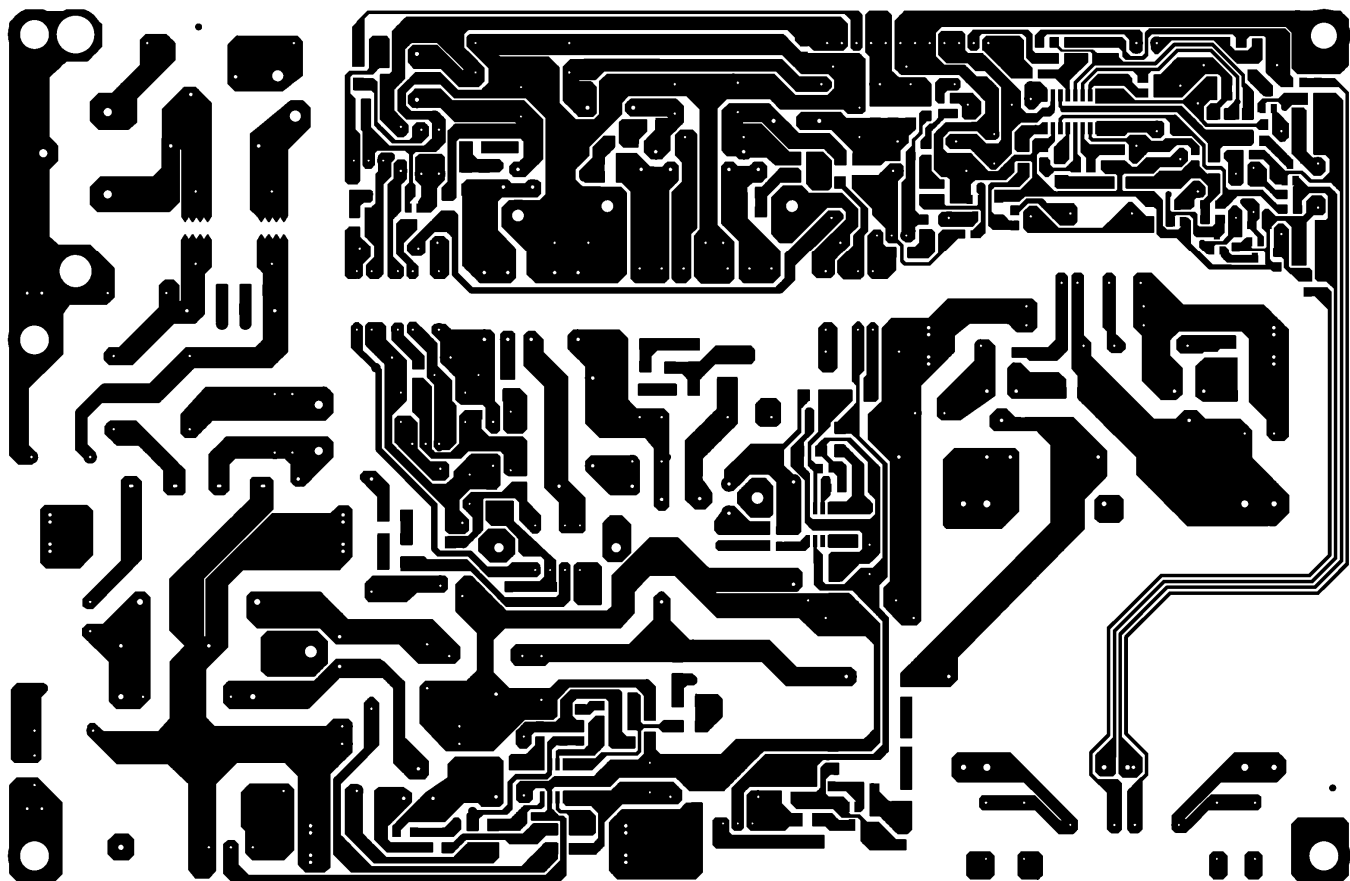
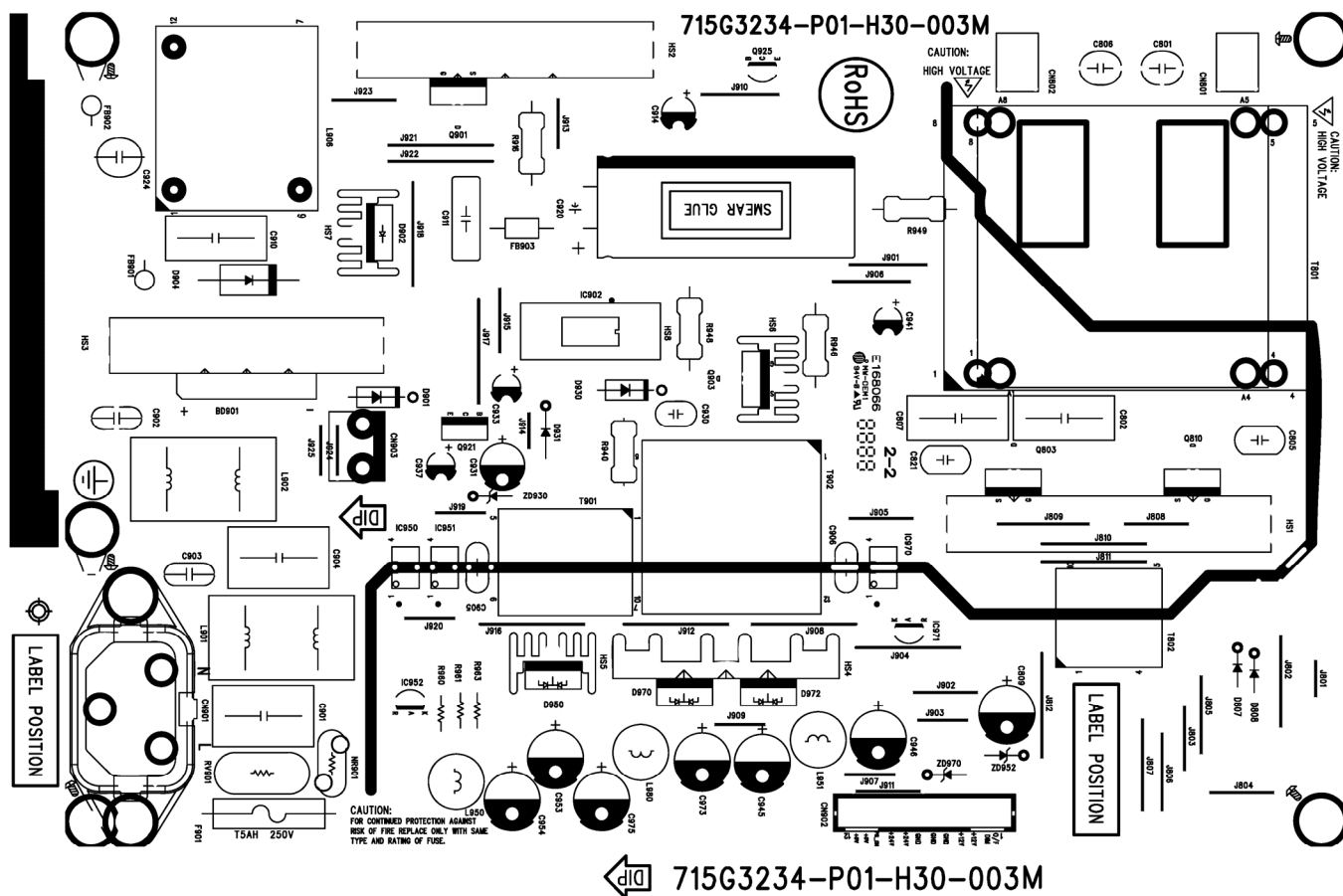
00| 00 FF FF FF FF FF FF 00 04 72 48 32 01 01 01 01
10| 00 13 01 03 68 46 27 78 2A F9 6B A2 55 4A 9A 25
20| 0F 47 4A BF 6E 00 81 C0 81 00 01 01 01 01 01 01
30| 01 01 01 01 01 01 66 21 56 AA 51 00 1E 30 46 8F
40| 33 00 BC 86 21 00 00 1E 00 00 00 FF 00 0A 20 20
50| 20 20 20 20 20 20 20 20 20 20 00 00 00 FD 00 39
60| 3F 2D 32 08 00 0A 20 20 20 20 20 20 00 00 00 FC
70| 00 41 54 33 32 34 38 0A 20 20 20 20 20 20 00 7B

Main Board Layout

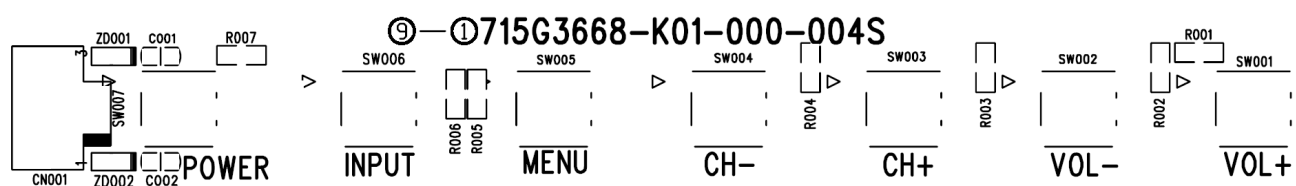




Power Board



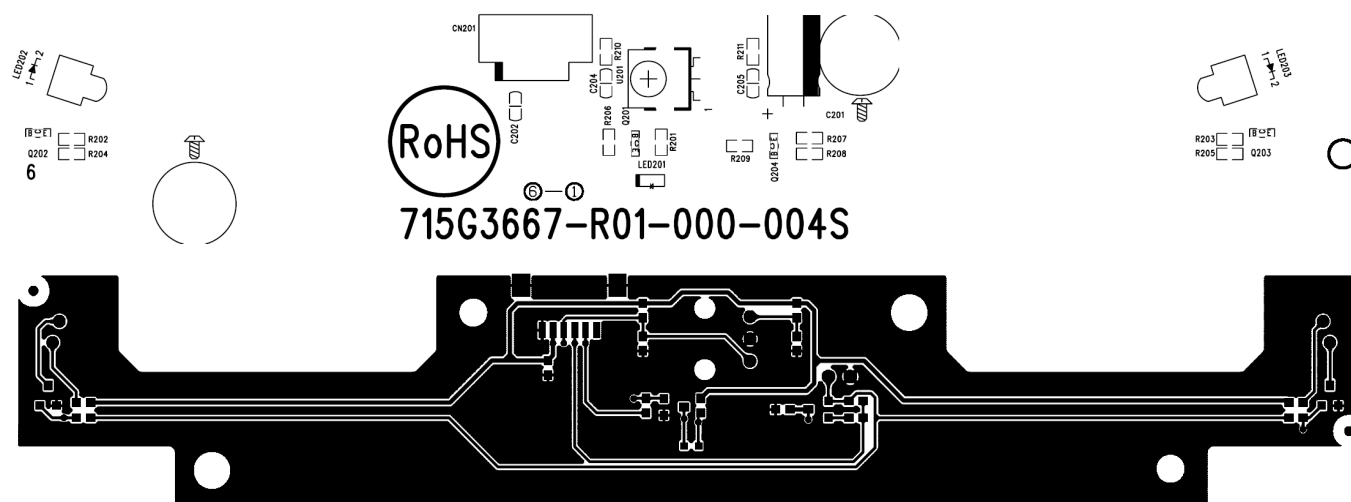
Key Board



9



IR board

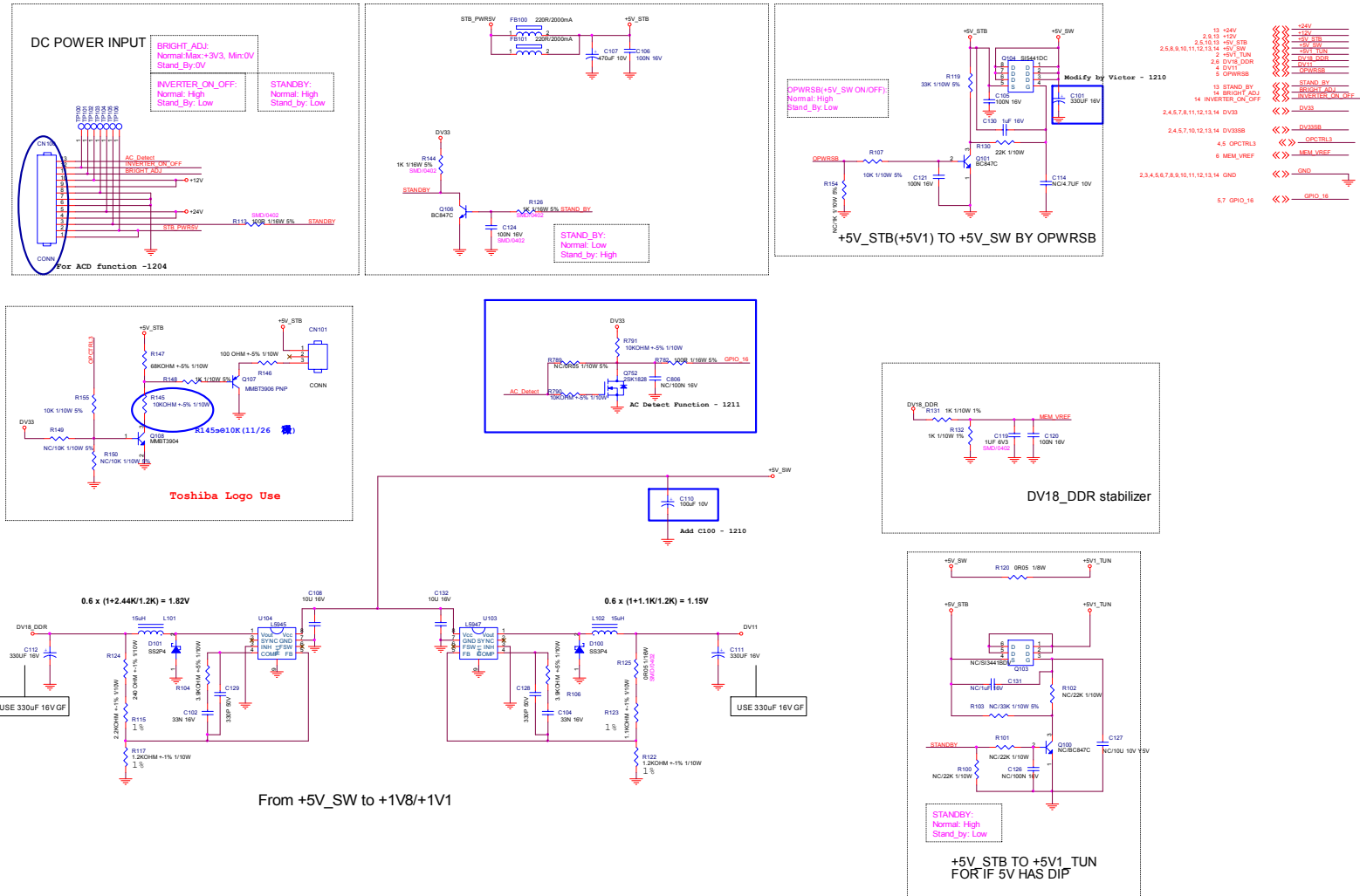


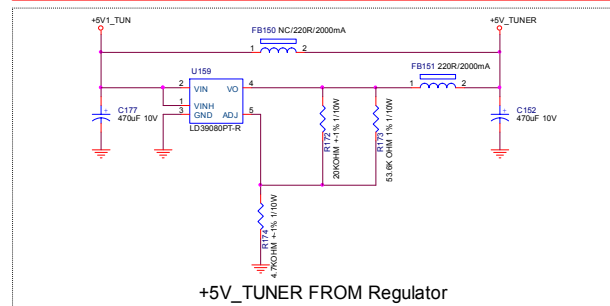
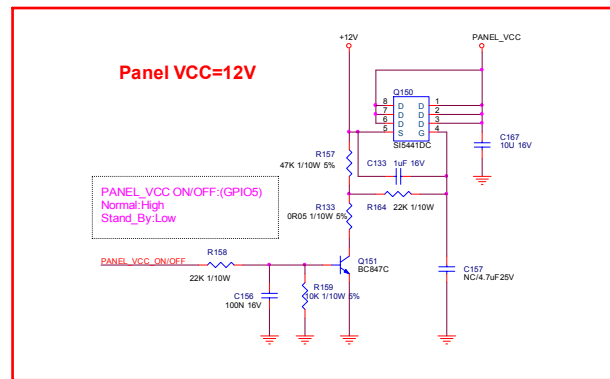
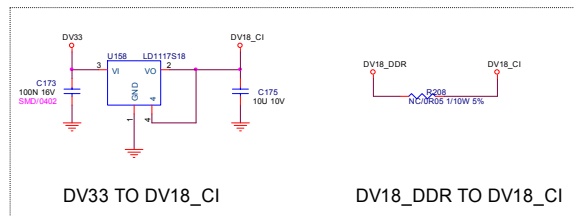
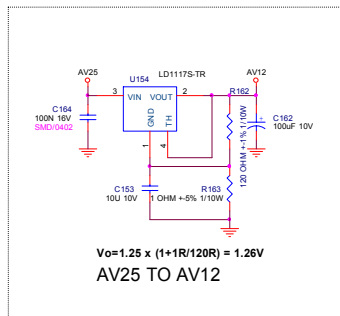
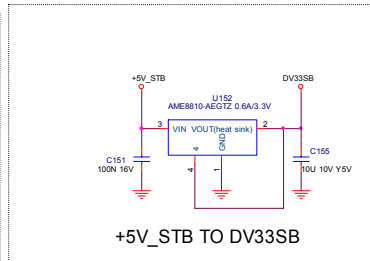
Schematic Diagram

Chapter 10

Main Board

EU MT5362 - 4 LAYERS





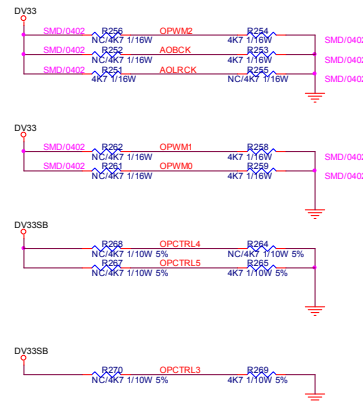
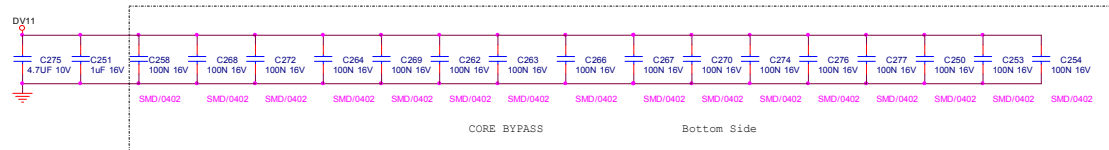
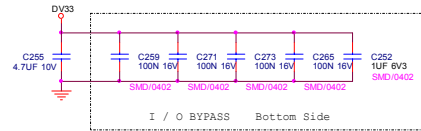
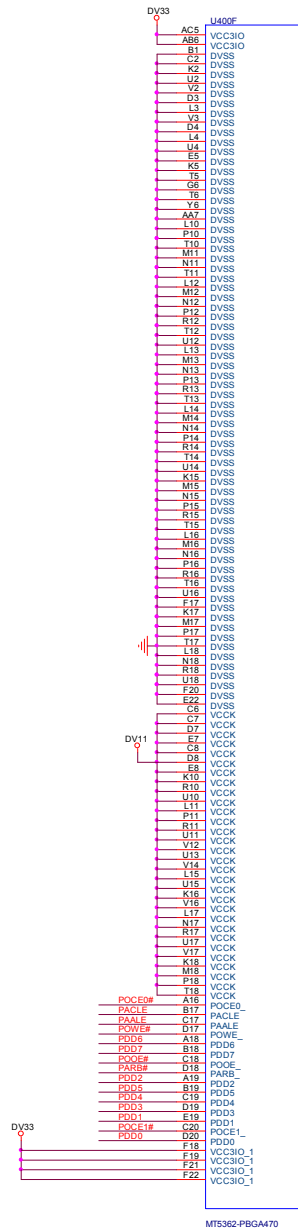
1,13	+24V	《	《	+24V
1,9,13	+5V	《	《	+5V
1,5,10,13	+5V_STB	《	《	+5V_STB
1,6	DV18_DDR	《	《	DV18_DDR
1,5,8,9,10,11,12,13,14	+5V_SW	《	《	+5V_SW
3	+5V_TUNER	《	《	+5V_TUNER
1	+5V_TUNER	《	《	+5V_TUNER
1,4,5,7,8,11,12,13,14	DV33	《	《	DV33
3,6,10,11,12,13,14	DV33	《	《	DV33
4,5,7,8,10,12,13,14	DV33SB	《	《	DV33SB
5,6,10,12,14	AV12	《	《	AV12
14	PANEL_VCC	《	《	PANEL_VCC
3	AV25	《	《	AV25
8	DV18_CI	《	《	DV18_CI
5	PANEL_VCC_ON/OFF	《	《	PANEL_VCC_ON/OFF
1,3,4,5,6,7,8,9,10,11,12,13,14	GND	《	《	GND

ITEM	PANEL VCC:+12V	PANEL VCC: +5V
R164	1K	N/C
Q151	BC847C	N/C
R155	0R	N/C
R157	2K2	N/C
Q150	1S441	N/C
R158	1K	N/C
R159	10K	N/C
C167	22U	N/C
C156	100N	N/C
C157	4U7	N/C
C154	N/C	220uF/16V
R176	N/C	0R
C172	N/C	10uF
U155	N/C	SC4525B
R168	N/C	68K
Q155	N/C	MUN2211T
R171	N/C	56K
Q152	N/C	MUN2211T
C165	N/C	220N
C184	N/C	100P
C187	N/C	22N
C174	N/C	2N2
R167	N/C	10K
2D150	N/C	SS3P4
L150	N/C	15UH
D150	N/C	BAS32L
C185	N/C	330P
C170	N/C	22P
R160	N/C	1K2
R161	N/C	39K
R166	N/C	2R2
C171	N/C	10uF
R153	N/C	0R
R165	N/C	10K
C163	N/C	100N

ITEM	POWER 32"/37"	POWER 42"/47"
FB150	N/C	BEAD
R175	0R	N/C
U159	LD39080	N/C
R174	4K7	N/C
C178	47UF/16V	N/C
R172	20K	N/C
R173	51K	N/C
C176	1N/25V	N/C
C177	47UF/16V	N/C

The item of this page start from "150"

TPV		Top Victory Electronics Co., Ltd.	OEM MODEL	32AV61SD	Size	C
晶圆尺寸	G34311-XX081229		TPV MODEL	E32RG2NB6W7BNC5	Rev	1
KeyComponent	02: POWER-2		PCB NAME	715G3431-1	料号	<料号>
Date	Monday, January 12, 2009		Sheet	2 of 16		

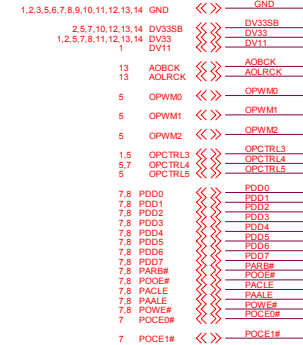


Trap Mode	OPWM2	AOBCK	AOLRCR
Normal mode	0	0	0
ICE mode	0	0	1
CPU model mode	0	1	0

Trap Mode	OPWM0	OPWM1
NOR BOOT	0	0
NAND BOOT	0	1
LARGE NAND BOOT	1	0

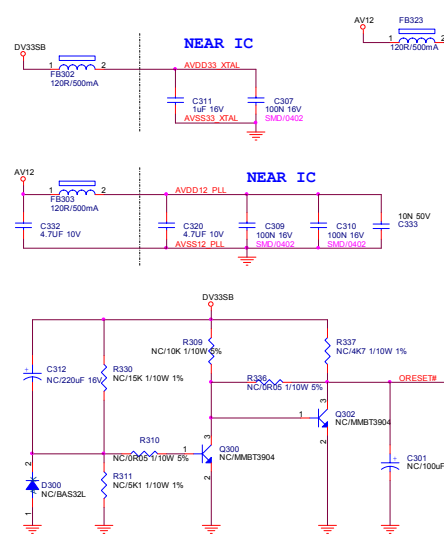
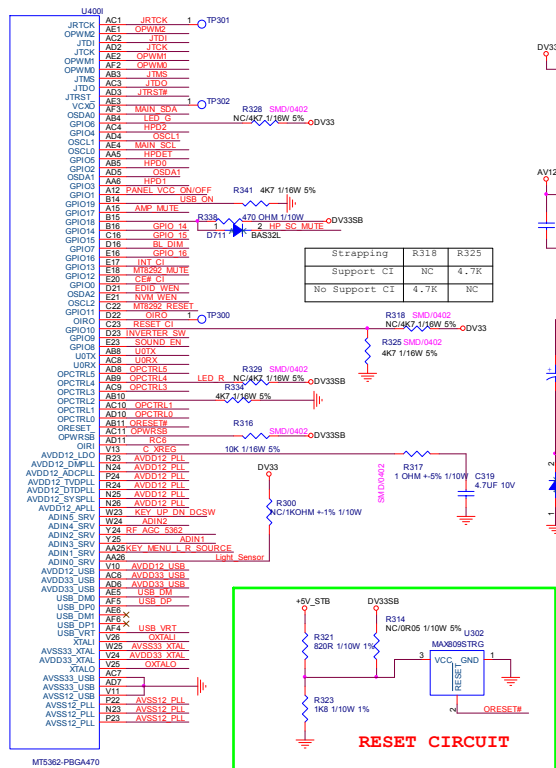
Trap Mode	OPCTRL5	OPCTRL4
Core Reset lus	0	0
Core Reset 3.3V	0	1
SCAN mode	1	0
Core Reset 0.9V	1	1

Strapping Mode	OPCTRL3 (0)	OPCTRL2 (0)
XTAL 54MHz	0	0
XTAL 27MHz	1	0

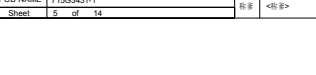
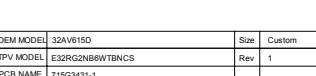
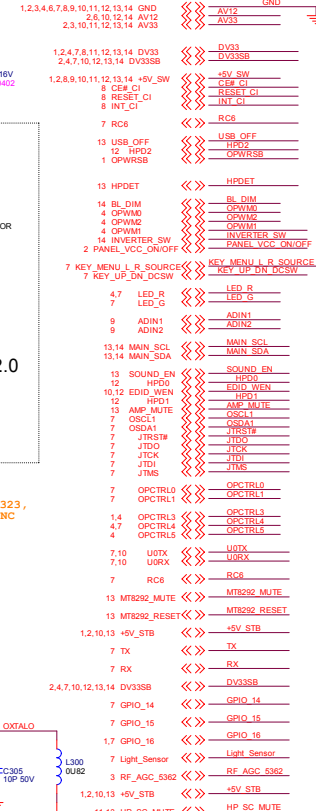
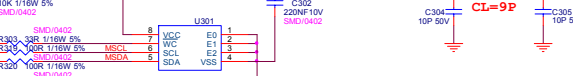
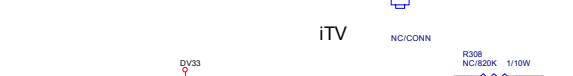
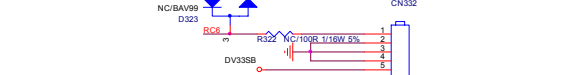
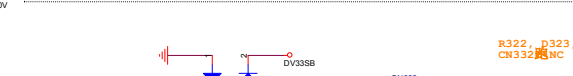
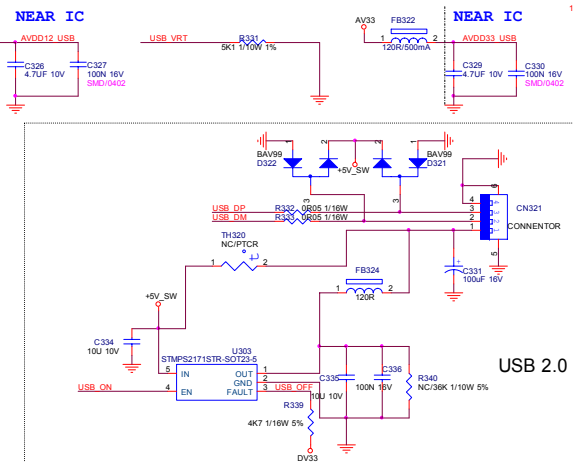


The item of this page start from "250"

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	32AV615D	Size	Custom
规格书编号	G3431-1-X-X081229	TPV MODEL	E32RG2NB6W7BNCS	Rev	1
Key Component	04. MTS361 BY PASS/TRAP.	PCB NAME	715G3431-1	料号	<料号>
Date	Monday, January 12, 2009	Sheet	4 of 14		

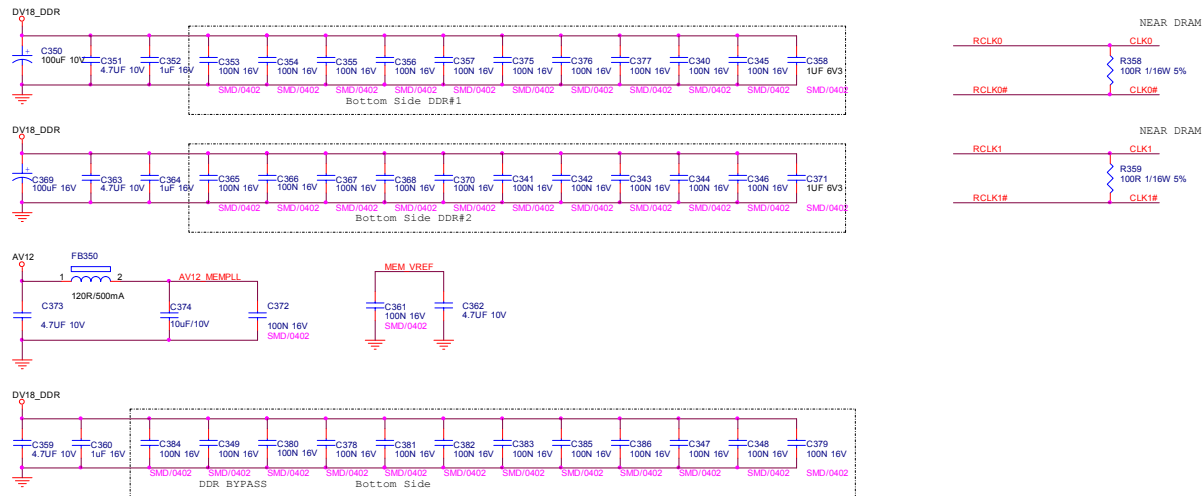
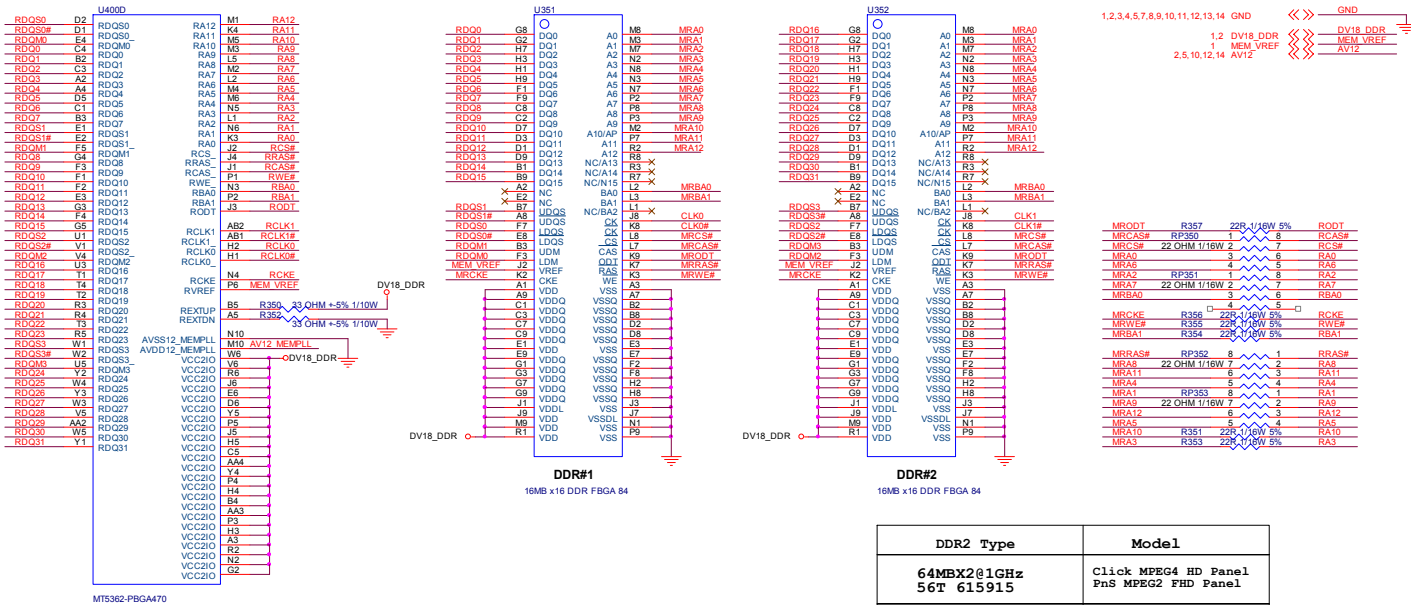


RESERVED RESET CIRCUIT



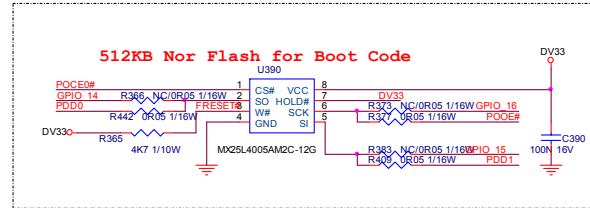
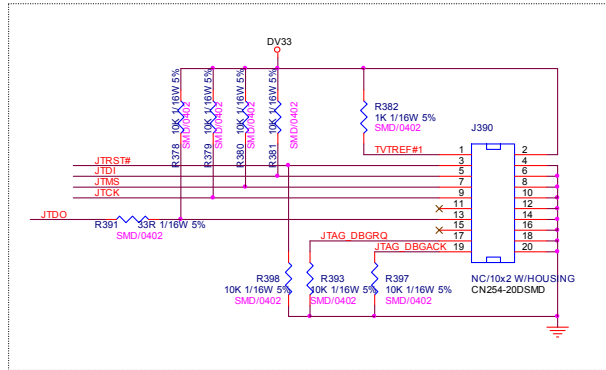
The item of this page start from "300"

T P V (Top Victory Electronics Co., Ltd)		OEM MODEL	32A5E15D	Size	Custom
图例 (Legend)		G3431-1-X-K681228	TPV MODEL	E32RQ28B8W7BNC5	Rev 1
Key Component		05. MT5361 PERIPHERAL	PCB NAME	715G3431-1	Rev
Date		Monday, January 12, 2009	Sheet	5 of 14	

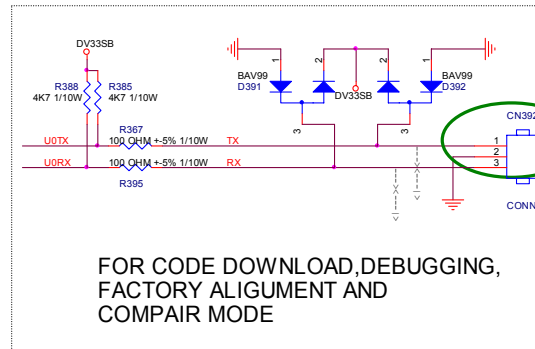
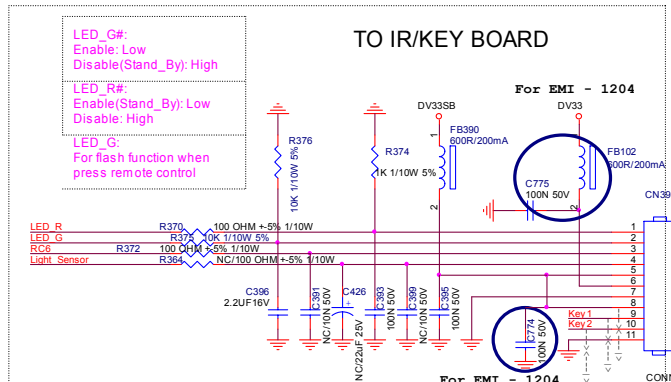
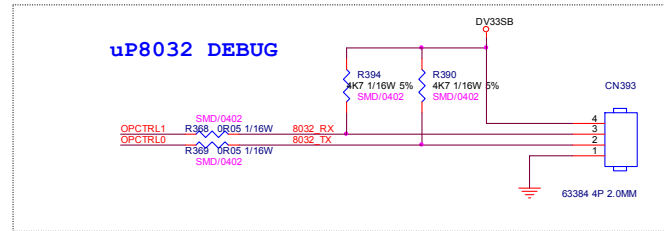
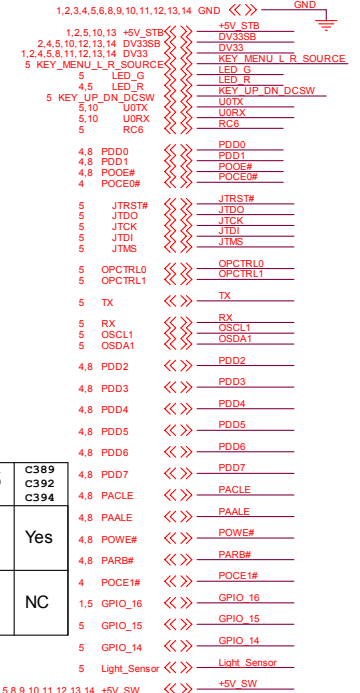


The item of this page start from "340"

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	32AV615D	Size	Custom
延南瓜 延南	G3431-1-X-081229	TPV MODEL	E32R2GNB8WBTNC	Rev 1
Key Component	06 DDR2 MEMORY	PCB NAME	715G3431-1	修多 <修多>
Date	Monday, January 12, 2009	Sheet	6 of 14	



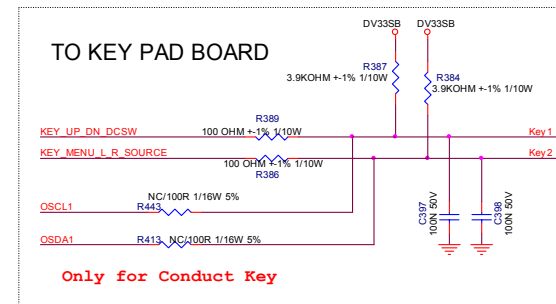
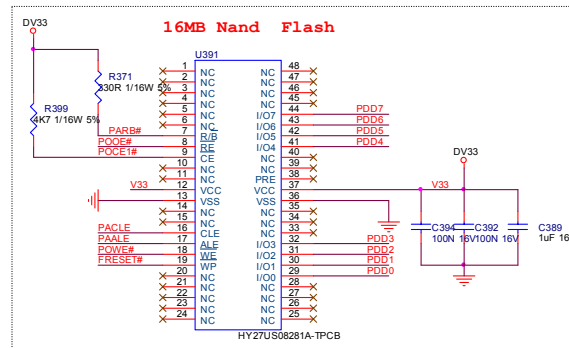
Del U392
(11/27
Benson)



Model	U390	U391	U392	R371 R399	C389 C392 C394
Philips	Yes	Yes	NC	Yes	Yes
Others	NC	NC	Yes	NC	NC

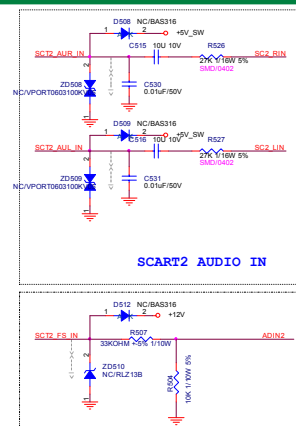
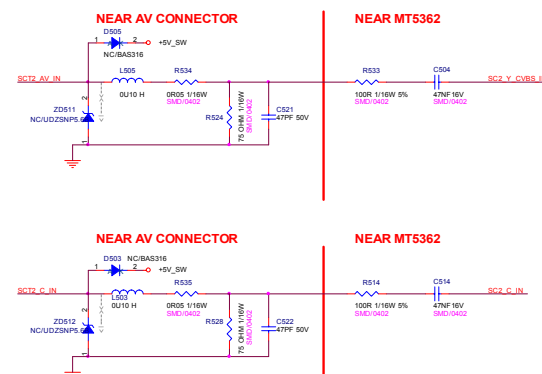
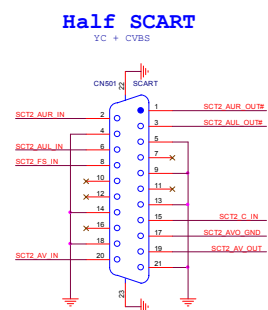
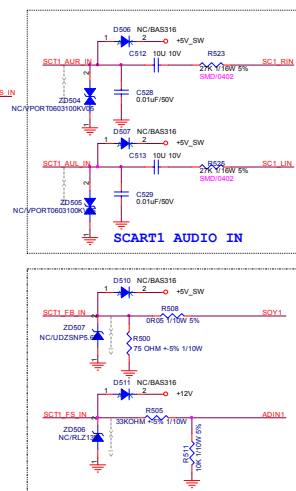
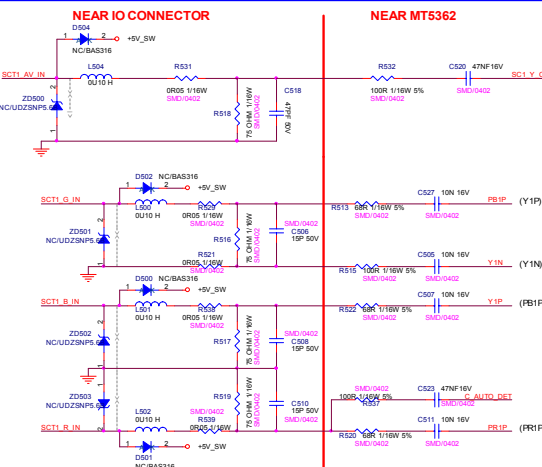
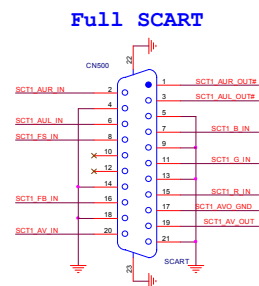
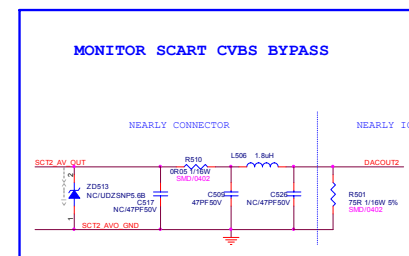
Change
CN392
footprint
(11/27
Benson)

NAND Flash Type	Model
32MB	PnS Model
16MB 56T 1133945	Click Model

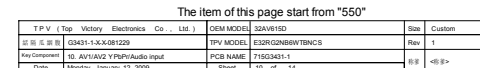
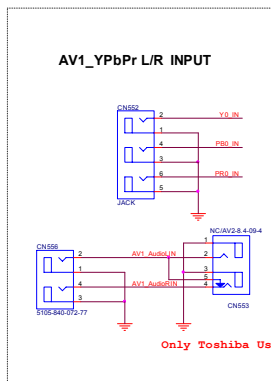


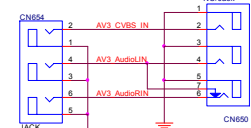
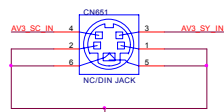
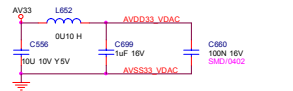
The item of this page start from "390"

T.P.V (Top Victory Electronics Co., Ltd.)	OEM MODEL	32AV615D	Size	Custom
振陽元電	TPV MODEL	E32RG2NB6WTBNC	Rev	1
Key Component	07. FLASH/JTAG/UART/IR	PCB NAME	715G3431-1	修裝
Date	Monday, January 12, 2009	Sheet	7 of 14	<修裝>

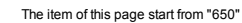


The item of this page start from "500"			
T P V (Top Victory Electronics Co., Ltd.)	GEM MODEL	32AV61SD	Size Custom
話 筒 式 顯 微	G3431-1.X.X.081229	TPV MODEL	E32RG2NB6WTBNCs
Key Component	07. FLASH/UTAG/UART/IR	PCB NAME	715Q3431-1
			修 改 <修 改>

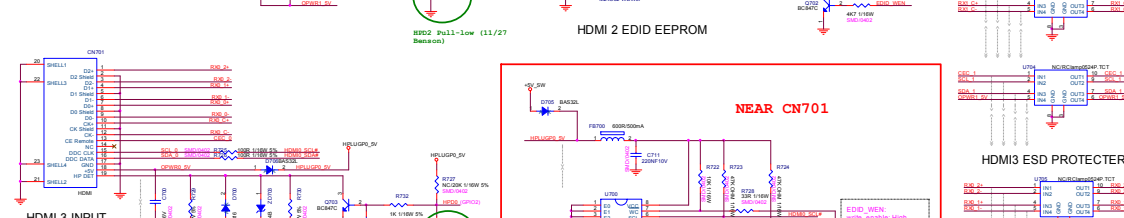
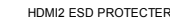
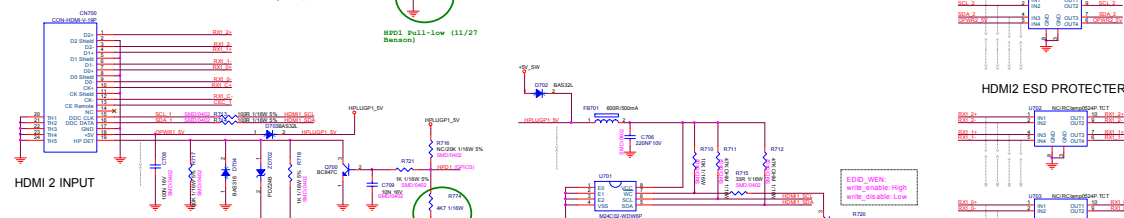
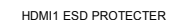
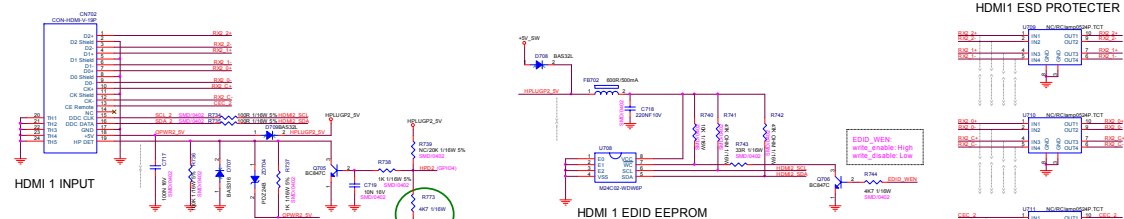
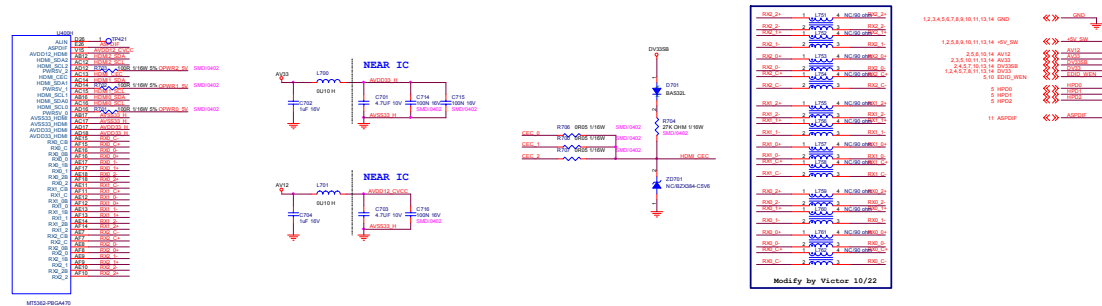




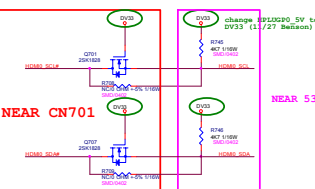
AV3(CVBS)_Audio R/L



Date	Monday, January 12, 2009	Sheet	11 of 14		
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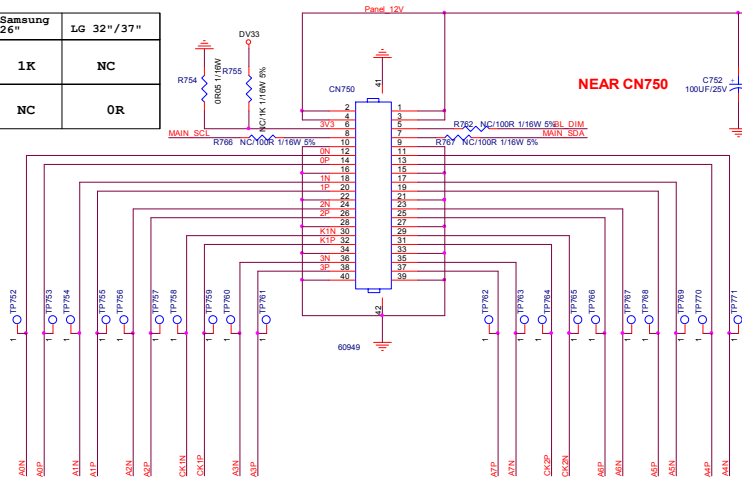
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Q7012	MC	YES	Q7012	MC	YES	Q7405	MC	YES
Q7015	MC	YES	Q7015	MC	YES	Q7017	MC	YES
Q7016	MC	YES	Q7016	MC	YES	Q7018	MC	YES
Q7016	MC	YES	Q7111	MC	YES	Q7000	MC	YES
Q7000	MC	YES	Q7000	MC	YES	Q7011	MC	YES
Q7019	MC	YES	Q7022	MC	YES	Q7028	MC	YES
Q7000	MC	YES	Q7023	MC	YES			
Q7003	MC	YES	Q7024	MC	YES			
Q7030	MC	YES	Q7044	MC	YES			
Q7003	MC	YES	Q7033	MC	YES			
Q7113	MC	YES	Q7001	MC	YES			



The item of this page start from "700"

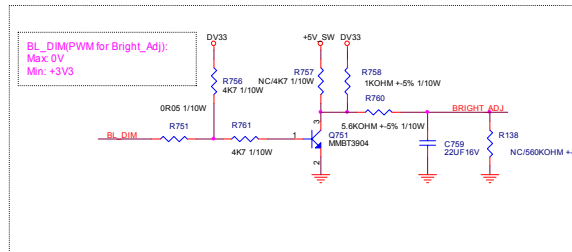
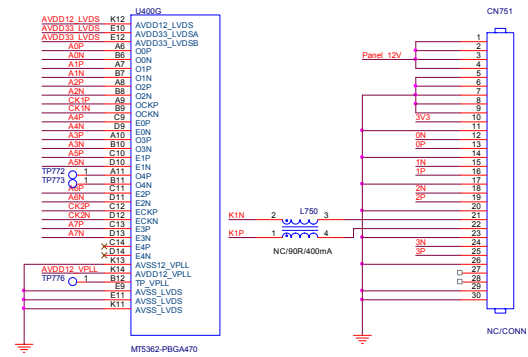
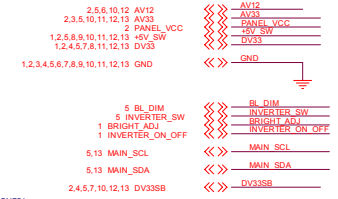
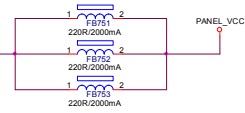
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	32AV615D	Size	Custom
型号名称 G3421-1-XX-081229	TPV MODEL	E30RG2BWE7BNC5	Rev	1
KeyComponent	12. HDMI/HDMI2 INPUT	PCB NAME	715G3431-1	
12. HDMI/HDMI2 INPUT	12. HDMI/HDMI2 INPUT	12. HDMI/HDMI2 INPUT	12. HDMI/HDMI2 INPUT	12. HDMI/HDMI2 INPUT

PANEL	Samsung 26"	LG 32"/37"
R755	1K	NC
R754	NC	0R

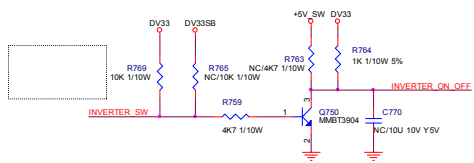


FOR WXGA PANEL

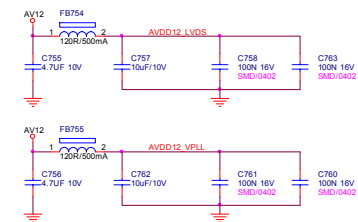
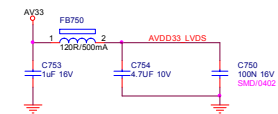
FOR FULL HD PANEL



BL CONTROL	R760	R758	C759
PWM CONTROL	100R	4K7	N/C
DC CONTROL	5K6	1K	22U



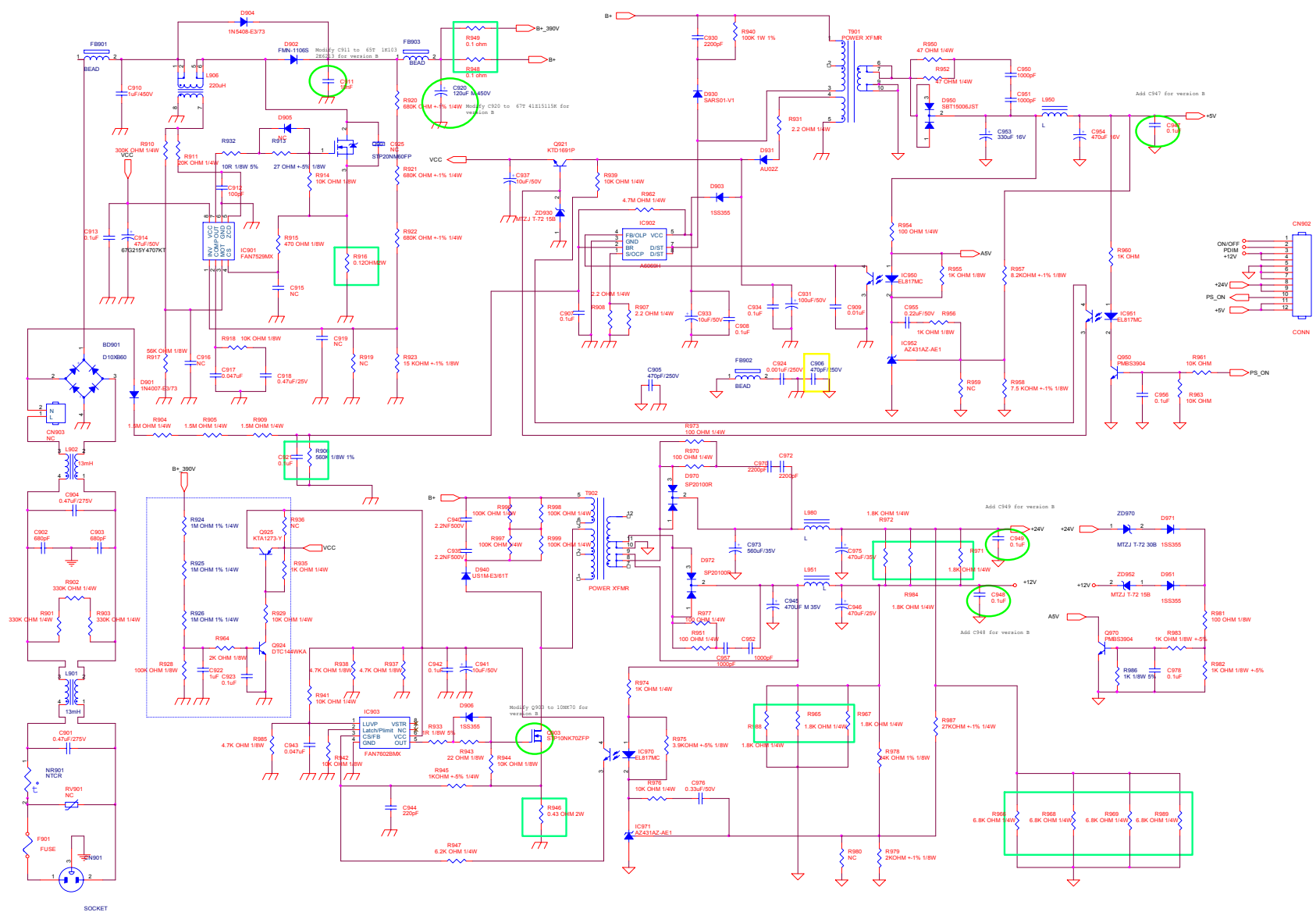
INVERTER ON/OFF	R763	R764
3V3	N/C	1K
5V	4K7	N/C



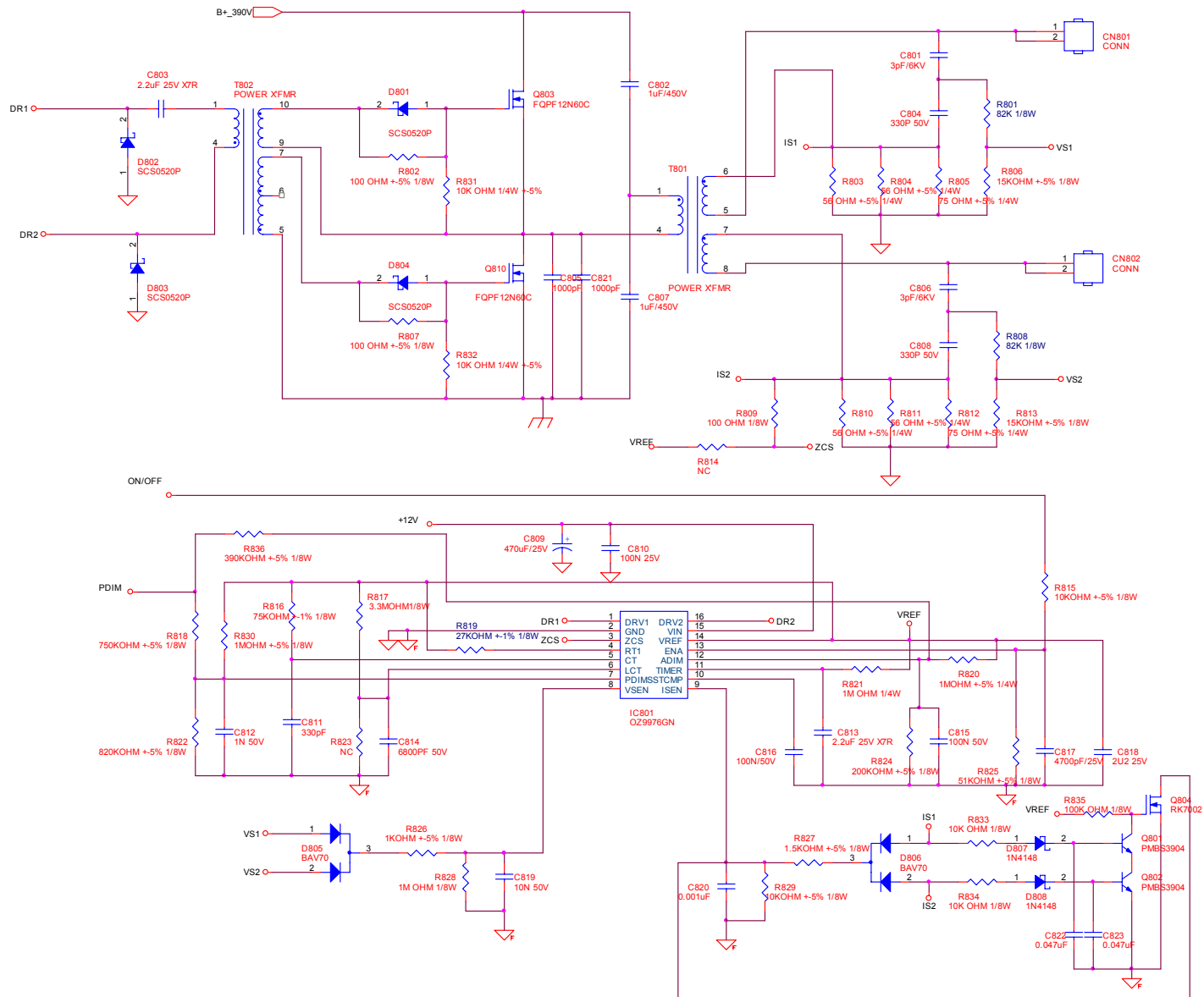
The item of this page start from "750"

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	32AV615D	Size	C
銅質瓜製機	G3431-I-X-X081229	TPV MODEL	E32RG2NB6WBNCS	Rev 1
KeyComponent	14. LVDS OUTPUT	PCB NAME	715G3431-I	背書
Date	Monday, January 12, 2009	Sheet	14 of 14	<簽名>

Power board

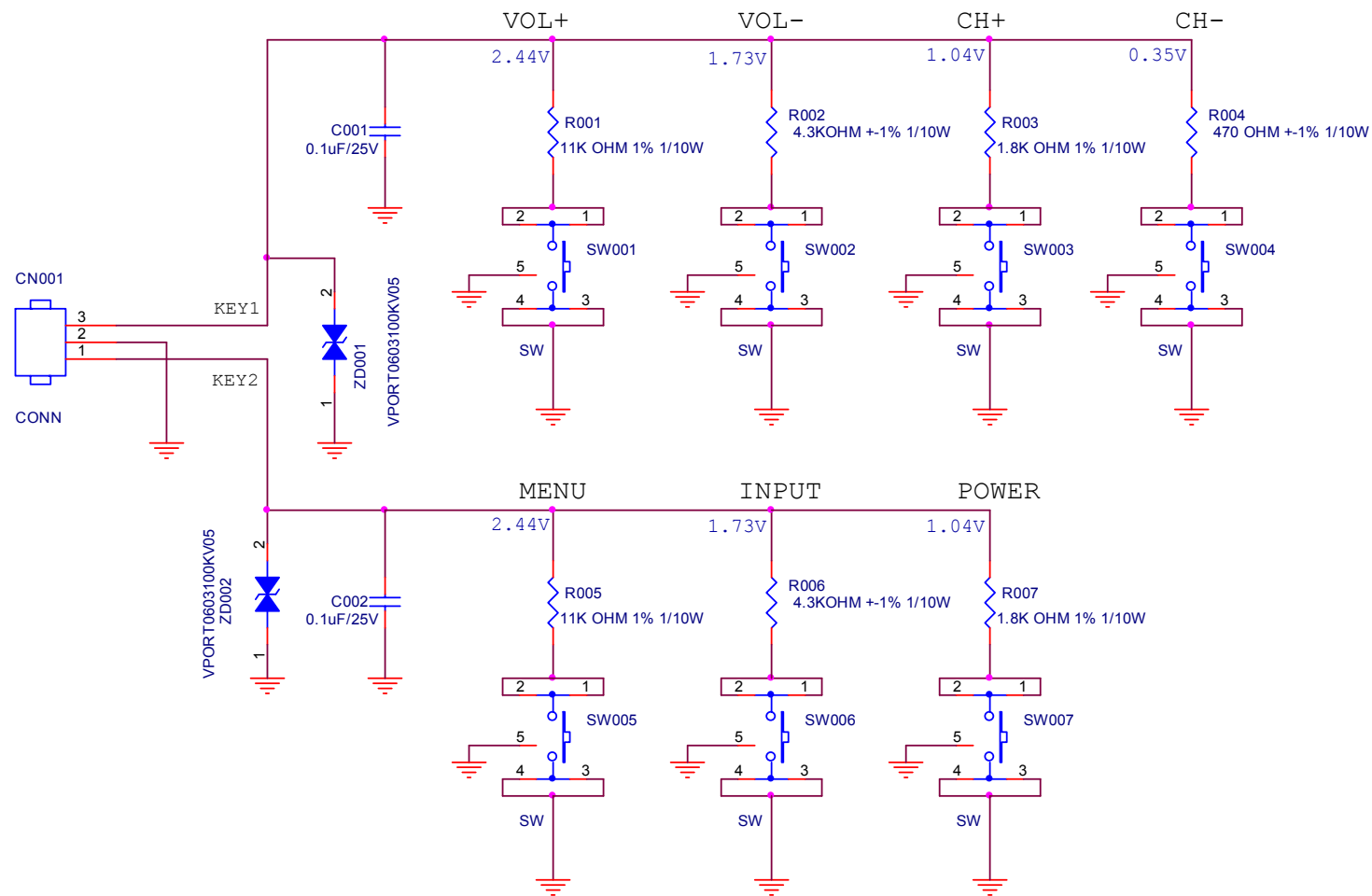


TPV (Top Victory Electronics Co., Ltd.)		DEM MODEL	Size	Custom
品名/品名	63734-P08-130-X-1-200714	TPV MODEL	PW10V10A10B	Rev 1.0
Key Component	02-POWER	PCB NAME	71503234P08H3000M	
Date	Tuesday, July 14, 2009	Sheet	2 of 3	6/8



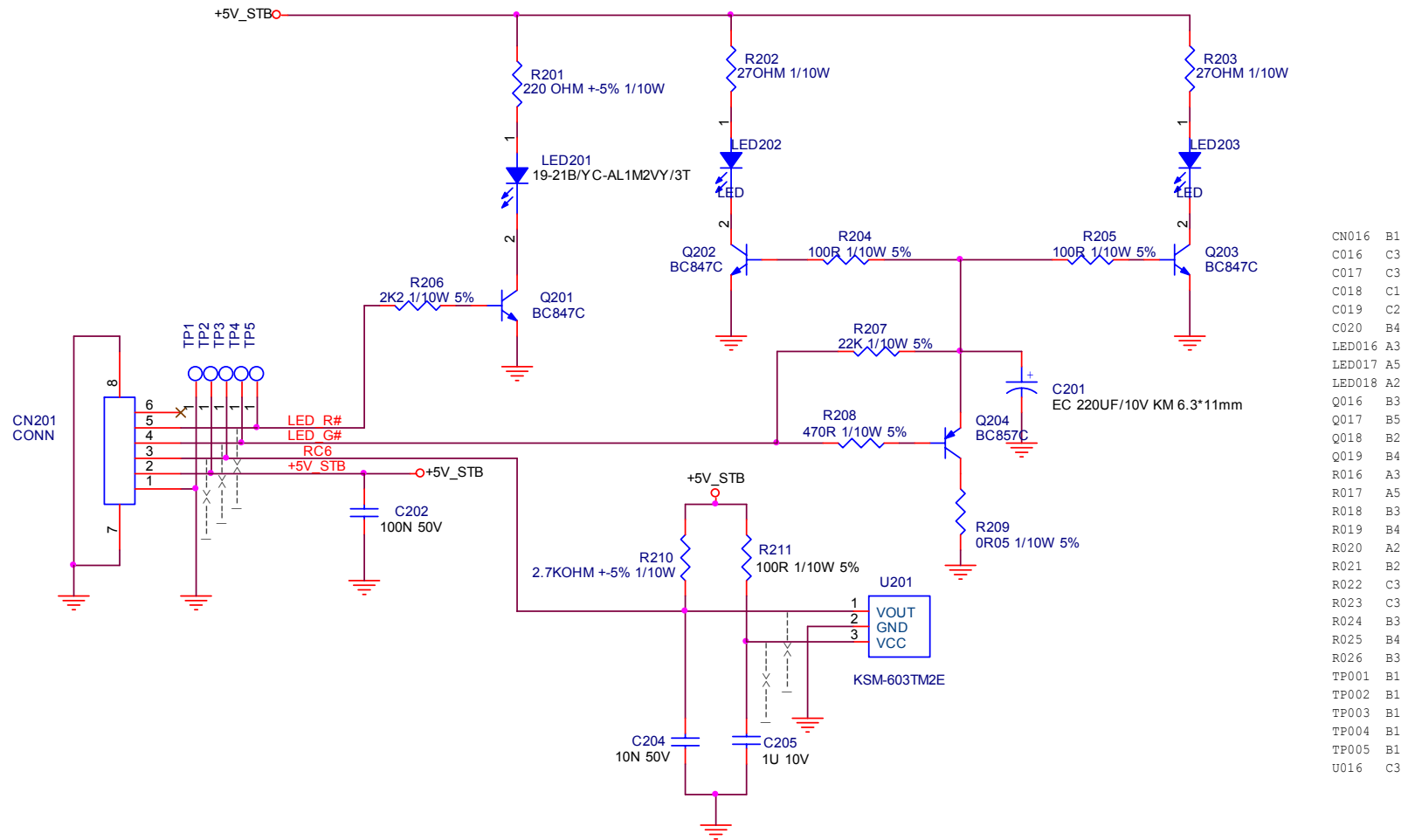
T P V (Top Victory Electronics Co. , Ltd.)	OEM MODEL	PWTV9NE1A88	Size	Custom
銘牌編號	G3234-POB-H30-X-1-090714	TPV MODEL	Rev	1.0
Key Component	03.INVERTER	PCB NAME	715G3234POBH30003M	稱重
Date	Tuesday, July 14, 2009	Sheet	3 of 3	<稱重>

Key board



TPV (Top Victory Electronics Co. , Ltd.)	OEM MODEL	Acer32 AT3248	Size	A
絨隔瓜網腹	715GXXX-A-X-X-1-090516	TPV MODEL	E329G2NBWAZ3NCQ	Rev
Key Component	02. KEYPAD	PCB NAME	715GXXX-A	称爹
Date	Monday , May 18, 2009	Sheet	2 of 2	<称爹>

IR board



The item of this page start from "016~030"

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Acer32 AT3248	Size	A	
絨隔瓜網腹	T3667-B-X-X-1-090516	TPV MODEL	E329G2NBWAZ3NCQ	Rev	B
Key Component	02.1R/LED	PCB NAME	715G3667-R0B-000-0040	称爹	<称爹>
Date	Fridav, July 10, 2009	Sheet	2 of 2		