

Service
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Service Manual

Horizontal Frequency
30 kHz to 83 kHz

Table Of Contents

Description	Page	Description	Page
Table Of Contents.....	1	5.2.Electrical Block Diagram.....	22
Revision List.....	2	6.Disassembly Flow Chart.....	24
Important Safety Notice.....	3	7.Schematic Diagram.....	29
1.Monitor Specifications.....	4	7.1 Main Board.....	29
2.LCD Monitor Description.....	5	7.2 Power Board.....	34
3.Operation Instructions.....	6	8.PCB Layout.....	36
3.1.General Instructions.....	6	8.1.Main Board.....	36
3.2.Control Buttons.....	7	8.2.Power Board.....	38
3.3 Adjusting the Picture.....	8	8.3.Key Board.....	40
4.Input/Output Specification.....	15	9.Maintainability.....	41
4.1.Input Signal Connector.....	15	9.1.Equipments and Tools Requirement.....	41
4.2.Factory Preset Display Modes.....	16	9.2.Trouble Shooting.....	42
4.3.Power Supply Requirements.....	16	10.White-Balance, Luminance adjustment.....	48
4.4.Panel Specification.....	17	11.ISP Instruction.....	49
4.5.Definition of Pixel Defects.....	18	12.Monitor Exploded View.....	55
5.Block Diagram.....	20	13.BOM List.....	56
5.1.Software Flow Chart.....	20	14.Different Parts List.....	71

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

Revision List

Revision	Release Date	Revise history	TPV model
A00	Nov.-03-2006	Initial Release	TC6MGHDKWDDDHDP
A01	Nov.-15-2006	Add TPV Models in item 14	TC6MGHHBWDDDHDP
			TC6MGHHKWDDDHDP
			TC6MGHHLWDDDHDP
			TC6MGHHMWDDDFHP
A02	Dec. 08-2006	Add TPV Models in item 14	TC6MGHHJWDDDHCP
			TC6MGHHJWDDDHDP
			TC6MGHHKWDDDHCP
			TC6MGHHLWDDDHCP
			TC6MGHHBWDDDHCP
			TC6MGHHMWDDDHCP

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 may 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 radiation 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.)

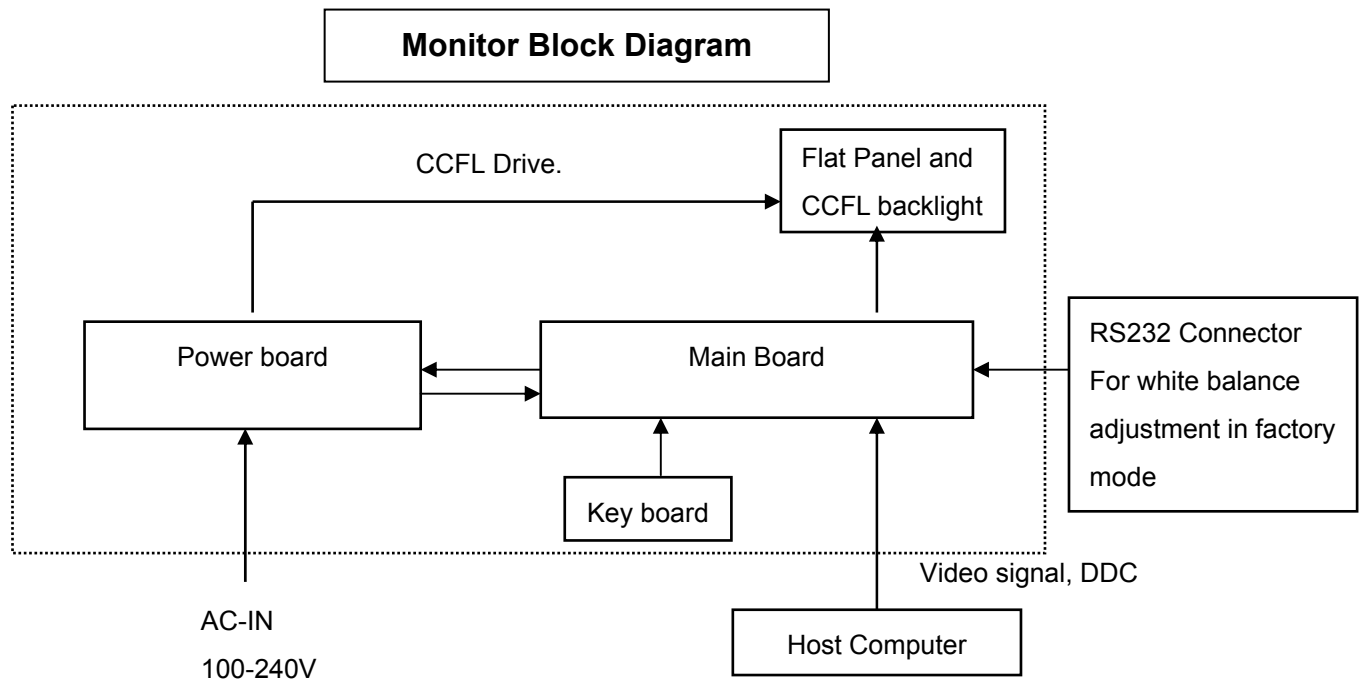
1. Monitor Specifications

LCD Panel	Screen type	Active matrix - TFT LCD
	Panel Type	M220Z1-L01C1 ZBD
	Size	22 inches (22-inch viewable image size)
	Pixel pitch	0.282(H) x 0.282(V)
	Viewable angle	160° (vertical) typ, 160° (horizontal) typ
	Response time	5ms(type)
Input	Video	R, G, B Analog Interface, DVI digital Interface
	Separate Sync	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	56 - 75Hz
Display Colors		16.7M
Dot Clock		165MHz (Max.)
Max. Resolution		1680 x 1050 at 60 Hz
Plug & Play		VESA DDC
EPA ENERGY STAR®	ON Mode	<45W
	OFF Mode	<1W
Input Connector		15-pin D-subminiature, blue connector; DVI-D, white connector
Maximum Screen Size		Horizontal : 473.76 mm (18.65 inches) Vertical: 296.1 mm (11.66 inches)
Power Source		100 to 240 VAC / 50 or 60 Hz $\pm$ 3 Hz / 1.5A
Environmental Considerations		Operating Temp: 5° to 35°C Operating Humidity: 10% to 80% Storage Temp.: -20° to 60°C
Weight		Weight with packaging: 296.1 mm (11.66 inches) Weight with stand assembly and cables: 15.65 lbs (7.1 kg) Weight without stand assembly: 11.46 lbs (5.2 kg) Weight of stand assembly: 2.65 lbs (1.2 kg)

2. LCD Monitor Description

The LCD monitor will contain a main board, power board, key board, which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



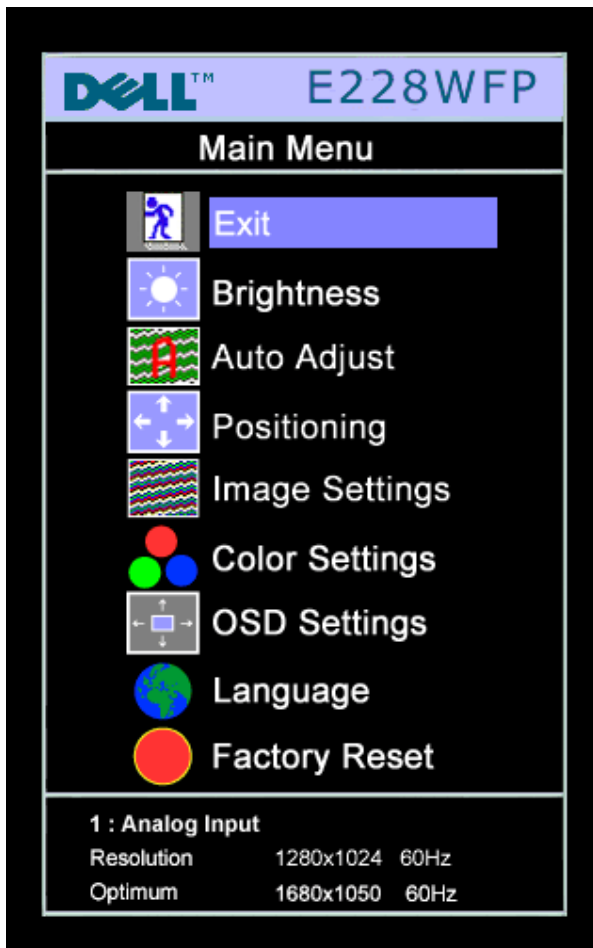
3. Operation instructions

3.1 General Instructions

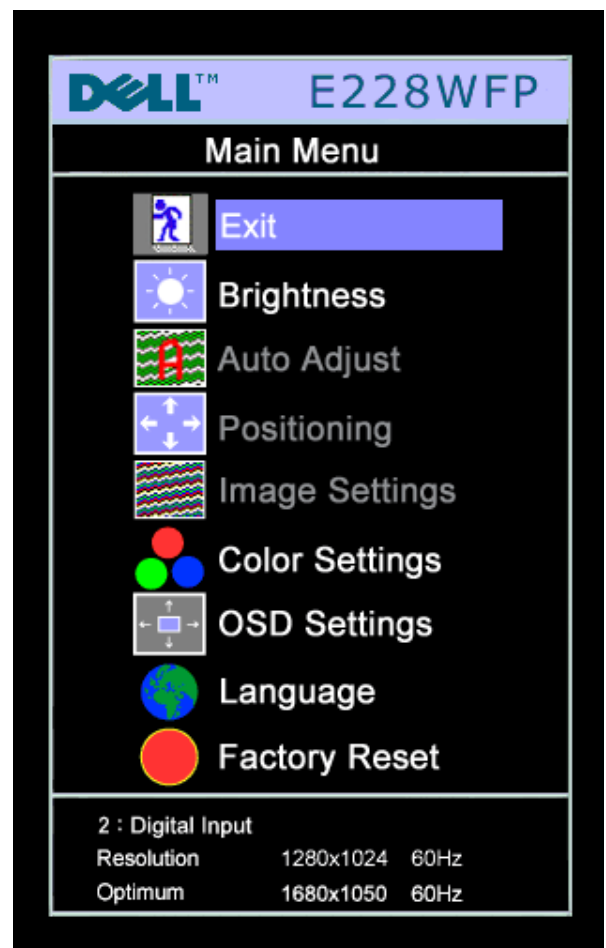
 **NOTE:** If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Push the MENU button to open the OSD menu and display the main menu.

Main Menu for Analog (VGA) Input



Main Menu for digital (DVI) Input

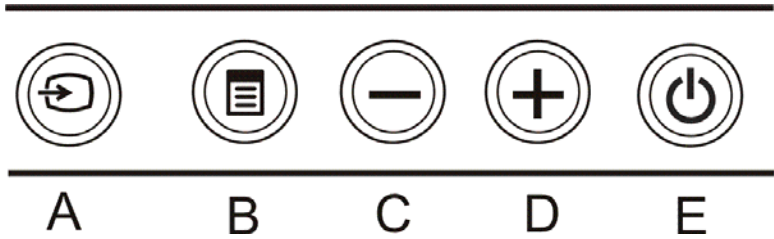


NOTE: Auto Adjust, Positioning and Image Settings are only available when you are using the analog (VGA) connector.

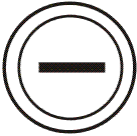
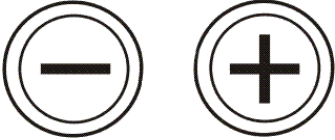
2. Push the - and + buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table below for a complete list of all the options available for the monitor.
3. Push the MENU button once to activate the highlighted option.
4. Push - and + button to select the desired parameter.
5. Push MENU to enter the slide bar and then use the - and + buttons, according to the indicators on the menu, to make your changes.
6. Push the MENU button once to return to the main menu to select another option or push the MENU button two or three times to exit from the OSD menu.

When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock selected. Select No (-) to unlock and allow user access to all applicable settings.

3.2 Control Buttons

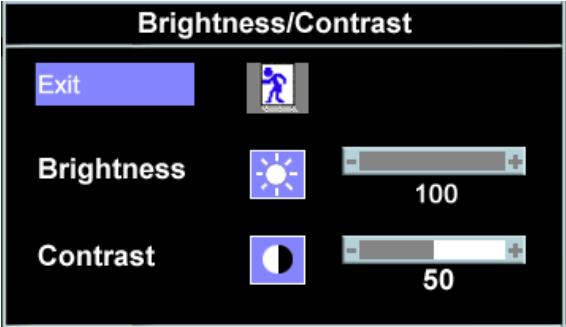
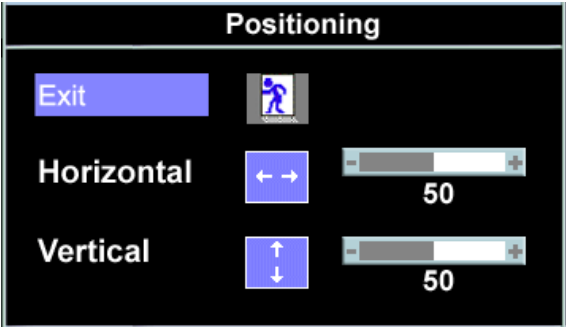
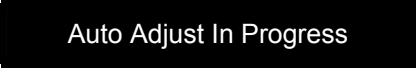


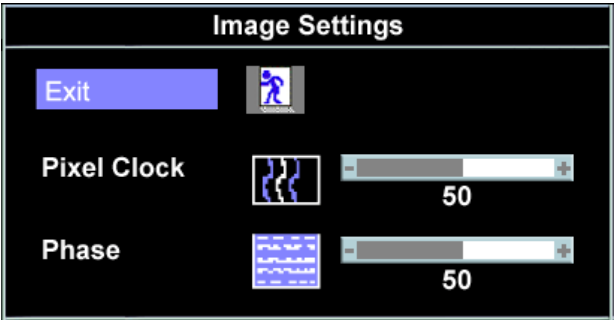
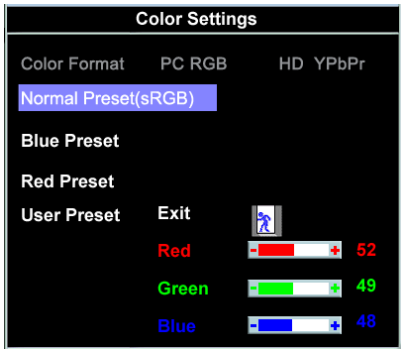
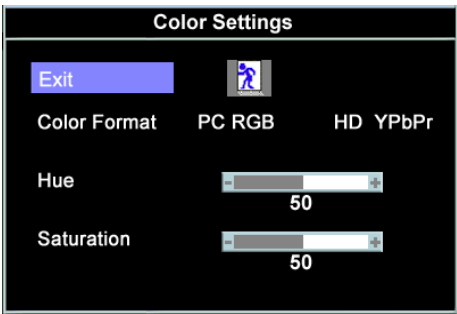
A	Input select	Use the Input Select button to select between two different video signals that may be connected to your monitor. Description of auto-sync detect: If both VGA and DVI cables are connected to one PC, this monitor will display an image automatically just as long as a video signal is present in either VGA or DVI outputs. When connecting one display to two PCs, if using screen savers, best to set both to the exact times. Whichever mouse is moved first will activate that video input first. NOTE: The floating 'Dell Self-test Feature Check' dialog appears on a black background if the monitor cannot sense a video signal. Using the input select button, select the desired input to be tested either Analog Input or Digital Input. Disconnect the video cable from the video card and the Dell Self-test Feature Check dialogue box will appear if the display is operating correctly. 1: Auto Detect (Analog Input) Self Test Feature Check Red Green Blue White 1: Auto Detect (Digital Input) Self Test Feature Check Red Green Blue White 2: Analog Input Self Test Feature Check Red Green Blue White 3: Digital Input Self Test Feature Check Red Green Blue White
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C	 Brightness/Contrast Hot Key	Use this button for direct access to the "Brightness" and "Contrast" control menu.
C, D	 Down (-) and Up (+)	Use these buttons to adjust (decrease/increase ranges) items in the OSD menu.  NOTE: You can activate automatic scroll feature by pressing and holding either + or - button.
D	 Auto Adjust	Use this button to activate automatic setup and adjust menu. The following dialog appears on a black screen as the monitor self-adjusts to the current input: Auto Adjust In Progress Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.  NOTE: Auto Adjust will not occur if you press the button while there are no active video input signals, or attached cables.
E	 Power Button and Indicator	Use the power button to turn the monitor on and off. The green light indicates the monitor is on and fully functional. An amber light indicates power save mode.

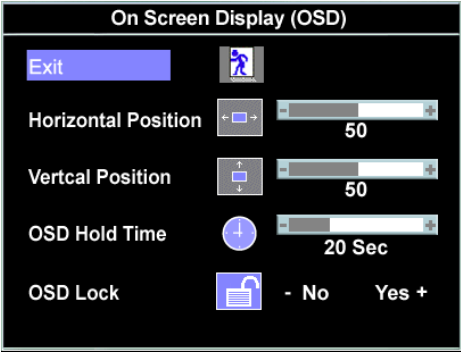
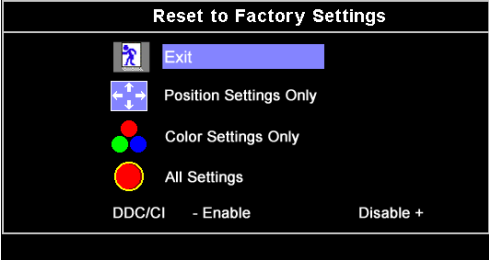
3.3 Adjusting the Picture

Icon	Menu and Submenus	Description
	Exit	Select to exit the Main menu.
	Brightness/ Contrast	Brightness adjusts the luminance of the backlight. Adjust Brightness first, then adjust Contrast only if further adjustment is necessary. Push the + button to increase luminance and push the - button to decrease luminance (min 0 ~ max 100). Contrast adjusts the degree of difference between darkness and lightness on the monitor screen.

		Push the + button to increase the contrast and push the - button to decrease the contrast (min 0 ~ max 100). 
	Positioning: Horizontal Vertical	Positioning moves the viewing area around on the monitor screen. When making changes to either the Horizontal or Vertical settings, no changes occur to the size of the viewing area. The image shifts in response to your selection. Minimum is 0 (-) and maximum is 100 (+).   NOTE: When using DVI source, the Positioning option is not available.
	Auto Adjust	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup. Select to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to the current input:  Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.  NOTE: In most cases, Auto Adjust produces the best image for your configuration.  NOTE: When using DVI source, the Auto Adjust is not available.
	Image settings:	The Phase and Pixel Clock adjustments allow you to more closely adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting Image Settings.

	Pixel Clock (Coarse) Phase (Fine)	Use the - and + buttons to make adjustments. (Minimum: 0 ~ Maximum: 100) If satisfactory results are not obtained using the Phase adjustment, use Pixel Clock (Coarse) and then use Phase (fine), again.  NOTE: This function may change the width of the display image. Use the Horizontal function of the Position menu to center the display image on the screen.   NOTE: When using DVI source, the Image Settings option is not available.
	Color Settings	Color Settings adjusts the color temperature, color hue, and saturation. The color hue is most noticeable in areas of white.    NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input. Color Format To achieve the different color domain for PC RGB and HD YPbPr (HD YPbPr is suitable for HD video playback over DVI. PC RGB is suitable for normal PC graphics display over DVI.). Blue Preset Blue Preset is selected to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, programming, text editors, etc.). Red Preset Red Preset is selected to obtain a redder tint. This color setting is typically used for color-intensive applications (photograph image editing, multimedia, movies, etc.). Normal Preset Normal Preset is selected to obtain the default (factory) color settings. This setting is also the "sRGB" standard default color space.

	User Preset Hue Saturation	User Preset: Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in single digit increments, from 0 to 100. This feature can make color shift of video image to green or purple. This is used to adjust for desired flesh tone color. Use - or + to adjust the hue from '0' to '100'  makes video image shade into greenish.  makes video image shade into purplish.  NOTE: Hue adjustment only available for video playback via DVI using HD YPbPr.  makes video image looks more monochrome.  makes video image looks more colorful.  NOTE: Saturation adjustment only available for video playback via DVI using HD YPbPr.
	OSD Settings: Horizontal Position Vertical Position OSD Hold Time OSD Lock	Adjust the settings for the OSD, including the location and the amount of time the menu remains on-screen. Position of the OSD: ● To adjust the horizontal position of the OSD, use the - and + buttons, and move OSD to the left and right. ● To adjust the vertical position of the OSD, use the - and + buttons, and move OSD down and up. OSD Hold Time: The OSD stays active for as long as it is in use. Adjusting the hold time, sets the length of time the OSD remains active after the last time you pressed a button. Use the - and + buttons to adjust the slider in 5 second increments, from 5 to 60 seconds. OSD Lock: Controls user access to adjustments. When Yes (+) is selected, no user adjustments are allowed. All buttons are locked except the menu button.  NOTE: When the OSD is locked, pressing the menu button takes the user directly to the OSD settings menu, with OSD Lock selected. Select No (-) to unlock and allow user access to all applicable settings.

		  <i>NOTE: You can also lock or unlock the OSD by pushing and holding the Menu button for 15 seconds.</i>
	Language	Select to have the OSD display in one of five languages (English, French, Spanish, German, or Japanese).   <i>NOTE: The change only affects the OSD. It has no effect on any software running on the computer.</i>
	Factory Reset:	Reset the OSD menu options to the factory preset values.  DDC/CI: — DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjustable via software on your PC. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor. Exit — Select to exit out of Reset to Factory Settings menu without resetting any OSD options. Position settings only — Change the settings for Image Position back to original factory settings. Color settings only — Change the Red, Green, and Blue settings back to their original factory settings and set the default setting for Normal Preset.

All settings — Change all the user-adjustable settings including color, position, and brightness, contrast, and OSD hold time to the factory defaults. The language of the OSD does not change.

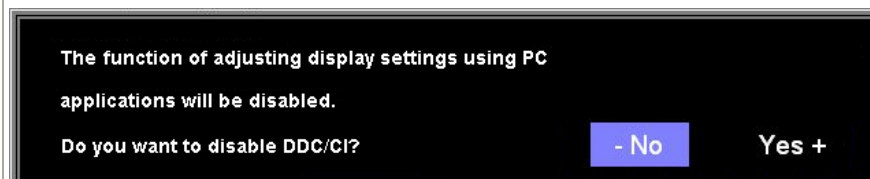
DDC/CI: — Enable the DDC/CI control function.

DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjustable via software on your PC.

Default is "Enable". You can disable this feature by selecting "Disable".

For best user experience and optimum performance of your monitor, keep this feature enabled.

 **NOTE:** If user select "Disable", display Warning message box as below. Select "Yes" disable DDC/CI and return to "Factory Reset" menu. Warning message time-out in 20 sec.

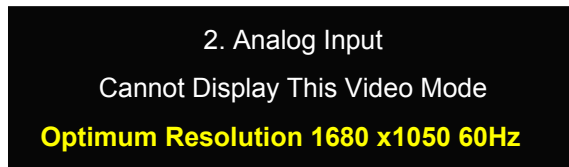
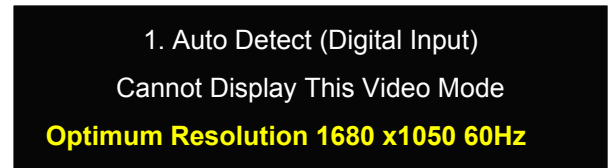


OSD Warning Messages

One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.



or



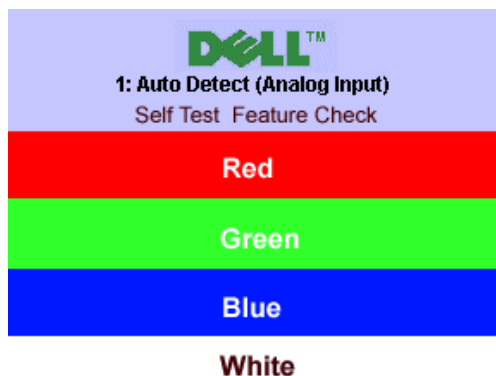
or



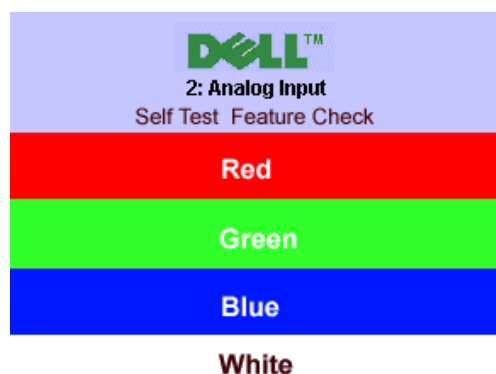
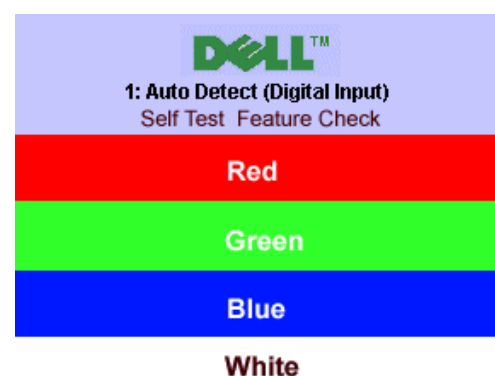
This means that the monitor cannot synchronize with the signal that it is receiving from the computer. Either the signal is too high or too low for the monitor to use. See specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1680 X 1050 @ 60Hz.



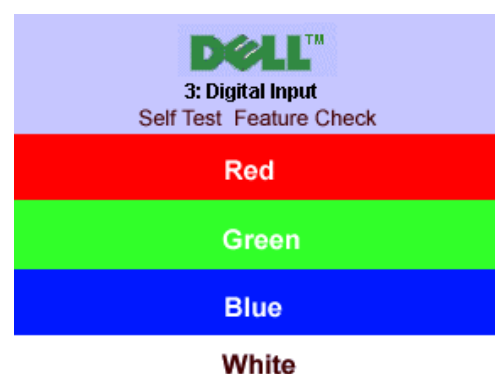
NOTE: The floating Dell Self-test Feature Check dialog appears on-screen if the monitor cannot sense a signal cable.



or



or



Occasionally, no warning message appears, but the screen is blank. This could also indicate that the monitor is not synchronizing with the computer.

See solving problems for more information.

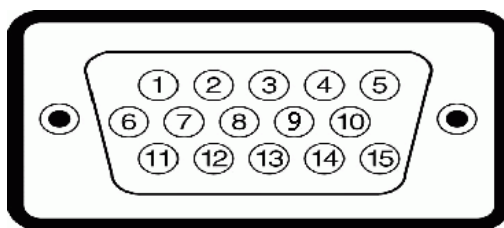
4. Input/Output Specification

4.1 Input Signal Connector

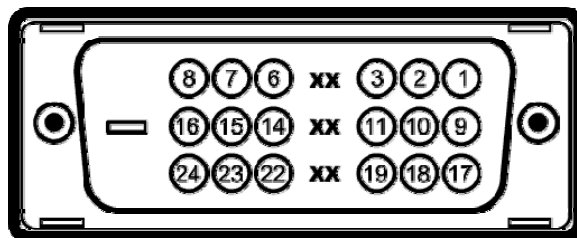
VGA Connector:

Pin NO.	Description	Pin NO.	Description
1.	Red Video	9.	DDC +5V
2.	Green Video	10.	GND-sync
3.	Blue Video	11.	GND
4.	GND	12.	DDC data
5.	Self-test	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC clock
8.	B-Ground		

VGA Connector layout



DVI Connector:



Note: Pin 1 is at the top right.

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S. Data 2-	9	T.M.D.S. Data 1-	17	T.M.D.S. Data 0-
2	T.M.D.S. Data 2+	10	T.M.D.S. Data 1+	18	T.M.D.S. Data 0+
3	T.M.D.S. Data 2 Shield	11	T.M.D.S. Data 1 Shield	19	T.M.D.S. Data 0 Shield
4	No Pin	12	No Pin	20	No Pin
5	No Pin	13	No Pin	21	No Pin
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock +
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock -

4.2 Factory Preset Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
SXGA	1152x864@75Hz	1600x900	67.500	P	75.000	P	108.00
	1280x1024@60Hz	1688x1066	64.000	P	60.000	P	108.00
	1280x1024@75Hz	1688x1066	79.976	P	75.025	P	135.00
WSXGA	1680x1050@60H	2240x1899	65.16	P	60.0	P	146
DOS	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322

4.3 Power Supply Requirements

A/C Line voltage range	: 100 V ~ 240 V
A/C Line frequency range	: 50 ± 3Hz, 60 ± 3Hz
Current	: 1.5A max at 100V; 0.8A max at 240 V
Peak surge current	: < 60A peak at 240 VAC and cold starting
Leakage current	: < 3.5mA
Power line surge	: No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second
DC output Voltage	: 5VDC ± 5%; 12VDC± 5%

4.4 Panel Specification**M220Z1-L01C1 ZBD****4.4.1 Display Characteristics**

Item	Specification	Unit
Diagonal size	558.68	mm
Active Area	473.76x296.1	mm
Bezel Opening Area	477.7 (H) x 300.1 (V)	mm
Driver Element	a-Si TFT active matrix	-
Pixel Number	1680 x R.G.B. x 1050	pixel
Pixel Pitch	0.282(H) x 0.282(V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.7 millions	color
Transmissive Mode	Normally White	-
Surface Treatment	Hard coating (3H), AG (Haze 25%)	-

4.4.2 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	R _x	$\theta_x=0^\circ, \theta_Y=0^\circ$ CS-1000T	Typ – 0.03	0.639	Typ + 0.03	
		R _y			0.333		
	Green	G _x			0.289		
		G _y			0.597		
	Blue	B _x			0.153		
		B _y			0.082		
	White	W _x			0.313		
		W _y			0.329		
	Color Gamut	C.G%				68	---
Center Luminance of White		L _C		255	300	---	cd/m ²
Contrast Ratio		CR		450	700	---	-
Response Time		T _R	$\theta_x=0^\circ, \theta_Y=0^\circ$	---	2	7	ms
		T _F		---	3	8	ms
White Variation		δW	$\theta_x=0^\circ, \theta_Y=0^\circ$ BM-5A	---	1.3	1.5	-
Viewing Angle	Horizontal	θ _x +		75	85	---	Deg.
		θ _x -		75	85	---	
	Vertical	θ _Y +		70	80	---	
		θ _Y -		70	80	---	

4.5 Definition of Pixel Defects

4.5.1. Description

These inspection standards shall be applied to LCD Module supplied by CHI MEI Optoelectronics Corporation.

4.5.2 The environmental condition of inspection

The environmental condition and visual inspection shall be conducted as below.

- (1) Ambient temperature: 15~25°C
- (2) Humidity: 25~75 %RH
- (3) External appearance inspection shall be conducted by using a single 20W fluorescent lamp or equivalent illumination.
- (4) Panel visual inspection on the operation condition for cosmetic shall be conducted at the distance 35cm or more between the LCD module and eyes of inspector. And, the viewing angle shall be 90 degree to the front surface of display panel.

Ambient Illumination: 400 ~ 600 Lux for external appearance inspection

Ambient Illumination: 100 ~ 200 Lux for light on inspection

4.5.3 Classification of defects

Defects are classified two types, major defect and minor defect according to the defect. And, the definition of defects is classified as below.

(1) Major defect

Any defect may result in functional failure, or reduce the usability of product for its purpose. For example, electrical failure, deformation and etc..

(2) Minor defect

A defect that is not to reduce the usability of product for its intended purpose and un-uniformity, dot defect and etc..

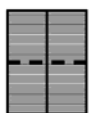
The criteria on major and/or minor judgement will be according with the classification of defects.

4.5.4 Inspection Criteria

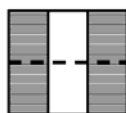
(1) Definition of dot defect induced from the panel inside

- a) The definition of dot: The size of a defective dot over 1/2 of whole dot is regarded as one defective dot.
- b) Bright dot: Dots appear bright and unchanged in size in which module is displaying under black pattern.
- c) Dark dot: Dots appear dark and unchanged in size in which module is displaying under pure red, green, blue picture.
- d) 2 dot adjacent = 1pair = 2 dots

Picture:



2 dot adjacent



2 dot adjacent



2 dot adjacent (vertical)



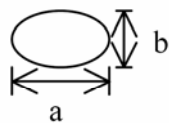
2 dot adjacent (slant)

(2) Display Inspection

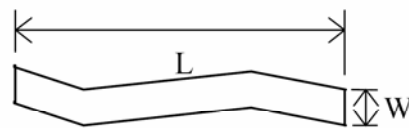
Items		Acceptable count
Bright dot	Random	$N \leq 0$
	2 dots adjacent	$N \leq 0$
	3 dots adjacent or more	$N \leq 0$
Dark dot	Random	$N \leq 5$
	2 dots adjacent	$N \leq 1$
	3 dots adjacent or more	$N \leq 0$
Distance	Minimum Distance Between Bright dots	$L \geq 15\text{mm}$
	Minimum Distance Between Dark dots	$L \geq 15\text{mm}$
Total bright and dark dot		$N \leq 5$
Display failure (V-line/H-line/Cross line etc.)		Not allowable
Mura	Not visible through 8% ND filter or judge by limit sample if necessary	

(3) Appearance inspection

Item	Standards
Foreign Black/White/Bright Spot	$0.15 < D \leq 0.5 \text{ mm}$, $N \leq 4$
Foreign Black/White/Bright Lint	$0.05 < W \leq 0.1 \text{ mm}$, $0.5 < L \leq 5.0 \text{ mm}$, $N \leq 4$
Polarizer Scratches	$0.05 < W \leq 0.1 \text{ mm}$, $0.5 < L \leq 10.0 \text{ mm}$, $N \leq 4$
Dent/Air Bubble	Avg. $0.15 < D \leq 0.5 \text{ mm}$, $N \leq 4$



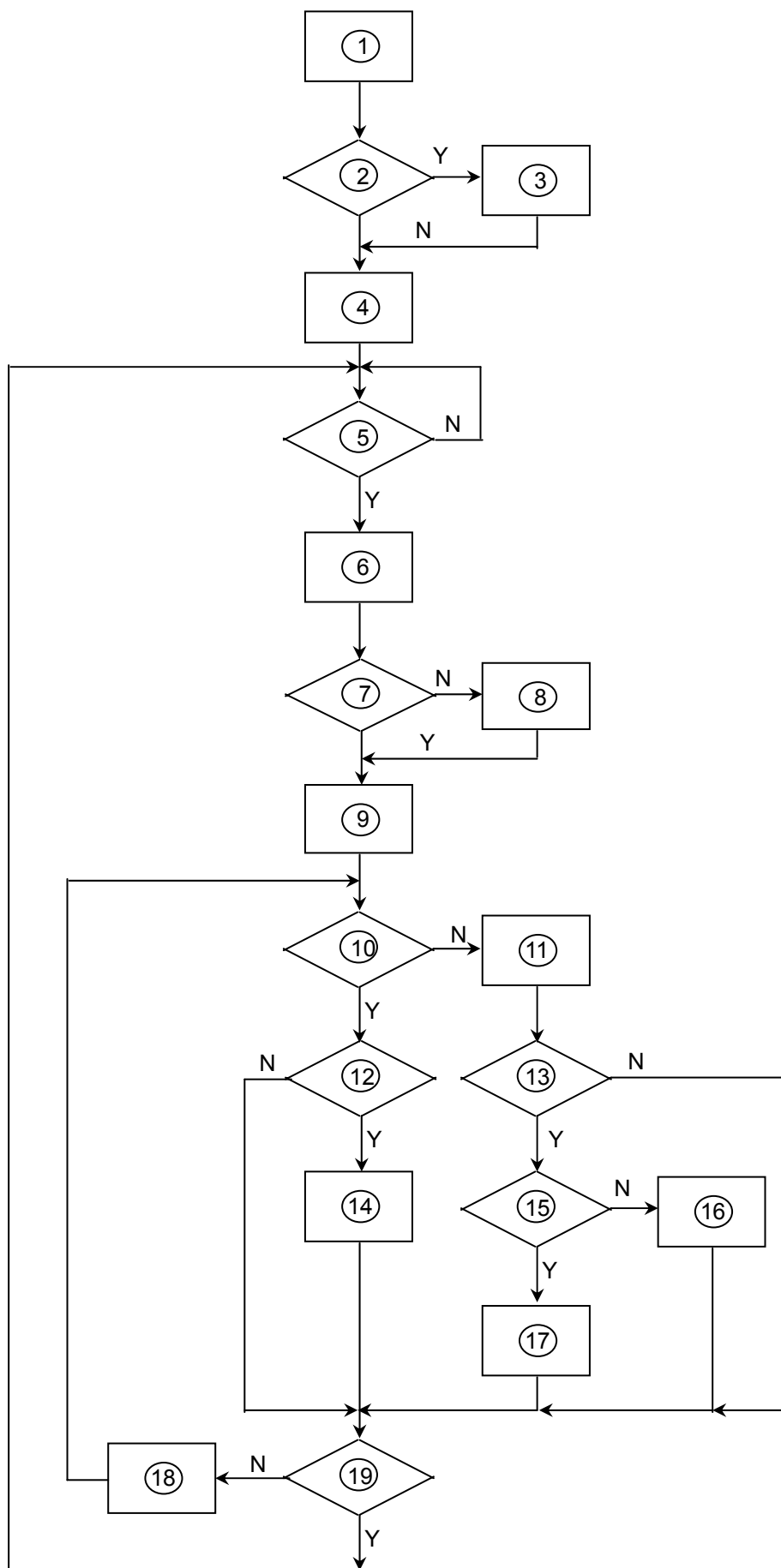
$$D = (a+b)/2$$



W: width, L : length

5. Block Diagram

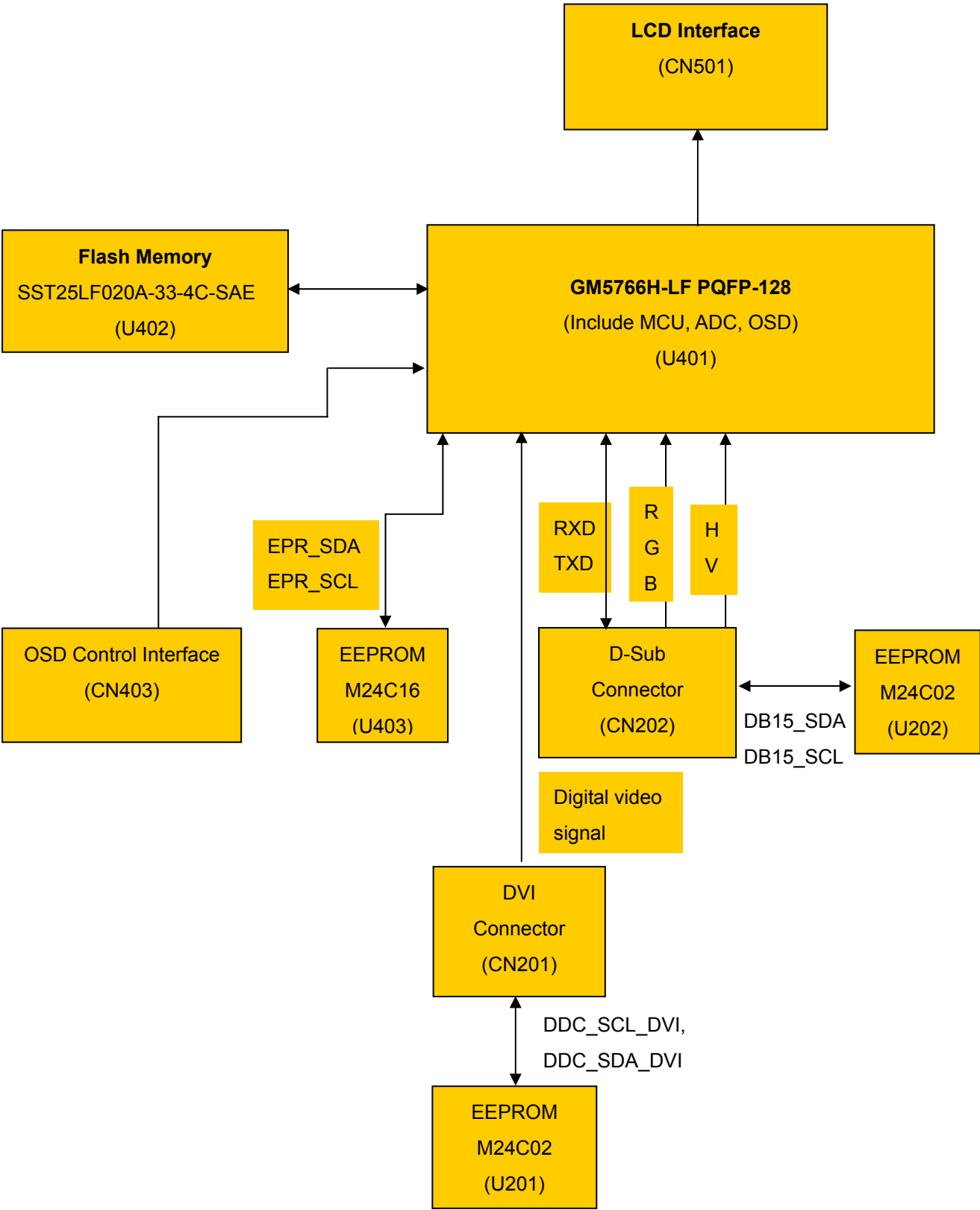
5.1 Software Flow Chart



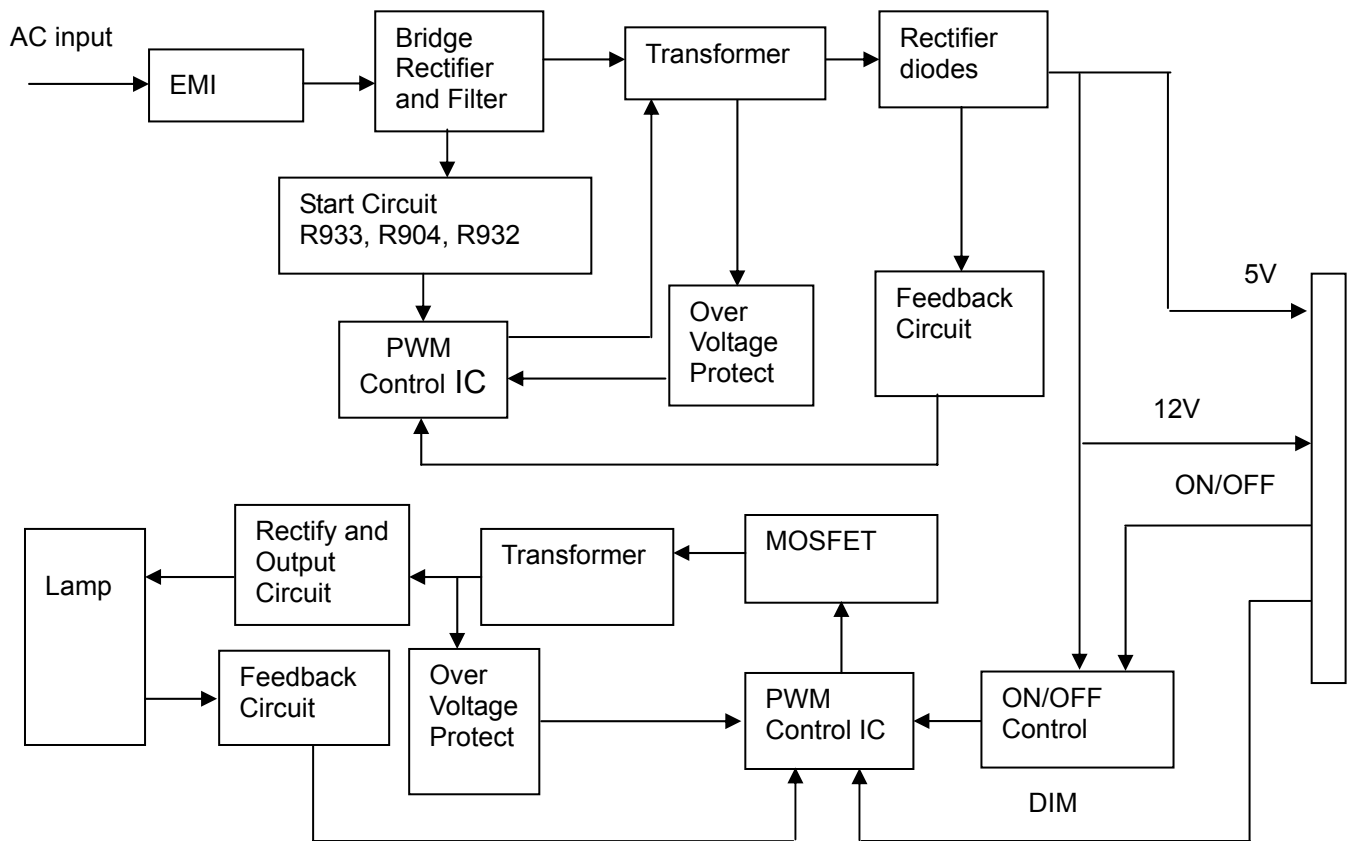
- 1) MCU Initializes.
- 2) Is the EEprom blank?
- 3) Program the EEprom by default values.
- 4) Get the PWM value of brightness from EEprom.
- 5) Is the power key pressed?
- 6) Clear all global flags.
- 7) Are the AUTO and SELECT keys pressed?
- 8) Enter factory mode.
- 9) Save the power key status into EEprom. Turn on the LED and set it to green color. Scalar initializes.
- 10) In standby mode?
- 11) Update the lifetime of back light.
- 12) Check the analog port, are there any signals coming?
- 13) Does the scalar send out an interrupt request?
- 14) Wake up the scalar.
- 15) Are there any signals coming from analog port?
- 16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
- 17) Program the scalar to be able to show the coming mode.
- 18) Process the OSD display.
- 19) Read the keyboard. Is the power key pressed?

5.2 Electrical Block Diagram

5.2.1 Main Board



5.2.2 Inverter and Power Board

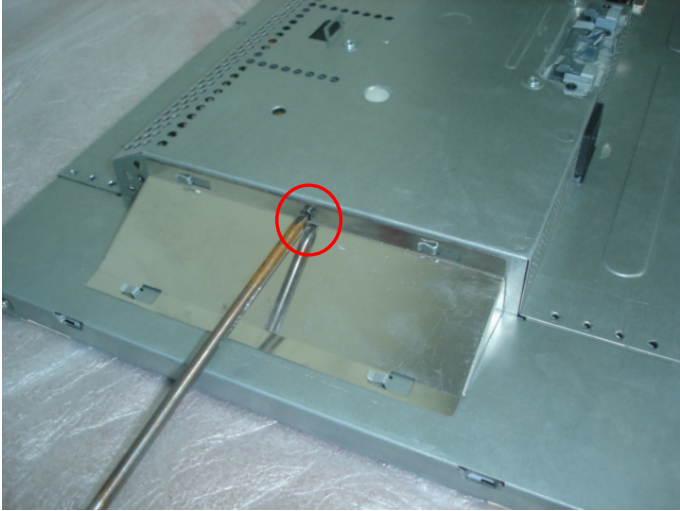


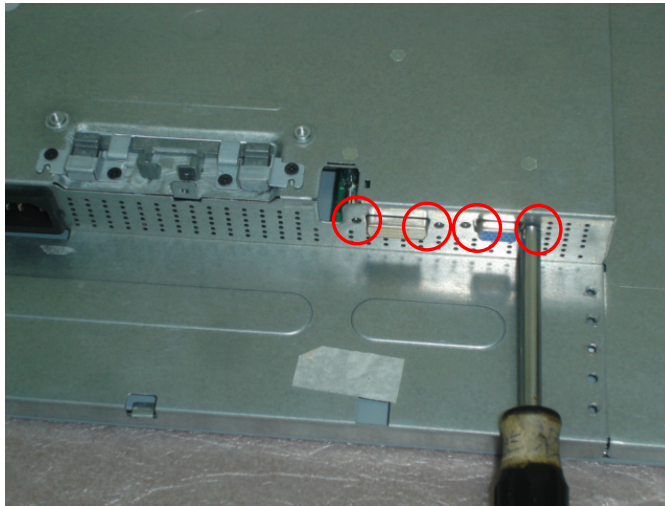
6. Disassembly Flow Chart

Note: Firstly, put the monitor on a soft, flat and clean surface, wear gloves.

Item	Fig	Remark
Remove stand		Press the Stand release button and lift up the Stand and away from the monitor.
Remove the rear cover		1. Remove the 4 screws
		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 as the Fig and take off the rear cover
Remove bezel		Remove the small cover shield.
		Disconnect the Key board connector and remove the bezel

Remove the small shield		Remove the screw
		Push the small shield as the arrowhead direction
		Disconnect the back light connectors

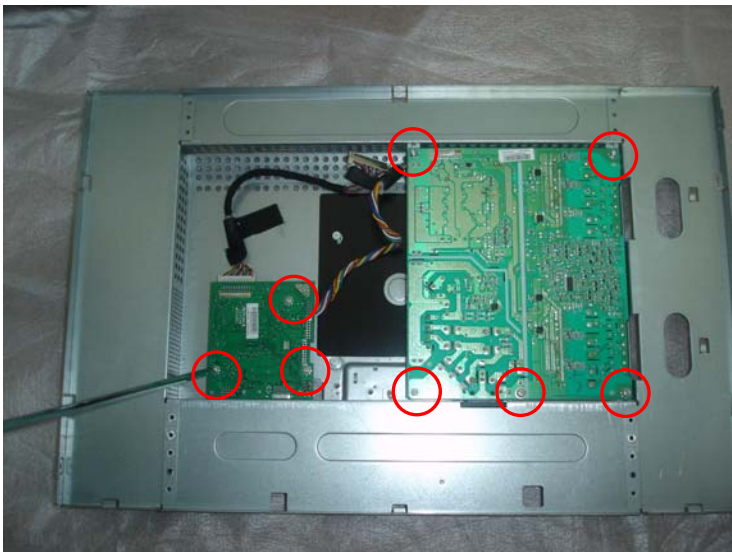
**Remove the
main frame**

Remove the four screws



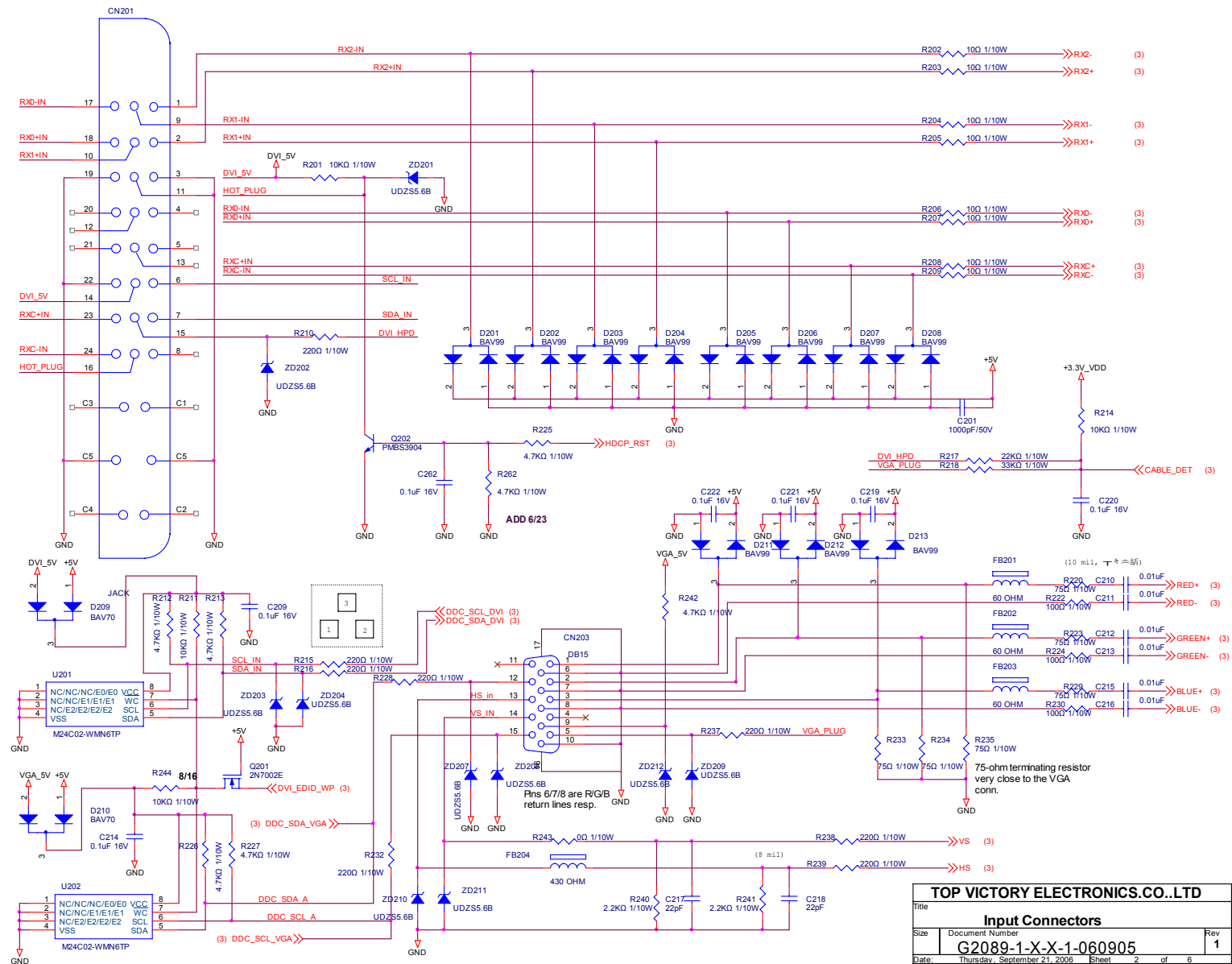
Remove the four screws and
remove the main frame

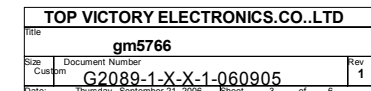


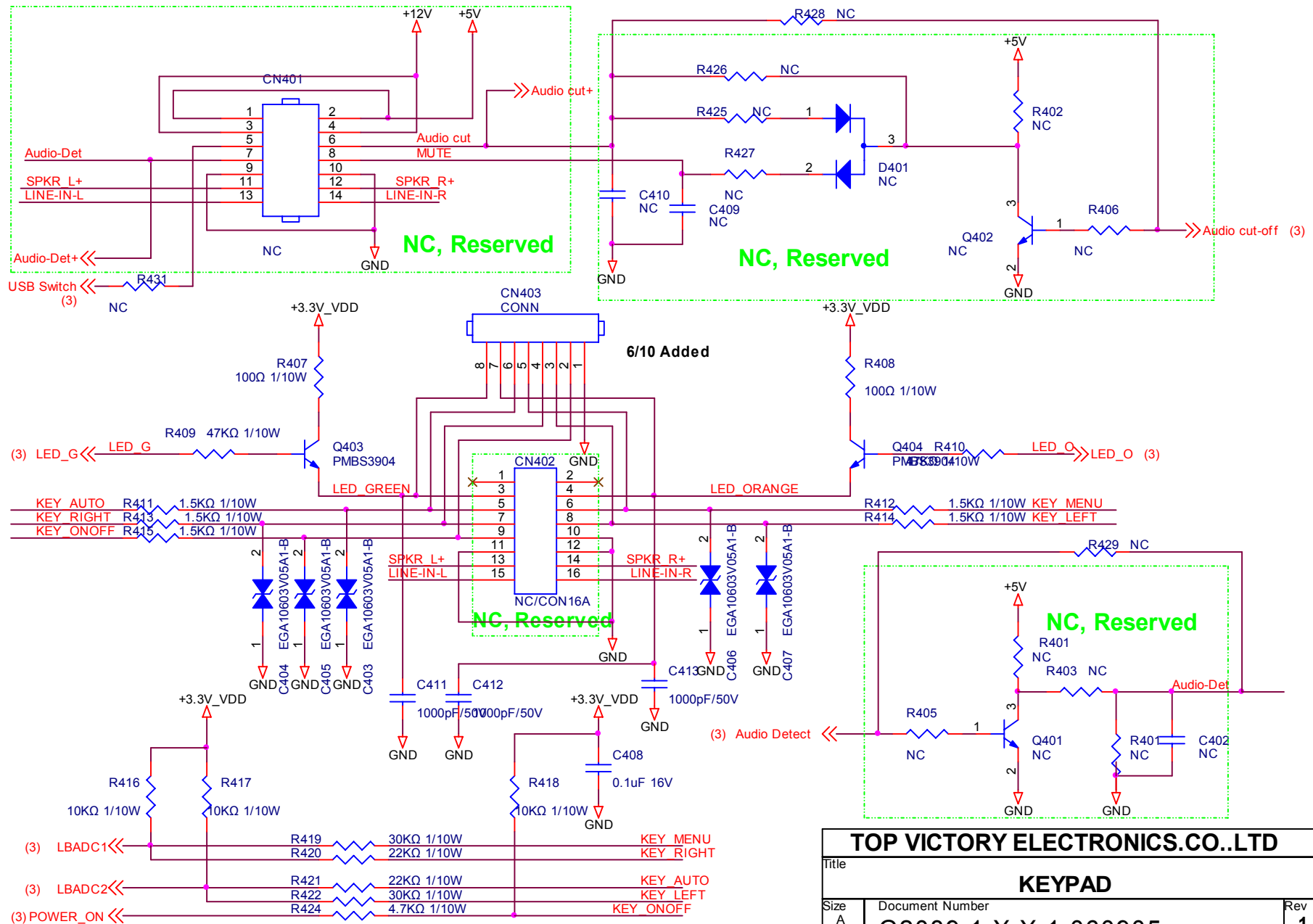
		Remove the main frame and at the same time disconnect the LVDS connector
Remove the Power board and main board		Remove the eight screws and remove the Power board and main board
The end		

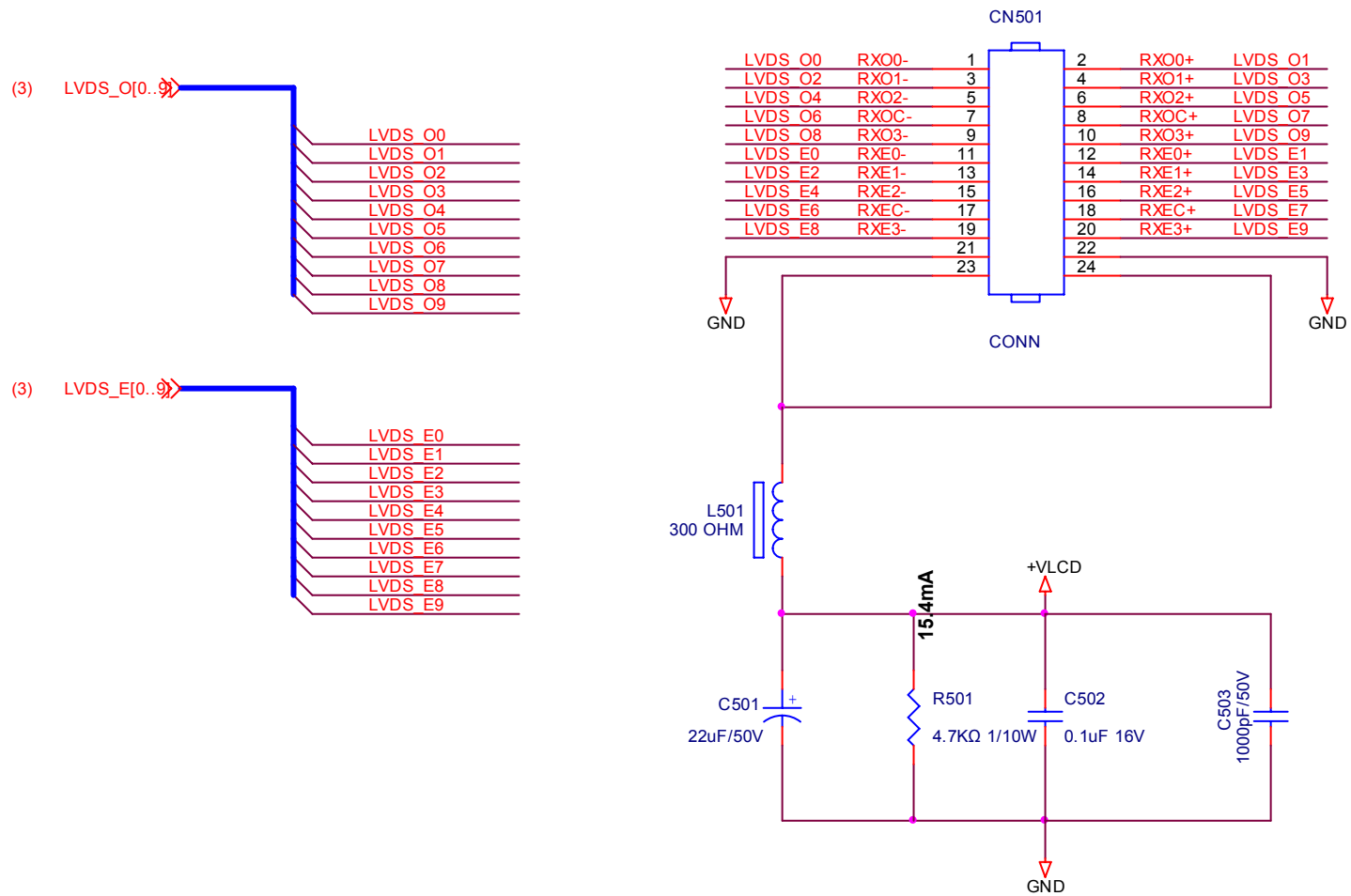
7. Schematic Diagram

7.1 Main Board

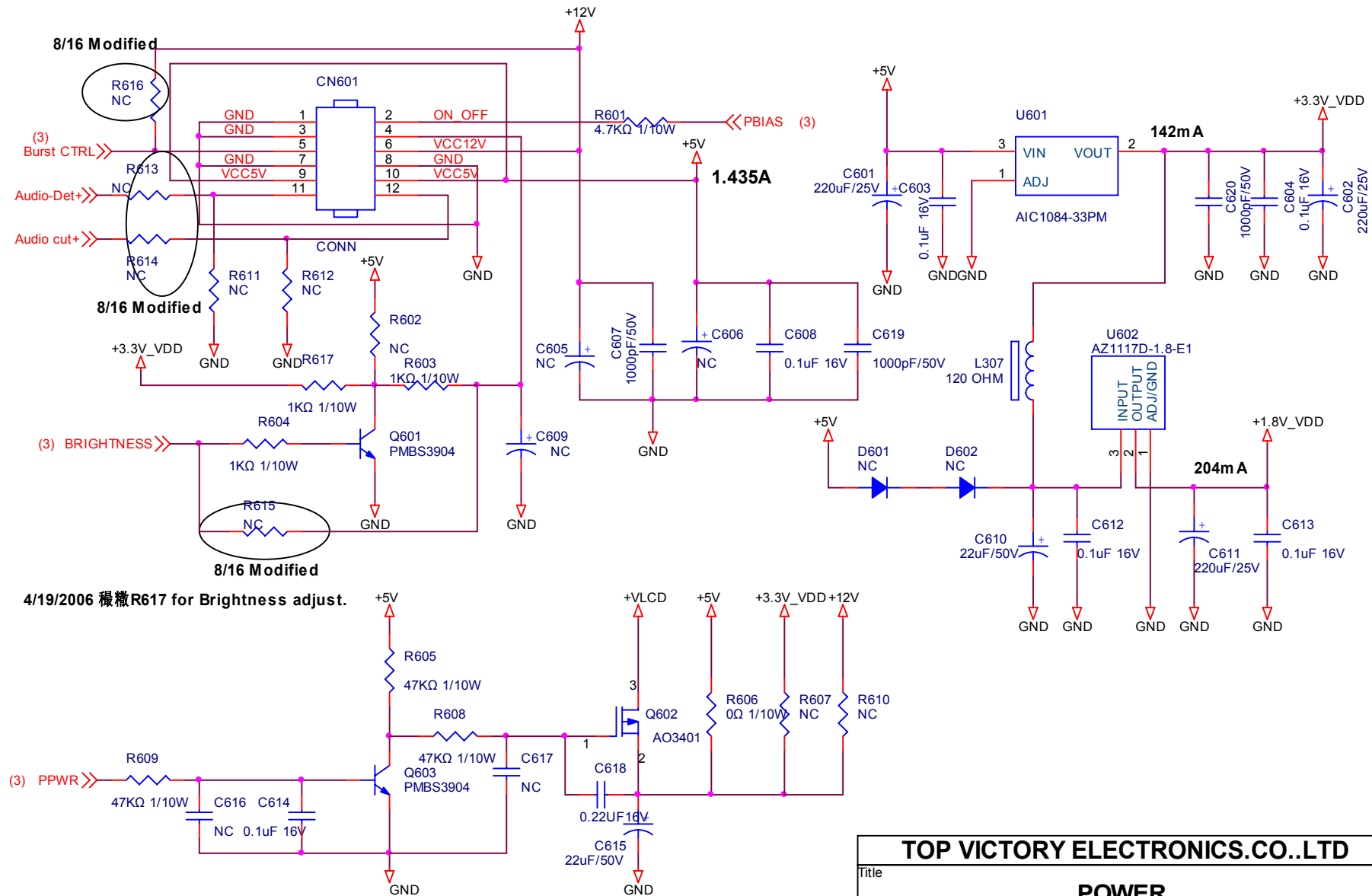




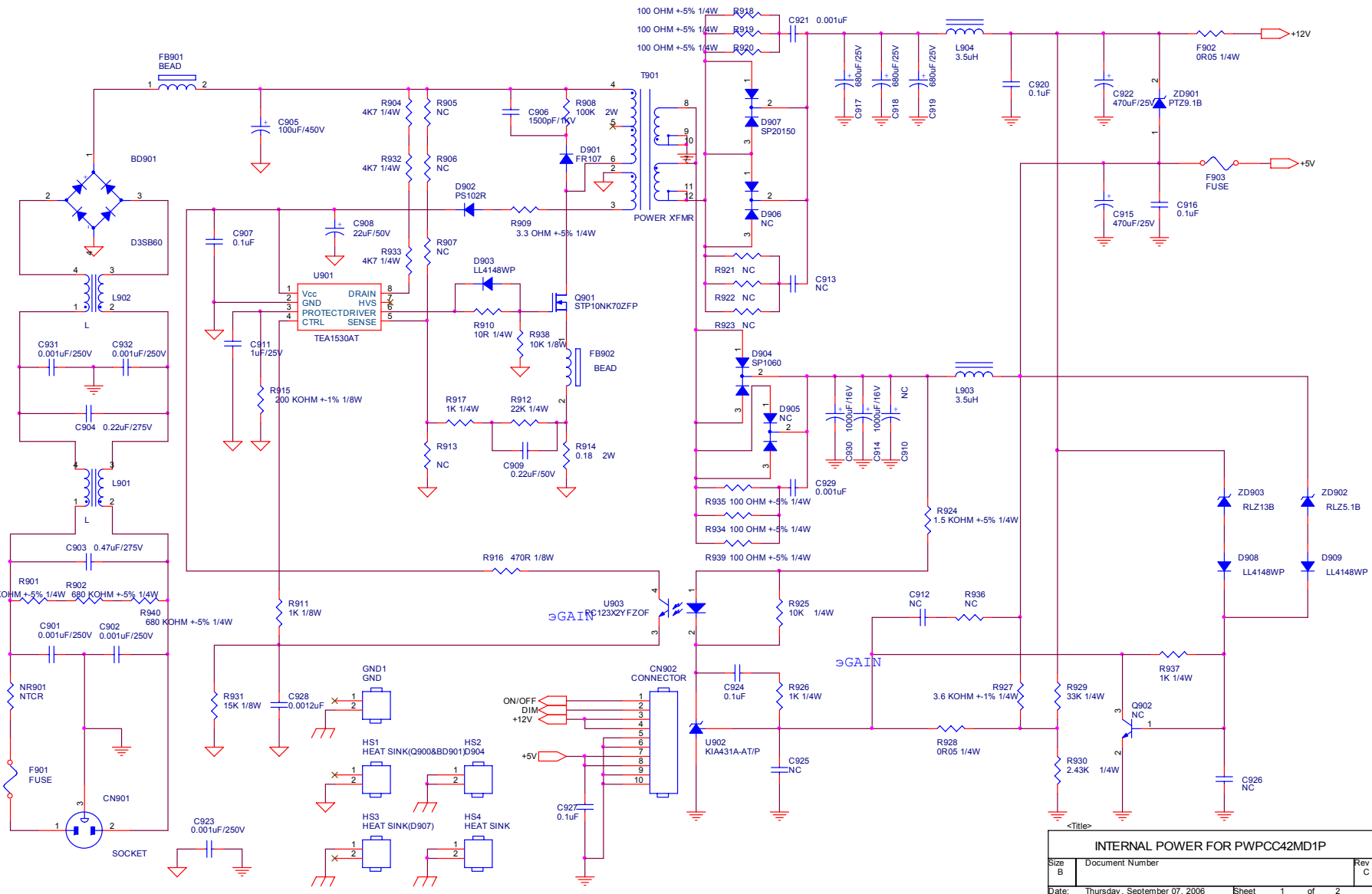


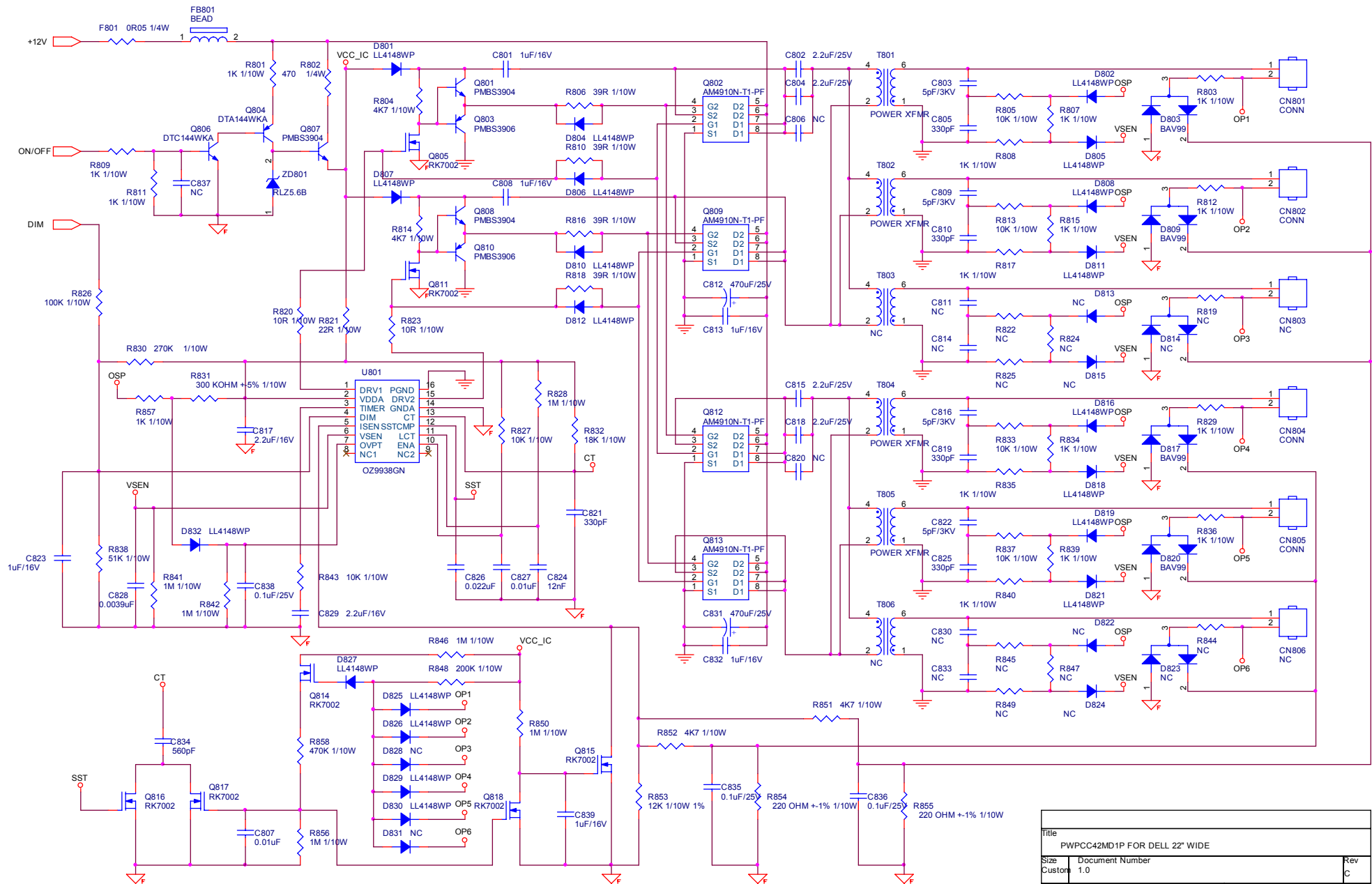


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Title		
PANEL INTERFACE		
Size A	Document Number	Rev 1
G2089-1-X-X-1-060905		
Date:	Thursday, September 21, 2006	Sheet 5 of 6



7.2 Power Board

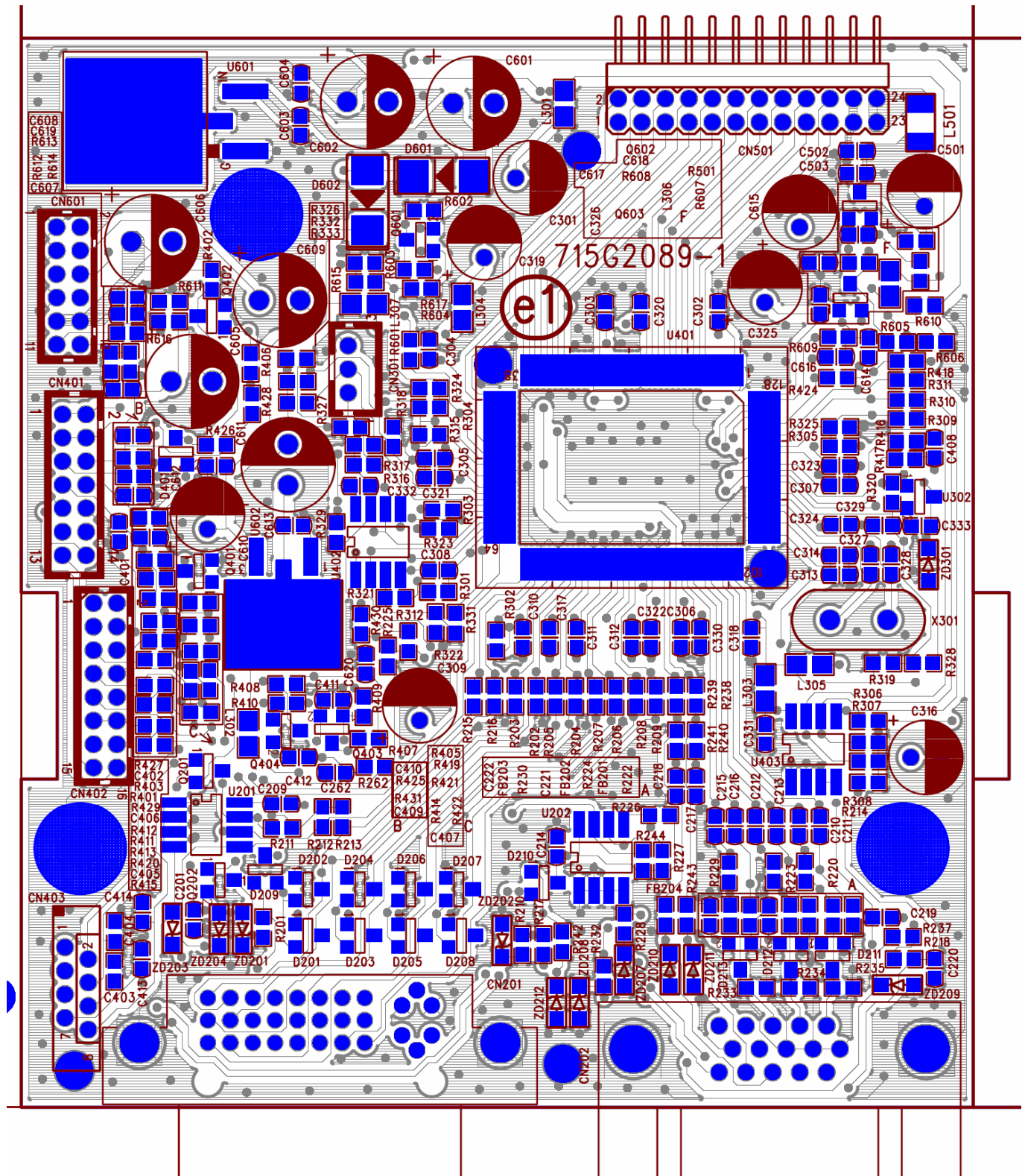


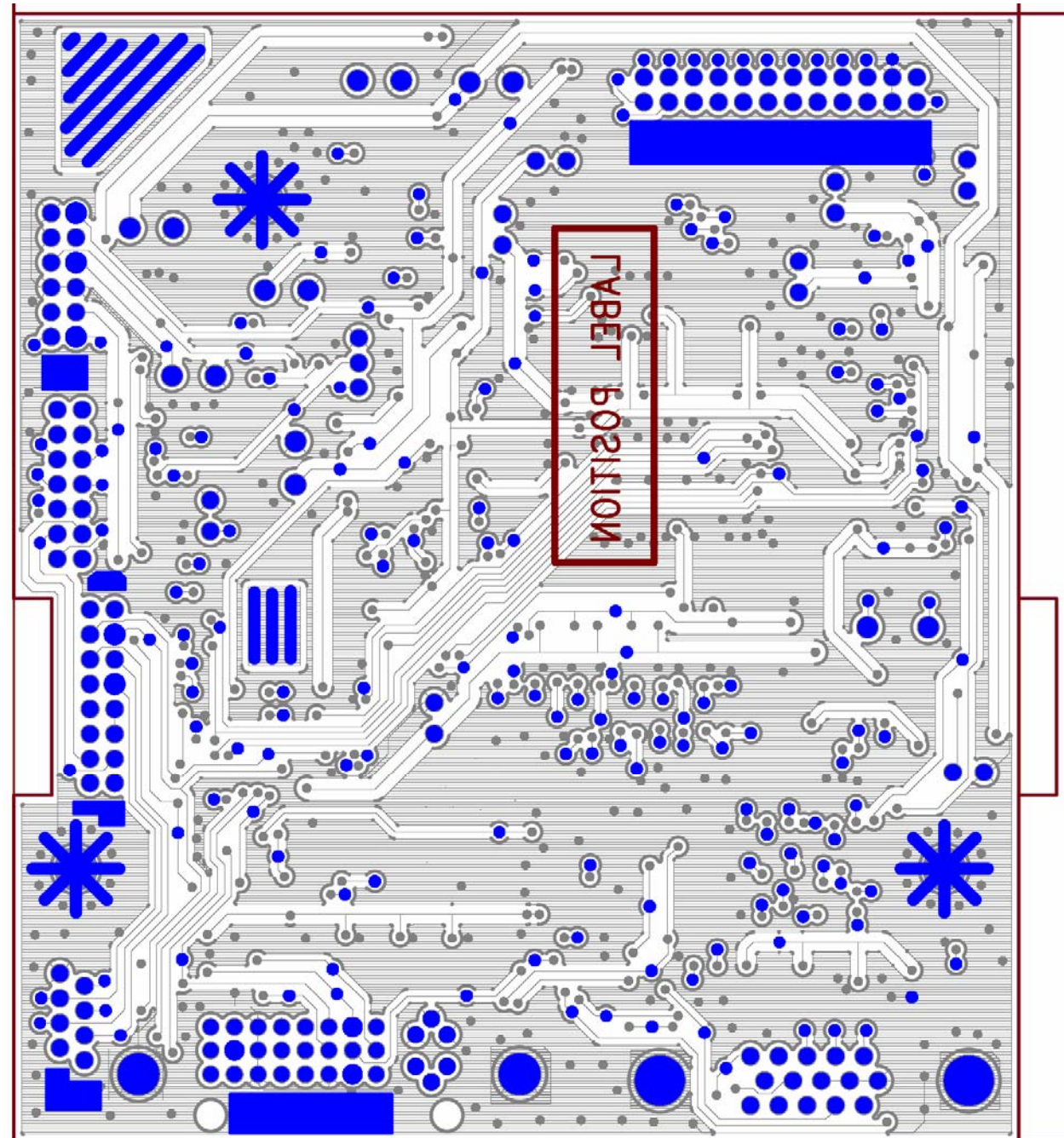


Title		
PWPCC42MD1P FOR DELL 22" WIDE		
Size	Document Number	Rev
Custom	1.0	C
Date:	Thursday, September 07, 2006	Sheet 1 of 1

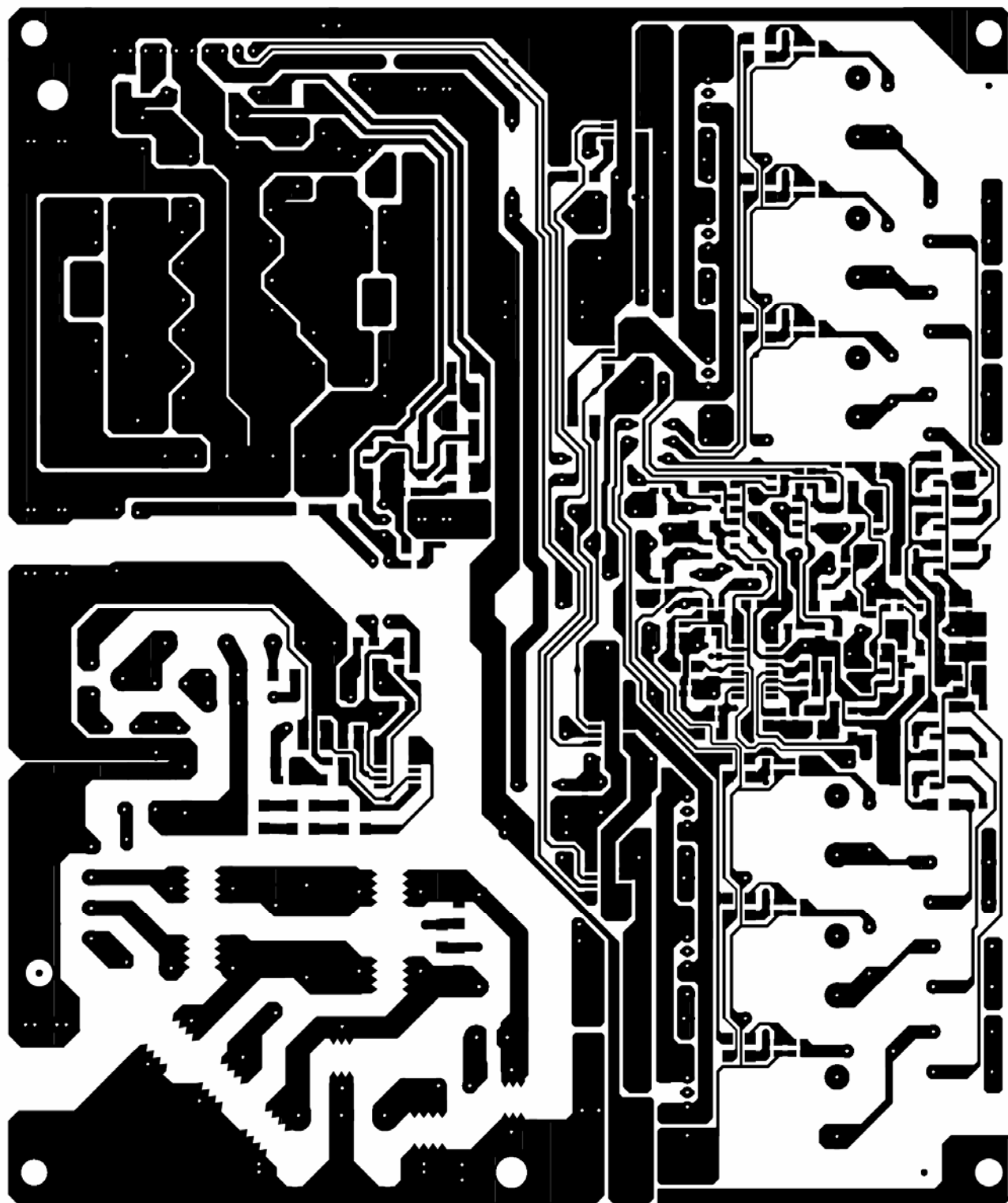
8. PCB Layout

8.1 Main Board

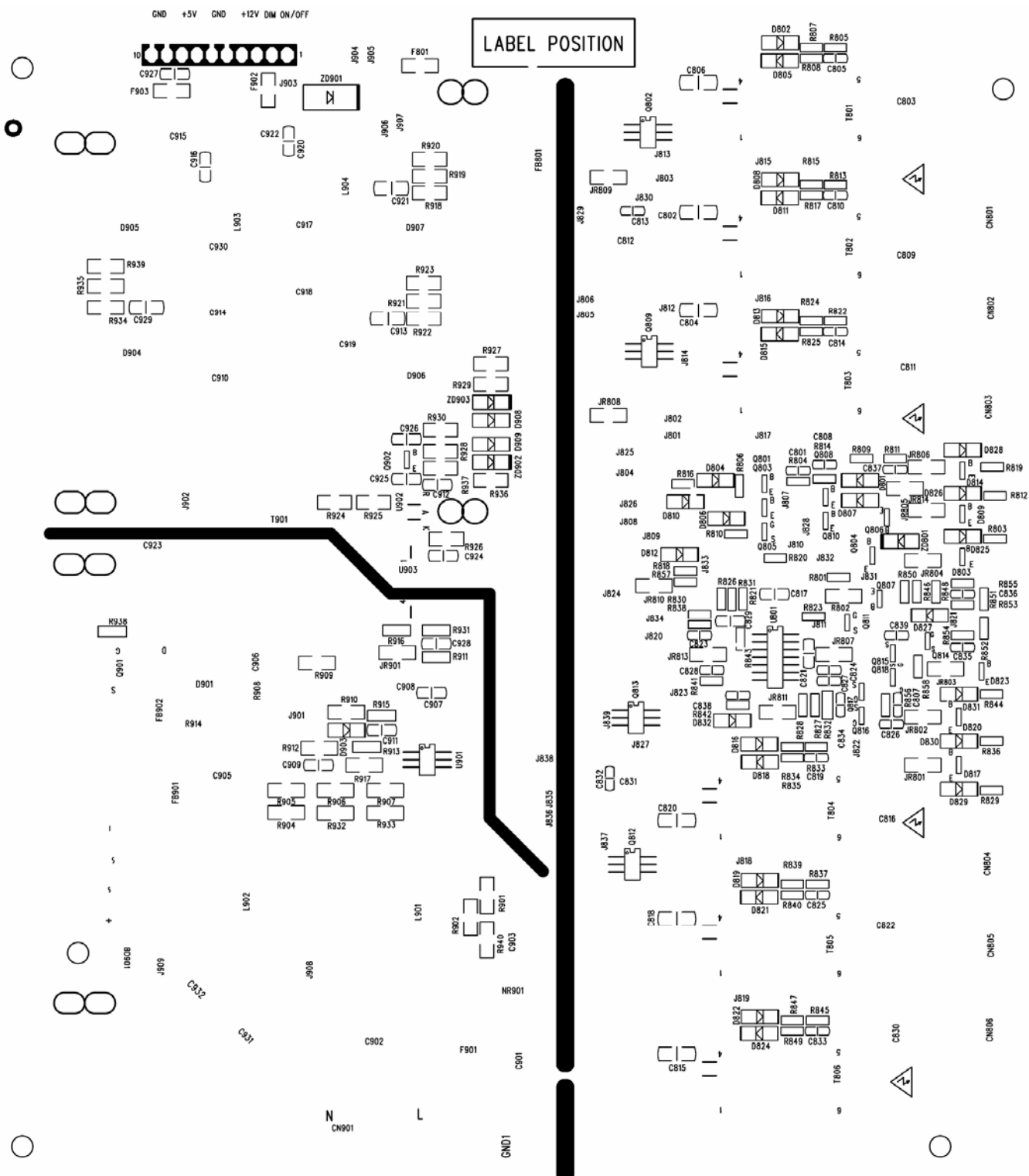


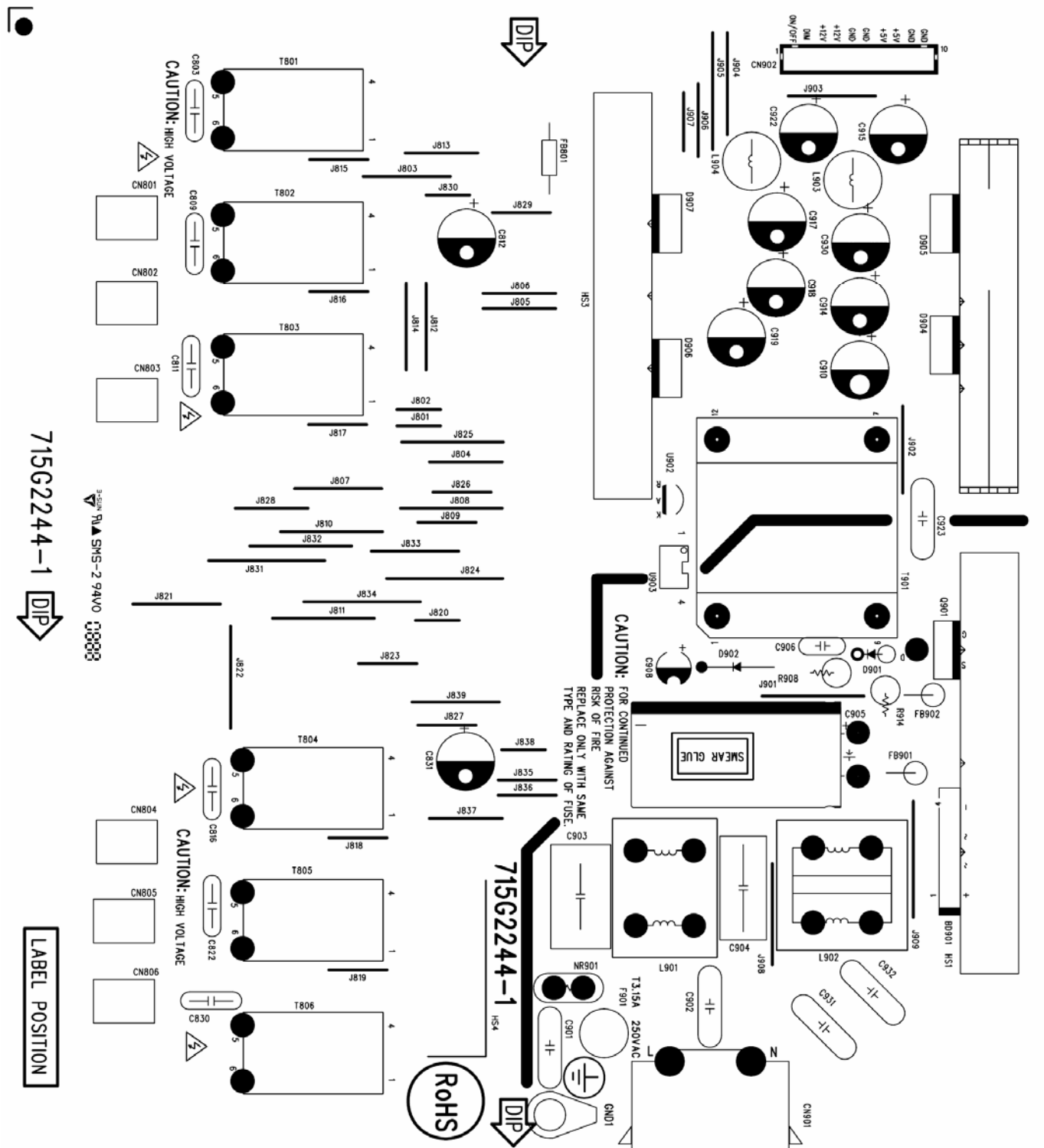


8.2 Power Board

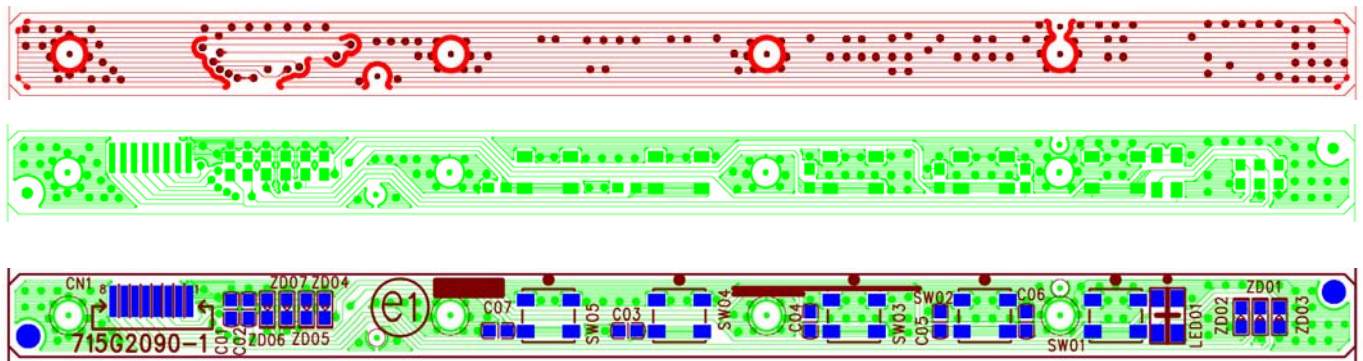


715G2244-1





8.3 Key Board



9. Maintainability

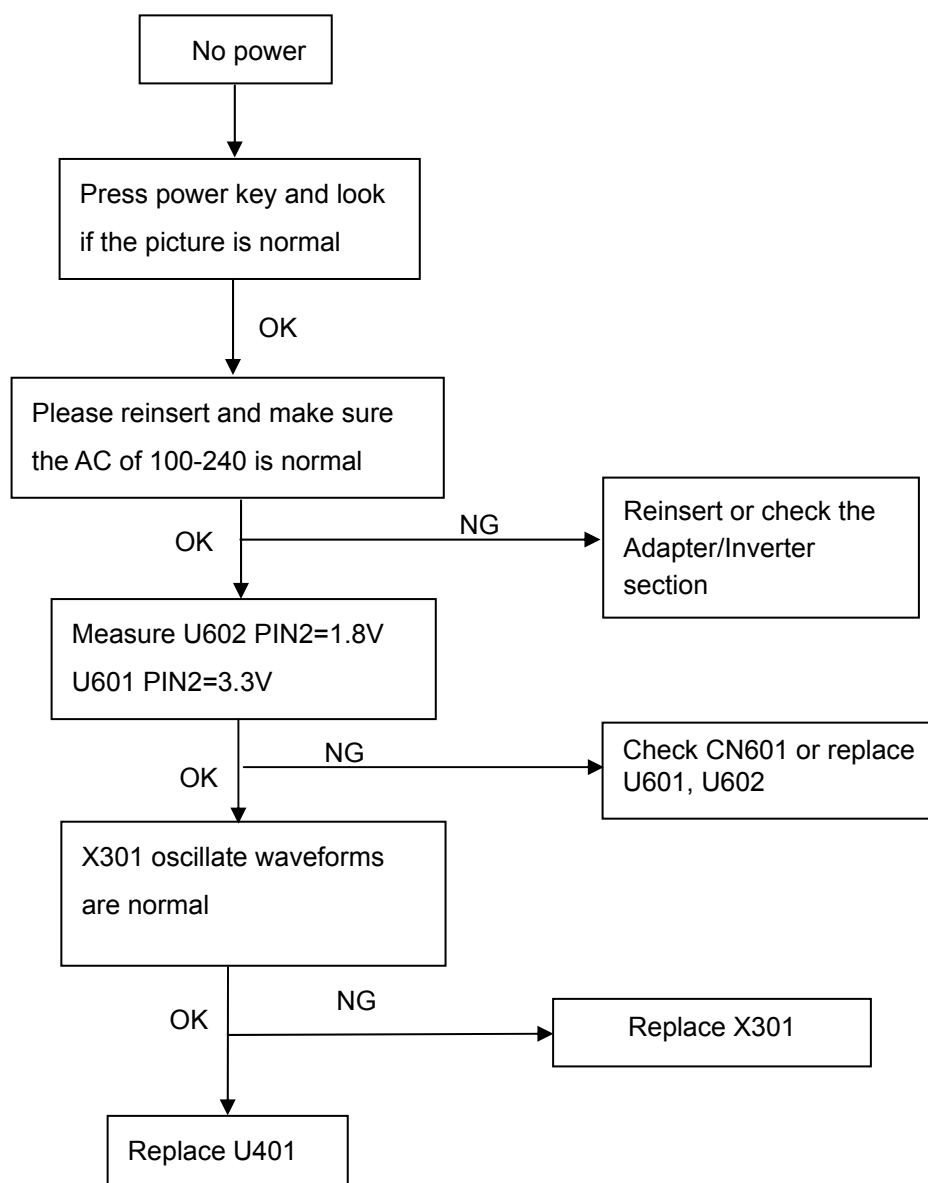
9.1 Equipments and Tools Requirement

1. Voltage meter
2. Oscilloscope
3. Pattern Generator
4. LCD Color Analyzer
5. Service Manual
6. User Manual

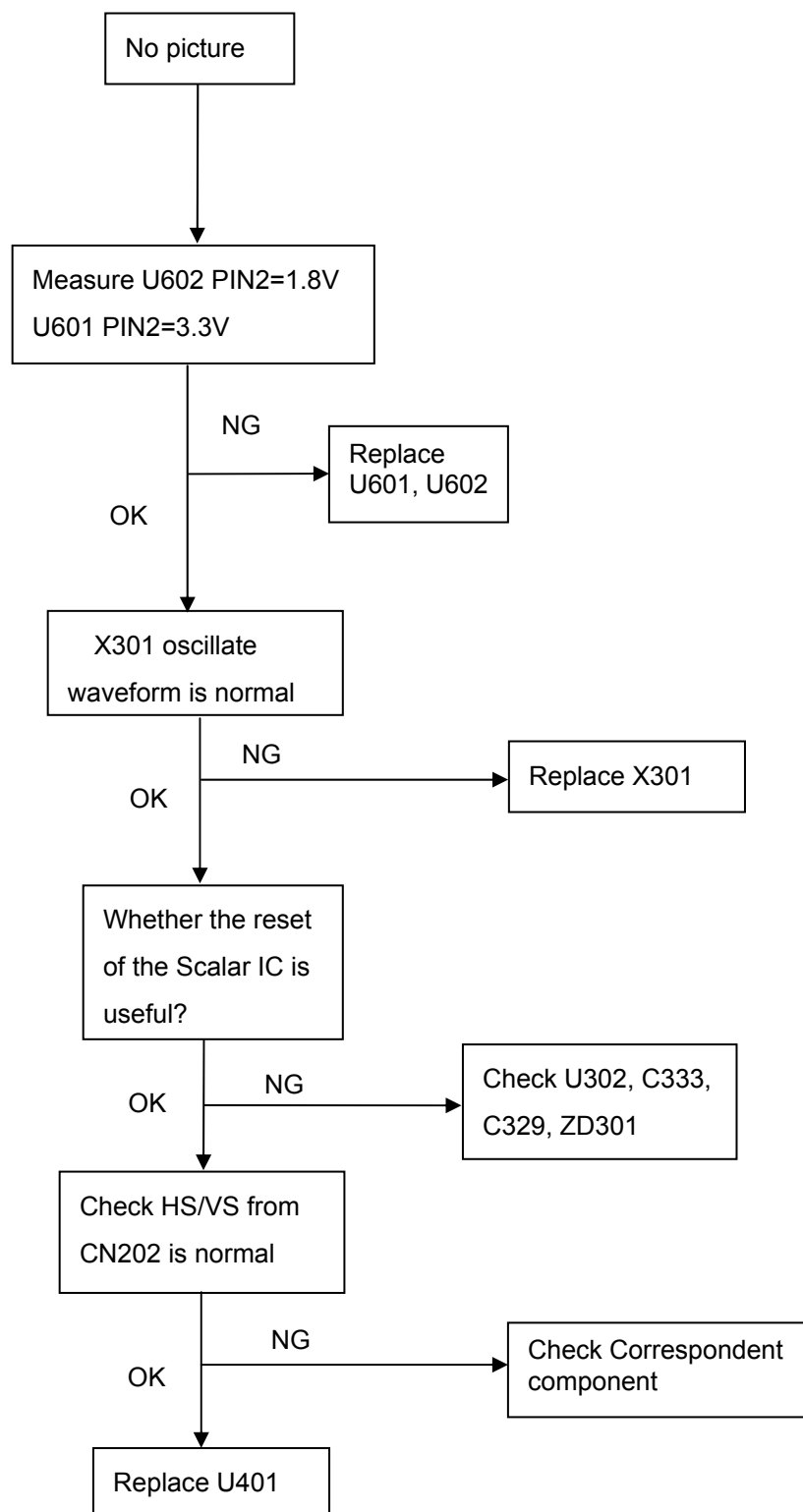
9.2 Trouble shooting

9.2.1 Main Board

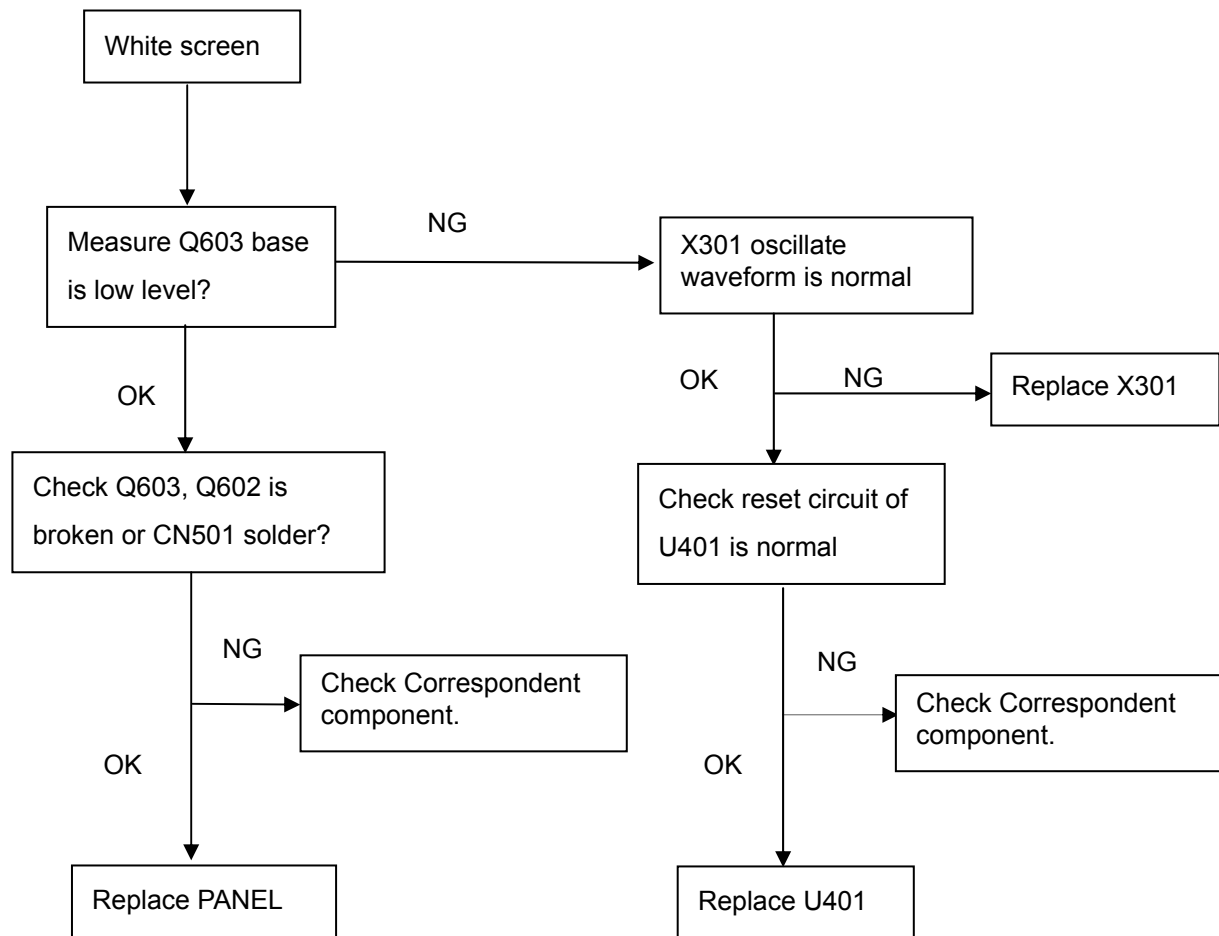
No power



No picture (LED orange)

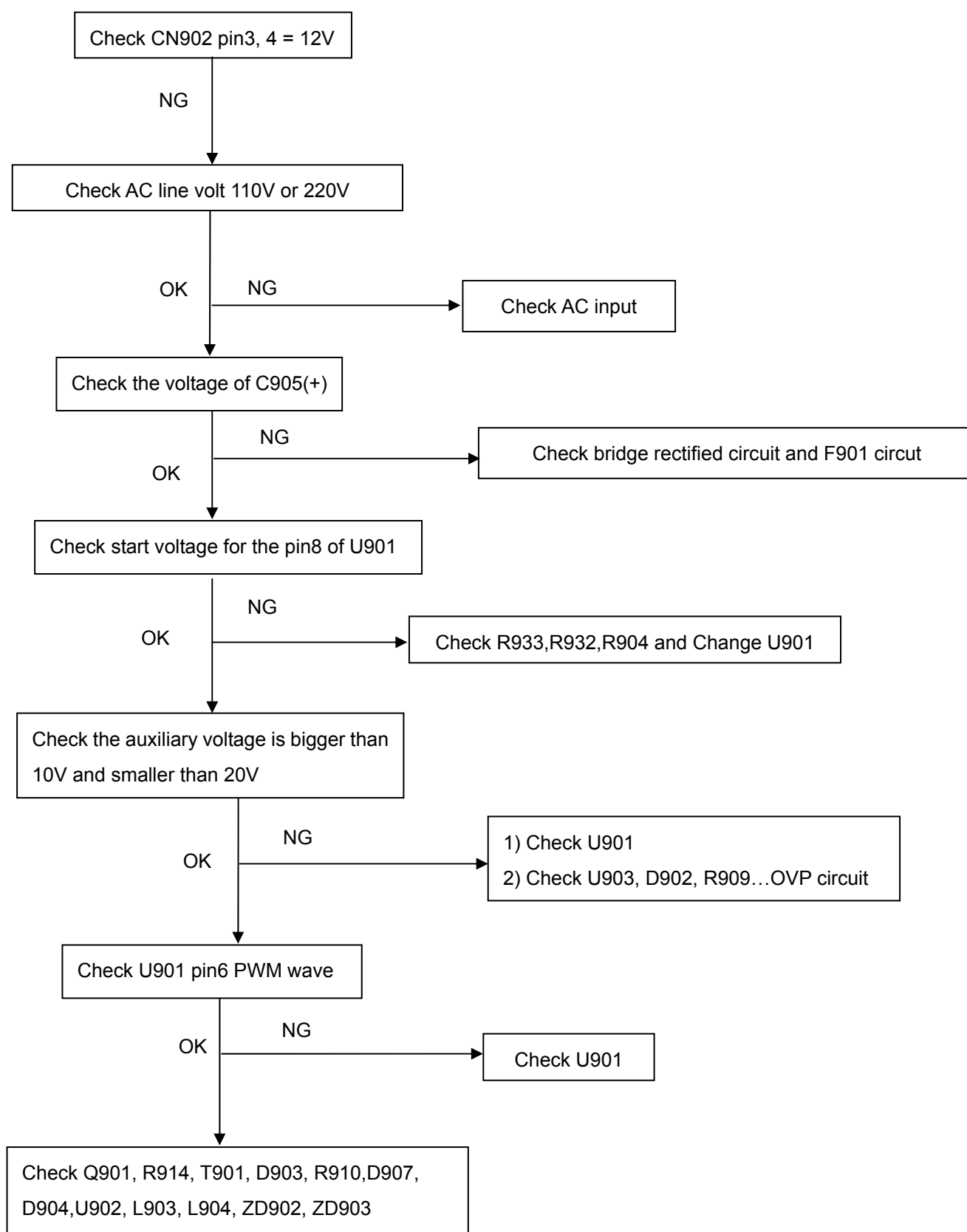


White screen

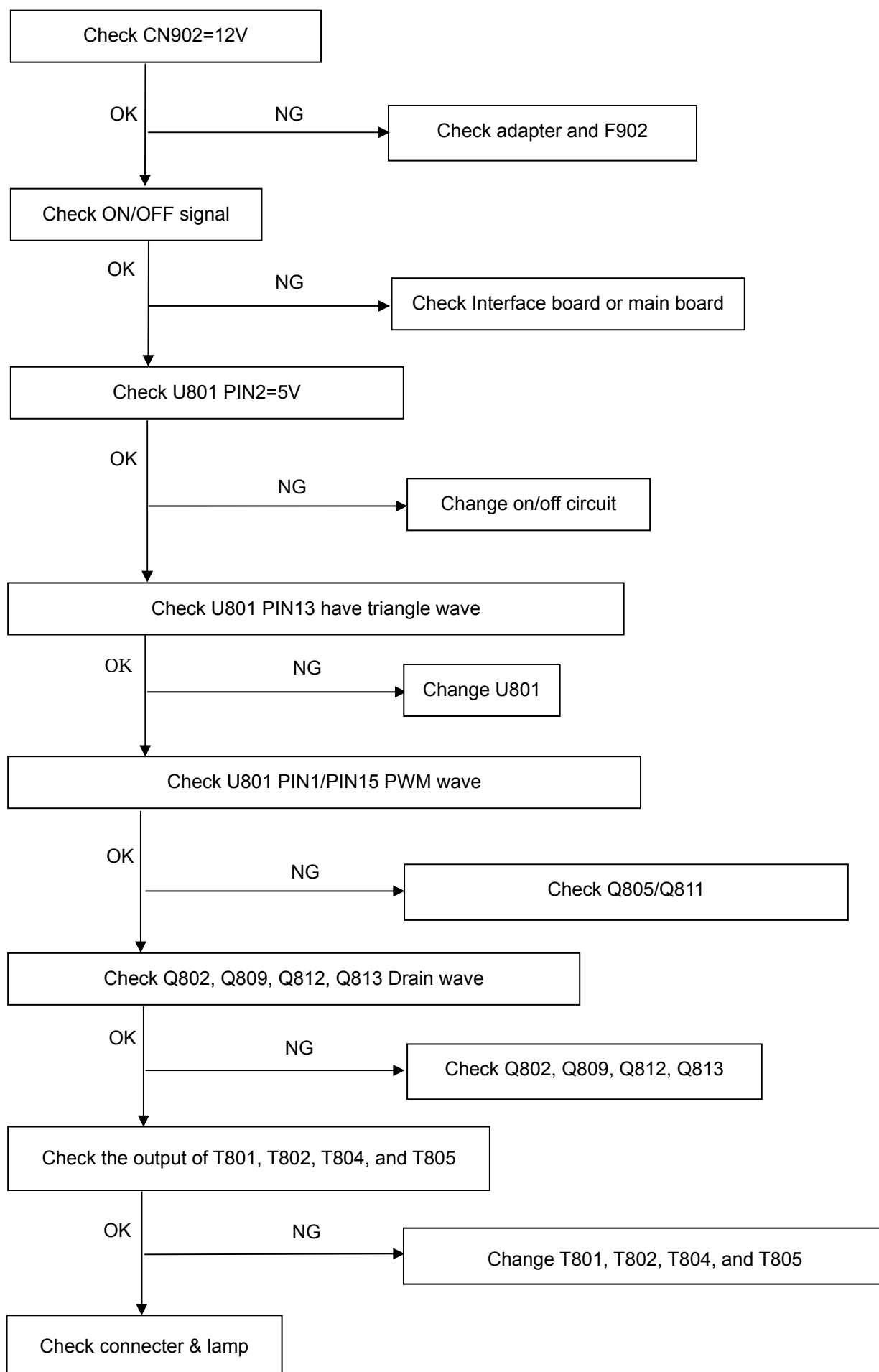


9.2.2 Power/Inverter Board

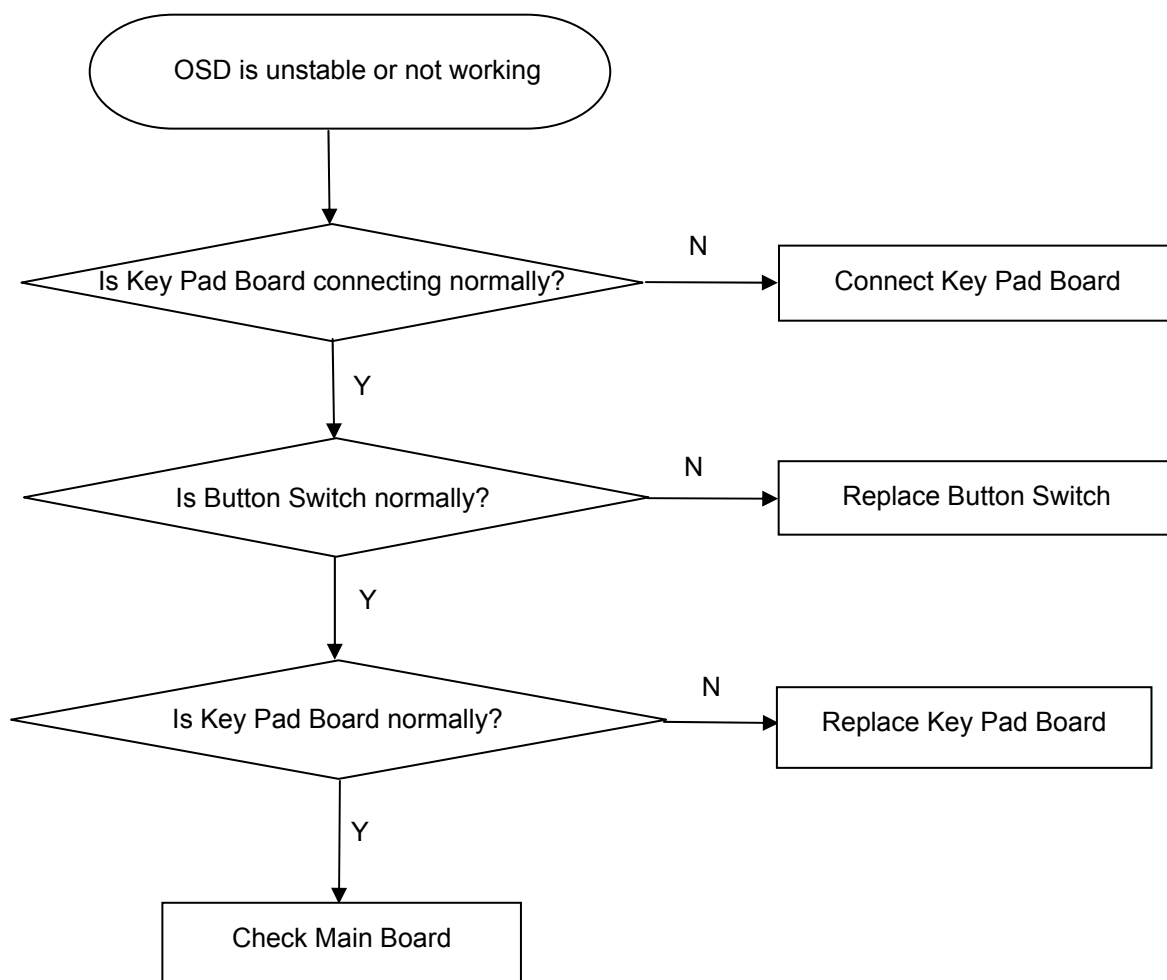
No power



No Backlight



9.2.3 Keypad Board



10. White balance, Luminance adjustment

Approximately 2 Hours should be allowed for warm up before proceeding White-Balance adjustment.

Before started adjust white balance, please setting the Minolta-CA210 **MEM. Channel 0 to 6500⁰K** colors, **MEM.**

Channel 0 to 9300⁰K colors, **MEM. Channel 0 to 5700⁰K** (our 9300 parameter is $x=283\pm15$, $y=297\pm15$, 6500 parameter is $x=313\pm15$, $y=329\pm15$, $Y=220\pm20\text{ cd/m}^2$, and 5700 parameter is $x=328\pm15$, $y=344\pm15$.)

How to setting MEM.channel you can reference to Minolta-CA210 user guide or simple use “**SC**” key and “**NEXT**” key to modify x, y, Y value and use “**ID**” key to modify the TEXT description Following is the procedure to do white-balance adjust

Enter into the factory mode:

Press MENU and “+” button during press Power button will activate the factory mode,

Gain adjustment:

Move cursor to “-Factory Setting-” and press MENU key to enter this sub-menu.

Move cursor to “ Factory” and press MENU key.

Move cursor to “ Auto Level” and press MENU key to adjust Gain and Offset automatically;

a. Adjust sRGB (6500⁰K) color-temperature

1. Switch the Minolta-CA210 to **RGB-mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 0 (with up or down arrow on Minolta-CA210)
3. The LCD-indicator on Minolta-CA210 will show $x=313\pm15$, $y=329\pm15$, $Y=220\pm20\text{ cd/m}^2$

b. Adjust Color1 (9300⁰K) color-temperature

8. Switch the Minolta-CA210 to **RGB-mode** (with press “MODE” button)
9. Switch the MEM.channel to Channel 0 (with up or down arrow on Minolta-CA210)
10. The LCD-indicator on Minolta-CA210 will show $x=283\pm15$, $y=297\pm15$

c. Adjust Color2 (5700⁰K) color-temperature

15. Switch the Minolta-CA210 to **RGB-mode** (with press “MODE” button)
16. Switch the MEM.channel to Channel 0 (with up or down arrow on Minolta-CA210)
17. The LCD-indicator on Minolta-CA210 will show $x=328\pm15$, $y=344\pm15$
22. Move cursor to “ Exit/Save” sub-menu and press MENU key to save adjust value and exit.

Turn the POWER-button off to on to quit from factory mode.

Max Brightness measurement: $>250\text{ cd/m}^2$

Test conditions:

- a. Switch to the full white pattern, in user mode main menu:
 1. Set <Color Settings> Red, Green, and Blue to the max.
 2. Set <Brightness> Brightness, Contrast to the max.
- b. The Minimum brightness is: $<40\%$ of Max luminance (max luminance = max contrast + max brightness)

Test conditions:

Set <Brightness> Brightness, Contrast to the min.

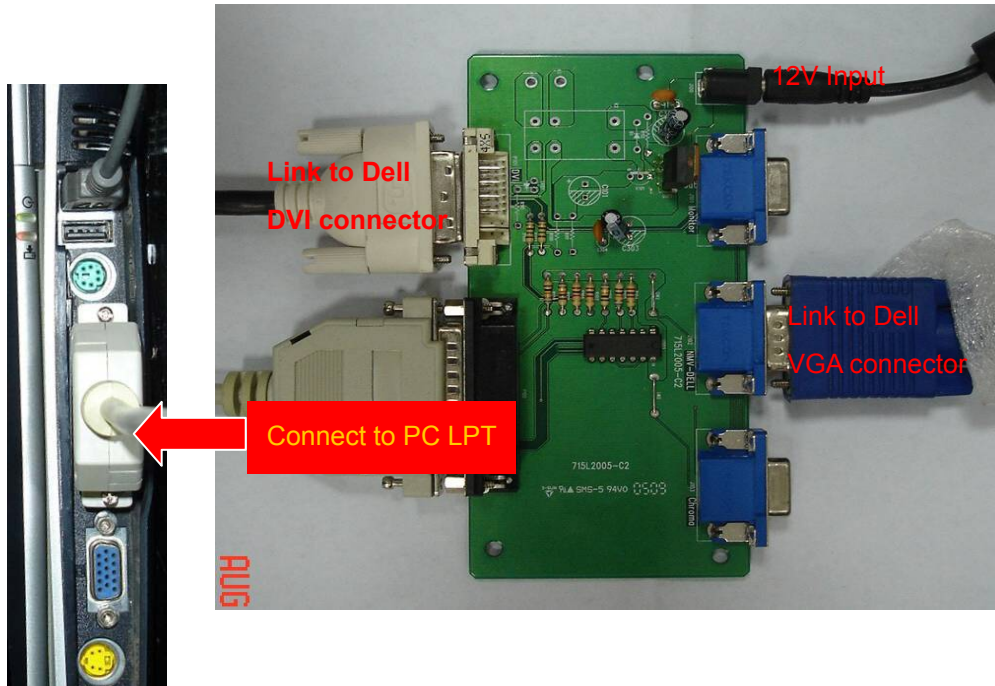
11. ISP Instruction

10.1 Software requirement and connection

Operating system requirement

(1) Microsoft windows OS. (2) 100M free hard-drive space. (3) 1 free parallel port for DDC2BI communication.

The hardware Connection

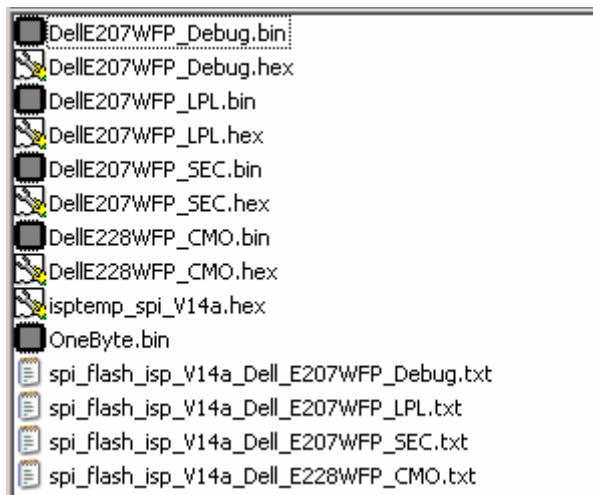


Note: VGA and DVI must not connect at the same time.

The relevant soft List

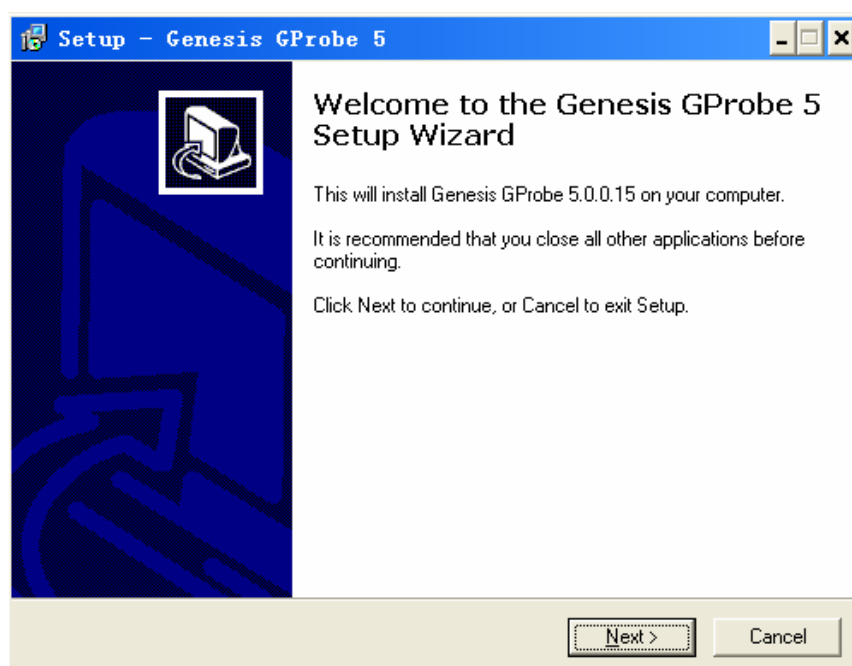


ISP_CODE

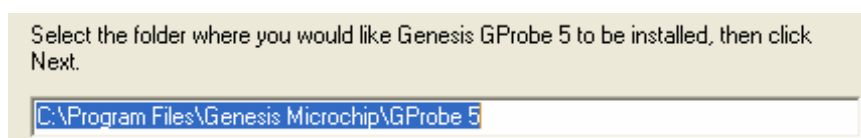


10.2 Install the software (Gprobe 5.0) for ISP Writer

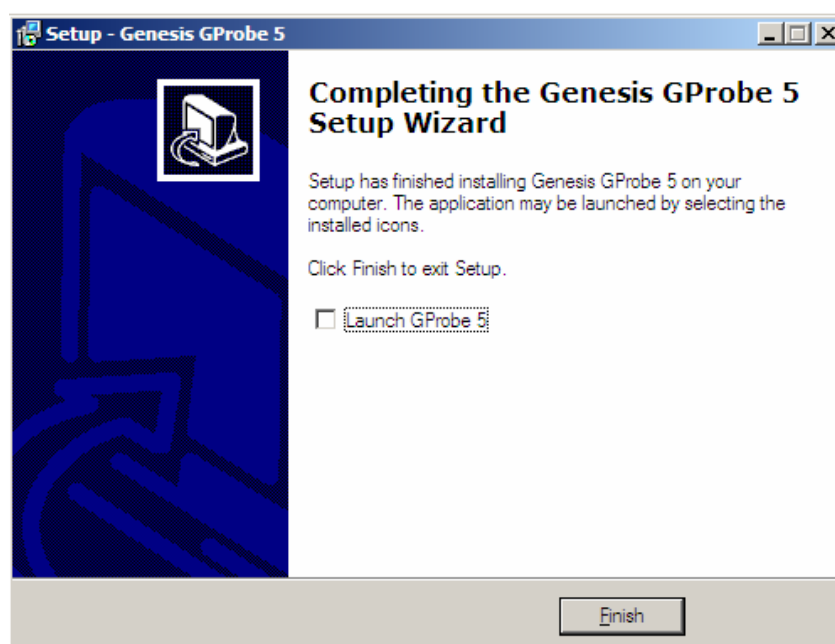
A. Double-click the Install software



Select the folder where you would like Genesis Gprobe 5 to be installed

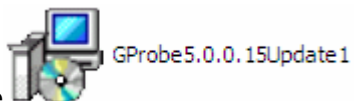


Completing the Genesis Gprobe 5 setup wizard

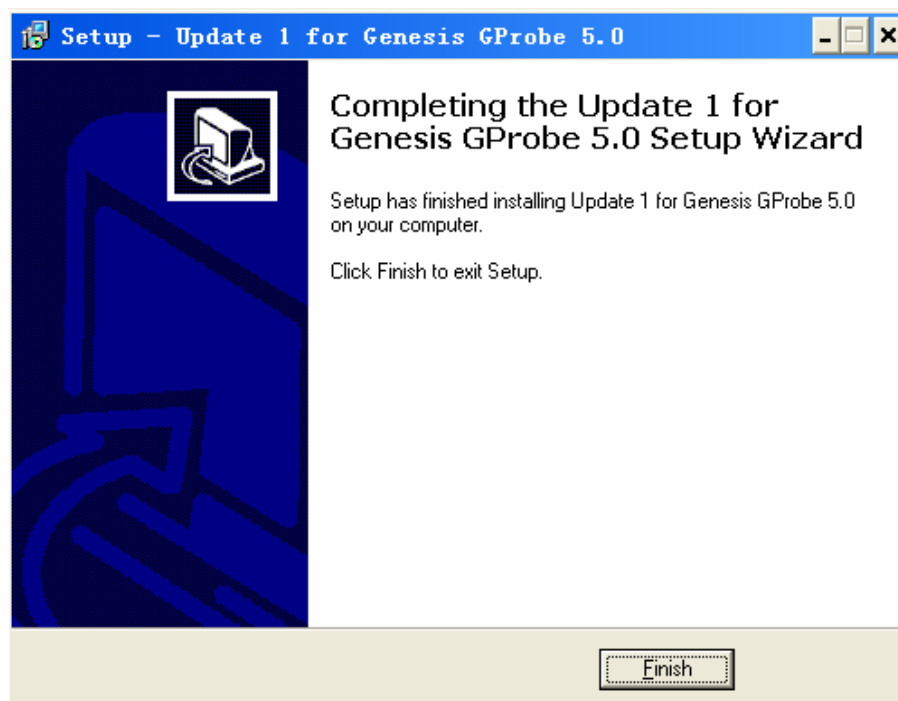


Note: After finishing the installation, you must restart the PC.

B. Next, install the Update software



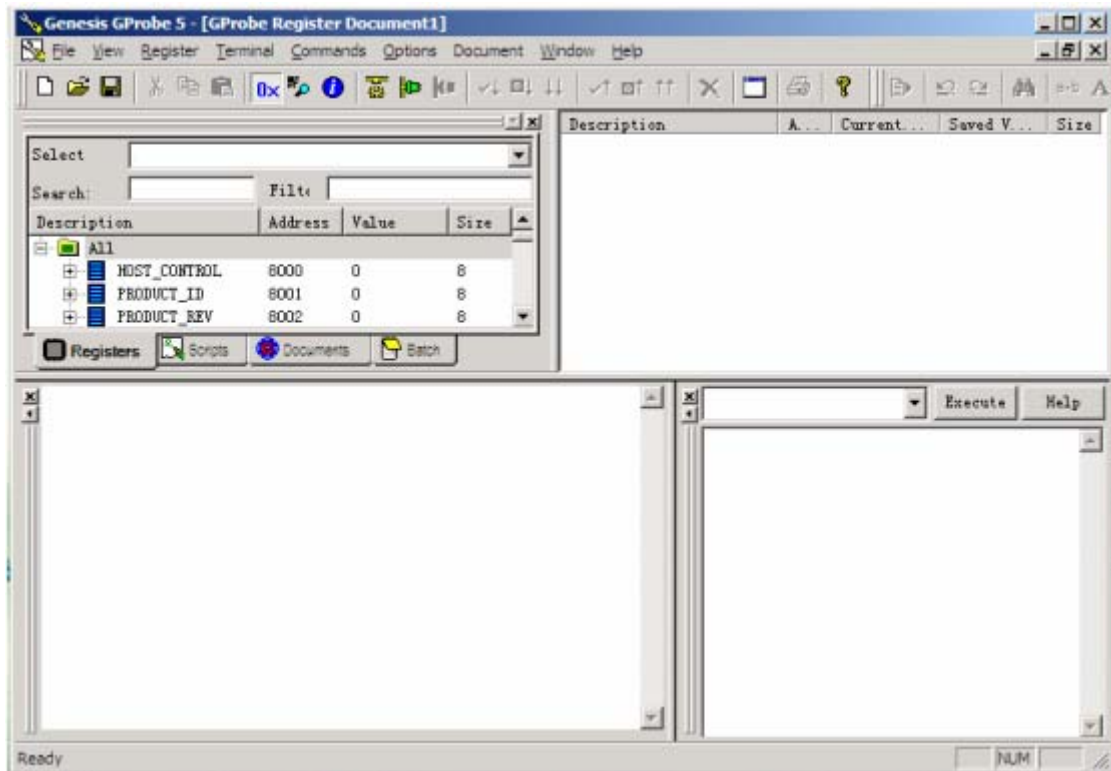
Completing the update 1 for Genesis Gprobe 5.0 setup wizard



10.3 Run program



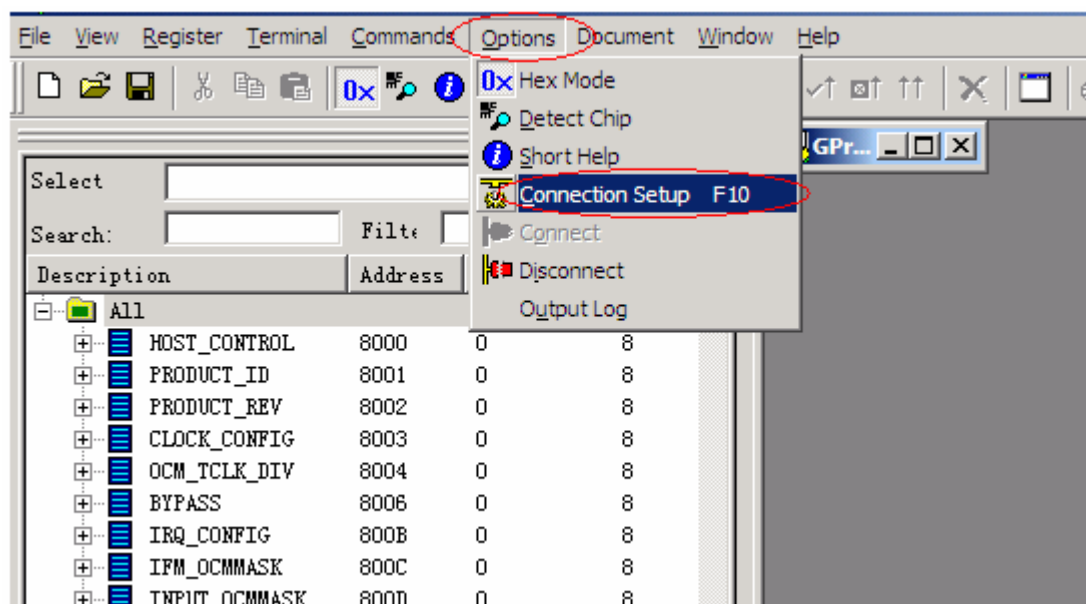
After the installation, a short-cut icon **GProbe 5** will appear on your desktop, double click it will run the program.



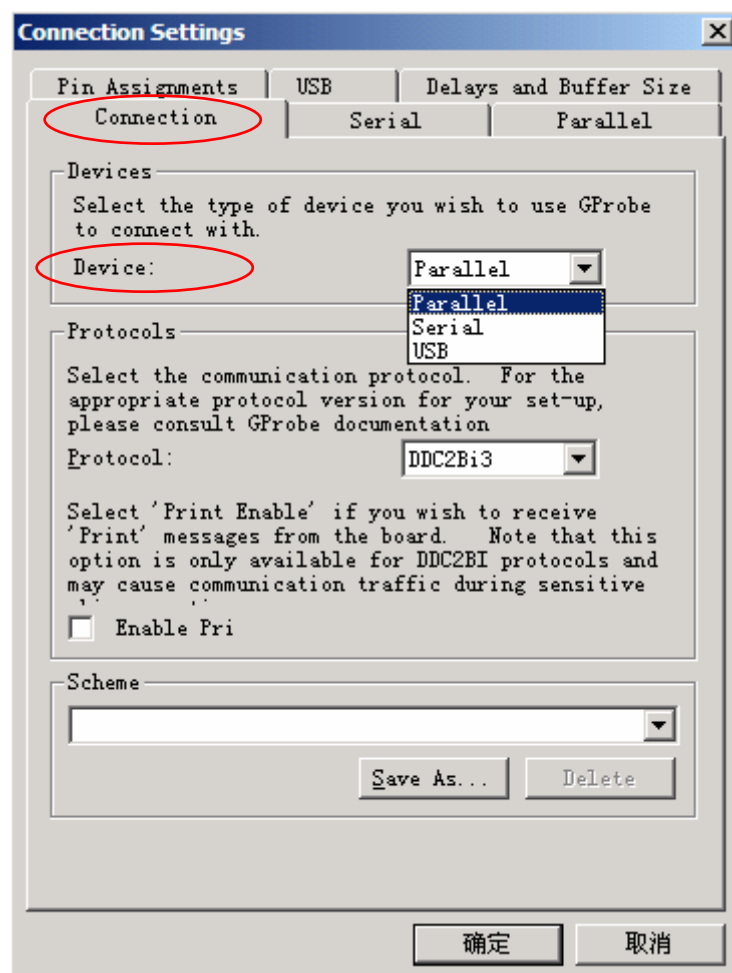
Note: Firstly, you can check the I²C normal or not by inputting the “test” in the position ,

where to load MCU software. Click , if you can see “test pass” in the blank, the I²C is OK!

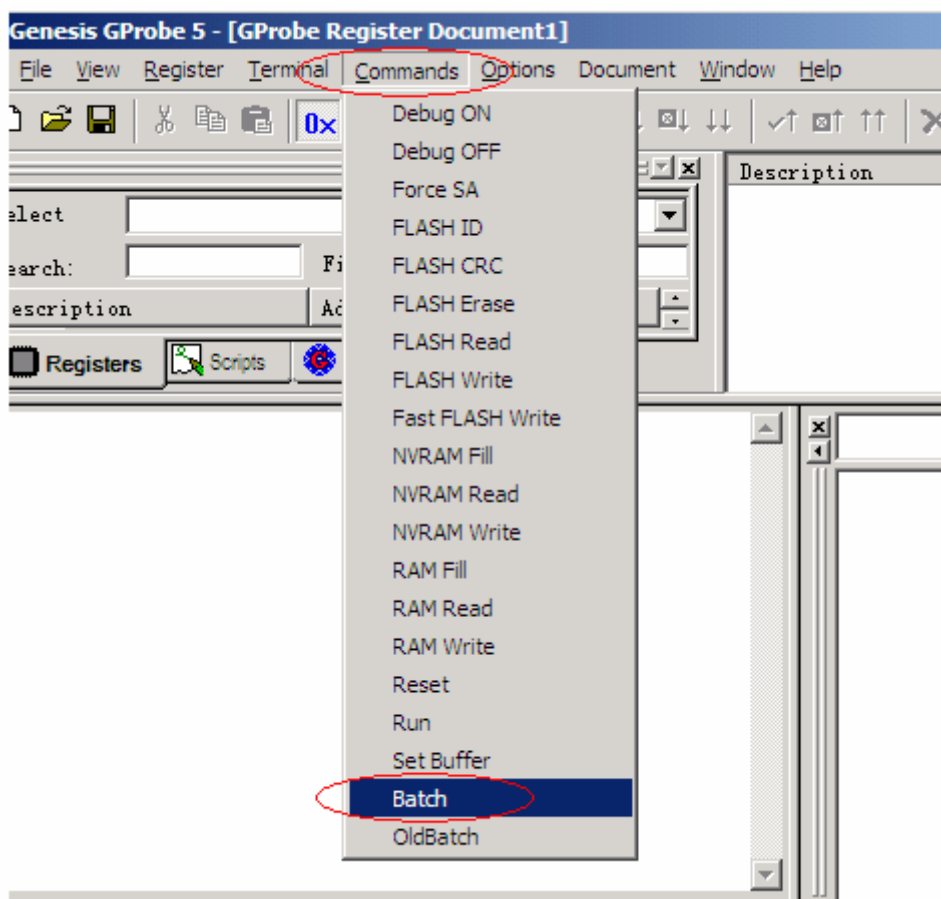
(1). Select **Options** → **Connection Setup F10**:



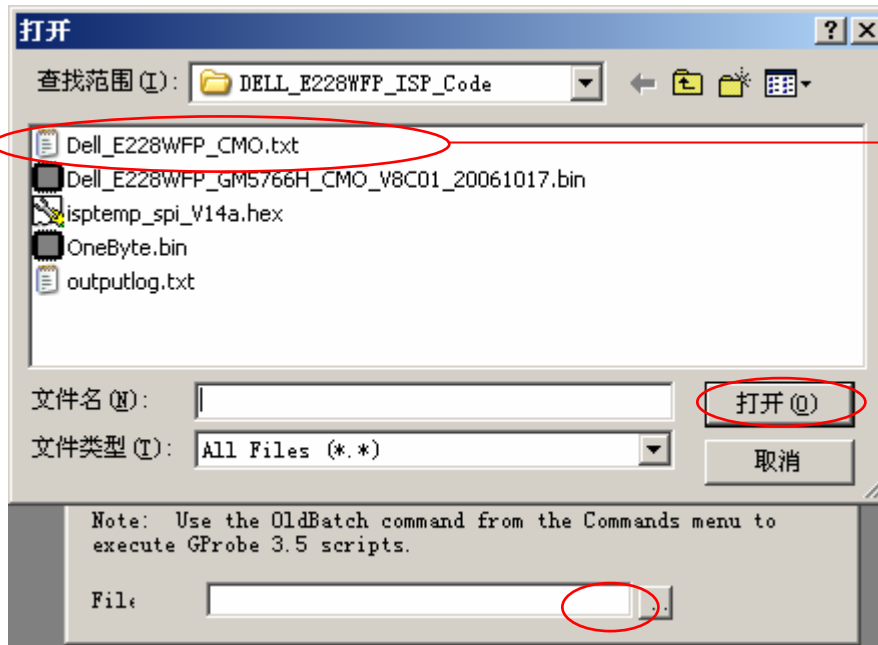
Set the **Connection Settings** → **Connection** → **Device to Parallel**, click OK!



(2). Select **Commands** → **Batch**:

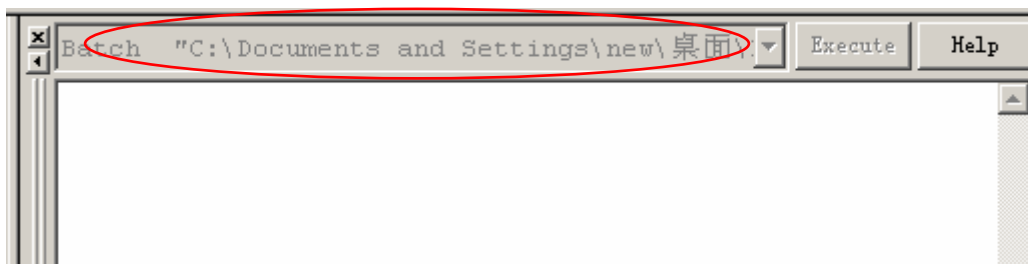


Click  to select MCU software in Dell ISP_CODE, please per as the follow fig



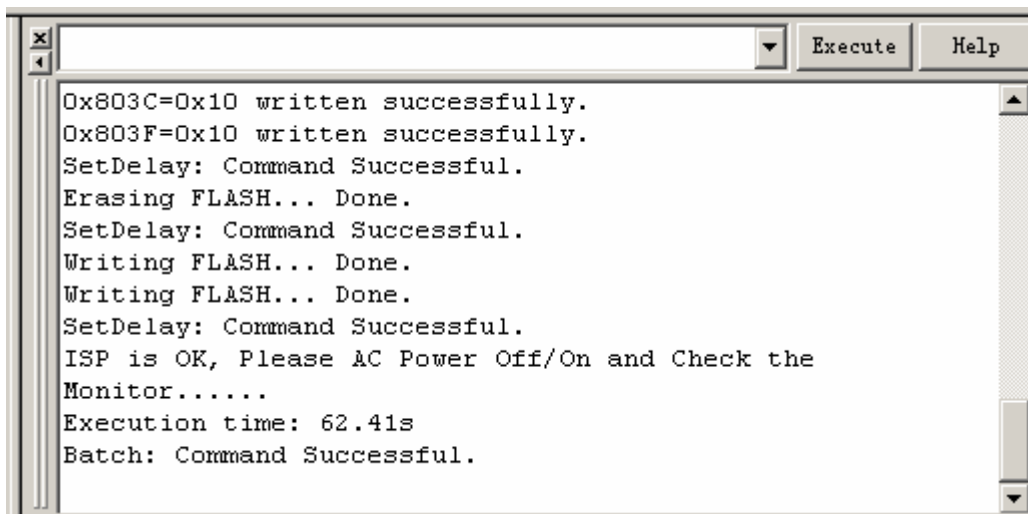
The text must be matching with the panel type of the monitor; such as if the panel used is M220Z1-L01C1 ZBD for Dell CMO 22"W. you have to choose Dell_E228WFP_CMO.txt

Click open.



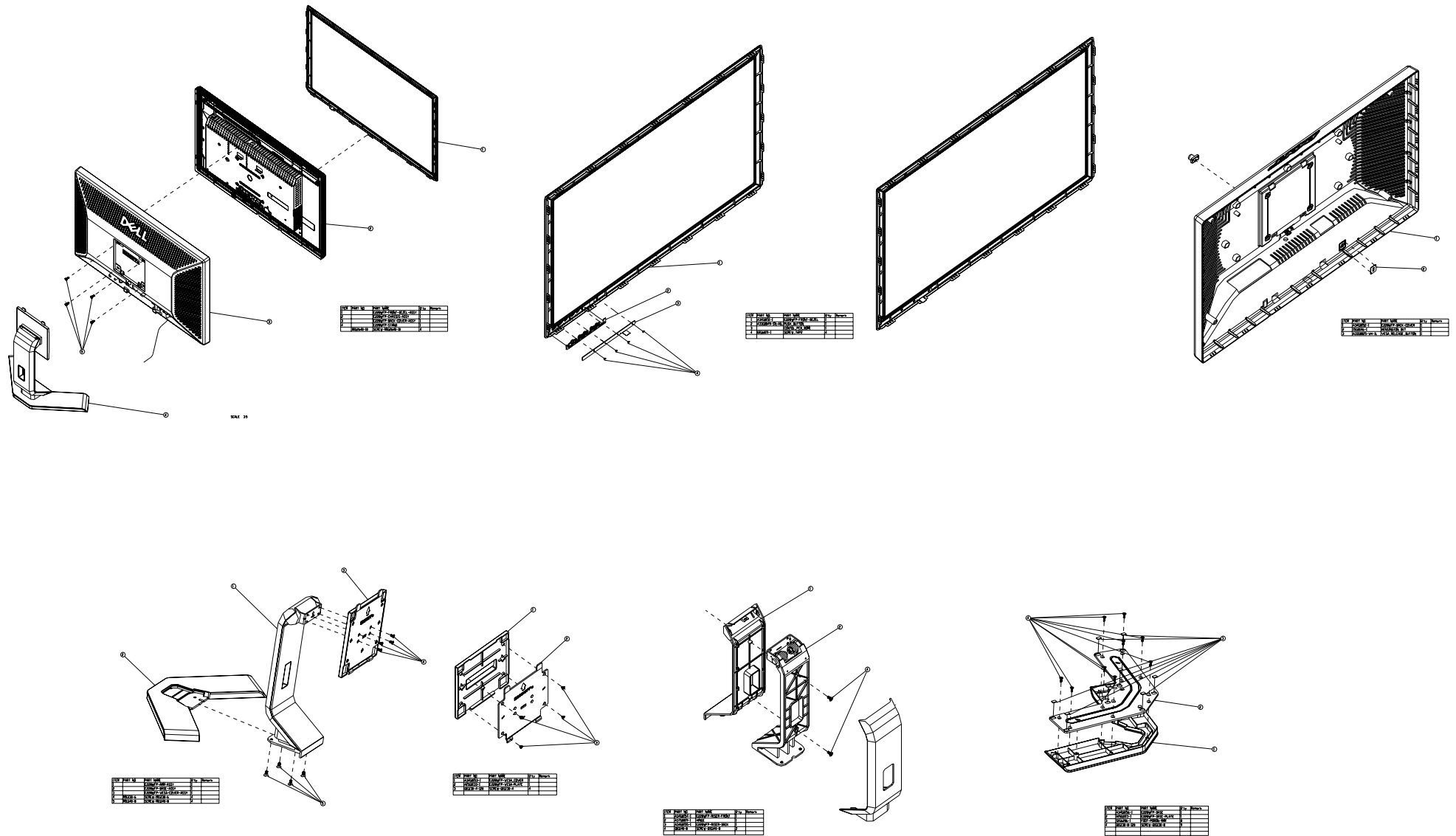
(3). Unplug the Dell AC power, until the LED indicator is off, press Enter or Execute button, when the .txt of MCU

is in gray, for example `Batch "C:\Documents and Settings\new\桌面\...`, re-plug Dell AC power, Writer is in progress.



(4). When appear the "Execution time : 62.41s, Batch Command Successful", Writer is complete!

12. Exploded View



13. BOM List

TC6MGHDKWDDHP

Location	Part Number	Description
	011G6036 1	SPACER SUPPORT SCC-24
	011G6092 1	FIX BUTTON
	023G3178700 3A	LOGO
	040G 581700 3A6813	CARTON LABEL
	044G6002695 2A	PALLET PLATE
	044G6002728 1A	PAPER BOARD
	044G9003 90	CORNER PAPER
	052G 1186	SMALL TAPE
	052G6022 1500	SMALL TAPE
E089B	089G 728GAA 2D	SIGNAL CABLE
	089G174EGAA 1	DVI CABLE
	089G402A18NISD	POWER CORD
	095G8018 3X608	LVDS CABLE
	0M1G 130 4 47 CR3	SCREW
	0M1G 130 4 47 CR3	SCREW
	0M1G1730 6128 CR3	SCREW
	0M1G1740 6128 CR3	SCREW
	0M1G1830 5120	SCREW
	0M1G2940 10225 CR3	SCREW
	0M1G3030 5125	SCREW
	0Q1G6019 1	SCREW
	705GQCK0M34002	MAIN FRAME ASS'Y
	015G8185 1	HOLDER BRACKET R
	015G8186 1	HOLDER BRACKET L
	019G 588 3	SPRING -HOLDER
	0M1G 130 4 47 CR3	SCREW
	A15G0112 1	MAINFRAME
	A20G0007 1	STAND HOLDER
	705GQCK0P34002	STAND-BASE ASS'Y
	012G6206 1	PORON
	0M1G 130 6125	SCREW
	0M1G 140 8225 CR3	SCREW
	0Q1G 130 5120	SCREW 3*5MM
	0Q1G 130 8 47 CR3	SCREW
	0Q1G 140 8120	SCREW T4X8
	A15G0113 1	BRACKET-BASE
	A15G0133 1	VESA-PLATE

	A34G0153 VH 1B	VESA_COVER
	A34G0154 SN 1B	STAND_FRONT
	A34G0155 VH 1B	STAND_BACK
	A34G0156 VH 1B	BASE
	A37G0019 1	HINGE
	750GLMC0Z1111Z000D	M220Z1-L01C1 ZBD FOR DELL CMO 22"W
	A15G0134 1	ANTI LOCK
	A33G0025 VH 1L	RELEASE BUTTON
	A33G0049 SNA1L	CONTROL BUTTON
	A34G0151 VH 1B	BEZEL
	A34G0152 VH 1B 30	REAR_COVER
	A85G0036 1	SHIELDING-LIGHT
	A85G0041 1	SHIELDING-COVER
	CBPC6MGHDLQ	CONVERSION BOARD FOR 22" LCD
CN403	033G8019 8Z J	WAFER
CN601	033G8027 12	WAFER 2*6P 2.0MM R/A
CN501	033G8043 24 H	CONNECTER
	040G 457624 1B	LABEL-CPU
	040G 45762412B	CBPC LABEL
C601	067G215V221 4R	LOW E.S.R 220UF +/-20% 2
C602	067G215V221 4R	LOW E.S.R 220UF +/-20% 2
C611	067G215V221 4R	LOW E.S.R 220UF +/-20% 2
C609	067G215V221 4R	LOW E.S.R 220UF +/-20% 2
C301	067G215Y2207NV	KY50VB22M-CC3 5*11
C309	067G215Y2207NV	KY50VB22M-CC3 5*11
C316	067G215Y2207NV	KY50VB22M-CC3 5*11
C319	067G215Y2207NV	KY50VB22M-CC3 5*11
C325	067G215Y2207NV	KY50VB22M-CC3 5*11
C615	067G215Y2207NV GP	KY50VB22M-CC3
C610	067G215Y2207NV GP	KY50VB22M-CC3
C501	067G215Y2207NV GP	KY50VB22M-CC3
CN202	088G 35315F H	D-SUB 15PIN
CN201	088G 35424F H	DVI CONNECTOR 24PIN
U401	090G6250 1 GP	HEAT SINK
X301	093G 22 53 H	14.31818MHZ/30PF/49US
	SMTC6MGHDLQ	MAIN BOARD FOR SMT 22" LCD
U401	056G 562132	IC GM5766H-LF PQFP-128 GENESIS
U601	056G 563 7	AIC1084-33PM
U602	056G 563 31	AI1117D-1.8-EI
U302	056G 643 13	G691L400T73UF SOT-23 GMT

U201	056G1133 34	M24C02-WMN6TP
U202	056G1133 34	M24C02-WMN6TP
U403	056G1133 56	M24C16-WMN6TP
U402	056G1133 81	SST25LF020A-33-4C-SAE
Q202	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q403	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q404	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q601	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q603	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q201	057G 758 1	2N7002ESOT23 SILICONIX
Q602	057G 763 1	A03401 SOT23 BY AOS(A1)
R243	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R331	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R606	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R202	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R203	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R204	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R205	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R206	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R207	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R208	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R209	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R301	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R408	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R407	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R311	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R310	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R309	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R230	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R224	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R222	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R617	061G0603102	RST CHIP 1K 1/10W 5%
R604	061G0603102	RST CHIP 1K 1/10W 5%
R603	061G0603102	RST CHIP 1K 1/10W 5%
R319	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R329	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R418	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R417	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R416	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R322	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W

R244	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R214	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R211	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R201	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R262	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R411	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R412	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R413	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R414	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R415	061G0603152	RST CHIPR 1.5 KOHM +-5% 1/10W
R210	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R215	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R216	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R228	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R232	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R237	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R238	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R239	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R240	061G0603222	RST CHIPR 2.2 KOHM +-5% 1/10W
R241	061G0603222	RST CHIPR 2.2 KOHM +-5% 1/10W
R421	061G0603223	RST CHIPR 22 KOHM +-5% 1/10W
R420	061G0603223	RST CHIPR 22 KOHM +-5% 1/10W
R217	061G0603223	RST CHIPR 22 KOHM +-5% 1/10W
R302	061G0603249 0F	RST CHIPR 249 OHM +-1% 1/10W
R419	061G0603303	RST CHIPR 30 KOHM +-5% 1/10W
R422	061G0603303	RST CHIPR 30 KOHM +-5% 1/10W
R218	061G0603333	RST CHIPR 33KOHM +-5% 1/10W
R225	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R212	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R213	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R226	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R227	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R242	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R303	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R305	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R306	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R307	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R308	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R312	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R315	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W

R316	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R317	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R318	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R324	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R424	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R501	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R601	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R609	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W
R608	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W
R605	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W
R410	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W
R409	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W
R235	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
R234	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
R233	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
R229	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
R223	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
R220	061G0603750 9F	RST CHIPR 75 OHM +-1% 1/10W
L501	061G1206000	0 OHM 1/8W
C620	065G0603102 31	CHIP 1000PF 50V NPO
C619	065G0603102 31	CHIP 1000PF 50V NPO
C607	065G0603102 31	CHIP 1000PF 50V NPO
C503	065G0603102 31	CHIP 1000PF 50V NPO
C413	065G0603102 32	1000PF +-10% 50V X7R
C412	065G0603102 32	1000PF +-10% 50V X7R
C411	065G0603102 32	1000PF +-10% 50V X7R
C262	065G0603102 32	1000PF +-10% 50V X7R
C201	065G0603102 32	1000PF +-10% 50V X7R
C216	065G0603103 32	0.01UF +-10% 50V X7R
C215	065G0603103 32	0.01UF +-10% 50V X7R
C213	065G0603103 32	0.01UF +-10% 50V X7R
C212	065G0603103 32	0.01UF +-10% 50V X7R
C211	065G0603103 32	0.01UF +-10% 50V X7R
C210	065G0603103 32	0.01UF +-10% 50V X7R
C331	065G0603104 12	CER2 0603 X7R 16V 100N P
C333	065G0603104 12	CER2 0603 X7R 16V 100N P
C209	065G0603104 12	CER2 0603 X7R 16V 100N P
C214	065G0603104 12	CER2 0603 X7R 16V 100N P
C219	065G0603104 12	CER2 0603 X7R 16V 100N P
C220	065G0603104 12	CER2 0603 X7R 16V 100N P

C312	065G0603104 12	CER2 0603 X7R 16V 100N P
C311	065G0603104 12	CER2 0603 X7R 16V 100N P
C310	065G0603104 12	CER2 0603 X7R 16V 100N P
C308	065G0603104 12	CER2 0603 X7R 16V 100N P
C307	065G0603104 12	CER2 0603 X7R 16V 100N P
C306	065G0603104 12	CER2 0603 X7R 16V 100N P
C305	065G0603104 12	CER2 0603 X7R 16V 100N P
C304	065G0603104 12	CER2 0603 X7R 16V 100N P
C303	065G0603104 12	CER2 0603 X7R 16V 100N P
C302	065G0603104 12	CER2 0603 X7R 16V 100N P
C222	065G0603104 12	CER2 0603 X7R 16V 100N P
C221	065G0603104 12	CER2 0603 X7R 16V 100N P
C603	065G0603104 12	CER2 0603 X7R 16V 100N P
C604	065G0603104 12	CER2 0603 X7R 16V 100N P
C608	065G0603104 12	CER2 0603 X7R 16V 100N P
C612	065G0603104 12	CER2 0603 X7R 16V 100N P
C613	065G0603104 12	CER2 0603 X7R 16V 100N P
C614	065G0603104 12	CER2 0603 X7R 16V 100N P
C321	065G0603104 12	CER2 0603 X7R 16V 100N P
C320	065G0603104 12	CER2 0603 X7R 16V 100N P
C318	065G0603104 12	CER2 0603 X7R 16V 100N P
C317	065G0603104 12	CER2 0603 X7R 16V 100N P
C314	065G0603104 12	CER2 0603 X7R 16V 100N P
C313	065G0603104 12	CER2 0603 X7R 16V 100N P
C330	065G0603104 12	CER2 0603 X7R 16V 100N P
C326	065G0603104 12	CER2 0603 X7R 16V 100N P
C401	065G0603104 12	CER2 0603 X7R 16V 100N P
C408	065G0603104 12	CER2 0603 X7R 16V 100N P
C502	065G0603104 12	CER2 0603 X7R 16V 100N P
C322	065G0603104 12	CER2 0603 X7R 16V 100N P
C324	065G0603104 12	CER2 0603 X7R 16V 100N P
C323	065G0603104 12	CER2 0603 X7R 16V 100N P
C217	065G0603220 32	CHIP 22PF 50V X7R
C218	065G0603220 32	CHIP 22PF 50V X7R
C332	065G0603224 12	CAP CHIP 0603 220N 16V X7R +/-10%
C618	065G0603224 17	CAP:CER 0.22UF-20%-80% 1
C327	065G0603330 31	CER1 0603 NP0 50V 33P PM
C328	065G0603330 31	CER1 0603 NP0 50V 33P PM
L307	071G 56K121 M	CHIP BEAD
L306	071G 56K121 M	CHIP BEAD

L305	071G 56K121 M	CHIP BEAD
L304	071G 56K121 M	CHIP BEAD
L303	071G 56K121 M	CHIP BEAD
L302	071G 56K121 M	CHIP BEAD
L301	071G 56K121 M	CHIP BEAD
FB204	071G 59B431	BK1608 HW 431
FB201	071G 59C600	CHIP BEAD
FB202	071G 59C600	CHIP BEAD
FB203	071G 59C600	CHIP BEAD
D213	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D212	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D211	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D208	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D207	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D206	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D205	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D204	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D203	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D202	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D201	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D209	093G 64 42 P	BAV70 SOT-23
D210	093G 64 42 P	BAV70 SOT-23
C403	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
C404	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
C405	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
C406	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
C407	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD201	093G 39S 34 T	UDZS5.6B
ZD301	093G 39S 34 T	UDZS5.6B
ZD212	093G 39S 34 T	UDZS5.6B
ZD211	093G 39S 34 T	UDZS5.6B
ZD210	093G 39S 34 T	UDZS5.6B
ZD209	093G 39S 34 T	UDZS5.6B
ZD208	093G 39S 34 T	UDZS5.6B
ZD207	093G 39S 34 T	UDZS5.6B
ZD204	093G 39S 34 T	UDZS5.6B
ZD203	093G 39S 34 T	UDZS5.6B
ZD202	093G 39S 34 T	UDZS5.6B
	715G2089 1	MAIN BOARD PCB
	KEPC6MDC	KEY BOARD

CN1	089G176F 8518	FFC CABLE
	SMTKEPC6MDC	KEY BOARD FOR SMT
ZD04	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD03	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD02	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD01	065G0603104 12	CER2 0603 X7R 16V 100N P
C02	065G0603104 12	CER2 0603 X7R 16V 100N P
C01	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD07	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD06	065G0603104 12	CER2 0603 X7R 16V 100N P
ZD05	065G0603104 12	CER2 0603 X7R 16V 100N P
SW05	077G 605 1 AL GP	SMD SWITCH
SW01	077G 605 1 AL GP	SMD SWITCH
SW02	077G 605 1 AL GP	SMD SWITCH
SW04	077G 605 1 AL GP	SMD SWITCH
SW03	077G 605 1 AL GP	SMD SWITCH
LED01	081G 14501 KT	CHIP LED
	715G2090 1	KEY BOARD PCB
	PWPCC42MD1P	POWER BOARD
	012G6078 1	PORON INVERTER
CN801	033G8021 2E U	WAFER
CN802	033G8021 2E U	WAFER
CN805	033G8021 2E U	WAFER
CN806	033G8021 2E U	WAFER
	040G 45762412B	CBPC LABEL
C905	051G 6 4502	RTV
U903	056G 139 3A	PC123Y22FZOF
NR901	061G 58030 W	NTCR 3Ω 5A
L901	073G 174 64 H	LINE FILITER
L902	073G 174 65 H	LINE FILTER
L904	073G 253 91 LS	CHOKE BY LI SHIN
L903	073G 253 91 LS	CHOKE BY LI SHIN
T901	080GL20T 18 T	XFMR FOR POWER TDK
T806	080GL20T 23 YS	X'FMR 135UH YS04170109
T805	080GL20T 23 YS	X'FMR 135UH YS04170109
T802	080GL20T 23 YS	X'FMR 135UH YS04170109
T801	080GL20T 23 YS	X'FMR 135UH YS04170109
CN901	087G 501 32 S	AC SOCKET
CN902	095G8013 12 21	HARNESS 12P-10P 230MM
	705GQCK0 57001	Q901 ASS'Y

Q901	057G 667 21	STP10NK70ZFP
BD901	093G 50460900	BRIDGE DIODE GBU408 LITEON
	0M1G1730 8128 CR3	SCREW
HS1	Q90G0019 3	HEAT SINK
	705GQCK0 61001	R914 ASS'Y
R914	061G152M18858F	0.18OHM 2W 5% MOF
	096G 29 6	H.S. TUBE
	705GQCK0 61002	R908 ASS'Y
R908	061G152M10458F	100K OHM 5% 2W
	096G 29 6	H.S. TUBE
	705GQCK0 93001	D904 ASS'Y
HS2	090G6241 2 GP	HEAT SINK
D904	093G 60278	DIODE SP1060 ITO-220 SECOS
	0M1G1730 8128 CR3	SCREW
	705GQCK0 93002	D907 ASS'Y
D907	093G 60252	SP20150
	0M1G1730 8128 CR3	SCREW
HS3	Q90G6273 2	HEAT SINK
	705LQCK1 65001	A4 FOR POWER ASS'Y
C904	063G 10722410S	X2 CAP 0.22UF 275VAC
C903	063G 10747410S	CAPACITANCE
C830	065G 3J5096ET	5PF 5% SL 3KV
C822	065G 3J5096ET	5PF 5% SL 3KV
C809	065G 3J5096ET	5PF 5% SL 3KV
C803	065G 3J5096ET	5PF 5% SL 3KV
C901	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C902	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C931	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C932	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C923	065G306M4722BM	4700PF +-20% 400VAC
C919	067G 215681 4N GP	105°C 680UF +-20% 25V GP
C918	067G 215681 4N GP	105°C 680UF +-20% 25V GP
C917	067G 215681 4N GP	105°C 680UF +-20% 25V GP
C930	067G215H102 3N	KY16VB1000M-L 10*20
C914	067G215H102 3N	KY16VB1000M-L 10*20
C905	067G215S10115N	PAG450VB100-M-L18*35.5MM
C812	067G215V471 4N	470UF +-20% 25V
C922	067G215V471 4N	470UF +-20% 25V
C915	067G215V471 4N	470UF +-20% 25V
C831	067G215V471 4N	470UF +-20% 25V

FB901	071G 55 9 T	FERRITE BEAD
FB902	071G 55 9 T	FERRITE BEAD
D901	093G 6026T52T	RECTIFIER DIODE FR107
	PWC42MD1SMTP	POWER BOARD FOR SMT
U901	056G 379 71	IC TEA1530AT SO-8 PHILIPS
U801	056G 608 10	0Z9938
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q808	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q803	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q810	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q818	057G 759 2	RK7002
Q817	057G 759 2	RK7002
Q816	057G 759 2	RK7002
Q815	057G 759 2	RK7002
Q814	057G 759 2	RK7002
Q811	057G 759 2	RK7002
Q805	057G 759 2	RK7002
Q804	057G 760 4	DTA144WKA BY ROHM SMT
Q806	057G 760 5	DTC144WKA BY ROHM SMT
Q802	057G 763 45	FET AM4910N-T1-PF SO-8
Q809	057G 763 45	FET AM4910N-T1-PF SO-8
Q812	057G 763 45	FET AM4910N-T1-PF SO-8
Q813	057G 763 45	FET AM4910N-T1-PF SO-8
R820	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R823	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R826	061G0603100 3F	RST CHIPR 100 KOHM +-1% 1/10W
R847	061G0603102	RST CHIP 1K 1/10W 5%
R840	061G0603102	RST CHIP 1K 1/10W 5%
R839	061G0603102	RST CHIP 1K 1/10W 5%
R817	061G0603102	RST CHIP 1K 1/10W 5%
R815	061G0603102	RST CHIP 1K 1/10W 5%
R808	061G0603102	RST CHIP 1K 1/10W 5%
R807	061G0603102	RST CHIP 1K 1/10W 5%
R857	061G0603102	RST CHIP 1K 1/10W 5%
R836	061G0603102	RST CHIP 1K 1/10W 5%
R812	061G0603102	RST CHIP 1K 1/10W 5%
R809	061G0603102	RST CHIP 1K 1/10W 5%
R803	061G0603102	RST CHIP 1K 1/10W 5%
R801	061G0603102	RST CHIP 1K 1/10W 5%

R849	061G0603102	RST CHIP 1K 1/10W 5%
R844	061G0603102	RST CHIP 1K 1/10W 5%
R827	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R843	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R805	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R813	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R837	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R845	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R858	061G0603104	RST CHIPR 100 KOHM +-5% 1/10W
R856	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R850	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R842	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R841	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R828	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R853	061G0603120 2F	RST CHIPR 12 KOHM +-1% 1/10W
R848	061G0603204	RST CHIPR 200 KOHM +-5% 1/10W
R846	061G0603204	RST CHIPR 200 KOHM +-5% 1/10W
R821	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R855	061G0603220 0F	RST CHIPR 220 OHM +-1% 1/10W
R854	061G0603220 0F	RST CHIPR 220 OHM +-1% 1/10W
R830	061G0603270 3F	RST CHIPR 270KOHM +-1% 1/10W
R831	061G0603304	RST CHIPR 300 KOHM +-5% 1/10W
R806	061G0603390	RST CHIPR 39 OHM +-5% 1/10W
R810	061G0603390	RST CHIPR 39 OHM +-5% 1/10W
R816	061G0603390	RST CHIPR 39 OHM +-5% 1/10W
R818	061G0603390	RST CHIPR 39 OHM +-5% 1/10W
R852	061G0603470 1F	RST CHIPR 4.7 KOHM +-1% 1/10W
R851	061G0603470 1F	RST CHIPR 4.7 KOHM +-1% 1/10W
R804	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R814	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R838	061G0603510 2F	RST CHIPR 51 KOHM +-1% 1/10W
R911	061G0805102	CHIP 1KOHM 1/10W
R938	061G0805103	10 KOHM 1/10W
R931	061G0805153	RST CHIPR 15KOHM +-5% 1/8W
R832	061G0805180 2F	RST CHIPR 18 KOHM +-1% 1/8W
R915	061G0805200 3F	RST CHIPR 200 KOHM +-1% 1/8W
R916	061G0805471	470&8 1/10W
JR901	061G1206000	0 OHM 1/8W
JR814	061G1206000	0 OHM 1/8W
JR813	061G1206000	0 OHM 1/8W

JR811	061G1206000	0 OHM 1/8W
JR810	061G1206000	0 OHM 1/8W
JR809	061G1206000	0 OHM 1/8W
JR808	061G1206000	0 OHM 1/8W
JR807	061G1206000	0 OHM 1/8W
JR805	061G1206000	0 OHM 1/8W
JR804	061G1206000	0 OHM 1/8W
JR803	061G1206000	0 OHM 1/8W
JR802	061G1206000	0 OHM 1/8W
R928	061G1206000	0 OHM 1/8W
F902	061G1206000	0 OHM 1/8W
F801	061G1206000	0 OHM 1/8W
R910	061G1206100	10 OHM 1/8W
R918	061G1206101	100 1206
R919	061G1206101	100 1206
R920	061G1206101	100 1206
R934	061G1206101	100 1206
R935	061G1206101	100 1206
R939	061G1206101	100 1206
R917	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R926	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R937	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R925	061G1206103	10 KOHM 1/8W
R924	061G1206152	RST CHIPR 1.5 KOHM +-5% 1/4W
R912	061G1206223	RST CHIP 22K 1/4W 5%
R930	061G1206243 1F	RST CHIPR 2.43KOHM +-1% 1/4W
R929	061G1206333	RST CHIPR 33 KOHM +-5% 1/4W
R909	061G1206339	3.3 1206
R927	061G1206390 1F	RST CHIPR 3.9KOHM +-5% 1/4W
R802	061G1206471	470 1206
R904	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R932	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R933	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R940	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
C827	065G0603103 12	CHIP 0.01UF 16V X7R
C807	065G0603103 12	CHIP 0.01UF 16V X7R
C835	065G0603104 22	CHIP 0.1UF 25V X7R
C836	065G0603104 22	CHIP 0.1UF 25V X7R

C838	065G0603104 22	CHIP 0.1UF 25V X7R
C828	065G0603104 22	CHIP 0.1UF 25V X7R
C801	065G0603105 12	CHIP 1UF 16VX7R 0603
C808	065G0603105 12	CHIP 1UF 16VX7R 0603
C813	065G0603105 12	CHIP 1UF 16VX7R 0603
C823	065G0603105 12	CHIP 1UF 16VX7R 0603
C832	065G0603105 12	CHIP 1UF 16VX7R 0603
C839	065G0603105 12	CHIP 1UF 16VX7R 0603
C824	065G0603123 32	CAP:CER 0.012UF 5% 50V 0603
C826	065G0603223 32	CHIP 0.022UF 50V X7R 0603
C805	065G0603331 31	330PF +-5% 50V NPO
C810	065G0603331 31	330PF +-5% 50V NPO
C825	065G0603331 31	330PF +-5% 50V NPO
C833	065G0603331 31	330PF +-5% 50V NPO
C834	065G0603561 31	CAP:CER 560PF 5%50V SMT 0603
C927	065G0805104 32	CHIP 0.1U 50V X7R
C924	065G0805104 32	CHIP 0.1U 50V X7R
C920	065G0805104 32	CHIP 0.1U 50V X7R
C916	065G0805104 32	CHIP 0.1U 50V X7R
C907	065G0805104 32	CHIP 0.1U 50V X7R
C911	065G0805105 22	CHIP 1UF 25V X7R 0805
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO
C909	065G0805224 32	0.22UF,K,50V,X7R
C817	065G0805225 12	CHIP 2.2UF 15V X7R 0805
C829	065G0805225 12	CHIP 2.2UF 15V X7R 0805
C821	065G0805331 31	CHIP 330PF 50V NPO
C929	065G1206102 72	CHIP 1000PF 500V X7R
C921	065G1206102 72	CHIP 1000PF 500V X7R
C818	065G1206225 22	2.2UF 25V X7R 1206
C815	065G1206225 22	2.2UF 25V X7R 1206
C804	065G1206225 22	2.2UF 25V X7R 1206
C802	065G1206225 22	2.2UF 25V X7R 1206
F903	084G 52 2	SMT 4A 32V
D803	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D809	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D820	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D823	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D909	093G 64 44 S	LL4148WP
D908	093G 64 44 S	LL4148WP
D903	093G 64 44 S	LL4148WP

D832	093G 64 44 S	LL4148WP
D830	093G 64 44 S	LL4148WP
D827	093G 64 44 S	LL4148WP
D826	093G 64 44 S	LL4148WP
D825	093G 64 44 S	LL4148WP
D821	093G 64 44 S	LL4148WP
D819	093G 64 44 S	LL4148WP
D812	093G 64 44 S	LL4148WP
D811	093G 64 44 S	LL4148WP
D810	093G 64 44 S	LL4148WP
D801	093G 64 44 S	LL4148WP
D802	093G 64 44 S	LL4148WP
D804	093G 64 44 S	LL4148WP
D805	093G 64 44 S	LL4148WP
D806	093G 64 44 S	LL4148WP
D807	093G 64 44 S	LL4148WP
D808	093G 64 44 S	LL4148WP
D822	093G 64 44 S	LL4148WP
D824	093G 64 44 S	LL4148WP
D831	093G 64 44 S	LL4148WP
ZD801	093G 39S 24 T	RLZ 5.6B LLDS
ZD902	093G 39S 25 T	RLZ5.1B LLDS
ZD901	093G 39S 38 T	PTZ 9.1B
ZD903	093G 39S 40 T	RLZ 13B LLDS
	PWC42MD1AIP	POWER BOARD FOR AI
CN901	006G 31500	EYELET
C905	006G 31502	1.5MM RIVET
L901	006G 31502	1.5MM RIVET
L902	006G 31502	1.5MM RIVET
NR901	006G 31502	1.5MM RIVET
Q901	006G 31502	1.5MM RIVET
T801	006G 31502	1.5MM RIVET
T802	006G 31502	1.5MM RIVET
T805	006G 31502	1.5MM RIVET
T901	006G 31502	1.5MM RIVET
T806	006G 31502	1.5MM RIVET
U902	056G 158 12	KIA431A-AT/P TO-92
C906	065G 1K152 1T	1.5NF/1KV Z5F+-10%
C908	067G 2152207NT	KY50VB22M-TP5 5*11
F901	084G 55 7W	FUSE 3.15A 250V WICKMANN

D902	093G 6038P52T	PS102R
	715G2244 1	POWER BOARD PCB
FB801	071G 55 9 T	FERRITE BEAD
	Q52G6025 13 77	MYLAR
HS4	Q85G0003 5	SHIELD
	Q05G6051 1	SHEET
	Q05G6055 1	SHEET
	Q07G 8 1 20	COMPOUND PALLET
	Q07G 8 1 21	COMPOUND PALLET
	Q40G 22N700 1A	RATING LABEL
	Q40G0001700 1A	LABEL
	Q41G780070070A	QSG
	Q41G780070071A	DVI SHEET
	Q41G780070075A	DAO PIG
	Q44GC005 1	EPS(L)
	Q44GC005 2	EPS(R)
	Q44GC005 3	EPS
	Q44GC005700 2A	CARTON
	Q44GC005BRO 1	PAPER BLOCK
	Q44GSLIP10030A	PLASTIC SLIPSHEET
	Q44GSLIP10031A	PLASTIC SLIPSHEET
	Q45G 88609 60	EPE BAG FOR MONITOR
	Q45G 88609 61	EPE BAG FOR STAND
	Q52G6020 2D03	PROTECT FILM
	Q52G6025 13 49	MYLAR
	Q70G2200700 1A	CD MANUAL
	Q44G9003112	CORNER PAPER
	Q44G3231 15607	EVA WASHER
	015G6261 1	BRACKET

14. Different Parts List

Diversity of TC6MGHHBWDDHP compared with TC6MGHDKWDDHP		
Location	Part No.	Description
	015G8146 1	KEVSINGTON BRACKET
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	095G8018 3D608	LVDS CABLE
X301	093G 22 53	CRYSTAL 14.318MHzHC-49US
U601	056G 563 21	AP1084K33LA
U202	056G113334A	24LC02B/SNG SOIC-8PIN
U201	056G113334A	24LC02B/SNG SOIC-8PIN
U403	056G113356A	24LC16B/SNG SOIC-8PIN
Q202	057G 417 12 T	KEC 2N3904S-RTK/PS
Q603	057G 417 12 T	KEC 2N3904S-RTK/PS
Q601	057G 417 12 T	KEC 2N3904S-RTK/PS
Q403	057G 417 12 T	KEC 2N3904S-RTK/PS
Q404	057G 417 12 T	KEC 2N3904S-RTK/PS
Q201	057G 759 2	RK7002
Q602	057G 763 1A	AP2305N
D201	093G 6433P	BAV99
D202	093G 6433P	BAV99
D203	093G 6433P	BAV99
D204	093G 6433P	BAV99
D205	093G 6433P	BAV99
D206	093G 6433P	BAV99
D207	093G 6433P	BAV99
D208	093G 6433P	BAV99
D211	093G 6433P	BAV99
D212	093G 6433P	BAV99
D213	093G 6433P	BAV99
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B

ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
L901	073G 174 64 L	LINE FIL TER
L901	073G 174 64 LS	LINE FIL TER
L901	073G 174 64 YS	LINE FIL TER
L902	073G 174 65 LS	LINE FILTER BY LISHIN
L904	073G 253 91 H	CHOKE COIL
L903	073G 253 91 H	CHOKE COIL
CN902	095G801312E 21	WIRE HARNESS
CN902	095G801312Q 21	WIRE HARNESS
CN902	095G801312X 21	WIRE HARNESS
BD901	093G 50460 16	U4KB80R
D907	093G 60259	DIODE
C917	067G 515681 4C	EC 105°C CAP 680UF M 25V
C918	067G 515681 4C	EC 105°C CAP 680UF M 25V
C919	067G 515681 4C	EC 105°C CAP 680UF M 25V
C917	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C918	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C919	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C930	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C914	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C915	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C922	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C812	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C922	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C915	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C831	067G215L4714CT	EC 470UF 25V GL 10*16mm
C812	067G215L4714CT	EC 470UF 25V GL 10*16mm
C922	067G215L4714CT	EC 470UF 25V GL 10*16mm
C915	067G215L4714CT	EC 470UF 25V GL 10*16mm
C908	067G 2152207RT	LOW E.S.R 22UF +/-20% 50V
F901	084G 56 3W	FUSE
	034FPF20P01	BOBBIN
	034FPF20P01	BOBBIN
	Q40G0001700 4A	DELL carton label for Europe

	Q41G780070079A	EMEA PIG
	Q44GC005700 2B	CARTON

Diversity of TC6MGHHKWDDDHDP compared with TC6MGHDKWDDDHDP		
Location	Part No.	Description
	015G8146 1	KEVSINGTON BRACKET
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	095G8018 3D608	LVDS CABLE
X301	093G 22 53	CRYSTAL 14.318MHzHC-49US
U601	056G 563 21	AP1084K33LA
U202	056G113334A	24LC02B/SNG SOIC-8PIN
U201	056G113334A	24LC02B/SNG SOIC-8PIN
U403	056G113356A	24LC16B/SNG SOIC-8PIN
Q202	057G 417 12 T	KEC 2N3904S-RTK/PS
Q603	057G 417 12 T	KEC 2N3904S-RTK/PS
Q601	057G 417 12 T	KEC 2N3904S-RTK/PS
Q403	057G 417 12 T	KEC 2N3904S-RTK/PS
Q404	057G 417 12 T	KEC 2N3904S-RTK/PS
Q201	057G 759 2	RK7002
Q602	057G 763 1A	AP2305N
D201	093G 6433P	BAV99
D202	093G 6433P	BAV99
D203	093G 6433P	BAV99
D204	093G 6433P	BAV99
D205	093G 6433P	BAV99
D206	093G 6433P	BAV99
D207	093G 6433P	BAV99
D208	093G 6433P	BAV99
D211	093G 6433P	BAV99
D212	093G 6433P	BAV99
D213	093G 6433P	BAV99
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B

ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
L901	073G 174 64 L	LINE FIL TER
L901	073G 174 64 LS	LINE FIL TER
L901	073G 174 64 YS	LINE FIL TER
L902	073G 174 65 LS	LINE FILTER BY LISHIN
L904	073G 253 91 H	CHOKE COIL
L903	073G 253 91 H	CHOKE COIL
CN902	095G801312E 21	WIRE HARNESS
CN902	095G801312Q 21	WIRE HARNESS
CN902	095G801312X 21	WIRE HARNESS
BD901	093G 50460 16	U4KB80R
D907	093G 60259	DIODE
C919	067G 515681 4C	EC 105°C CAP 680UF M 25V
C918	067G 515681 4C	EC 105°C CAP 680UF M 25V
C917	067G 515681 4C	EC 105°C CAP 680UF M 25V
C917	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C918	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C919	067G215B681 4R GP	EC 105°C 680UF M 25V YXG SERIES 10*20MM
C930	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C914	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C915	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C922	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C812	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C922	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C915	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C831	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C831	067G215L4714CT	EC 470UF 25V GL 10*16mm
C812	067G215L4714CT	EC 470UF 25V GL 10*16mm
C922	067G215L4714CT	EC 470UF 25V GL 10*16mm
C915	067G215L4714CT	EC 470UF 25V GL 10*16mm
C908	067G 2152207RT	LOW E.S.R 22UF +/-20% 50V

F901	084G 56 3W	FUSE
	034FPF20P01	BOBBIN
	034FPF20P01	BOBBIN
	Q44GC005700 2B	CARTON

Diversity of TC6MGHHLWDDHP compared with TC6MGHDKWDDHP		
Location	Part No.	Description
	015G8146 1	KEYSINGTON BRACKET
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	095G8018 3D608	LVDS CABLE
X301	093G 22 53	CRYSTAL 14.318MHzHC-49US
U601	056G 563 21	AP1084K33LA
U201	056G113334A	24LC02B/SNG SOIC-8PIN
U202	056G113334A	24LC02B/SNG SOIC-8PIN
U403	056G113356A	24LC16B/SNG SOIC-8PIN
Q202	057G 417 12 T	KEC 2N3904S-RTK/PS
Q603	057G 417 12 T	KEC 2N3904S-RTK/PS
Q601	057G 417 12 T	KEC 2N3904S-RTK/PS
Q403	057G 417 12 T	KEC 2N3904S-RTK/PS
Q404	057G 417 12 T	KEC 2N3904S-RTK/PS
Q201	057G 759 2	RK7002
Q602	057G 763 1A	AP2305N
D201	093G 6433P	BAV99
D202	093G 6433P	BAV99
D203	093G 6433P	BAV99
D204	093G 6433P	BAV99
D205	093G 6433P	BAV99
D206	093G 6433P	BAV99
D207	093G 6433P	BAV99
D208	093G 6433P	BAV99
D211	093G 6433P	BAV99
D212	093G 6433P	BAV99
D213	093G 6433P	BAV99
ZD301	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B

ZD209	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD201	093G 39P599 T	MM3Z5V6B
L901	073G 174 64 L	LINE FIL TER
L901	073G 174 64 LS	LINE FIL TER
L901	073G 174 64 YS	LINE FIL TER
L902	073G 174 65 LS	LINE FILTER BY LISHIN
L904	073G 253 91 H	CHOKE COIL
L903	073G 253 91 H	CHOKE COIL
CN902	095G801312E 21	WIRE HARNESS
CN902	095G801312Q 21	WIRE HARNESS
CN902	095G801312X 21	WIRE HARNESS
BD901	093G 50460 16	U4KB80R
D907	093G 60259	DIODE
C919	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C918	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C917	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C919	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C918	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C917	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C914	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C930	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C812	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C922	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C915	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C922	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C915	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L4714CT	EC 470UF 25V GL 10*16mm
C831	067G215L4714CT	EC 470UF 25V GL 10*16mm
C922	067G215L4714CT	EC 470UF 25V GL 10*16mm

C915	067G215L4714CT	EC 470UF 25V GL 10*16mm
C908	067G 2152207RT	LOW E.S.R 22UF +/-20% 50V
F901	084G 56 3W	FUSE
	034FPF20P01	BOBBIN
	034FPF20P01	BOBBIN
	Q44GC005700 2B	CARTON

Diversity of TC6MGHHMWDDFHP compared with TC6MGHDKWDDHP		
Location	Part No.	Description
	015G8146 1	KEVSINGTON BRACKET
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	095G8018 3D608	LVDS CABLE
X301	093G 22 53	CRYSTAL 14.318MHzHC-49US
U601	056G 563 21	AP1084K33LA
U201	056G113334A	24LC02B/SNG SOIC-8PIN
U202	056G113334A	24LC02B/SNG SOIC-8PIN
U403	056G113356A	24LC16B/SNG SOIC-8PIN
Q202	057G 417 12 T	KEC 2N3904S-RTK/PS
Q603	057G 417 12 T	KEC 2N3904S-RTK/PS
Q601	057G 417 12 T	KEC 2N3904S-RTK/PS
Q403	057G 417 12 T	KEC 2N3904S-RTK/PS
Q404	057G 417 12 T	KEC 2N3904S-RTK/PS
Q201	057G 759 2	RK7002
Q602	057G 763 1A	AP2305N
D201	093G 6433P	BAV99
D202	093G 6433P	BAV99
D203	093G 6433P	BAV99
D204	093G 6433P	BAV99
D205	093G 6433P	BAV99
D206	093G 6433P	BAV99
D207	093G 6433P	BAV99
D208	093G 6433P	BAV99
D211	093G 6433P	BAV99
D212	093G 6433P	BAV99
D213	093G 6433P	BAV99
ZD301	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B

ZD211	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD201	093G 39P599 T	MM3Z5V6B
L901	073G 174 64 L	LINE FIL TER
L901	073G 174 64 LS	LINE FIL TER
L901	073G 174 64 YS	LINE FIL TER
L902	073G 174 65 LS	LINE FILTER BY LISHIN
L904	073G 253 91 H	CHOKE COIL
L903	073G 253 91 H	CHOKE COIL
CN902	095G801312E 21	WIRE HARNESS
CN902	095G801312Q 21	WIRE HARNESS
CN902	095G801312X 21	WIRE HARNESS
BD901	093G 50460 16	U4KB80R
D907	093G 60259	DIODE
C919	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C918	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C917	067G 515681 4C	EC 105℃ CAP 680UF M 25V
C919	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C918	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C917	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C914	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C930	067G215H102 3Q	UHE1C102MPD 1000UF/16V
C812	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C922	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C915	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4Q GP	LOW ESR EC 470UF 25V UHE1E471M
C831	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C922	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C915	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C812	067G215L4714CT	EC 470UF 25V GL 10*16mm

C831	067G215L4714CT	EC 470UF 25V GL 10*16mm
C922	067G215L4714CT	EC 470UF 25V GL 10*16mm
C915	067G215L4714CT	EC 470UF 25V GL 10*16mm
C908	067G 2152207RT	LOW E.S.R 22UF +/-20% 50V
F901	084G 56 3W	FUSE
	034FPF20P01	BOBBIN
	034FPF20P01	BOBBIN
	Q44GC005700 2B	CARTON

Diversity of TC6MGHHJWDDDHCP compared with TC6MGHDKWDDDHCP		
Location	Part No.	Description
	044G9003 96	CORNER PAPER
	044G9003120	COMER PAPER
	070GHDCP500HDC	HDCP CODE
	089G401A18NHRA	POWER CORD
	750GLMC0Z1111D000D	PANEL M220Z1-L01 C1 CMO
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q07G 1 5D31	WOODEN PALLET
	Q07G 1 5D32	WOODEN PALLET
	Q40G 22N700 2A	RATING LABEL
	Q44GC005700 2C	CARTON
	Q70G2200700 1B	CD MANUAL

Diversity of TC6MGHHJWDDDHCP compared with TC6MGHDKWDDDHCP		
Location	Part No.	Description
	044G9003 96	CORNER PAPER

	044G9003120	COMER PAPER
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	089G401A18NHRA	POWER CORD
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q07G 1 5D31	WOODEN PALLET
	Q07G 1 5D32	WOODEN PALLET
	Q40G 22N700 2A	RATING LABEL
	Q44GC005700 2C	CARTON
	Q70G2200700 1B	CD MANUAL

Diversity of TC6MGHHKWDDDHCP compared with TC6MGHDKWDDDHHP

Location	Part No.	Description
	070GHDCP500HDC	HDCP CODE
E089B	089G 728LAA 2D	SIGNAL CABLE
	750GLMC0Z1111D000D	PANEL M220Z1-L01 C1 CMO
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B

	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q44GC005700 2C	CARTON
	Q70G2200700 1B	CD MANUAL

Diversity of TC6MGHHLWDDDHCP compared with TC6MGHDKWDDDHHP		
Location	Part No.	Description
	070GHDCP500HDC	HDCP CODE
	750GLMC0Z1111D000D	PANEL M220Z1-L01 C1 CMO
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q44GC005700 2C	CARTON
	Q70G2200700 1B	CD MANUAL

Diversity of TC6MGHHLWDDDHCP compared with TC6MGHDKWDDDHHP		
Location	Part No.	Description
	070GHDCP500HDC	HDCP CODE
	750GLMC0Z1111D000D	PANEL M220Z1-L01 C1 CMO
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B

ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q40G0001700 4A	DELL CARTON LABEL FOR EUROPE
	Q41G780070079A	EMEA PIG
	Q44GC005700 2C	CARTON
	Q70G2200700 1B	CD MANUAL

Diversity Of TC6MGHHMWDDDHCP Compared With TC6MGHDKWDDHHP		
Location	Part No.	Description
	044G9003 96	CORNER PAPER
	044G9003120	COMER PAPER
	070GHDCP500HDC	HDCP CODE
	750GLMC0Z1111D000D	PANEL M220Z1-L01 C1 CMO
ZD201	093G 39P599 T	MM3Z5V6B
ZD202	093G 39P599 T	MM3Z5V6B
ZD203	093G 39P599 T	MM3Z5V6B
ZD204	093G 39P599 T	MM3Z5V6B
ZD207	093G 39P599 T	MM3Z5V6B
ZD208	093G 39P599 T	MM3Z5V6B
ZD209	093G 39P599 T	MM3Z5V6B
ZD210	093G 39P599 T	MM3Z5V6B
ZD211	093G 39P599 T	MM3Z5V6B
ZD212	093G 39P599 T	MM3Z5V6B
ZD301	093G 39P599 T	MM3Z5V6B
	011G6048 1	CLAMP-S
	715G2244 2	POWER BOARD PCB
	Q07G 1 5D31	WOODEN PALLET
	Q07G 1 5D32	WOODEN PALLET
	Q44GC005700 1A	CARTON
	Q70G2200700 1B	CD MANUAL