

Service
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Service Manual

Horizontal Frequency
31kHz – 83kHz

TABLE OF CONTENTS

Description	Page	Description	Page
Table Of Contents.....	1	6.Schematic.....	22
Revision List.....	2	6.1 Main Board.....	22
Important Safety Notice.....	3	6.2 Power Board.....	26
1. Monitor Specification.....	4	6.3 Key Board.....	29
2. LCD Monitor Description.....	5	7.PCB Layout.....	30
3. Operation Instruction.....	6	7.1 Main Board.....	30
3.1 General Instructions.....	6	7.2 Power Board.....	32
3.2 Control Button.....	6	7.3 Key Board.....	34
3.3 Adjusting the Picture.....	7	8. Maintainability.....	35
4. Input/Output Specification.....	14	8.1 Equipments and Tools Requirement.....	35
4.1 Input Signal Connector.....	14	8.2 Trouble Shooting.....	36
4.2 Factory Preset Display Modes.....	15	9. White-Balance, Luminance adjustment.....	42
4.3 Panel Specification.....	16	10. Monitor Exploded View.....	44
5. Block Diagram.....	18	11. BOM List.....	45
5.1 Soft Flow Chart.....	18	12.Different Parts List.....	57
5.2 Electrical Block Diagram.....	20		

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

[illegible]

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

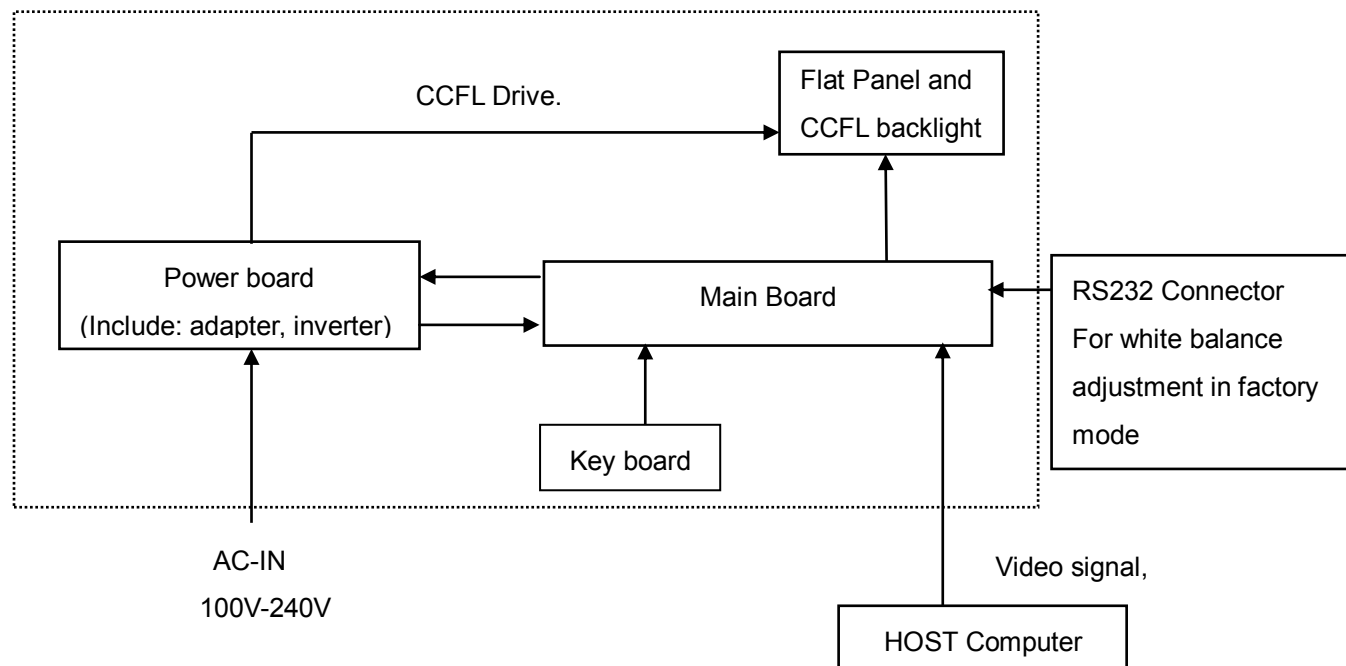
LCD Panel	Driving system	TFT Color LCD
	Viewable Image Size	558.68mm diagonal
	Pixel pitch	0.282mm(H) x 0.282mm(V)
	Dot Clock	149 MHz
	Display Colors	16.7 million Colors
Input	Video	R, G, B Analog Interface
	Separate Sync.	H/V TTL
	H-Frequency	31 – 83kHz
	Horizontal scan Size(Maximum)	477.7 mm
	V-Frequency	56 - 75 Hz
	Vertical scan Size(Maximum)	300.1 mm
Max. Resolution		1680 x 1050 (75 Hz)
Plug & Play		VESA DDC2B/CI
Power Consumption	ON Mode	≤49W
	saving mode	< 2 W
Input Connector		15-pin D-Sub
Input Video Signal		Analog: 0. 7Vp-p(standard), 75 OHM, Positive
Power Source		100~240VAC, 47~63Hz
Environmental Considerations		Operating Temp: 0° to 50°C Operating Humidity: 10% to 85%
Dimension	Height (with base)	357.6(404.6) mm
	Width	505.8 mm
	Depth	209.9mm
Weight (monitor only)		5 kg
Weight (with packaging)		7 kg

2. LCD Monitor Description

The LCD monitor will contain a main board, a power board, and a 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.

Monitor Block Diagram



3. Operating Instructions

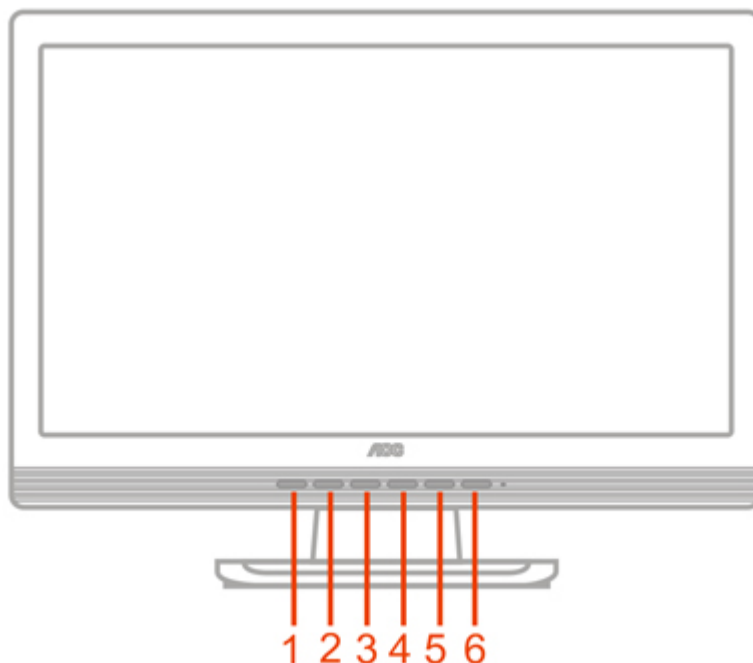
3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Button

External Controls

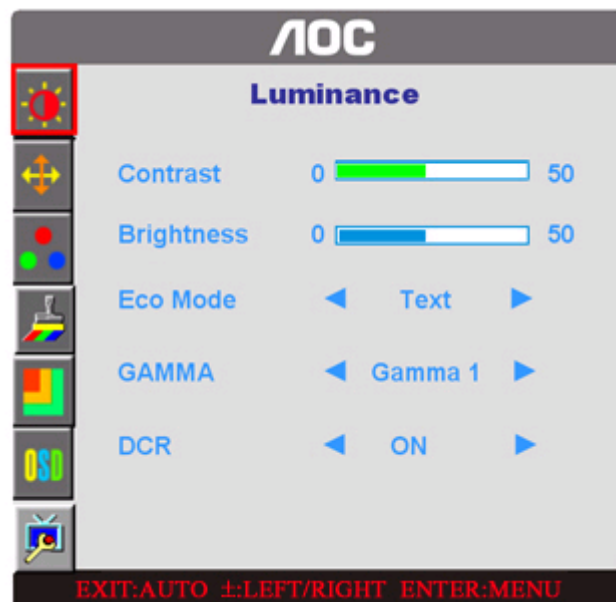


- 1.Exit
2. Auto Config
3. Volume / -
4. Volume / +
5. Menu / Enter
6. Power Button & Indicator

3.3 Adjusting The Picture

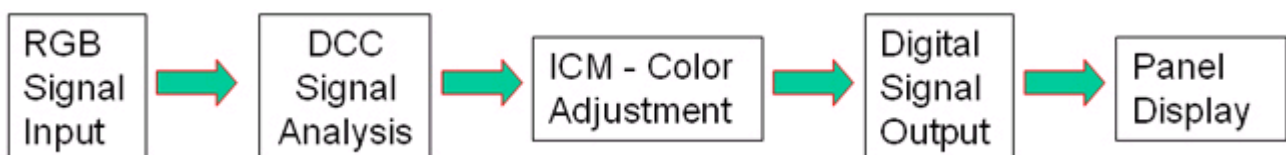
OSD Settings

- Press the MENU-button to activate the OSD window.
- Press+ or - to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it. If the function selected has a sub-menu, press or again to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- Press+ or - to change the settings of the selected function. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.
- OSD Lock Function: To lock the OSD, press and hold the MENU button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the MENU button while the monitor is off and then press power button to turn the monitor on.
- Press Exit key continually for 7 sec. to turn on or off DDC-CI.



DCB Adjustment

Dynamic Color Boost (DCB) is an advanced color adjustment technology. Through analyzing RGB signals, DCB creates more vivid and natural images to suit various color environment needs. DCB has two types of color enhancers: "Color Boost" and "Picture Boost".

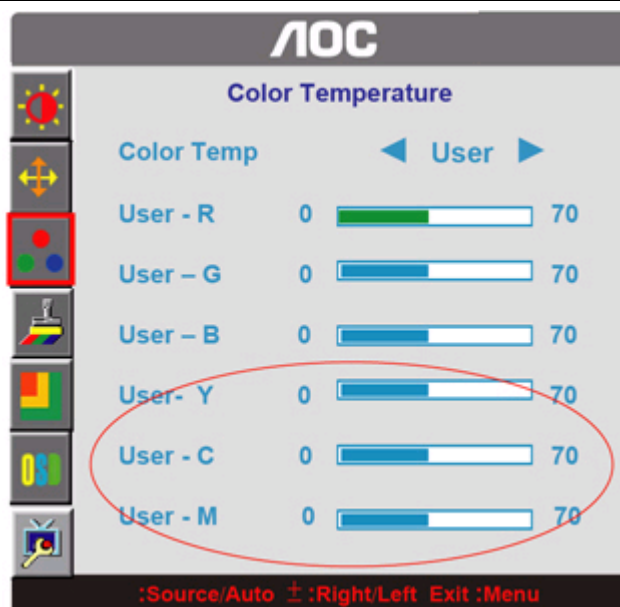


DCC: Dynamic color control

ICM: Intelligent color management

1) How to use Color Boost?

YCM adjustment: In addition to the basic R (red), G (green), B (blue) color adjustments, Color Boost has added Y (yellow), B (blue), and M (magenta) for more color fine-tuning options. YCM adjustments are in the third icon labeled "Color Temperature" in the OSD menu. When adjusting YCM values, RGB values will also be changed automatically due to the color correlation between RGB and YCM.



Five color-enhancement settings: To accommodate various display needs, Color Boost also offers 5 different color enhancement modes: Full Enhance, Natural Skin, Green Field, Sky Blue, and Auto-Detect. Please go to the fourth icon labeled "Color Boost" in the OSD menu and select one of the five settings you desire to be turned on.



Full Enhance: When "Full Enhance" is turned on, the color saturation of the entire screen is fully enriched, thus all colors become more vibrant.



Nature Skin: When "Natural Skin" is turned on, the red and yellow colors are enriched automatically, thus presents human skin with more natural and truer colors. "Natural Skin" setting is ideal for viewing human portrait and detailed skin texture.



Green Field: When "Green Field" is turned on, the green color is enriched so that football field and mountain landscape would look more natural and fresh. "Green Field" setting is ideal for watching mountain scenery and outdoor sports.



Sky Blue: When "Sky Blue" is turned on, the color blue is being fine-tuned so that the sky or ocean landscape will look more vivid and in-depth. "Sky Blue" setting is ideal for viewing sky and ocean images.



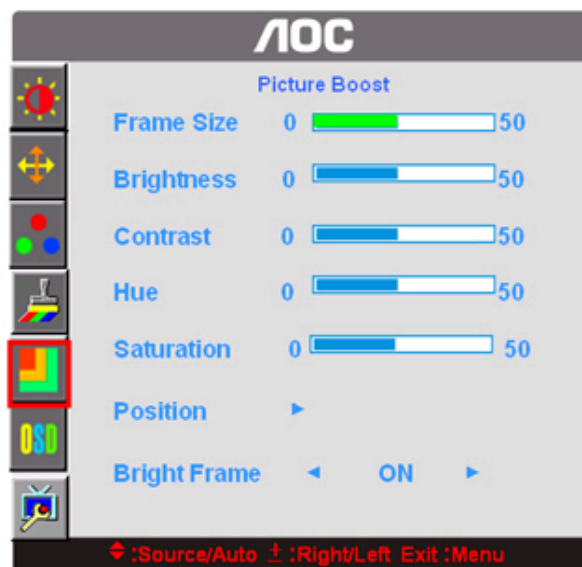
Auto Detect: When "Auto Detect" is turned on, every pigment will be detected and self-adjusted to render a lively picture.



Demo: Screen divided into two for demonstration purposes.

2) How to use Picture Boost?

Users can change the color settings of a self-selected zone on the screen. The size and position of the selected zone can also be adjusted. "Picture Boost" is located in the fifth icon labeled "Picture Boost" in the OSD menu. Turn on "Bright Frame" to select a zone on the screen to be enhanced. Please note when adjust or turn on any one of the DCB features, the rest of color settings including DCR will be disabled or return to default.



Disclaimer: DCB aftereffects are subject to the resolution and quality of the display content, hence may look different than the above illustrations.

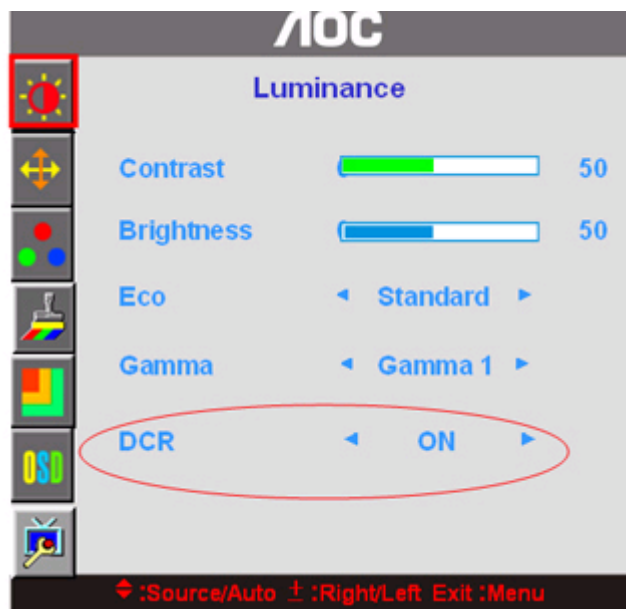
DCR Adjustment

What is DCR?

Dynamic Contrast Ratio (DCR) auto adjusts the brightness of the screen so users can see the darker areas of the displayed content in more depths. By increasing the darkness of the dark areas and the brightness of the bright areas, contrast ratio is uplifted to exceed 2000:1. DCR value varies subject to the original CR values of the LCD module. The higher the original CR, the higher DCR can be achieved. DCR is great for watching movie or video contents.

How to Use DCR?

Go to the first OSD icon labeled "Luminance", turn on or off DCR as desires. DCR boosts the contrasts between lightness & darkness and enables the viewer to see more layers and details of the picture, especially in the darker areas. Please note when DCR is on, DCB will be disabled.










DCR Demos:



Disclaimer: DCR aftereffects are subject to the resolution and quality of the display content, hence may look different than the above illustrations.

Function Control Illustration

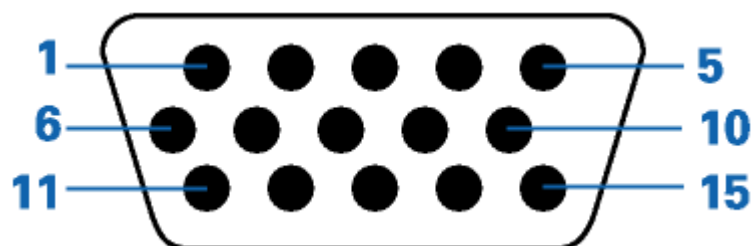
	Luminance	Adjust Range	Description
	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard	Standard Mode
		Text	Text Mode
		Internet	Internet Mode
		Game	Game Mode
		Movie	Movie Mode
		Sports	Sports Mode
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off	Disable dynamic contrast ratio
		On	Enable dynamic contrast ratio
	Image Setup		
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Focus	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H.Position	0-100	Adjust the vertical position of the picture.
	V.Position	0-100	Adjust the horizontal position of the picture.
	Color Temp.		
	Warm		Recall Warm Color Temperature from EEPROM.
	Normal		Recall Normal Color Temperature from EEPROM.
	Cool		Recall Cool Color Temperature from EEPROM.
	sRGB		Recall sRGB Color Temperature from EEPROM.
	User	User-B	Blue Gain from Digital-register
		User-G	Green Gain Digital-register.
		User-R	Red Gain from Digital-register
		User-Y	Yellow Gain from Digital-register
		User-C	Cyan Gain from Digital-register
		User-M	Magenta Gain from Digital-register
	Color Boost		
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
	AutoDetect	on or off	Disable or Enable AutoDetect Mode
	Demo	on or off	Disable or Enable Demo
	Picture Boost		
	Frame Size	0-14	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	Hue	0-100	Adjust Frame Hue
	Saturation	0-100	Adjust Frame Saturation
	Position	H. position	Adjust Frame horizontal Position
		V.position	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame

	OSD Setup		
	H.Position	0-100	Adjust the vertical position of OSD
	V.Position	0-100	Adjust the horizontal position of OSD
	Timeout	0-100	Adjust the OSD Timeout
	Language		Select the OSD language
	Extra		
	Auto Config	yes or no	Auto adjust the picture to default
	Reset	yes or no	Reset the menu to default
	EXIT/DDC-CI		Turn ON/OFF DDC-CI Support
	Information		Show the information of the main image and sub-image source

4. Input/Output Specification

4.1 Input Signal Connector

D-Sub mini 15pin Connector



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	N.C.
5	Detect Cable
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	Ground
11	N.C.
12	DDC-Serial data
13	H-sync
14	V-sync
15	DDC-Serial clock

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
Dos-mode	720 x 400	31.47	70.0
VGA	640x480@60Hz	31.469	59.94
	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.5	75
SVGA	800x600@56Hz	35.156	56.25
	800x600@60Hz	37.879	60.317
	800x600@72Hz	48.077	72.188
	800x600@75Hz	46.875	75
XGA	1024x768@60Hz	48.363	60.004
	1024x768@70Hz	56.476	70.069
	1024x768@72Hz	57.7	72
	1024x768@75Hz	60.023	75.029
XGA	1280x1024@60Hz	63.981	60.02
	1280x1024@70Hz	74.4	70
	1280x1024@72Hz	77.9	72
	1280x1024@75Hz	79.976	75.025
	1280x960@60Hz	60	60
WSXGA	1680x1050@60Hz	65.29	59.95

4.3 Panel Specification

M220Z1-L01

The M220Z1-L01 model is a 22 inch wide TFT-LCD module with a 4-CCFL Backlight Unit and a 30-pin 2ch-LVDS interface. This module supports 1680 x 1050 WSXGA+ (16:10 wide screen) mode and displays up to 16.7 millions colors. The inverter module for the Backlight Unit is not built in.

General Specifications

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%)	-

MECHANICAL SPECIFICATIONS

Item		Min.	Typ.	Max.	Unit
Module Size	Horizontal(H)	493.2	493.7	494.2	mm
	Vertical(V)	319.6	320.1	320.6	mm
	Depth(D)	16	16.5	17	mm
Weight				2800	g
I/F connector mounting position		The mounting inclination of the connector makes the screen center within ± 0.5 mm as the horizontal.			

Electrical Characteristics

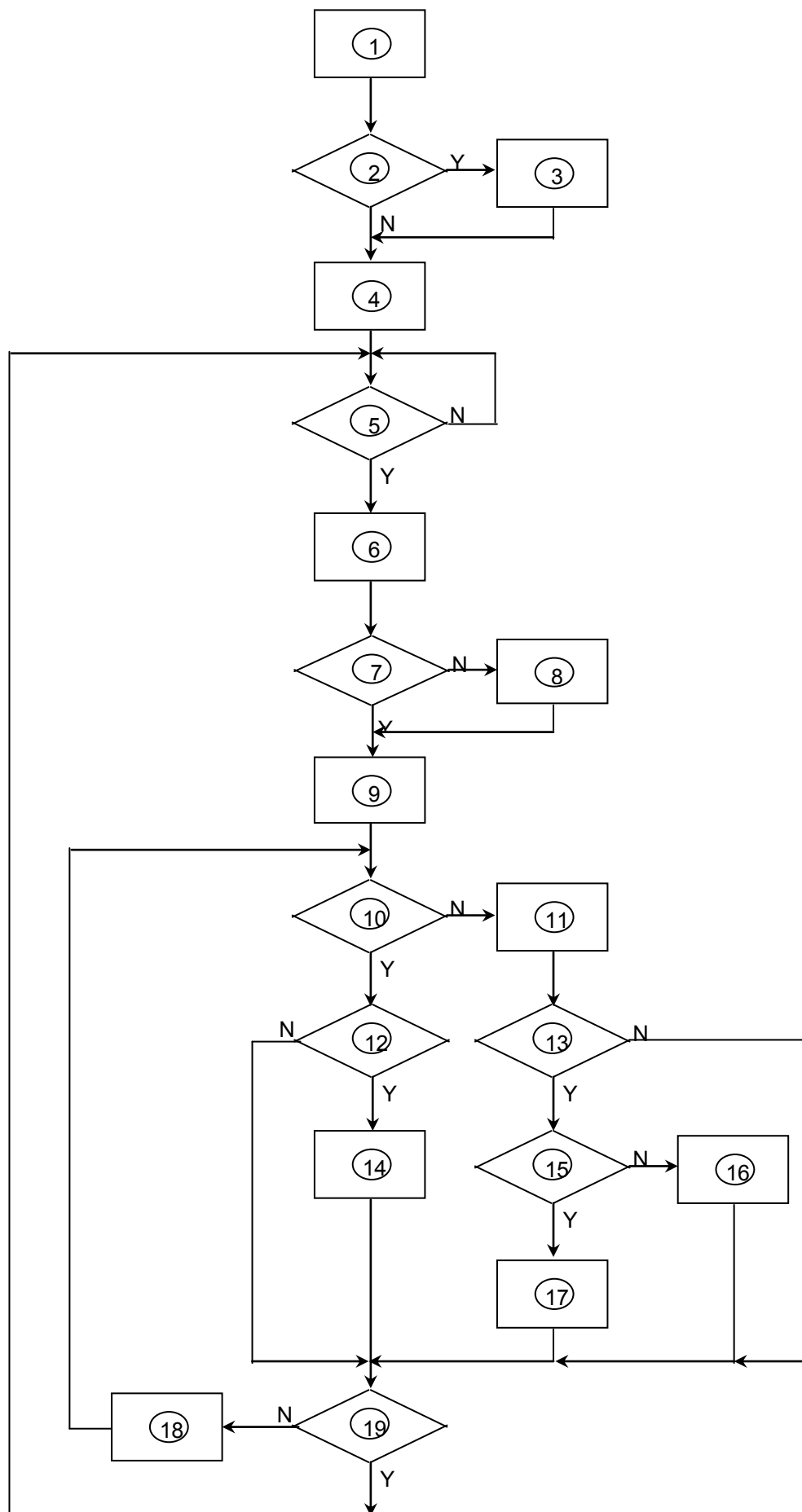
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Power Supply Voltage	V _{CC}	4.5	5.0	5.5	V
Ripple Voltage	V _{RP}	-	--	100	mV
Rush Current	I _{RUSH}	-	--	3	A
Power Supply Current	White	-	580		mA
	Black	-	1100		mA
	f _V = 75Hz, V _{CC} =4.5V	-	-	1230	mA
LVDS differential input voltage	V _{id}	-100	-	+100	mV
LVDS common input voltage	V _{ic}	--	1.2	--	V

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	---	

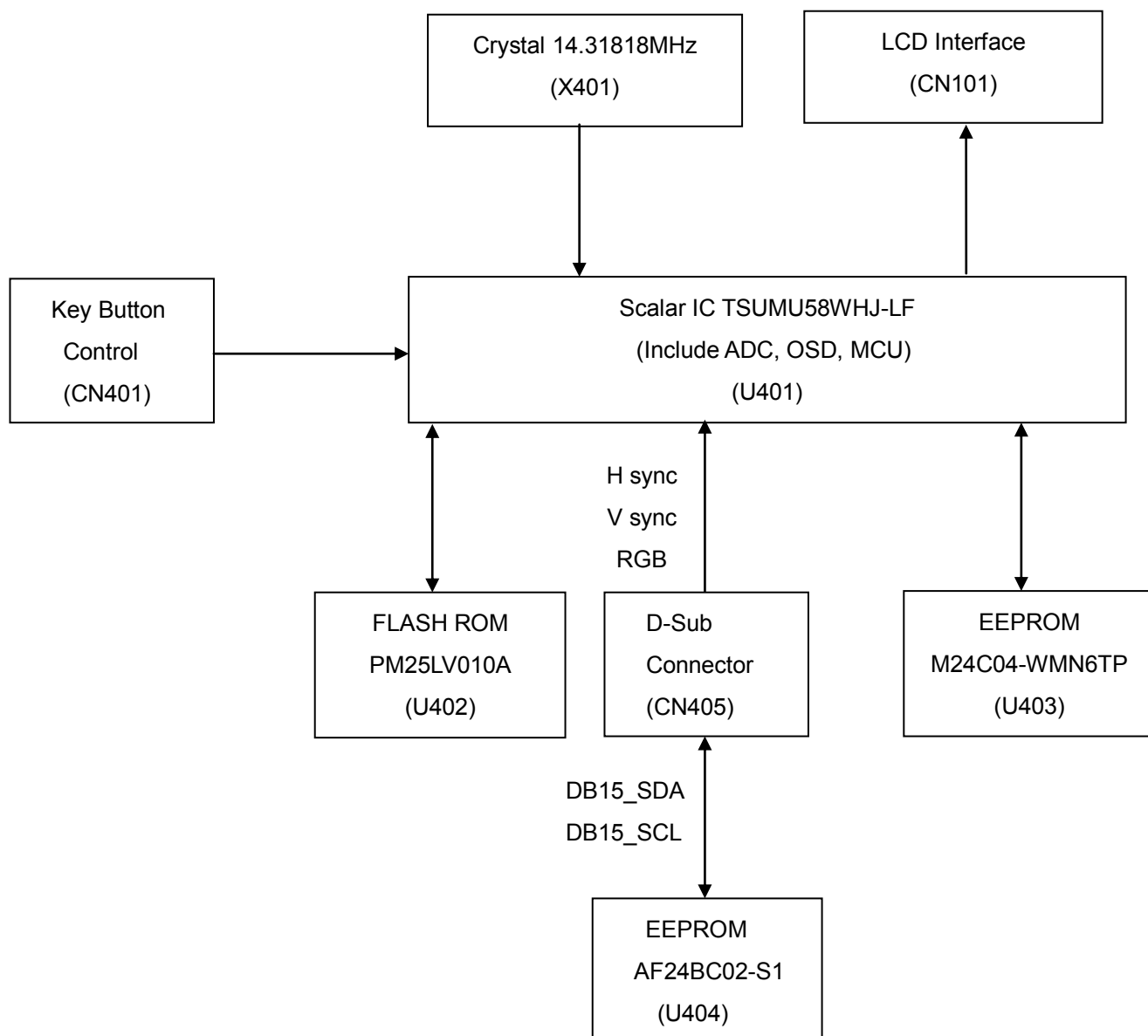
5. Block Diagram

5.1 Software Flow Chart

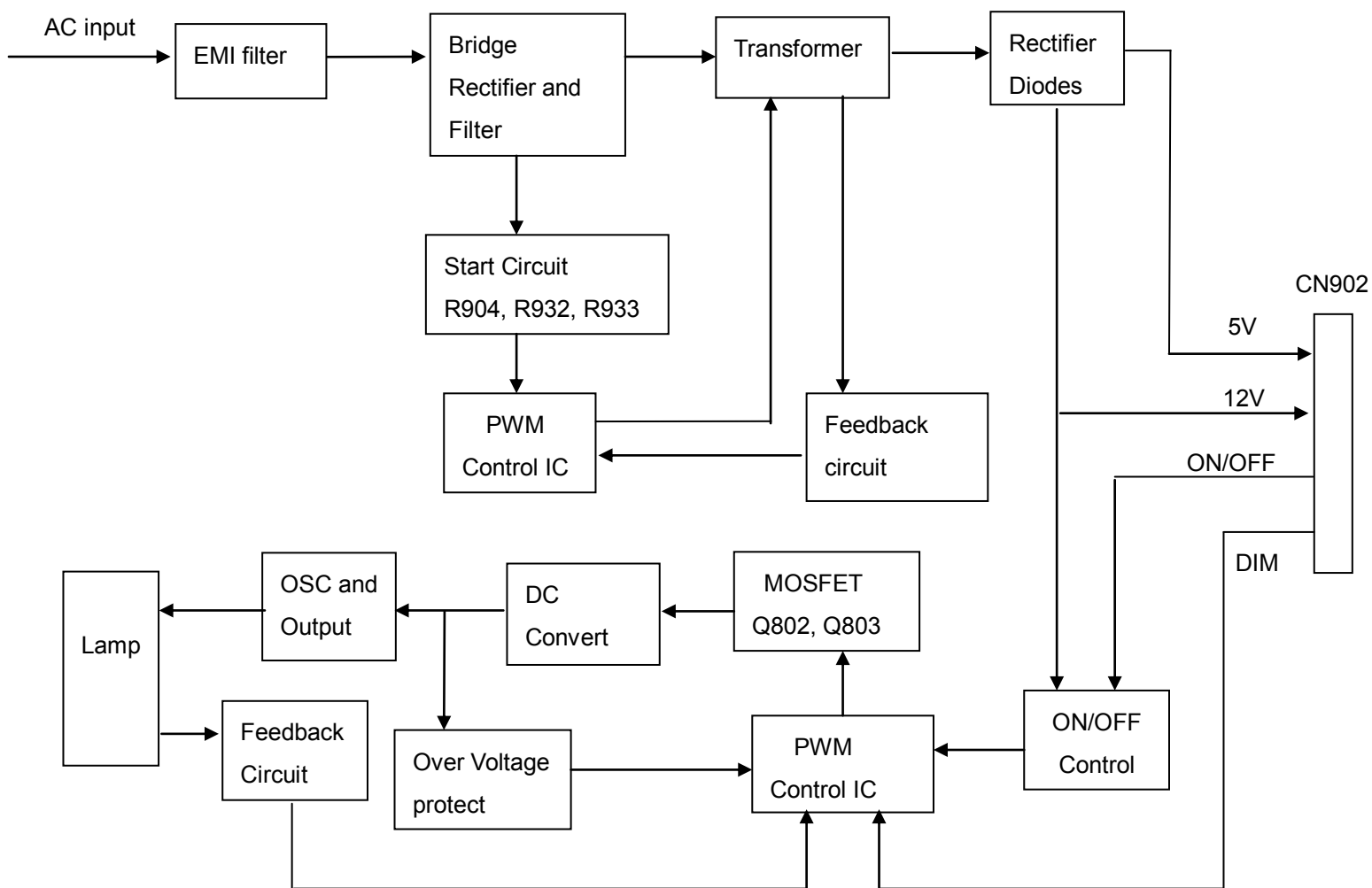


- 1) MCU initializes.
- 2) Is the EPROM blank?
- 3) Program the EPROM by default values.
- 4) Get the PWM value of brightness from EPROM.
- 5) Is the power key pressed?
- 6) Clear all global flags.
- 7) Are the AUTO and SELECT keys pressed?
- 8) Enter factory mode.
- 9) Save the power key status into EPROM.
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?

5.2.1 Main Board

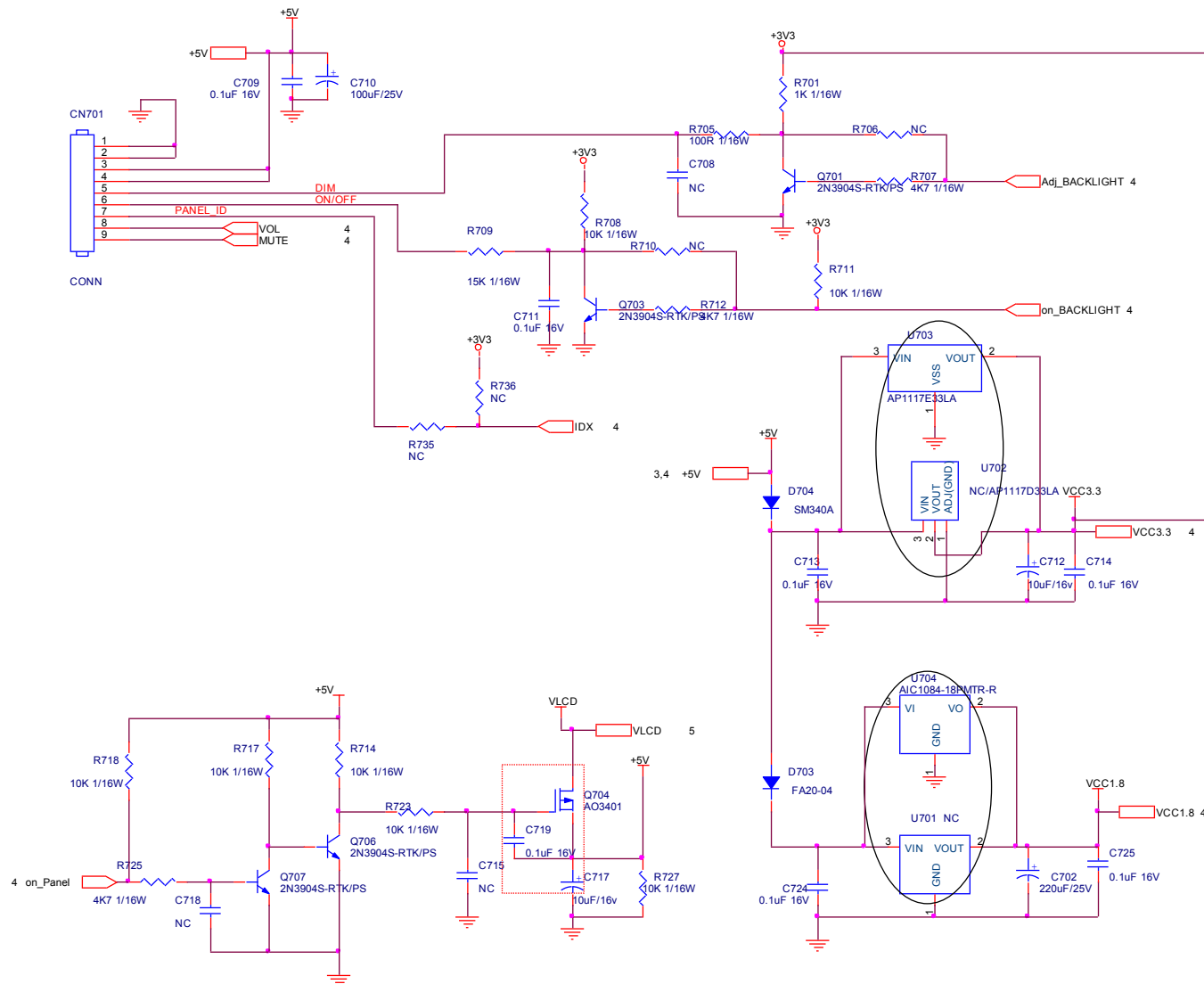


5.2.2 Power Board

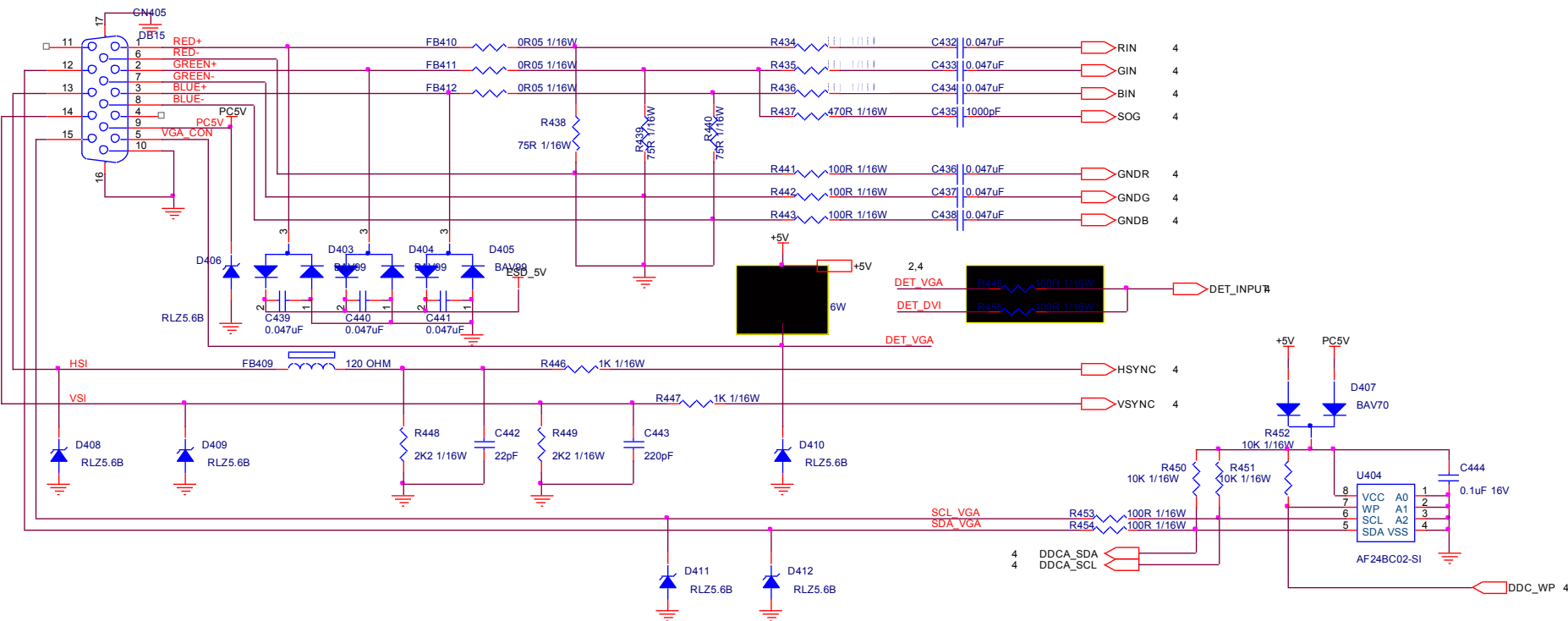


6. Schematic

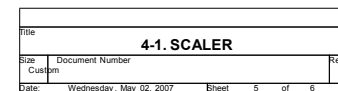
6.1 Main Board

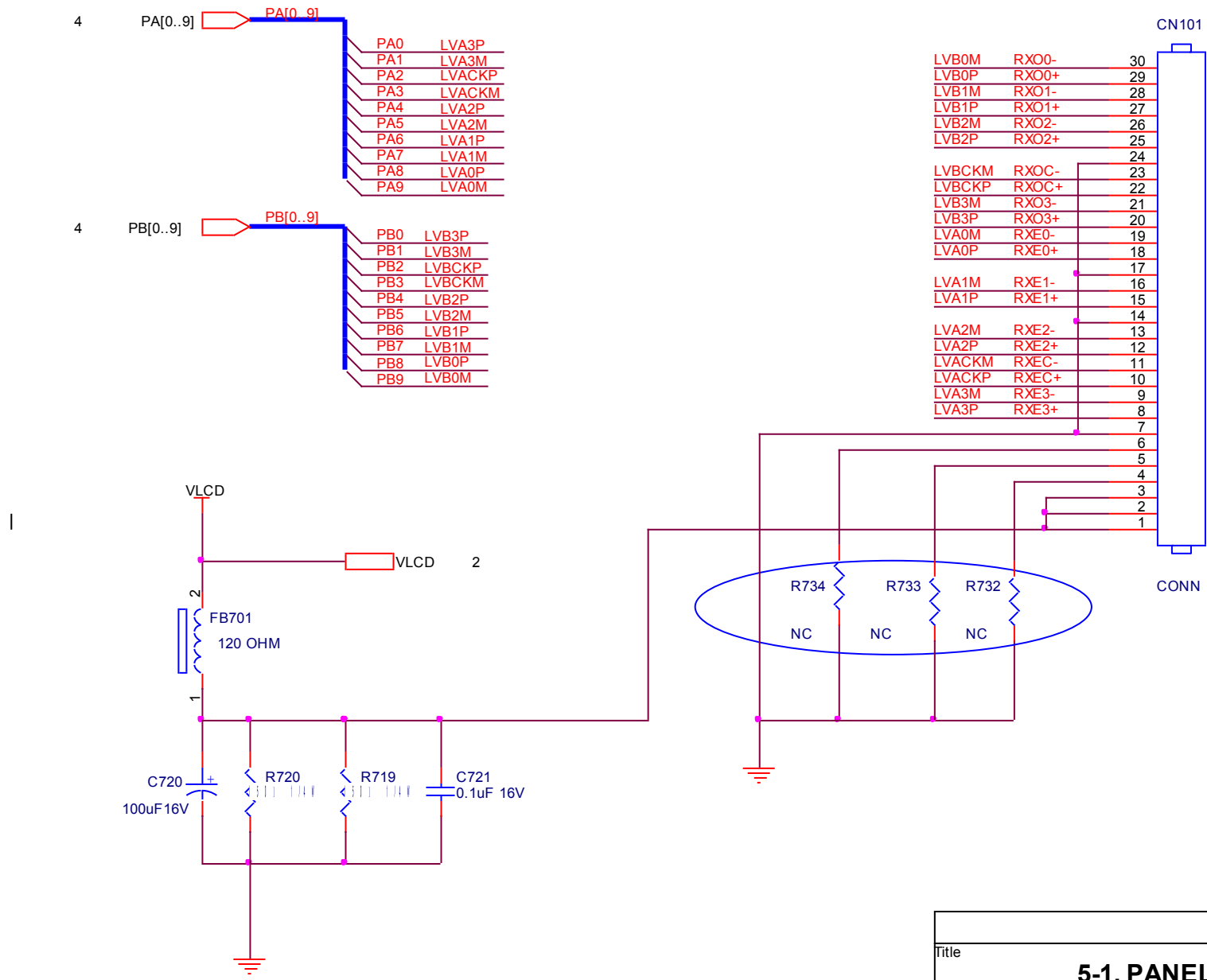


Title		
2-1. POWER		
Size	Document Number	Rev
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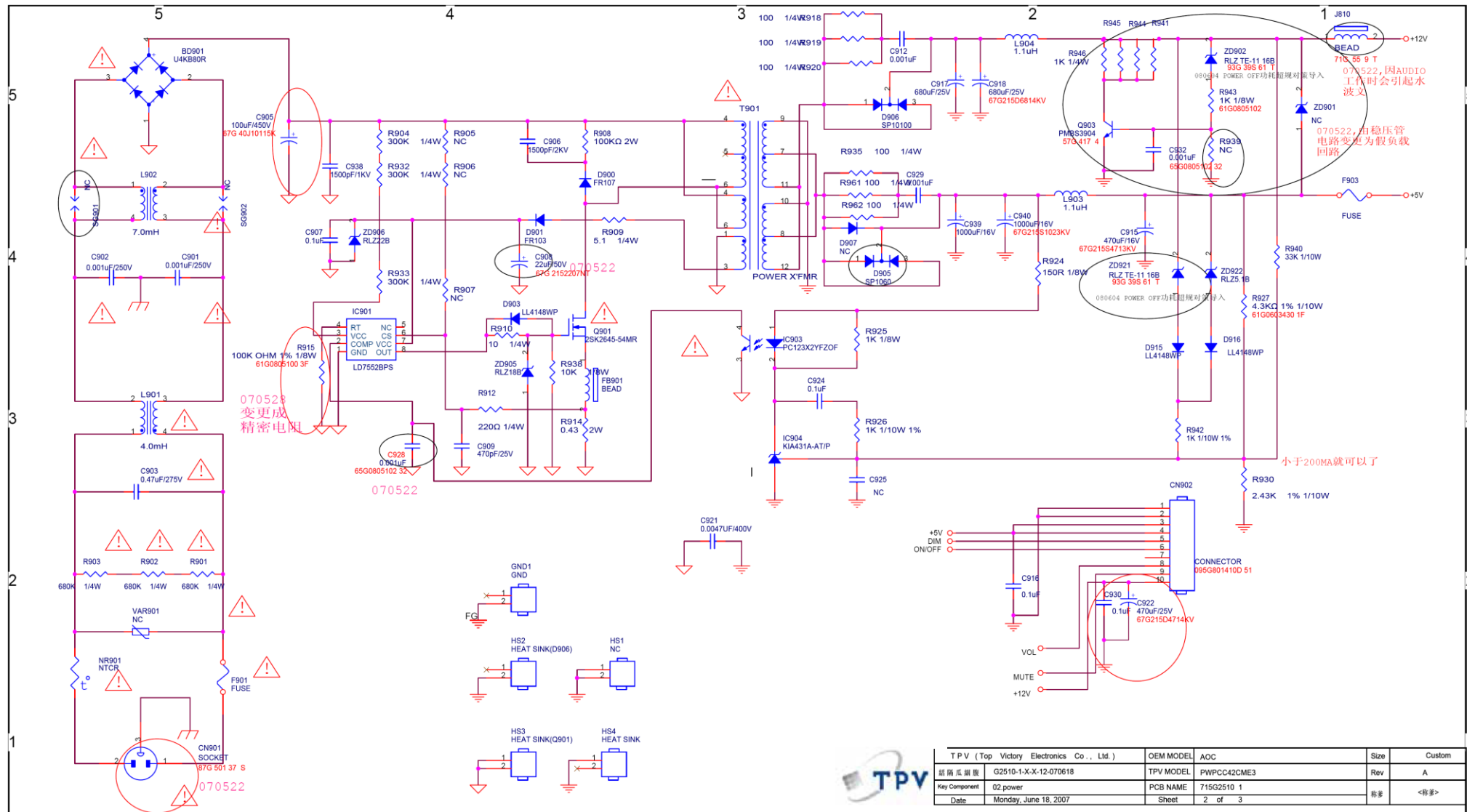


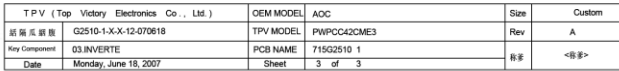
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3-1. INPUT			
Size B	Document Number		Rev B
Date:	Wednesday, May 02, 2007	Sheet 4 of 6	

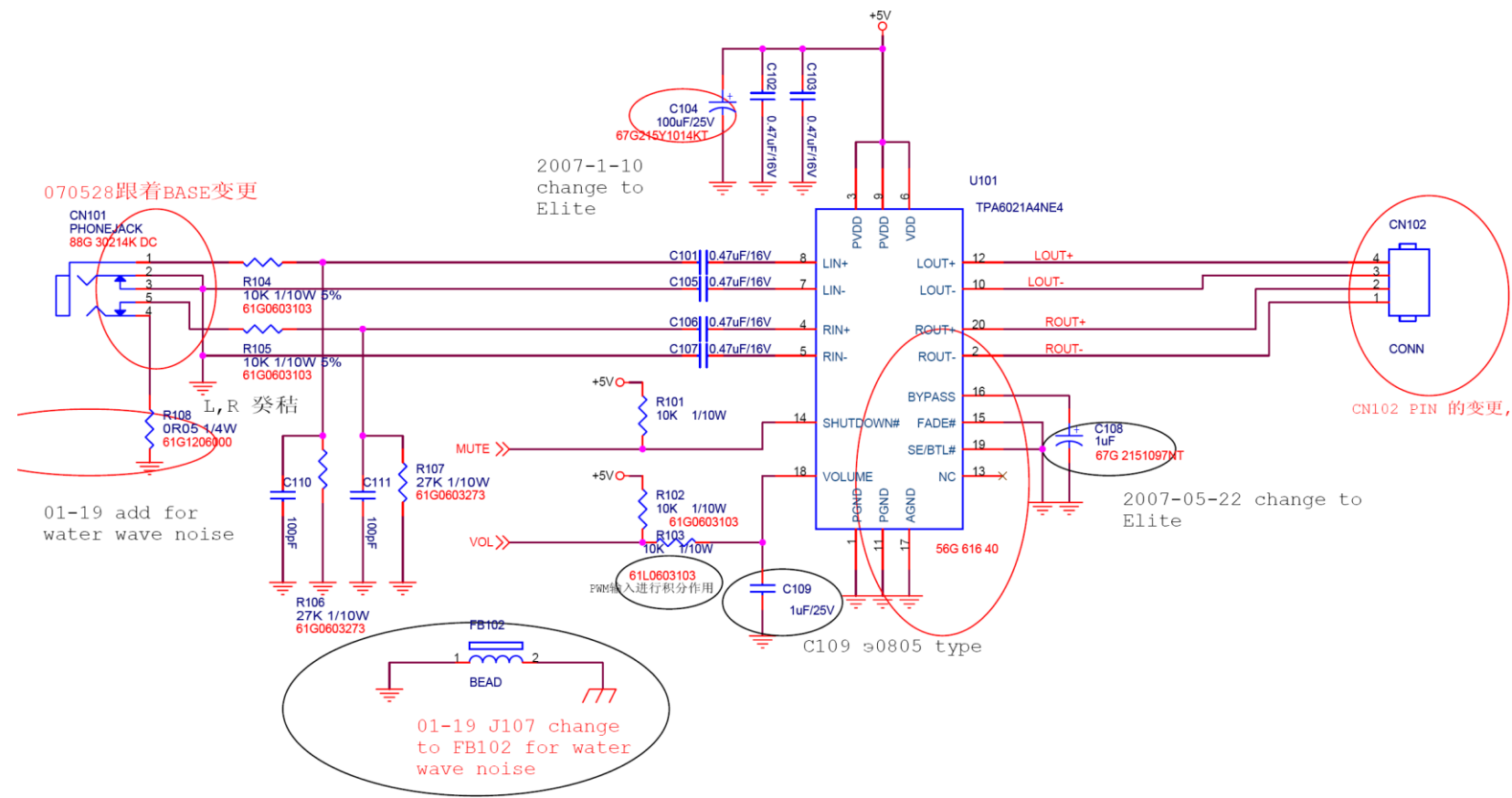




Title		
5-1. PANEL INTERFACE		
Size A	Document Number	Rev B
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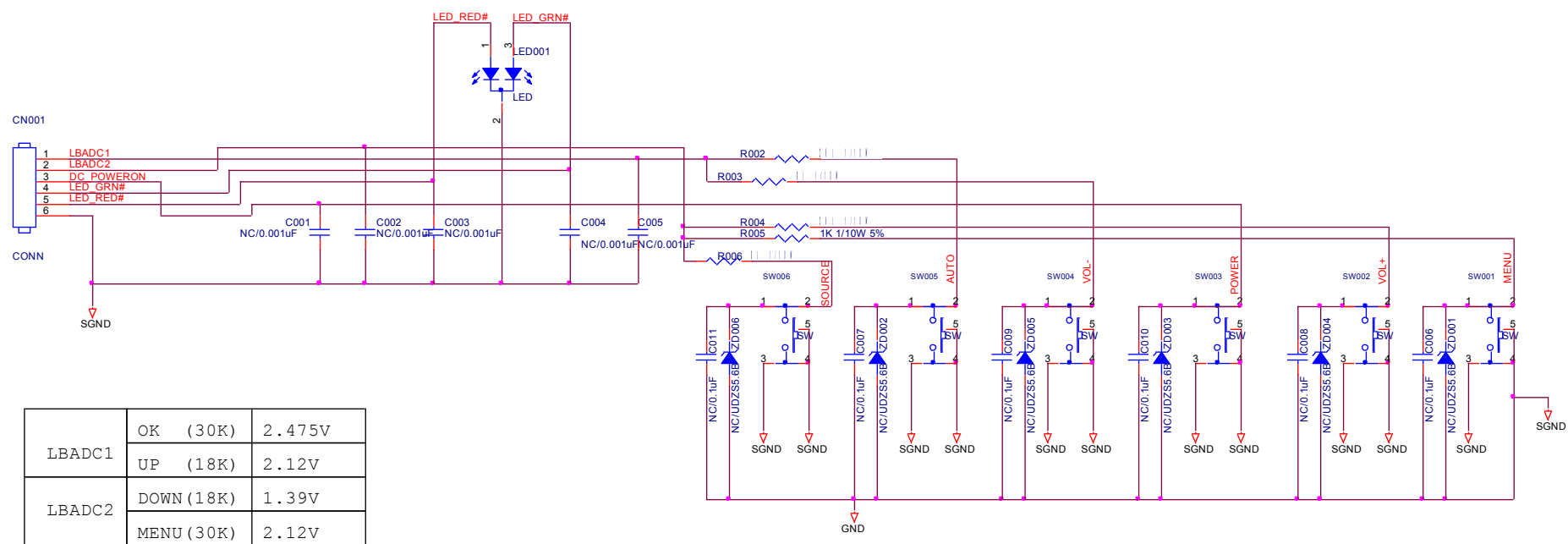




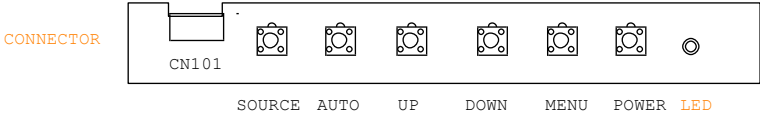


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	AOC	Size	B
结隔瓜 網版	G2510-1-X-X-12-070618	TPV MODEL	PWPCC42CME3	Rev
Key Component	04.AUDIO	PCB NAME	715G2510 1	A
Date	Monday, June 18, 2007	Sheet	3 of 3	陈彦
				<陈彦>

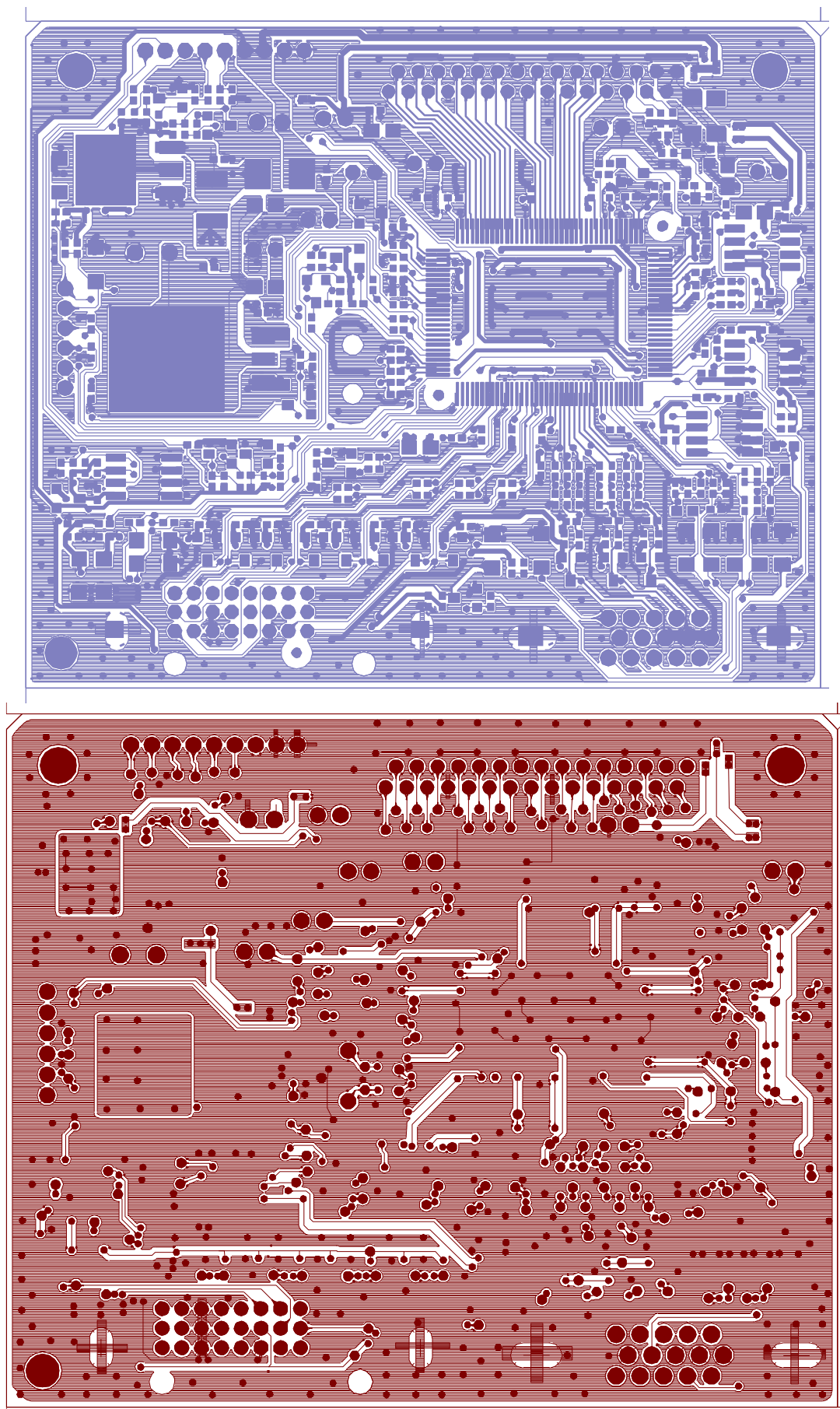
6.3 Key Board

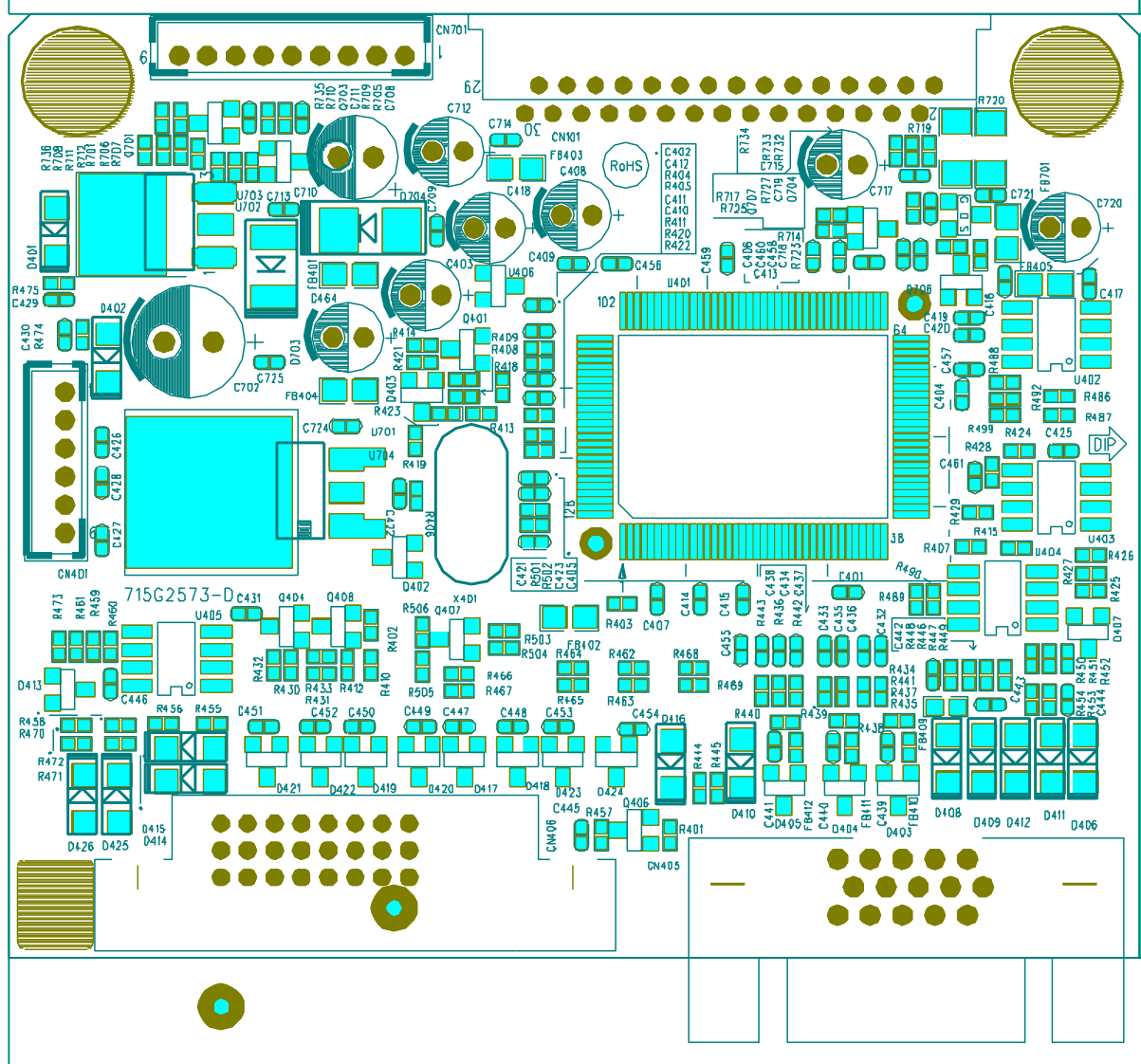


LBADC1	OK (30K)	2.475V
	UP (18K)	2.12V
LBADC2	DOWN (18K)	1.39V
	MENU (30K)	2.12V

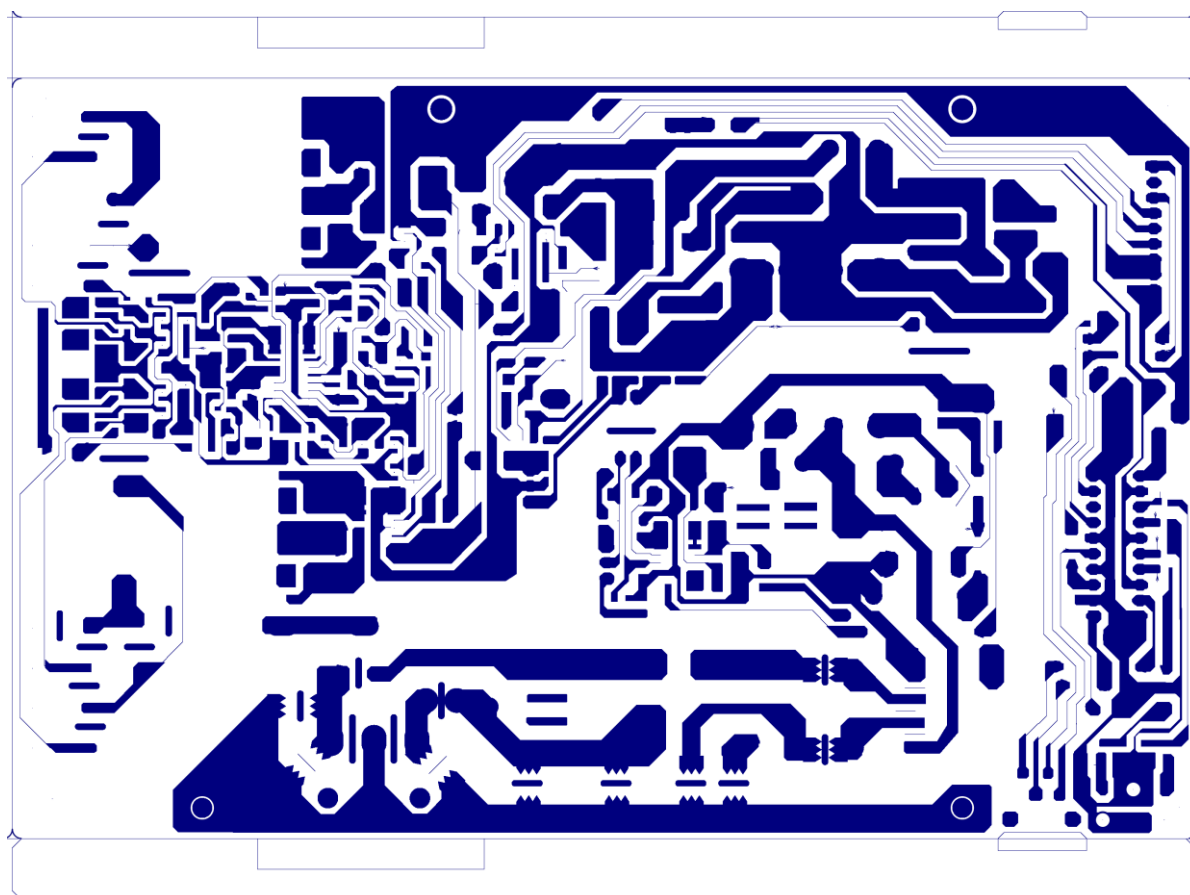
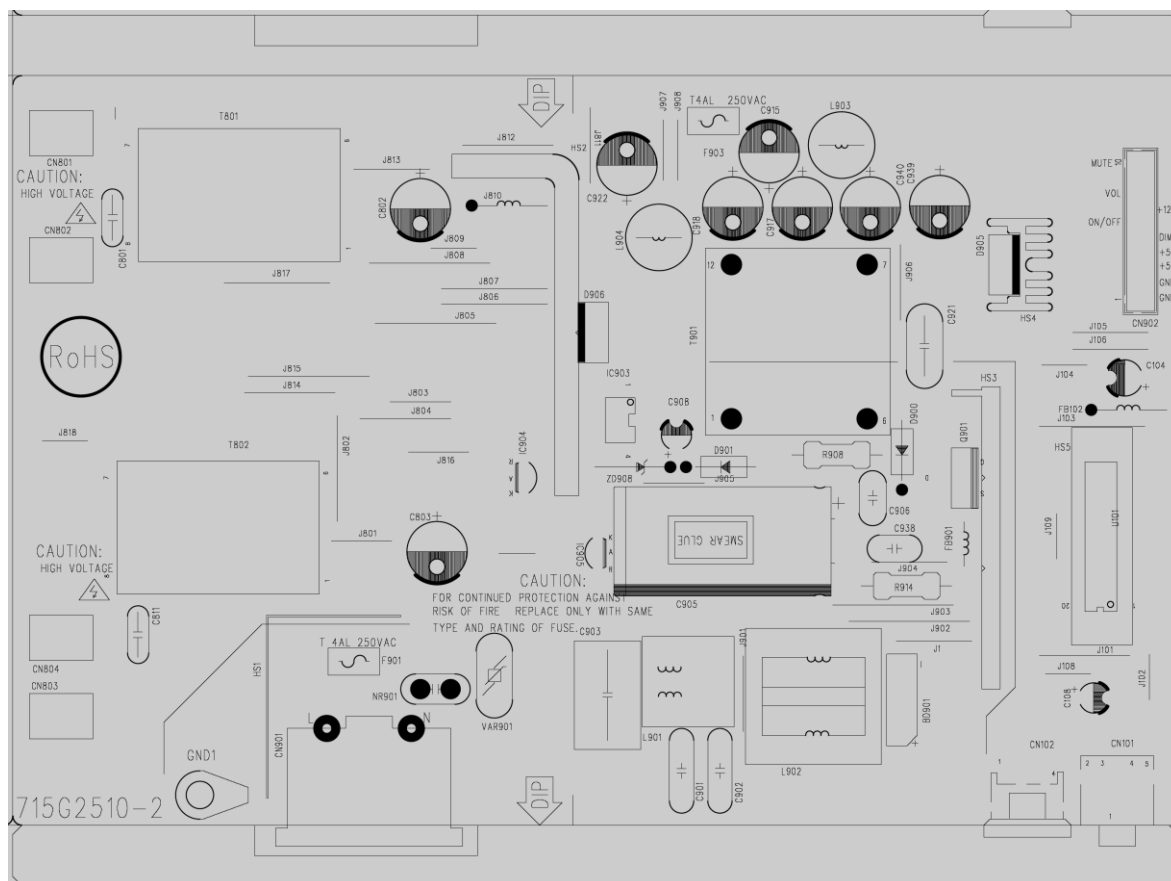


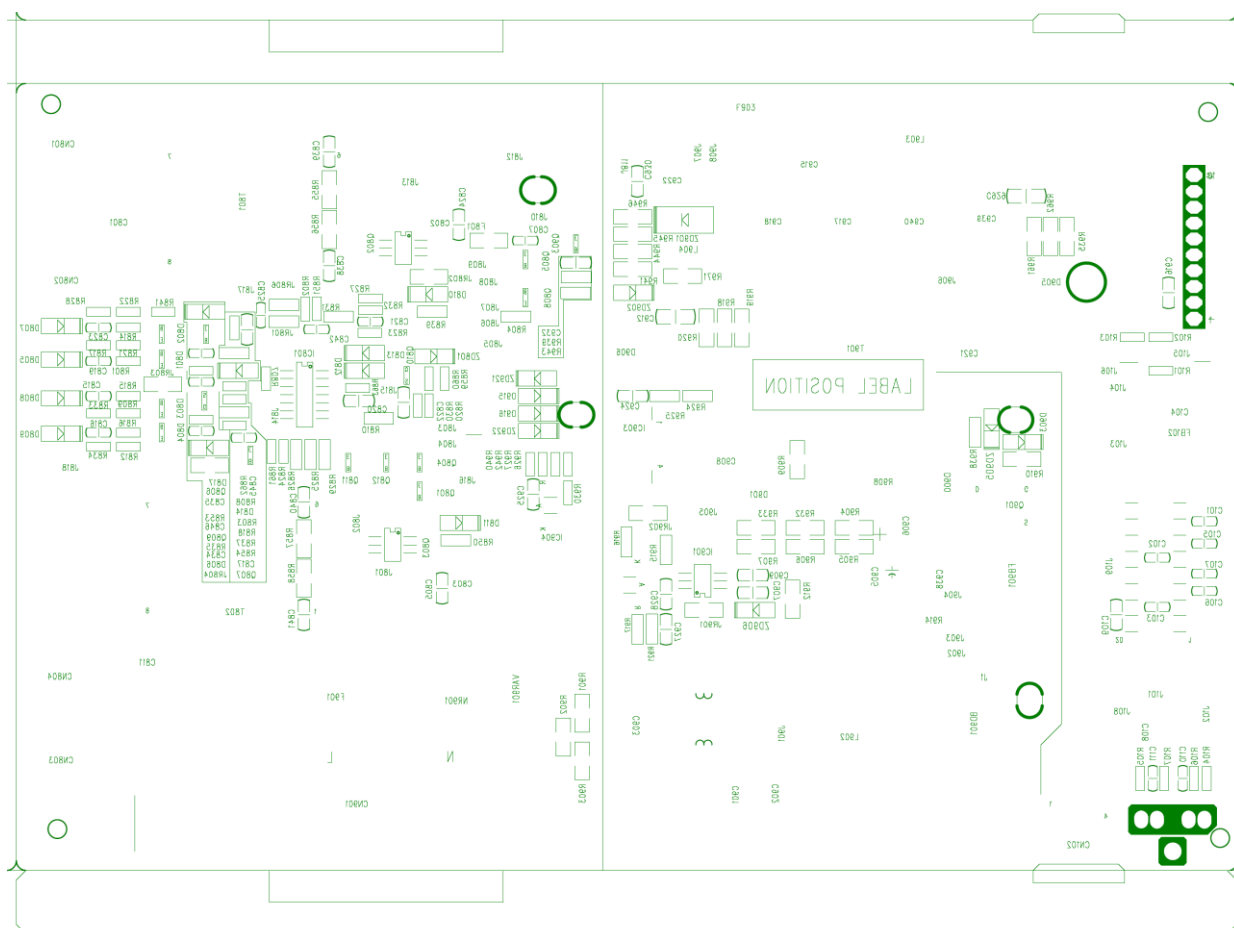
AOC (Top Victory) Electronics Co., Ltd.		
Title		
Keypad 20"W K2		
Size B	Document Number	Rev D
CONTROL KEY PAD (Switch)		
Date:	Monday, January 29, 2007	Sheet 1 of 1

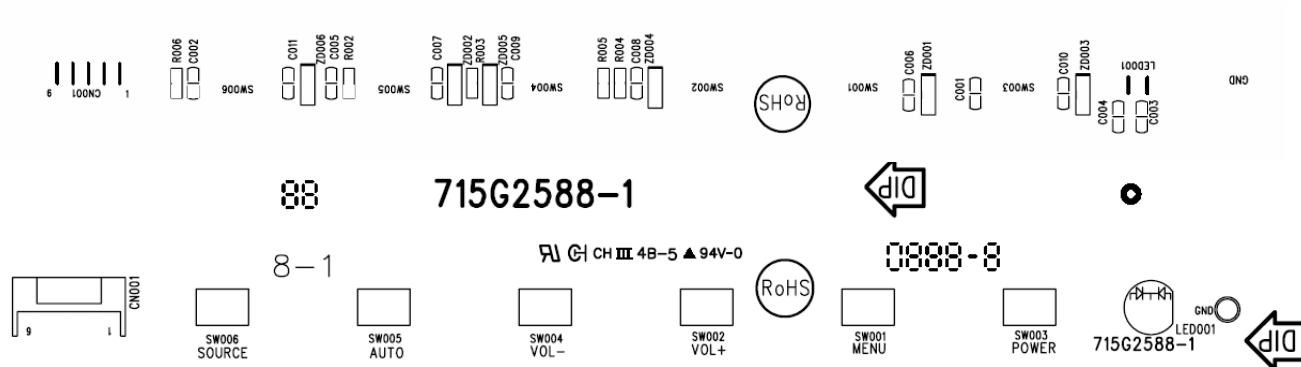
7. PCB Layout**7.1 Main Board**



7.2 Power Board







8. Maintainability

8.1 Equipments and Tools Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

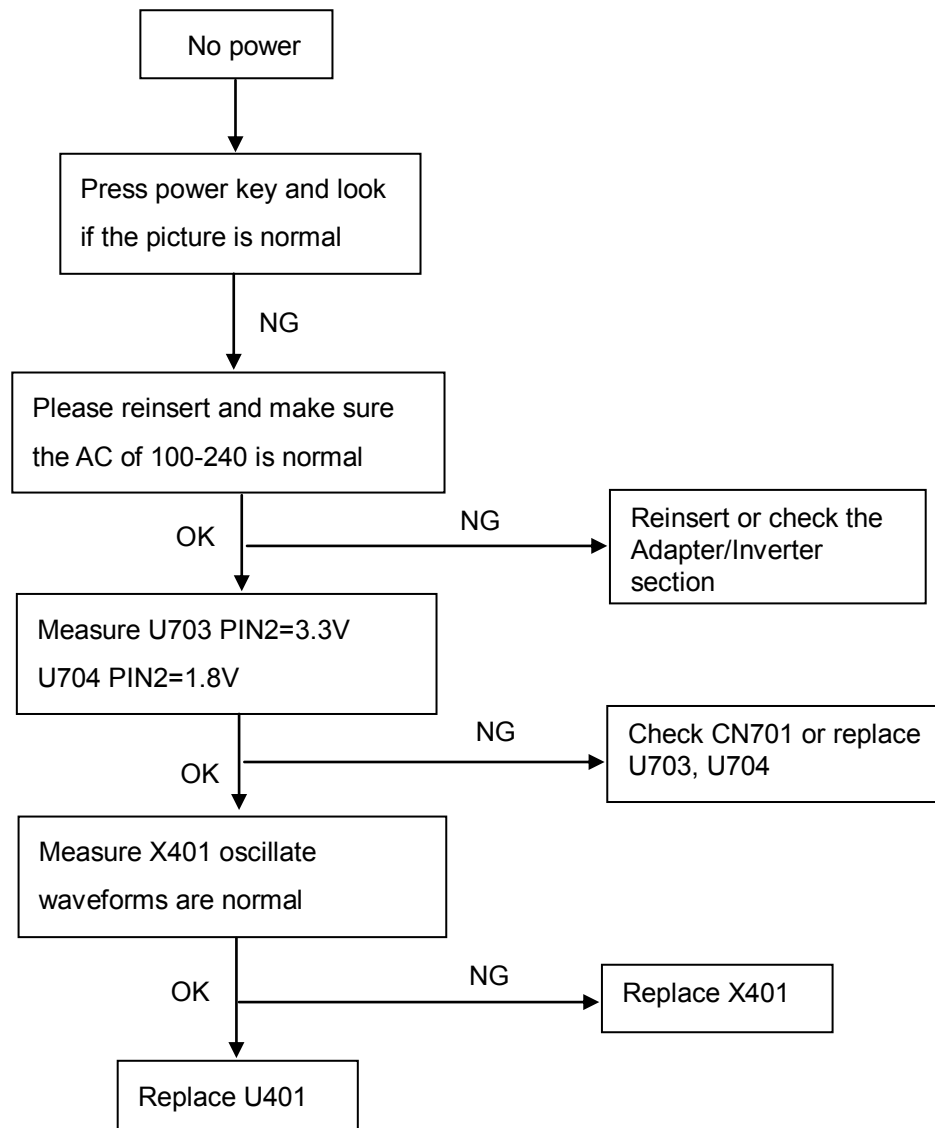
1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear. (Power indicator does not light up.)	<input type="checkbox"/> The Power Cable is firmly seated in the socket. <input type="checkbox"/> The Power Switch is turned ON. <input type="checkbox"/> The AC socket is live. Please check with another piece of equipment.
(Power indicator is green/blue.)	<input type="checkbox"/> If the blank screen saver is in active mode, touch the keyboard or the mouse. <input type="checkbox"/> Increase the Contrast and/or Brightness. <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	<input type="checkbox"/> If the monitor is in power management mode, touch the keyboard or the mouse. <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	<input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. <input type="checkbox"/> The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	<input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	<input type="checkbox"/> The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	<input type="checkbox"/> The power voltage is within the specification of the monitor. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.

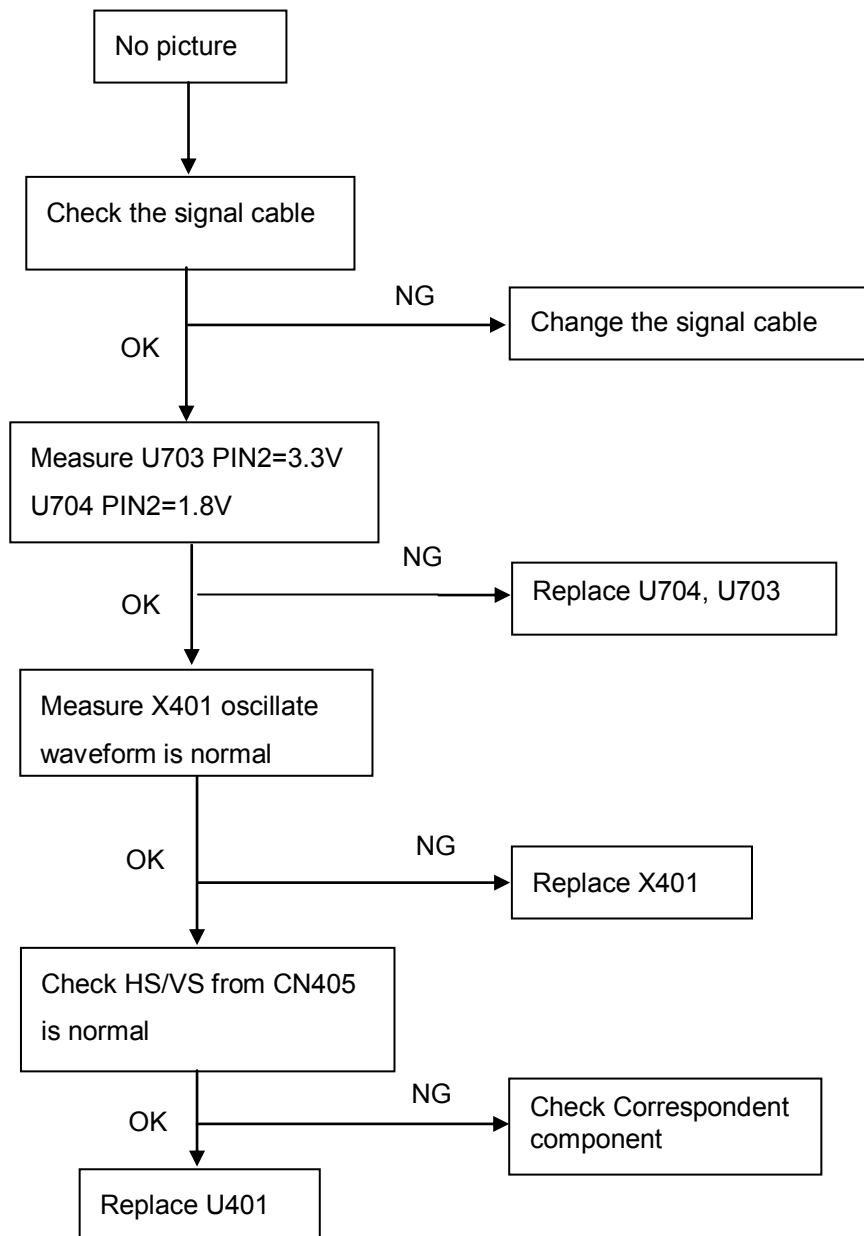
8.2 Trouble Shooting

8.2.1 Main Board

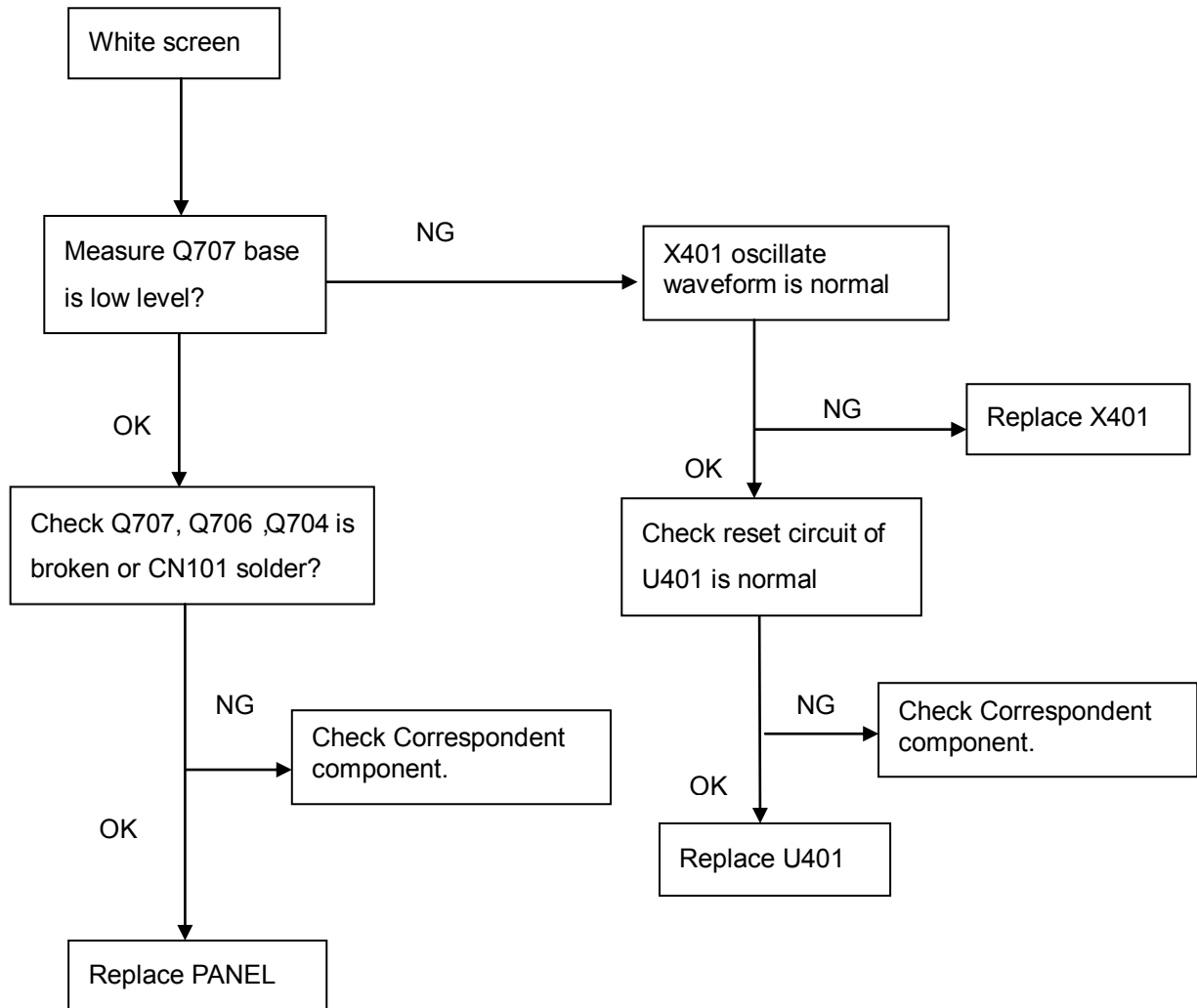
No Power

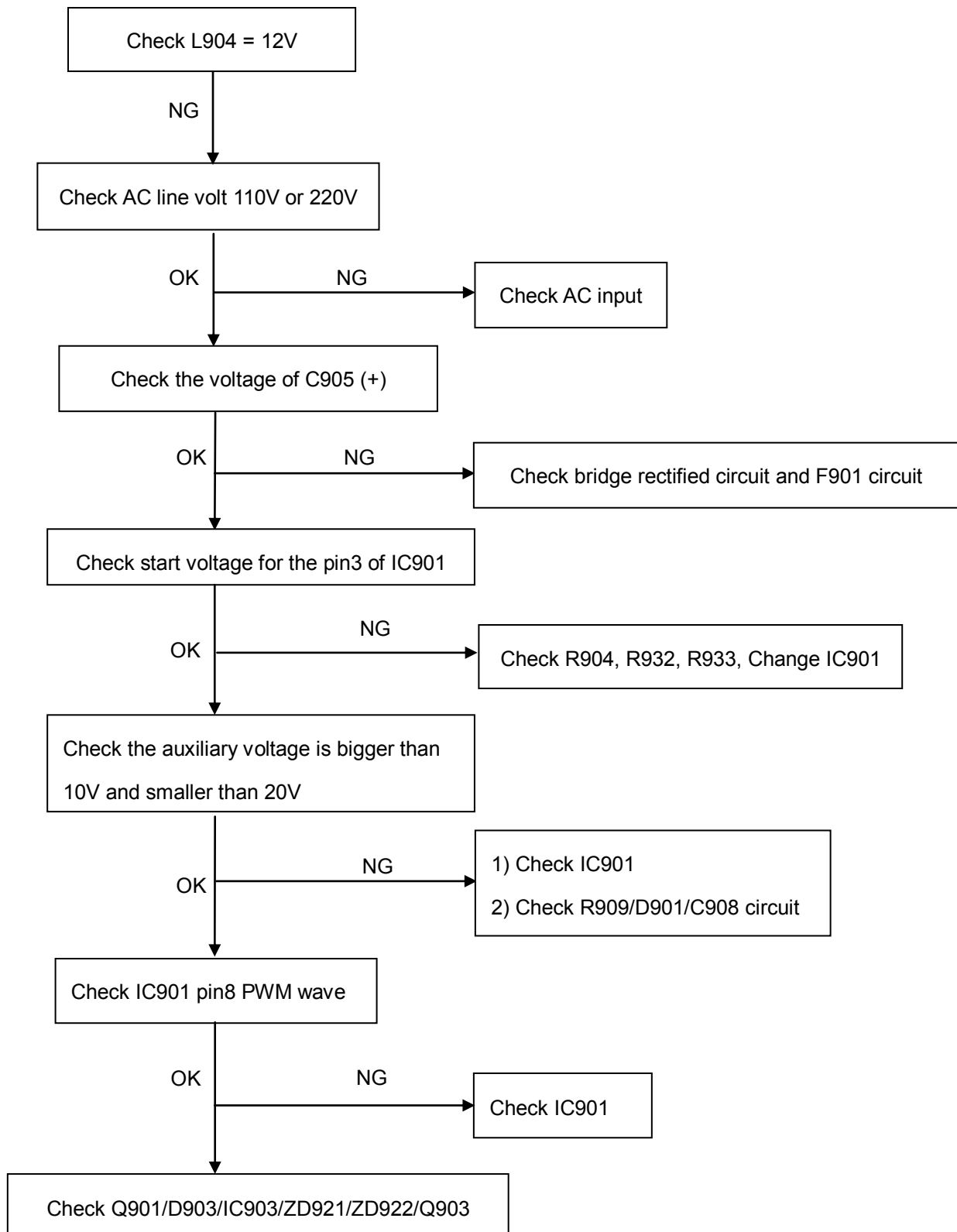


No Picture

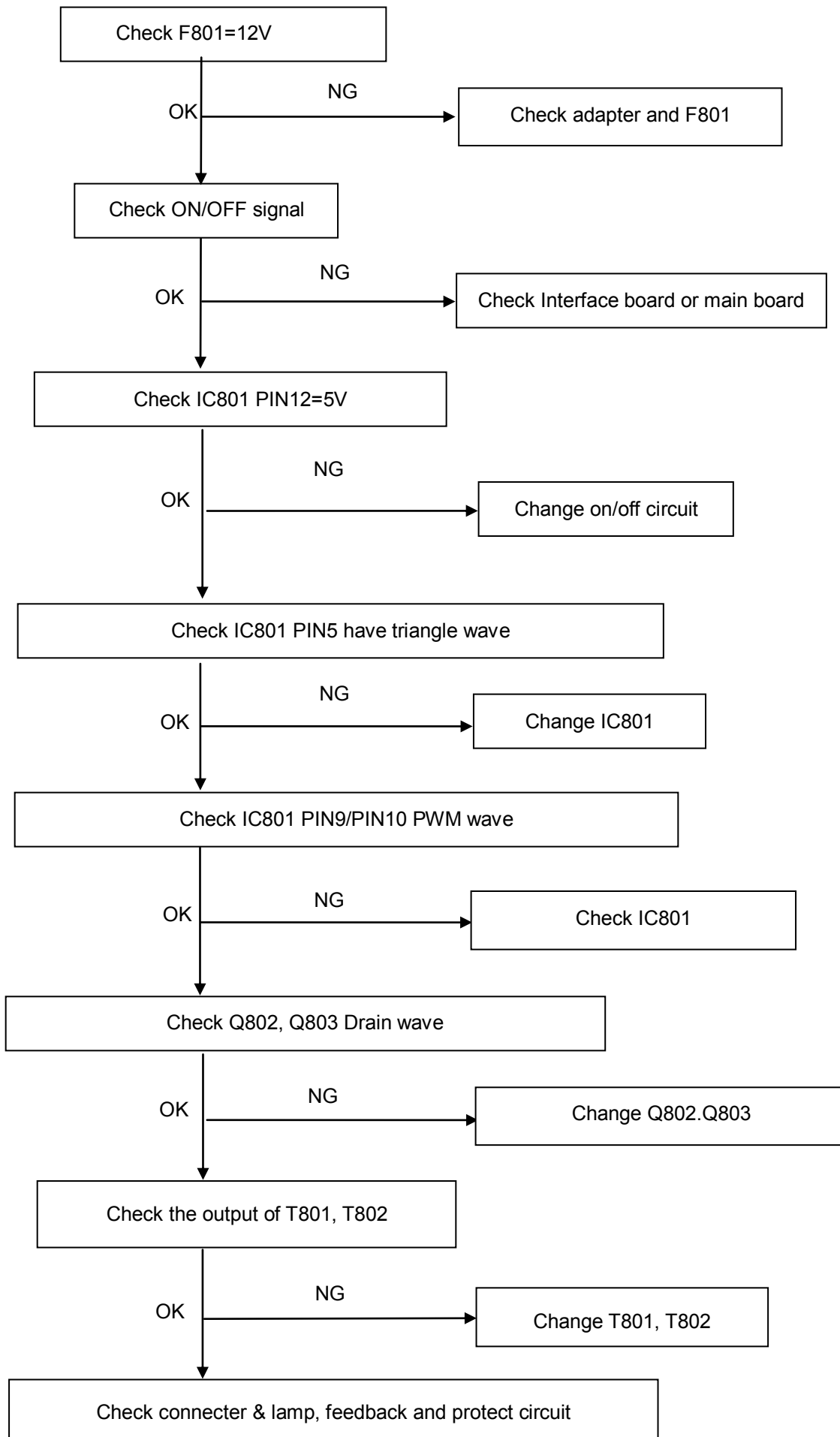


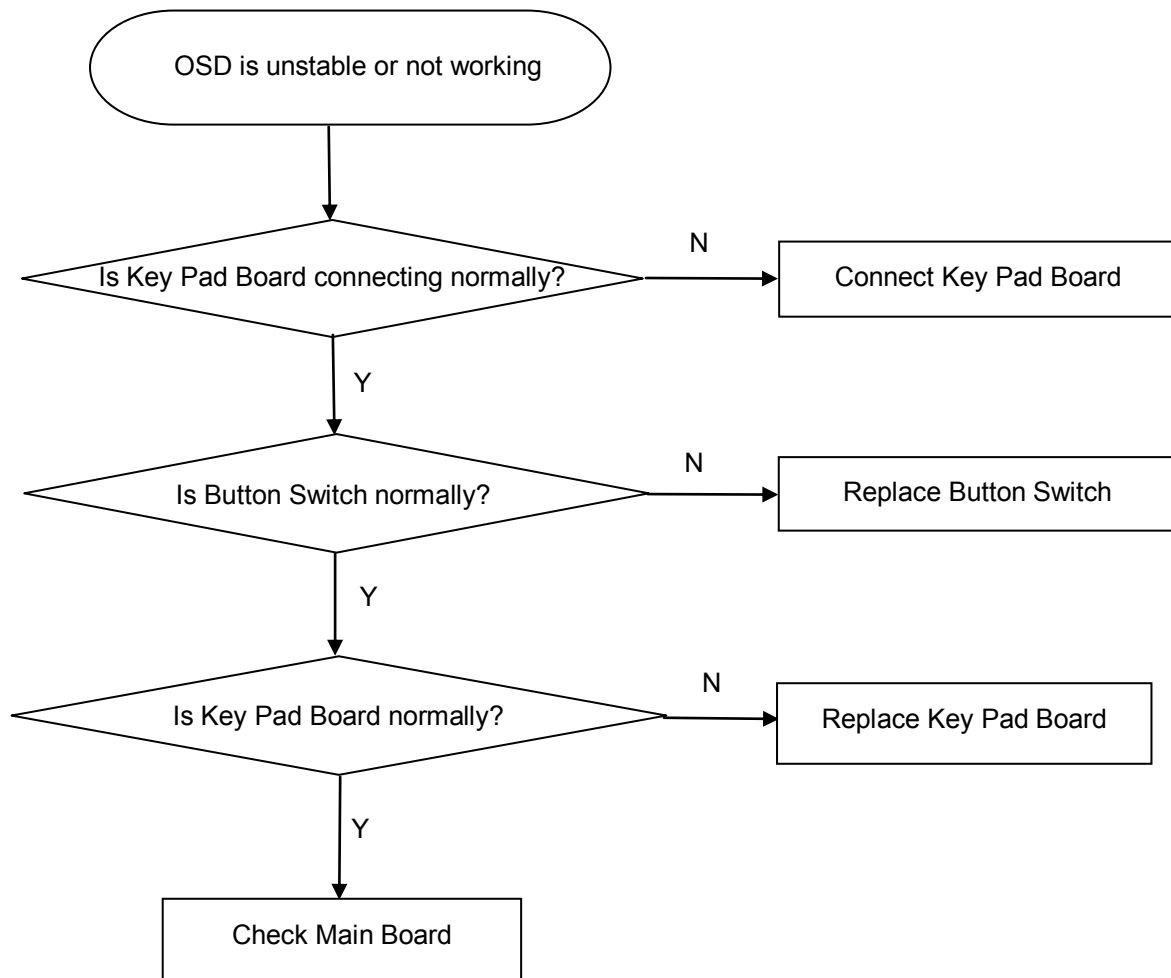
White Screen



8.2.2 Power Board**1) No power**

2.) No Backlight



8.2.3 Key Board

9. White- Balance, Luminance Adjustment

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

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Warm (6500K) color, MEM Channel 4 to Normal (7300K) color, MEM Channel 9 to Cool (9300K) color , and MEM Channel 10 to sRGB color (our Warm color parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y=180\text{cd/m}^2$; Normal color parameter is $x = 301 \pm 20$, $y = 317 \pm 20$, $Y=180\text{cd/m}^2$; Cool color parameter is $x = 283 \pm 20$, $y = 297 \pm 20$, $Y=180\text{cd/m}^2$; sRGB color parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y= 180\text{cd/m}^2$)

How to setting MEM channel you can reference to chroma 7120 user guide or simple use “ SC” key and

“ NEXT” Key to modify xyY value and use “ID” key to modify the TEXT description Following is the procedure to do white-balance adjust .

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (Warm color):

Warm color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y=180\text{cd/ m}^2$

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is $x = 301 \pm 20$, $y = 317 \pm 20$, $Y=180\text{cd/ m}^2$

C. MEM.CHANNEL 9 (Cool color):

Cool color temp. parameter is $x = 283 \pm 20$, $y = 297 \pm 20$, $Y=180\text{cd/m}^2$

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y= 180\text{cd/m}^2$

3. Into Factory mode of 2216Sa:

Press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

Set the **Contrast**  to 50; Adjust the **Brightness**  to 80.

5. Gain adjustment:

Move cursor to “-F-” and press MENU key

A. Adjust Warm (6500K) color-temperature

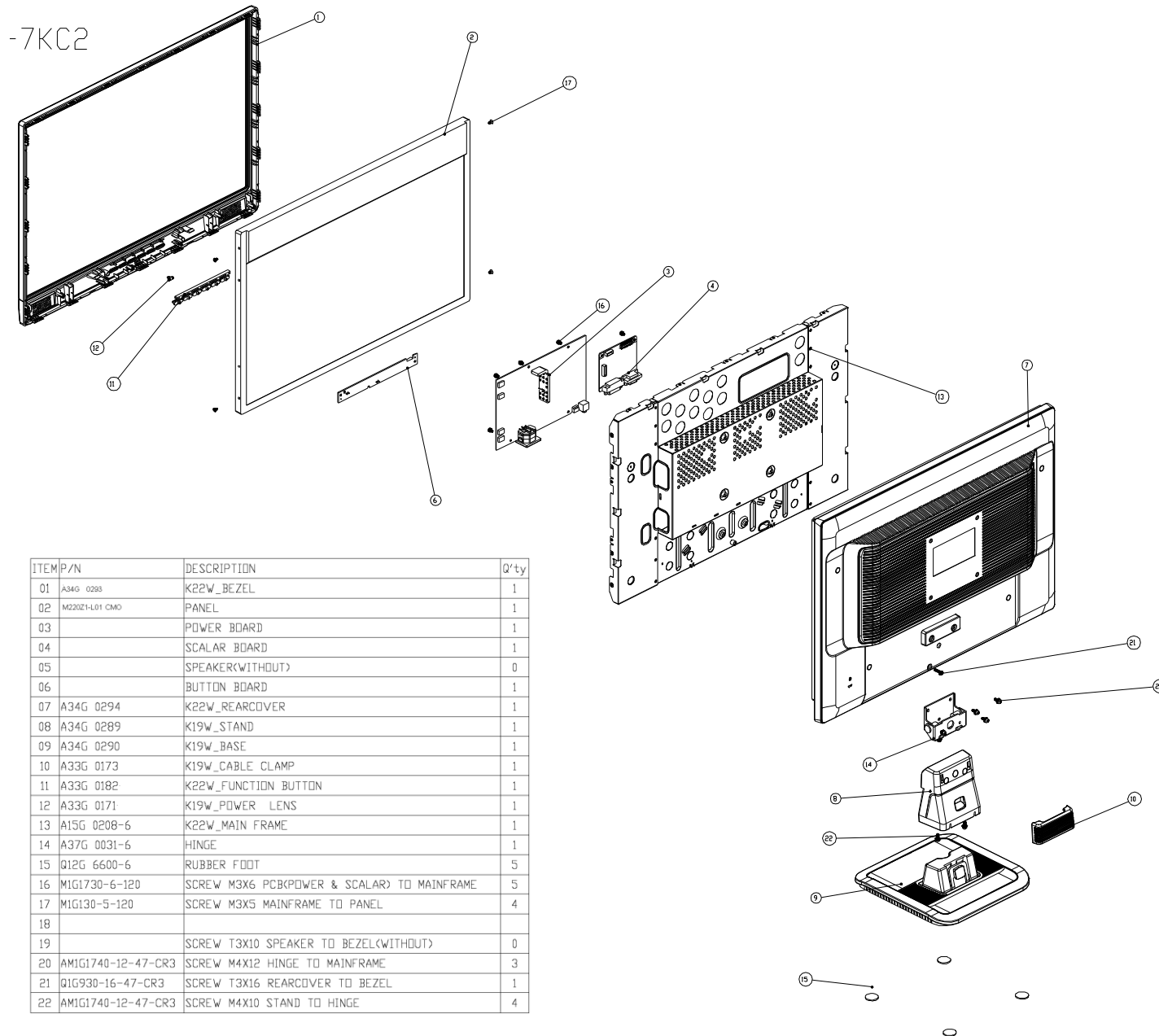
1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y=180\text{cd/m}^2$
4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

B. Adjust Normal (7300K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 4 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 301 \pm 20$, $y = 317 \pm 20$, $Y=180\text{cd/m}^2$
4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value $R=100$

5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- C. Adjust Cool (9300K) color-temperature
1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
 2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show $x = 283 \pm 20$, $y = 297 \pm 20$, $Y=180\text{cd/m}^2$
 4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- D. Adjust sRGB color-temperature
1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
 2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y= 180\text{cd/m}^2$
 4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100\pm2$
- E. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



11. BOM List**TC7MMADBAWA1AN**

Location	TPV Part No.	Description
	044GH600 1	HANDLE 2
	050G 600 4	HANDLE 1
	052G 1186	SMALL TAPE
	052G 1211 A	165MINIUM TAPE
	078G 311 12 Y	SPK 8 OHM 2 W 300MM 57.5X23MM SUNLINK
	089G 17356G554	AUDIO CABLE
	089G 725GAA DB	D-SUB
	089G404A15N YH	POWER CORD
	095G8014 6D665	HARNESS 6P-6P 170MM
	0M1G 130 5120	SCREW
	0M1G1730 6120	SCREW
	0M1G1730 6120	SCREW
	0Q1G 930 16 47 CR3	SCREW
	705GQ734301	22"LCD STAND-BASE ASS'Y
	A34G0289 AS 1B	STAND
	A34G0290 AS 1B 33	BASE 7S7
	A37G0031 6	HIGNE
	AM1G1740 12120	SCREW
	705GQ734386	22"LCD BEZEL ASS'Y
	0Q1G1830 10120	SCREW
	A33G0177ABJ 1L	FUNCTION BUTTON
	A33G0182 1 1C	POWER LENS
	A34G0293 ASA2B 30	BEZEL(22")
	750GLMC0Z1112N	PANEL LCD M220Z1-L01 CMO
	A15G0208 9	MAINFRAME_CMO
	A33G0173 AS 1L 32	CABLE CLAMP
	A34G0294ABJA8B	REAR COVER((L22W-7K2-S1)
	AM1G1740 12 47 CR3	SCREW
	CBPC7MMAA2Q1	MAIN BOARD
CN401	033G3802 6	WAFER
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH
CN101	033G801930F CH JS	CONNECTOR
	040G 457624 1B	LABEL-CPU
	040G 45762412B	CBPC LABEL
C408	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C418	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C712	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V

C717	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C710	067G215V101 4N	KY25VB100M-CC3(6.3*11)
C702	067G215V221 4N	KY25VB220-M-CC3 8*11.5MM
C464	067G215Y2207RV	RUBYCON 50V 22UF
C720	067G215Y2207RV	RUBYCON 50V 22UF
C403	067G215Y4797RV	EC 105°C CAP 4.7UF M 50V
CN405	088G 35315F H	D-SUB 15PIN
X401	093G 2253B J	14.31818MHZ/85C
U401	056G 562149	IC TSUMU58WHJ-LF PQFP-128
U704	056G 563 34	IC AIC1084-18PMTR-R AIC
U703	056G 585 4A	AP1117E33LA
U403	056G1133 32	IC M24C04-WMN6TP SO8
U404	056G1133 84	AF24BC02-S1
U402	056G1133713(WA7MAPCMAQ2)	IC PM25LV010A-100SCE SOIC-8
Q402	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q404	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q701	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q703	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q706	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q707	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q401	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q403	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q704	057G 763 1	A03401 SOT23 BY AOS(A1)
R709	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R506	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R503	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R499	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R432	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB412	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB411	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R427	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W

R443	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R445	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R453	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R454	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R488	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R705	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R505	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R447	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R446	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R430	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R412	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R701	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R727	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R723	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R717	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R714	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R444	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R450	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R451	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R452	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R487	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R489	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R490	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R708	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R711	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R424	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R415	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R419	061G0402121	RST CHIP 120R 1/16W 5%
R501	061G0402200	RST CHIP 20R 1/16W 5%
R502	061G0402200	RST CHIP 20R 1/16W 5%
R448	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R449	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R405	061G0402223	RST CHIPR 22 KOHM +-5% 1/16W
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%

R474	061G0402392	RST CHIP 3.9K 1/16W 5%
R475	061G0402392	RST CHIP 3.9K 1/16W 5%
R437	061G0402471	RST CHIPR 470 OHM +-5% 1/16W
R725	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R712	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R707	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R433	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R423	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R422	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R434	061G0402560	RST CHIP 56R 1/16W 5%
R435	061G0402560	RST CHIP 56R 1/16W 5%
R436	061G0402560	RST CHIP 56R 1/16W 5%
R409	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R414	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R421	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R438	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R439	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R440	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R719	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
R720	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
C435	065G0402102 32	1000PF +-10% 50V X7R
C724	065G0402104 12	CHIP 0.1UF 50V X7R
C725	065G0402104 12	CHIP 0.1UF 50V X7R
C410	065G0402104 12	CHIP 0.1UF 50V X7R
C411	065G0402104 12	CHIP 0.1UF 50V X7R
C412	065G0402104 12	CHIP 0.1UF 50V X7R
C413	065G0402104 12	CHIP 0.1UF 50V X7R
C414	065G0402104 12	CHIP 0.1UF 50V X7R
C415	065G0402104 12	CHIP 0.1UF 50V X7R
C416	065G0402104 12	CHIP 0.1UF 50V X7R
C461	065G0402104 12	CHIP 0.1UF 50V X7R
C460	065G0402104 12	CHIP 0.1UF 50V X7R
C459	065G0402104 12	CHIP 0.1UF 50V X7R
C458	065G0402104 12	CHIP 0.1UF 50V X7R
C457	065G0402104 12	CHIP 0.1UF 50V X7R
C456	065G0402104 12	CHIP 0.1UF 50V X7R
C455	065G0402104 12	CHIP 0.1UF 50V X7R
C444	065G0402104 12	CHIP 0.1UF 50V X7R
C430	065G0402104 12	CHIP 0.1UF 50V X7R
C429	065G0402104 12	CHIP 0.1UF 50V X7R

C428	065G0402104 12	CHIP 0.1UF 50V X7R
C427	065G0402104 12	CHIP 0.1UF 50V X7R
C426	065G0402104 12	CHIP 0.1UF 50V X7R
C422	065G0402104 12	CHIP 0.1UF 50V X7R
C420	065G0402104 12	CHIP 0.1UF 50V X7R
C419	065G0402104 12	CHIP 0.1UF 50V X7R
C709	065G0402104 12	CHIP 0.1UF 50V X7R
C711	065G0402104 12	CHIP 0.1UF 50V X7R
C713	065G0402104 12	CHIP 0.1UF 50V X7R
C714	065G0402104 12	CHIP 0.1UF 50V X7R
C721	065G0402104 12	CHIP 0.1UF 50V X7R
C409	065G0402104 12	CHIP 0.1UF 50V X7R
C407	065G0402104 12	CHIP 0.1UF 50V X7R
C406	065G0402104 12	CHIP 0.1UF 50V X7R
C405	065G0402104 12	CHIP 0.1UF 50V X7R
C404	065G0402104 12	CHIP 0.1UF 50V X7R
C402	065G0402104 12	CHIP 0.1UF 50V X7R
C401	065G0402104 12	CHIP 0.1UF 50V X7R
C719	065G0402105 A5	CAP 0402 1UF K 10V X5R
C442	065G0402220 31	CHIP 22PF 50V NPO
C423	065G0402220 31	CHIP 22PF 50V NPO
C421	065G0402220 31	CHIP 22PF 50V NPO
C443	065G0402221 32	MLCC 0402 CAP 220PF J 50V X7R
C417	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C425	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C432	065G0402473 12	CHIP 0.047UF 16V X7R
C433	065G0402473 12	CHIP 0.047UF 16V X7R
C434	065G0402473 12	CHIP 0.047UF 16V X7R
C436	065G0402473 12	CHIP 0.047UF 16V X7R
C437	065G0402473 12	CHIP 0.047UF 16V X7R
C438	065G0402473 12	CHIP 0.047UF 16V X7R
C439	065G0402473 12	CHIP 0.047UF 16V X7R
C440	065G0402473 12	CHIP 0.047UF 16V X7R
C441	065G0402473 12	CHIP 0.047UF 16V X7R
FB701	071G 56K121	CHIP BEAD
FB401	071G 56K121	CHIP BEAD
FB402	071G 56Z601	CHIP BEAD 600 OHM 0805
FB403	071G 56Z601	CHIP BEAD 600 OHM 0805
FB404	071G 56Z601	CHIP BEAD 600 OHM 0805
FB405	071G 56Z601	CHIP BEAD 600 OHM 0805

FB409	071G 59B121	TB160808B
D407	093G 64 42 PP	BAV70 SOT-23
D403	093G 6433P	BAV99
D404	093G 6433P	BAV99
D405	093G 6433P	BAV99
D401	093G 39S 24 T	RLZ 5.6B LLDS
D402	093G 39S 24 T	RLZ 5.6B LLDS
D412	093G 39S 24 T	RLZ 5.6B LLDS
D411	093G 39S 24 T	RLZ 5.6B LLDS
D410	093G 39S 24 T	RLZ 5.6B LLDS
D409	093G 39S 24 T	RLZ 5.6B LLDS
D408	093G 39S 24 T	RLZ 5.6B LLDS
D406	093G 39S 24 T	RLZ 5.6B LLDS
D703	093G2004 2	DIODE SR24
D704	093G3004 3	SM340A
	715G2573 1	MAIN BOARD PCB
	J52G8025 11816	MYLAR
	KEPC7QE8	KEY BOARD
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0
SW006	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW001	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW002	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW003	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW004	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW005	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
LED001	081G 12 1 GP	LED GP32032M/R003-ZY-33
GND2	095G 900 77	WIRE HARNESS
R006	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R003	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R005	061G0603102	RST CHIP 1K 1/10W 5%
R004	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
R002	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
	715G2588 1	KEY BOARD PCB
	PWPCC42CME3	POWER BOARD
CN102	033G3802 4 DH JF	WAFER
CN801	033G8021 2E F	WAFER
CN802	033G8021 2E F	WAFER
CN803	033G8021 2E F	WAFER
CN804	033G8021 2E F	WAFER
	040G 45762412B	CBPC LABEL

	051G 6 4503	RTV 胶
IC903	056G 139 3A	IC PC123Y22FZ0F
U101	056G 616 40	IC EUA6021AII1 2.5W*2 DIP-20
NR901	061G 58080 WT	8 OHM NCT
R908	061G152M104 64	100KOHM 5% 2W
C903	063G 10747410V	0.47UF 275VAC ARCO
C801	065G 3J1006ET	10PF,J,3KV,SL
C811	065G 3J1006ET	10PF,J,3KV,SL
C901	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C902	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C921	065G306M4722BP	4700PF +-20% 400VAC
C905	067G 40J10115K	EC CAP 100UF 450V 18*35MM
C922	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES
C803	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES
C802	067G215D4714KV	E.C 105°C CAP 470UF M 25V ED SERIES
C918	067G215D6814KV	CAP 105°C 680UF M 25V
C917	067G215D6814KV	CAP 105°C 680UF M 25V
C940	067G215S1023KV	105°C 1000UF M 16V
C939	067G215S1023KV	105°C 1000UF M 16V
C915	067G215S4713KV	EC 105°C CAP 470UF M 16V
L902	073G 174 65 H	LINE FILTER
L901	073G 174 76 L	CHOKE COIL LI TAI LF-002923
CN901	087G 501 37 S	AC INLET ST-01DG-B2K-K
CN101	088G 30214K DC	PHONE JACK 5PIN +开口向下弹片
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
CN902	095G801410D 51	HARNESS 10P-9P 110MM
	705GQ761003	R914 ASS'Y
R914	061G152M438 64	RST MOFR 0.43OHM +-5% 2WS
	096G 29 1	SHRINK TUBE UL/CSA
	705GQ9KA 57001	Q901 ASS'Y
Q901	057G 667 30	2SK2645
	090G6263 1	HEAT SINK
	0M1G1730 8120	SCREW
	705GQ9KA 93001	D906 ASS"Y
D906	093G 60218	SB10100FCT
	0M1G1730 8120	SCREW
	Q90G0117 2	HEAT SINK
	705GQ9KA 93002	D905 ASS"Y
	090G6084 1	HEAT SINK
D905	093G 60257	DIODE SB1060FCT ITO-220AB BY PAN JIT

	0M1G1730 8120	SCREW
IC801	056G 379 22	IC TL494IDR SOIC-16
IC901	056G 379 76	IC LD7552BPS SOP-8
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q809	057G 759 2	RK7002
Q808	057G 760 4B	PDTA144WK SOT346
Q805	057G 760 5B	PDTC144WK SOT346
Q802	057G 763 14	AM9945N
Q803	057G 763 14	AM9945N
R827	061G0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R812	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R809	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R926	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R832	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R834	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R833	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R828	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R817	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R807	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R103	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R104	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R101	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R105	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R820	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R102	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R835	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R862	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R816	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R815	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W

R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R930	061G0603243 1F	RST CHIPR 2.43 KOHM +-1% 1/10W
R851	061G0603270 2F	RST CHIPR 27 KOHM +-1% 1/10W
R107	061G0603273	RST CHIPR 27 KOHM +-5% 1/10W
R106	061G0603273	RST CHIPR 27 KOHM +-5% 1/10W
R940	061G0603330 2F	RST CHIPR 33 KOHM +-1% 1/10W
R861	061G0603360 3F	RST CHIPR 360KOHM +-1% 1/10W
R927	061G0603430 1F	RST CHIPR 4.3 KOHM +-1% 1/10W
R863	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R823	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R803	061G0603564	RST CHIPR 560 KOHM +-5% 1/10W
R841	061G0603680 2F	RST CHIPR 68 KOHM +-1% 1/10W
R853	061G0603683	RST CHIPR 68 KOHM +-5% 1/10W
R854	061G0603683	RST CHIPR 68 KOHM +-5% 1/10W
JR801	061G0805000	0 OHM 1/10W
JR806	061G0805000	0 OHM 1/10W
R831	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R808	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R915	061G0805100 3F	RST CHIPR 100KOHM +-1% 1/8W
R804	061G0805101	RST CHIPR 100 OHM +-5% 1/8W
R925	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R826	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R943	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R938	061G0805103	10 KOHM 1/10W
R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W
R825	061G0805220	22&8 1/10W
R829	061G0805220	22&8 1/10W
R839	061G0805220	22&8 1/10W
R850	061G0805220	22&8 1/10W
R837	061G0805473	RST CHIPR 47 KOHM +-5% 1/8W
R810	061G0805510 2F	RST CHIPR 51 KOHM +-1% 1/8W
JR902	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR804	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
F801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
R910	061G1206100	RST CHIP 10R 1/4W 5%
R918	061G1206101	100 1206

R919	061G1206101	100 1206
R920	061G1206101	100 1206
R935	061G1206101	100 1206
R961	061G1206101	100 1206
R962	061G1206101	100 1206
R946	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R945	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R944	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R941	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R857	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R858	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R912	061G1206221	RST CHIPR 220 OHM +-5% 1/4W
R904	061G1206304	300 KOHM 1/8W
R932	061G1206304	300 KOHM 1/8W
R933	061G1206304	300 KOHM 1/8W
R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R903	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
C110	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C111	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C807	065G0603104 22	CHIP 0.1UF 25V X7R
C821	065G0603104 22	CHIP 0.1UF 25V X7R
C825	065G0603104 22	CHIP 0.1UF 25V X7R
C834	065G0603104 22	CHIP 0.1UF 25V X7R
C842	065G0603104 22	CHIP 0.1UF 25V X7R
C815	065G0603222 22	CHIP 2200PF 25V X7R
C816	065G0603222 22	CHIP 2200PF 25V X7R
C819	065G0603222 22	CHIP 2200PF 25V X7R
C823	065G0603222 22	CHIP 2200PF 25V X7R
C101	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C102	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C103	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C105	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C106	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C107	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C932	065G0805102 32	CHIP 1000P 50VX7R 0805
C928	065G0805102 32	CHIP 1000P 50VX7R 0805

C930	065G0805104 32	CHIP 0.1U 50V X7R
C924	065G0805104 32	CHIP 0.1U 50V X7R
C916	065G0805104 32	CHIP 0.1U 50V X7R
C907	065G0805104 32	CHIP 0.1U 50V X7R
C824	065G0805104 32	CHIP 0.1U 50V X7R
C805	065G0805104 32	CHIP 0.1U 50V X7R
C822	065G0805105 22	CHIP 1UF 25V X7R 0805
C109	065G0805105 22	CHIP 1UF 25V X7R 0805
C838	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C839	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C840	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C841	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C820	065G0805221 31	220PF 50V NPO
C845	065G0805225 12	CHIP 2.2UF 16V X7R 0805
C909	065G0805471 21	CHIP 470PF 25V NPO
C912	065G1206102 72	CHIP 1000PF 500V X7R
C929	065G1206102 72	CHIP 1000PF 500V X7R
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D803	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D804	093G 64 33	DIO SIG SM BAV99 (PHSE)R
ZD906	093G 39S 20 T	RLZ22B LLDS
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD905	093G 39S 44 T	RLZ18B LLDS
ZD902	093G 39S 61 T	DIODE RLZ16B ROHM
ZD921	093G 39S 61 T	DIODE RLZ16B ROHM
D916	093G 64S511SEM	IN4148W
D915	093G 64S511SEM	IN4148W
D903	093G 64S511SEM	IN4148W
D817	093G 64S511SEM	IN4148W
D814	093G 64S511SEM	IN4148W
D812	093G 64S511SEM	IN4148W
D809	093G 64S511SEM	IN4148W
D808	093G 64S511SEM	IN4148W
D807	093G 64S511SEM	IN4148W
D806	093G 64S511SEM	IN4148W
D805	093G 64S511SEM	IN4148W
CN901	006G 31500	EYELET
T901	006G 31502	1.5MM RIVET
NR901	006G 31502	1.5MM RIVET

IC904	056G 158 12	KIA431A-AT/P TO-92
C938	065G 1K152 1T	1.5NF/1KV Z5F+-10%
C906	065G 2K152 1T6052	1.5NF/2KV Y5P +-10%
C108	067G 2151097NT	KMY50VB1M-TP5 5*11.5
C908	067G 2152207NT	KY50VB22M-TP5 5*11
C104	067G215Y1014KT	EC CAP.105°C
J810	071G 55 9 T	FERRITE BEAD
FB102	071G 55 9 T	FERRITE BEAD
FB901	071G 55 29	FERRITE BEAD
F903	084G 56 4W	FUSE 4.0A 250V
F901	084G 56 4W	FUSE 4.0A 250V
D900	093G 6026T52T	RECTIFIER DIODE FR107
D901	093G 6038T52T	FR103
	715G2510 2	POWER BOARD PCB
HS1	Q85G0002 1	SHIELD_MAIN
HS5	Q90G6295 3	HEAT SINK
L904	S73G25391V1	CHOKE COIL ASS'Y
L903	S73G25391V1	CHOKE COIL ASS'Y
	Q34FPE19P06	CASE EEL19
	Q34FPE19P06	CASE EEL19
	Q07G 7 T178	COMPOUND PALLET
	Q40G 22N61521A	RATING LABEL
	Q40G0002615A21	POP LABEL FOR 2216SA
	Q40G000267311A	WINDOW VISTA LABEL
	Q41G780A61516A	QSG
	Q44GC015 1	EPS(L)
	Q44GC015 2	EPS(R)
	Q44GC015615 5A	22 LCD AOC CARTON
	Q45G 88607 34	PE BAG FOR BASE
	Q45G 88609 74 R	EPE BAG FOR MONITOR
	Q45G 88626 8 R	PE BAG FOR MONITOR
	Q52G 1185 65	AOC MIDDLE TAPE
	S89G179T30N569	FFC CABLE
	089F80002004AA	1.0*30*2.5-200-3-0.65*0.06
	033F303FH10K30	F1010HA-30-001
	033F303FJSHK30	1.0S-19-30A
	040G 58162435A	LABEL
	041G780061553A	TCO'03 CARD
	045G 76 28 RN	PE BAG FO MANUAL/BASE
	Q70G2201615 8A	CD MANUAL

12. Different Parts List

Diversity of TC72MADBAWA5AN compared with TC7MMADBAWA1AN			
Location	Part No.	Description	Remark
	705GQ734408	22"LCD STAND-BASE ASS'Y	
	A34G0289ABJ 1B	STAND	
	A34G0290ABJ 1B 33	BASE 7S7	
	AM1G1740 12 47 CR3	SCREW	
	705GQ734443	22"LCD BEZEL ASS'Y	
	A33G0177 AS 1L	KEY PAD	
	A34G0293 ASB2B 30	BEZEL(22")	
E750	750GLV220Z1314N000	PANEL M220Z1-L03 C1A FZ FQ TPV	
E750	750GLV220Z1324N000	PANEL TPM220Z1-L03 C1B FZ TPV	2nd source
	A33G0173ABJ 1L 32	CABLE CLAMP	
	Q44GC015615 5C	22 LCD AOC CARTON	
	Q70G220161513A	CD MANUAL	