Service
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Service Manual

Horizontal Frequency
30-83 kHz

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SAFETY NOTICE

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

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

Revision List

Version	Release Date	Revision History	TPV Model Name
A00	July 18, 2008	Initial release	T97MMTNQW6A16N
			T98MMTMCW6PUDN

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

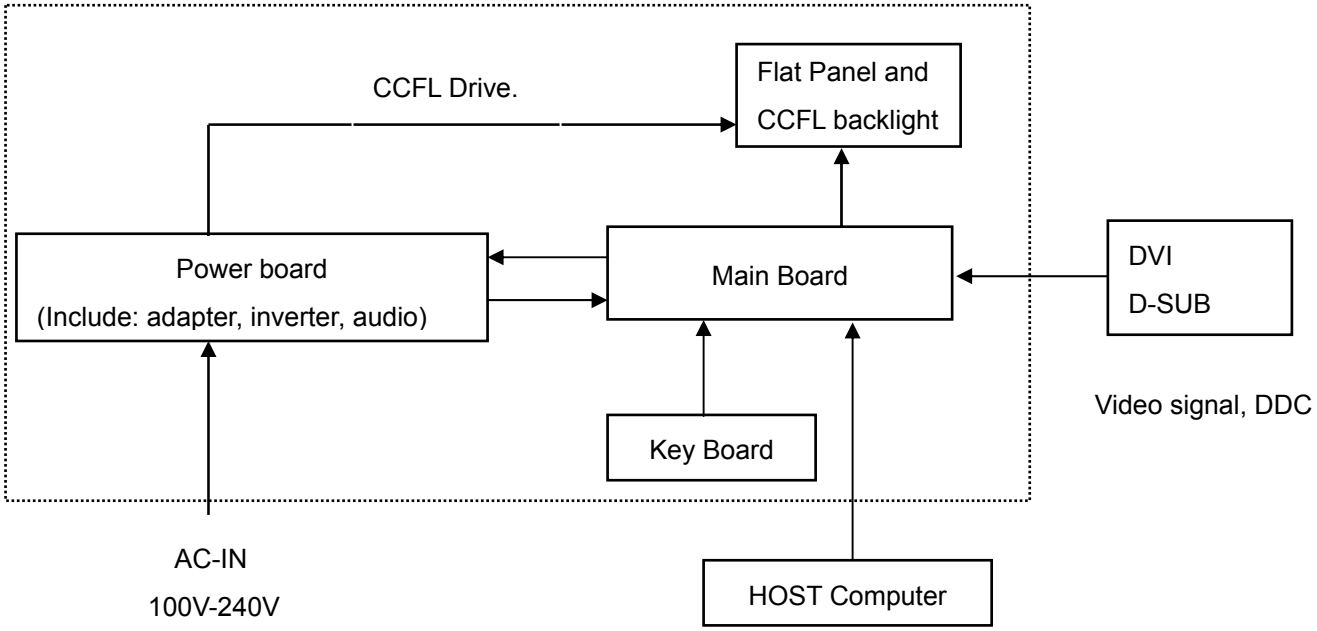
LCD Panel	Model number	931Fwz
	Driving system	TFT Color LCD
	Viewable Image Size	481mm diagoanl
	Pixel pitch	0.243mm(H) x 0.243mm(V)
	Video	R, G, B Analog Interface & Digital Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	146.25 MHz
Resolution	Horizontal scan range	30 kHz - 83 kHz
	Horizontal scan Size(Maximum)	408.24mm
	Vertical scan range	55 Hz - 75 Hz
	Vertical scan Size(Maximum)	255.15mm
	Optimal preset resolution	1680 x 1050 (60 Hz)
	Highest preset resolution	1680 x 1050 (60 Hz)
	Plug & Play	VESA DDC2B/CI
	Input Connector	D-Sub 15pin & DVI-D
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, Positive & DVI-D Digital Interface (TMDS)
	Power Source	100~240VAC, 50/60Hz
	Power Consumption	Active < 37 W
		Standby < 2 W
	Speakers	2 x 2W
Physical Characteristics	Connector Type	15-pin Mini D-Sub & DVI-D
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	374 mm
	Width	454 mm
	Depth	220 mm
	Weight (monitor only)	4.1 kg
	Weight (with packaging)	5.8 kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-20°to 60°
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 80% (non-condensing)
	Altitude:	
	Operating	0~ 3000m (0~ 10000 ft)
	Non-Operating	0~ 5000m (0~ 15000 ft)

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

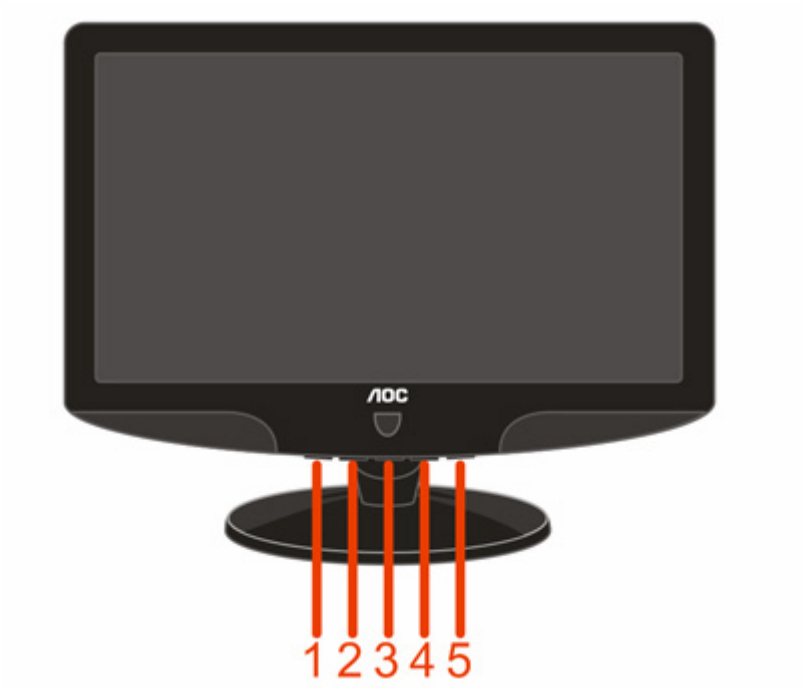
3.1 General Instructions

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

* The power cord should be connected.

* Press the power button to turn on the monitor. The power indicator will light up.

3.2 Control Buttons



1. Eco mode / -

2. Volume / +

3. Power Button & Indicator

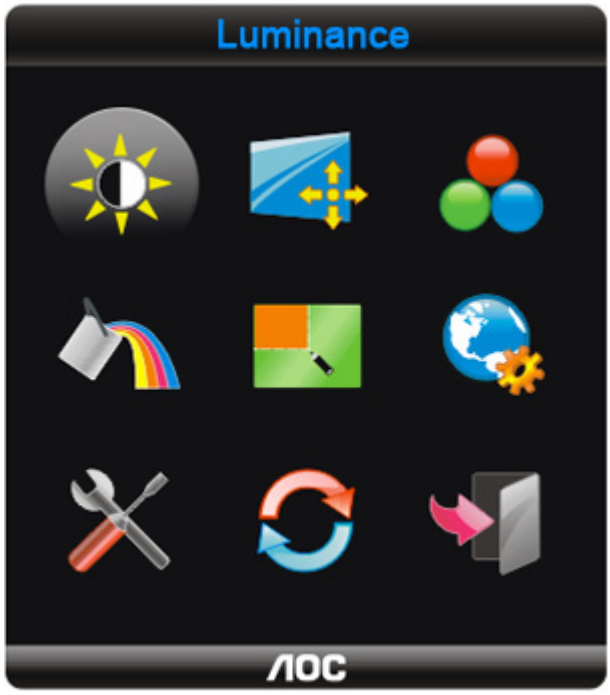
4. Source (Auto) / Exit

5. Menu / Enter

3.3 OSD Menu

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-buttonto 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.
- Eco Mode hot key: Press the Eco key continuously to select t he Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).
- Volume adjustment hot key: When there is no OSD, press Volume (+) to active volume adjustment bar, press - or + to adjust volume (Only for the models with speakers).
- Source hot key : When the OSD is closed, press Auto/Source button will be Source hot key function (Only for the models with dual or more inputs) .Press Source button continuously to select the input source showed in the message bar , press Menu/Enter button to change to the source selected.
- Auto configure hot key: When the OSD is closed, press Auto/Source button continuously about 2 second to do auto configure.



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 Gamma 1
		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.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H.Position	0-100	Adjust the verticalposition of the picture.
	V.Position	0-100	Adjust the horizontal position of the picture.
	Color Temp		
	Warm	6500K	Recall Warm Color Temperature from EEPROM.
	Normal	7300K	Recall Normal Color Temperature from EEPROM.
	Cool	9300K	Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
	User	Red	Red Gain from Digital-register
		Green	Green Gain Digital-register.
		Blue	Blue Gain from Digital-register

	Color Boost		
	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	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V.position	0-100	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame
	OSD Setup		
	H.Position	0-100	Adjust the verticalposition of OSD
	V.Position	0-100	Adjust the horizontal position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language
	Extra		
	Input Select	Auto	Select to Auto Detect input signal
		Analog	Select Analog Sigal Source as Input
		Digital	Select Digital Sigal Source as Input
	Auto Config	yes or no	Auto adjust the picture to default
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Information		Show the information of the main image and sub-image source
	Reset		
	Reset	yes or no	Reset the menu to default
	Exit		
	Exit		Exit the main OSD

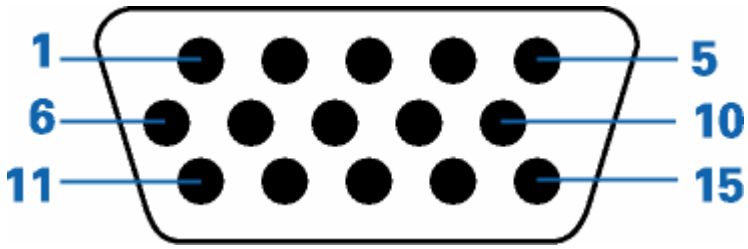
4. Input/Output Specification

4.1 Input Signal Connector

Analog connectors

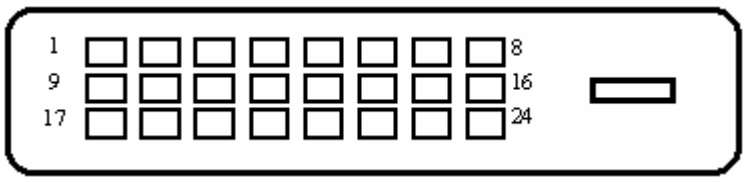
Pin No.	Description	Pin No.	Description
1	Video-Red	9	+5V
2	Video-Green	10	Ground
3	Video-Blue	11	N.C.
4	N.C.	12	DDC-Serial data
5	Detect Cable	13	H-sync
6	GND-R	14	V-sync
7	GND-G	15	DDC-Serial clock
8	GND-B		

VGA connector layout



Digital Connectors

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



4.2 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	< 55A 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%
CURRENT	1.5Amp (5V) ；2 Amp (12V)

4.3 Factory Preset Display Modes

Stand	Resolution	Horizontal Frequency(Khz)	Vertical Frequency(Hz)
Dos-mode	720×400	31.47	70
VGA	640×480	31.47	60
VGA	640×480	37.5	75
SVGA	800×600	37.879	60
SVGA	800×600	46.875	75
XGA	1024×768	48.363	60
XGA	1024×768	56.476	70
XGA	1024×768	60.02	75
XGA	1024×768	48.78	60
XGA	1024×768	60.241	75
SXGA	1280×1024	64	60
SXGA	1280×1024	80	75
WXGA	1440×900	55.93	60
WXGA	1440×900	70.637	75
WSXGA	1680×1050	65.29	60

4.4 Panel Specification

4.4.1 General Features

M190Z1-L01 is a 19” wide TFT Liquid Crystal Display module with 4 CCFL Backlight unit and 30 pins 2ch-LVDS interface. This module supports 1680 x 1050 WSXGA+ mode and can display 16.7M colors. The inverter module for Backlight is not built in.

- Super Wide viewing angle.
- Super High contrast ratio
- Super fast response time
- High color saturation
- WSXGA+ (1680 x 1050 pixels) resolution
- DE (Data Enable) only mode
- LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance

4.4.2 Display Characteristics

Item	Specification	Unit
Diagonal Size	481.4 (18.95” diagonal)	mm
Active Area	408.24 (H) x 255.15 (V)	mm
Bezel Opening Area	412.24 (H) x 259.15 (V)	mm
Driver Element	a-si TFT active matrix	-
Pixel Number	1680 x R.G.B. x 1050	pixel
Pixel Pitch	0.243 (H) x 0.243 (V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.7M	color
Transmissive Mode	Normally White	-
Color saturation	72%NTSC (typ.)	-
Surface Treatment	Hard coating (3H), Anti-glare (Haze 25)	-

4.4.3 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	Rx	θ_x=0°, θ_Y =0° CS-1000T	Typ – 0.03	0.647	Typ + 0.03	
		Ry			0.334		
	Green	Gx			0.284		
		Gy			0.607		
	Blue	Bx			0.151		
		By			0.071		
	White	Wx			0.313		
		Wy			0.329		
Center Luminance of White		L_C		230	300	---	cd/m^2
Contrast Ratio		CR		630	1000	---	-
Response Time		T_R	θ_x=0°, θ_Y =0°	---	1.5	6.5	ms
		T_F		---	3.5	8.5	ms
White Variation		δW	θ_x=0°, θ_Y =0°	---	1.3	1.5	-
Viewing Angle	Horizontal	θ_x+	CR ≧ 10	75	85	---	Deg.
		θ_x-		75	85	---	
	Vertical	θ_Y+		70	80	---	
		θ_Y-		70	80	---	

4.4.4 Electrical Characteristics

(1) TFT-LCD

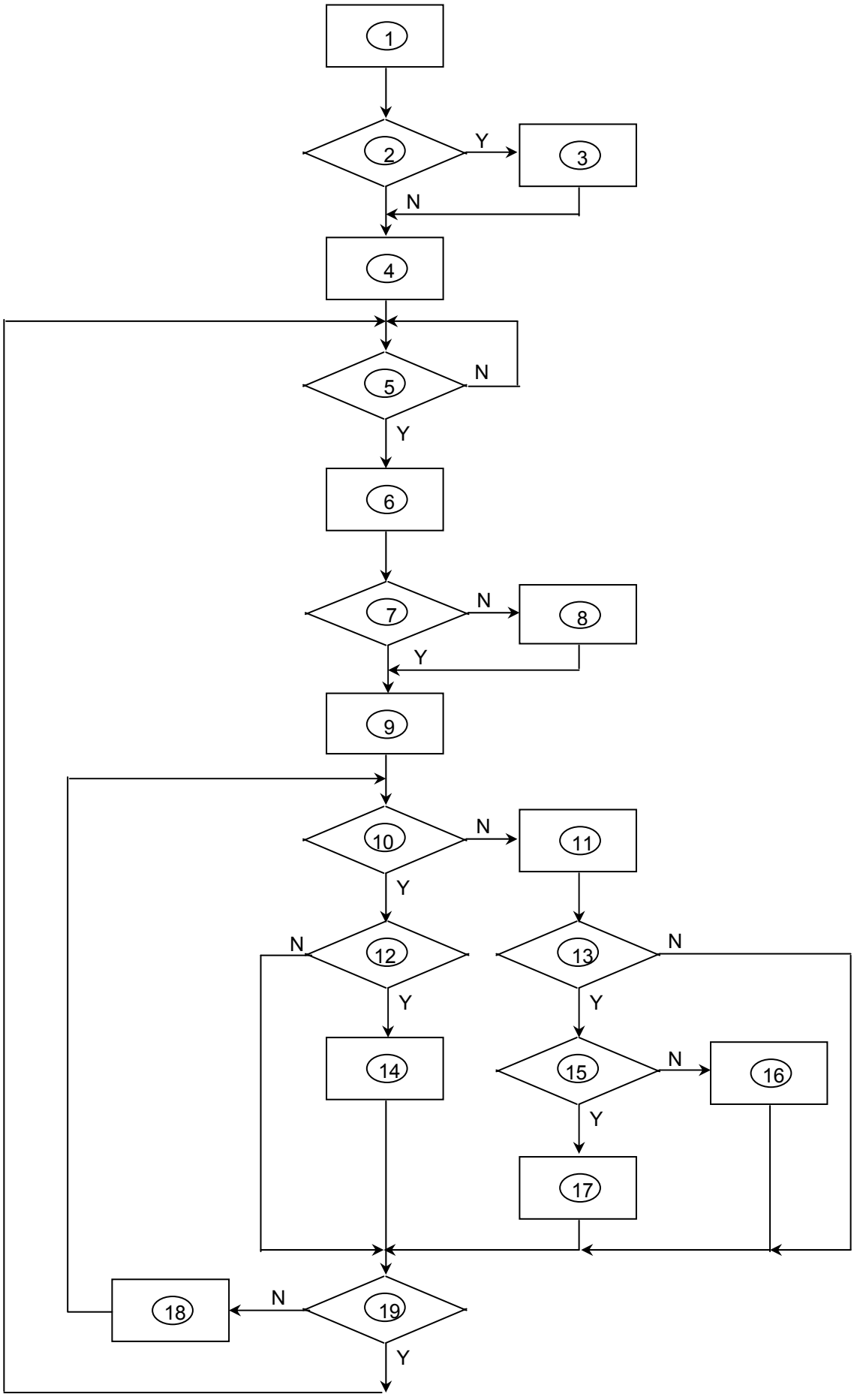
Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		Vcc	4.5	5.0	5.5	V
Ripple Voltage		V_{RP}	-	-	100	mV
Rush Current		I_{RUSH}	-	-	3	A
Power Supply Current	White	Icc	-	-	0.728	A
	Black		-	-	1.078	A
	Vertical Stripe		-	-	1.078	A
LVDS differential input voltage		Vid	100	-	600	mV
LVDS common input voltage		Vic	-	1.2	-	V

(2) Backlight

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Lamp Input Voltage	V_L	---	775	853	V_{RMS}
Lamp Current	I_L	2.0	7.0	7.5	mA_{RMS}
Lamp Turn On Voltage	V_S	---	---	1500(25℃)	V_{RMS}
		---	---	1710(0℃)	V_{RMS}
Operating Frequency	F_L	40	---	80	KHz
Lamp Life Time	L_{BL}	40000	---	---	Hrs
Power Consumption	P_L	---	21.7	---	W

5. Block Diagram

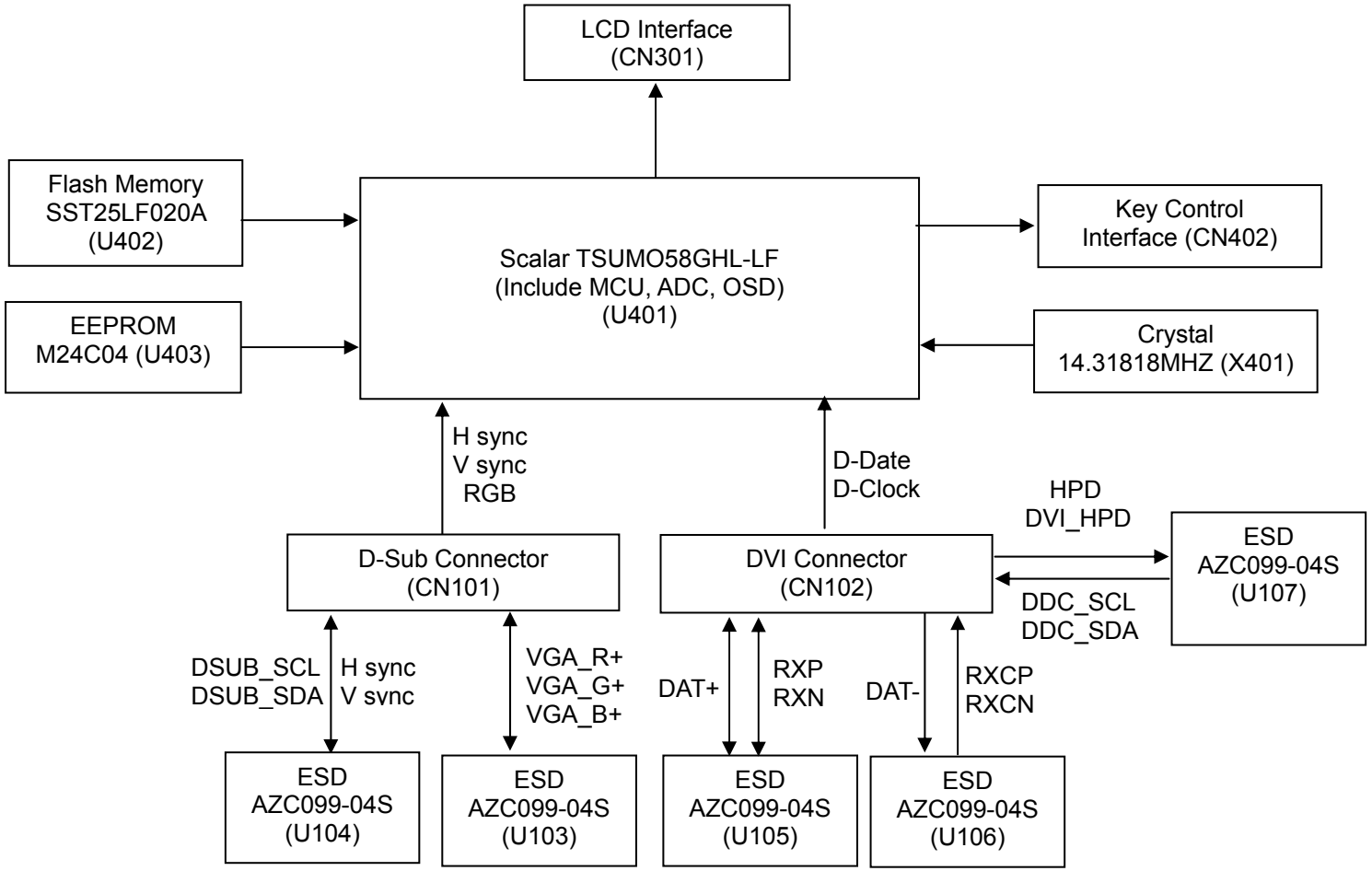
5.1 Software Flow Chat



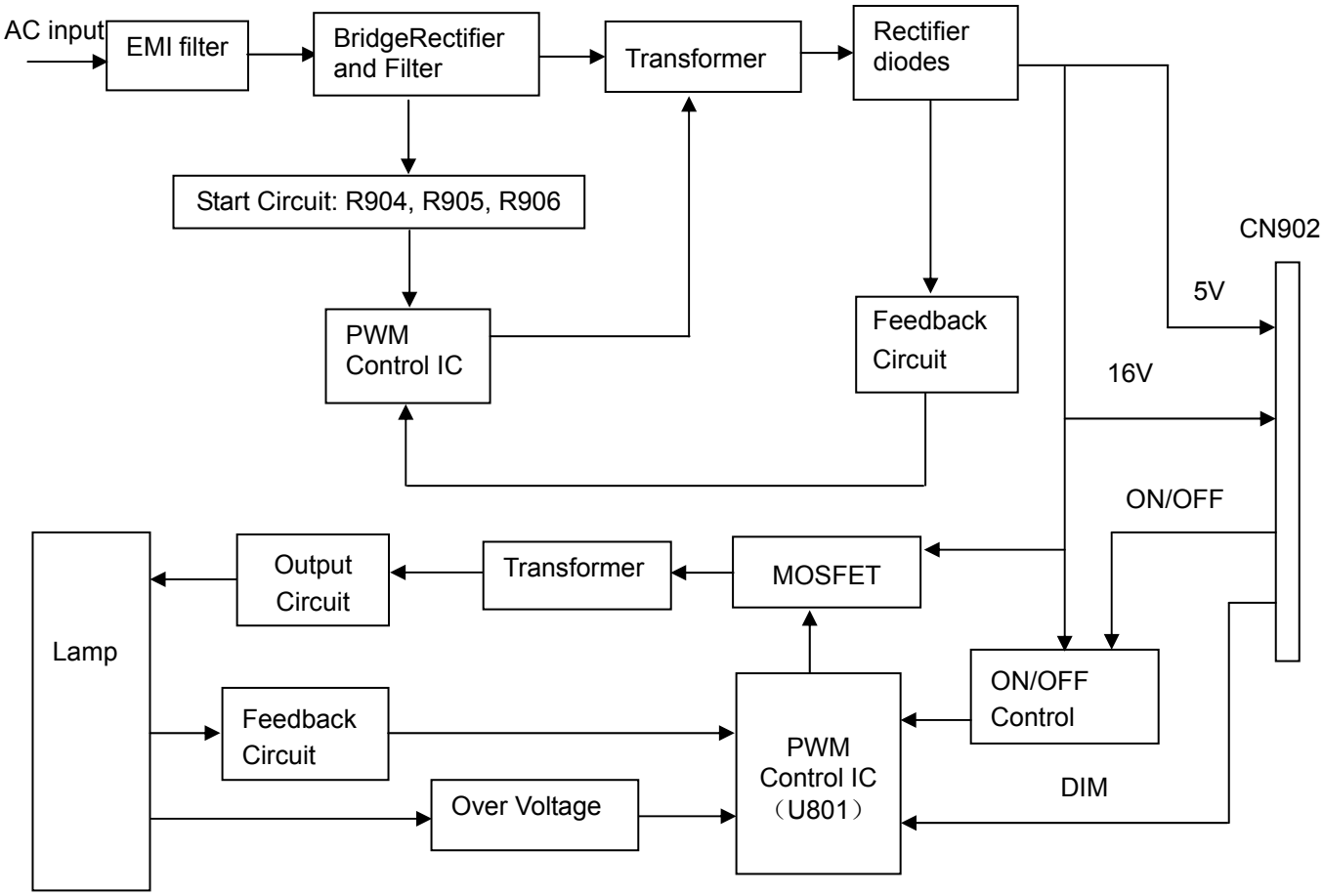
1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the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

5.2.1 Main Board



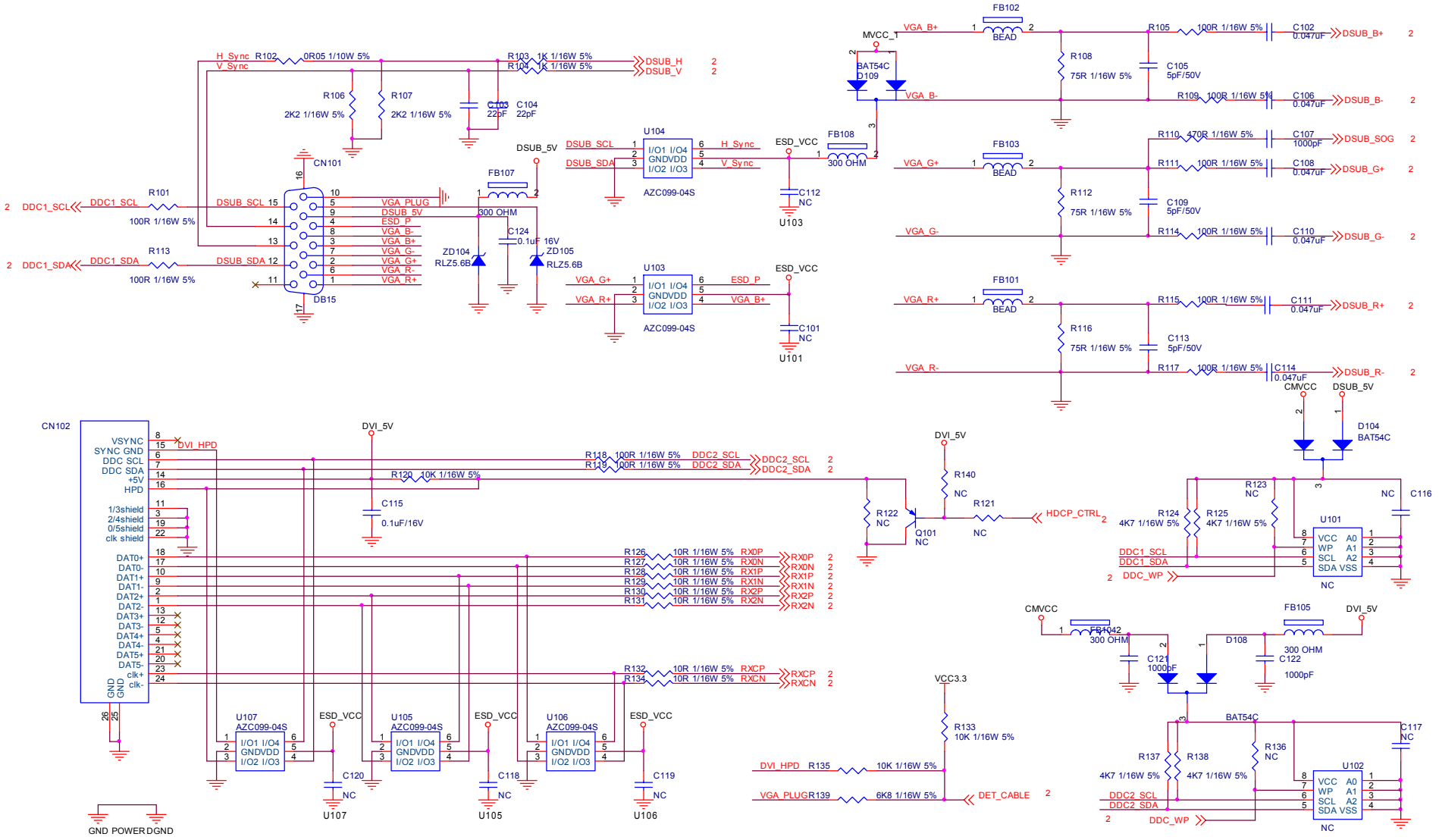
5.2.2 Inverter/Power Board



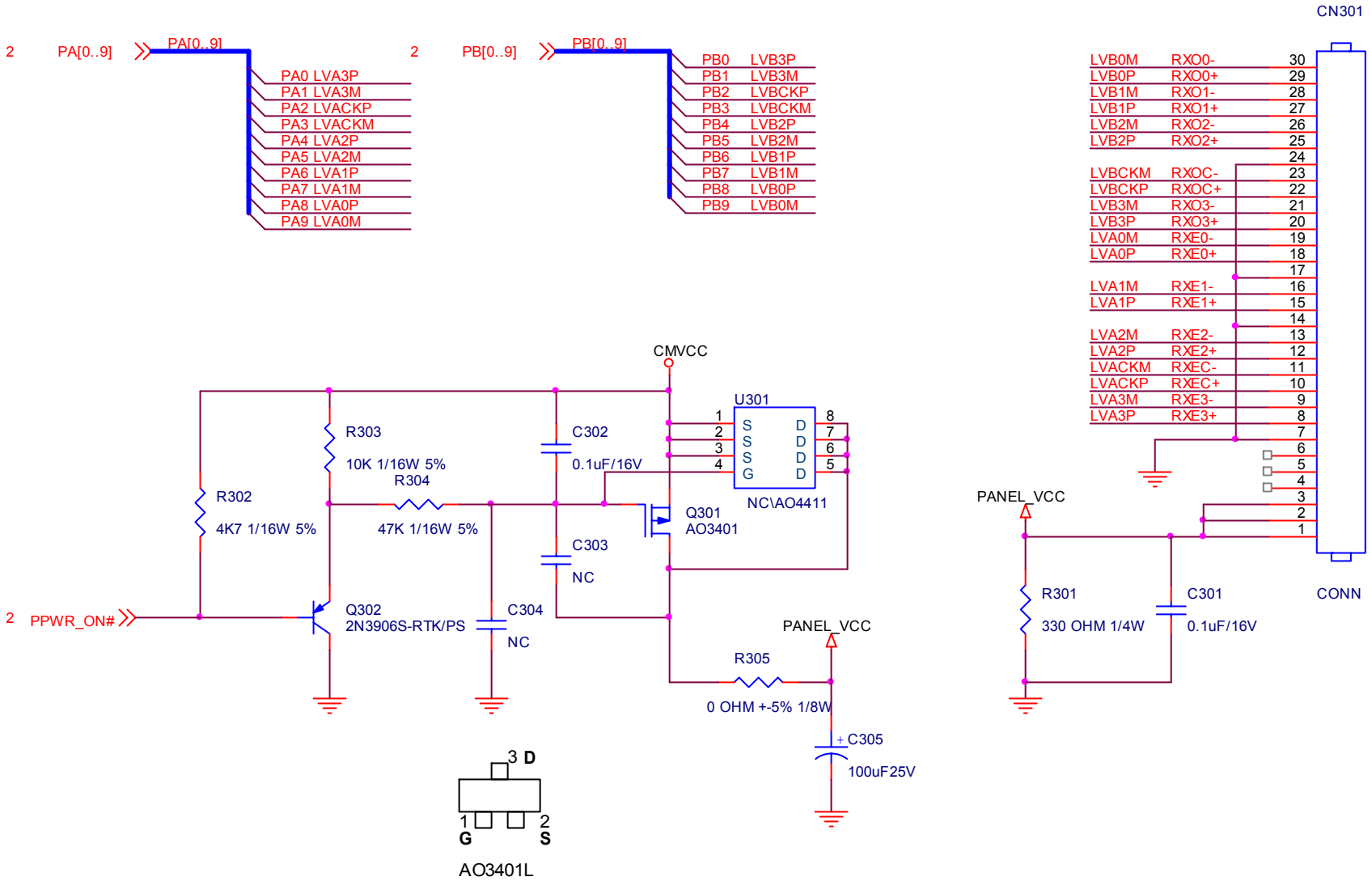
6. Schematic

6.1 Main Board

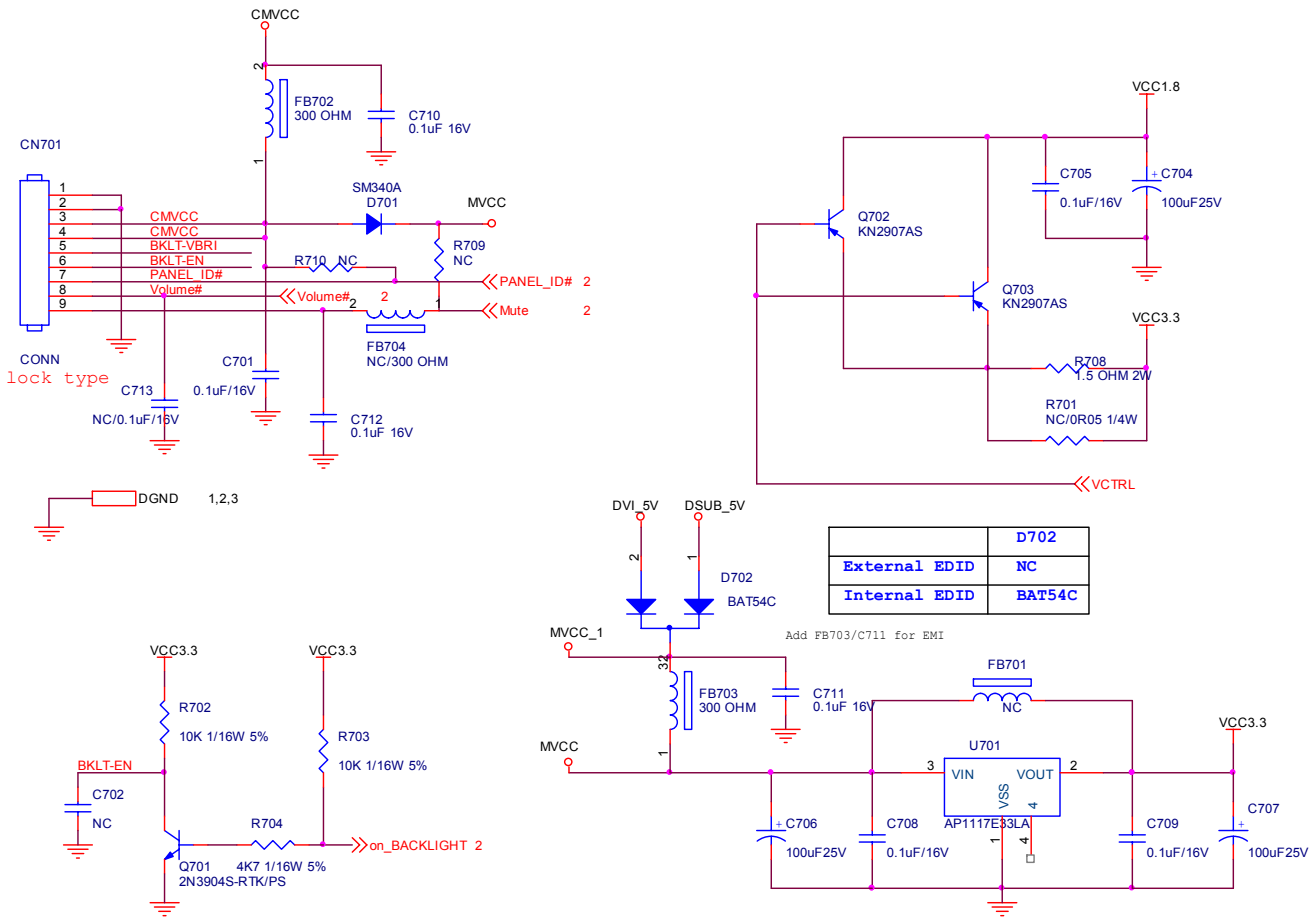
715G2883 1



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	NEW Q SERIES	Size	B
結 屬 瓜 銅 腹	G2883-1-X-X-15-080409	TPV MODEL	AOC 931Fwz	Rev	1
Key Component	2.0.INPUT	PCB NAME		稱 爹	<稱爹>
Date	Wednesday, April 09, 2008	Sheet	2 of 5		

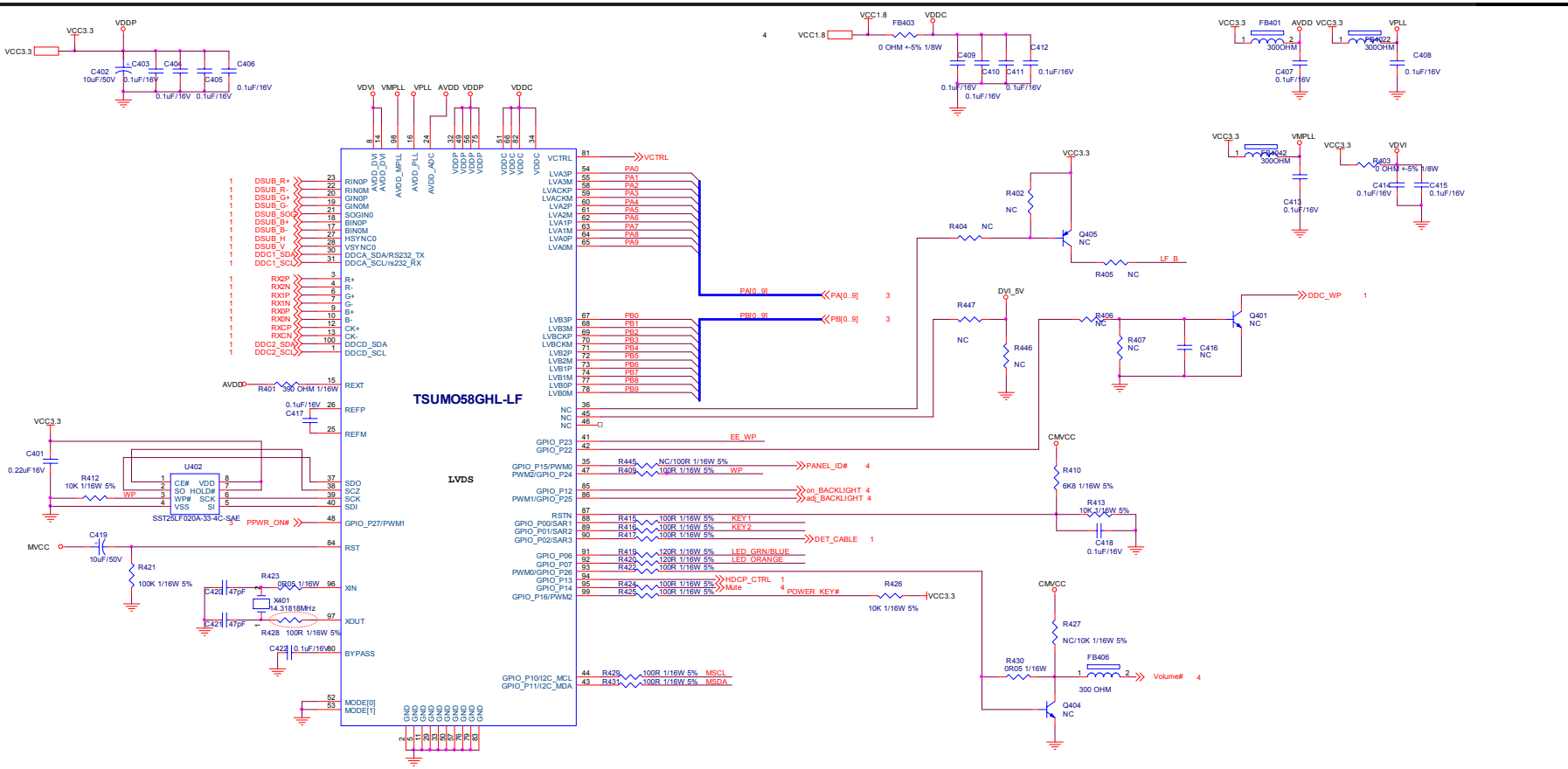


T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	NEW Q SERIES	Size	A
結 隔 瓜 網 腹	G2883-1-X-X-15-080409	TPV MODEL	AOC 931Fwz	Rev	1
Key Component	3.0.OUTPUT	PCB NAME		称爹	<称爹>
Date	Wednesday , April 09, 2008	Sheet	3 of 5		



	D702
External EDID	NC
Internal EDID	BAT54C

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	NEW Q SERIES	Size	B
結構代號	G2883-1-X-X-15-080409	TPV MODEL	AOC 931Fwz	Rev	1
Key Component	4.0.POWER	PCB NAME		称爹	<称爹>
Date	Sunday, May 25, 2008	Sheet	4 of 5		

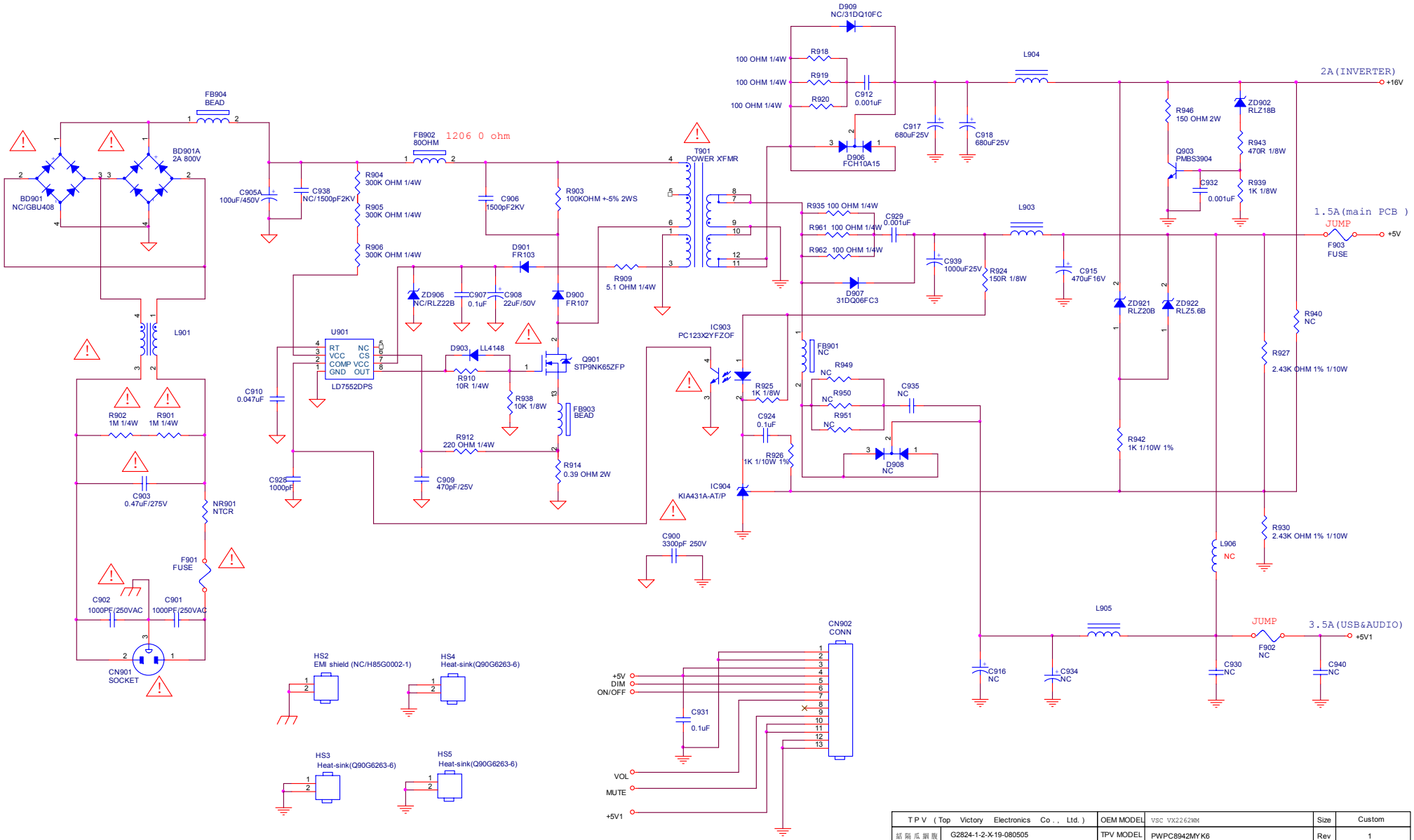


	CN401	CN402	FB405 and C436
For Normal	NC	WAFER 2.0MM 6P	NC
For Philips	NC	WAFER 2.0MM 7P	According to EMI
For DELL	FPC CONN. 1.0mm 8P	NC	NC

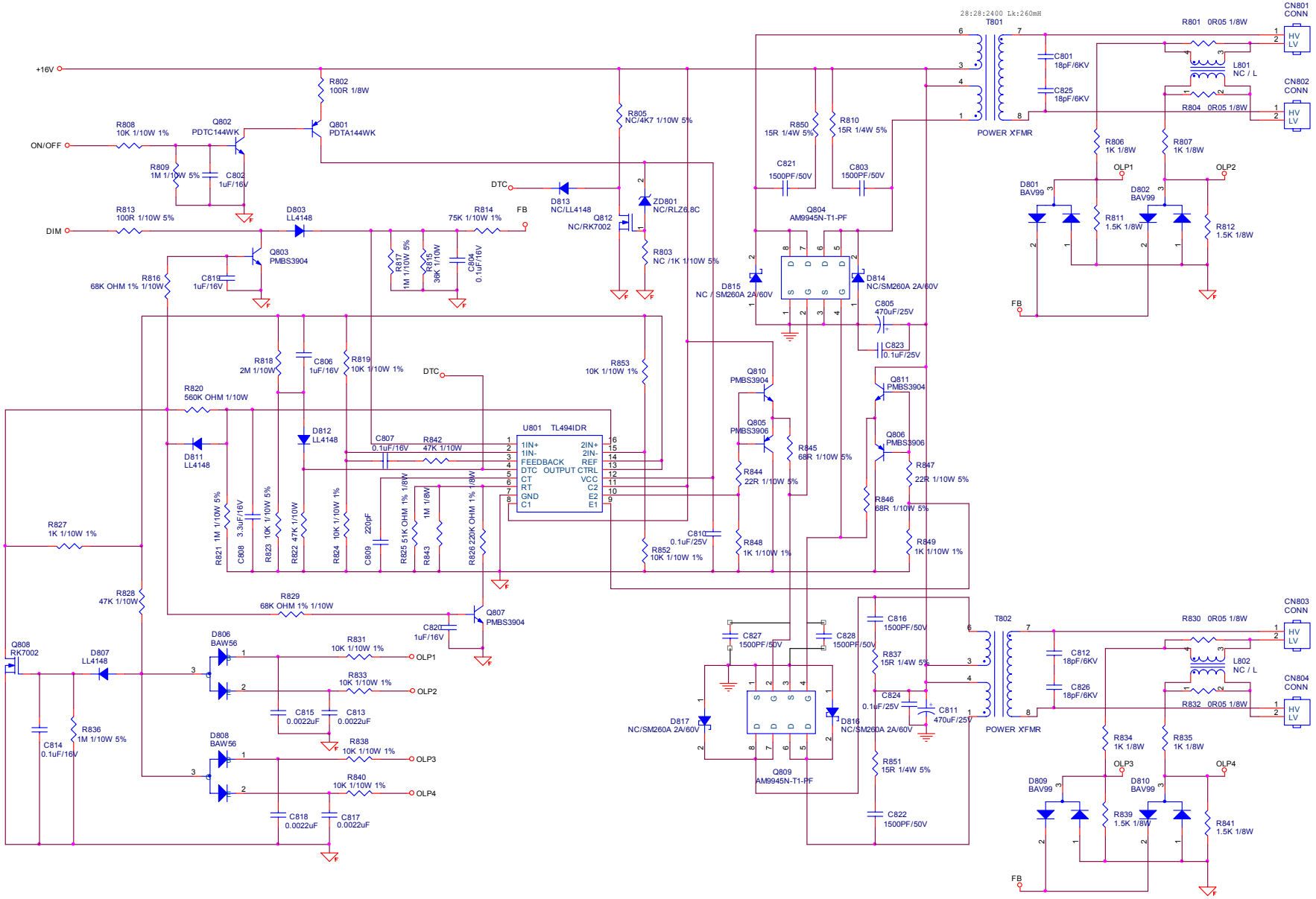
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	NEW Q SERIES	Size	C
第一階段	G2883-1-X-X-15-080409	TPV MODEL	AOC 931Fwz	Rev	1
Key Component	5.0 SCALER	PCB NAME		标准	<标准>
Date	Sunday, May 25, 2008	Sheet	5 of 5		

6.2 Power Board

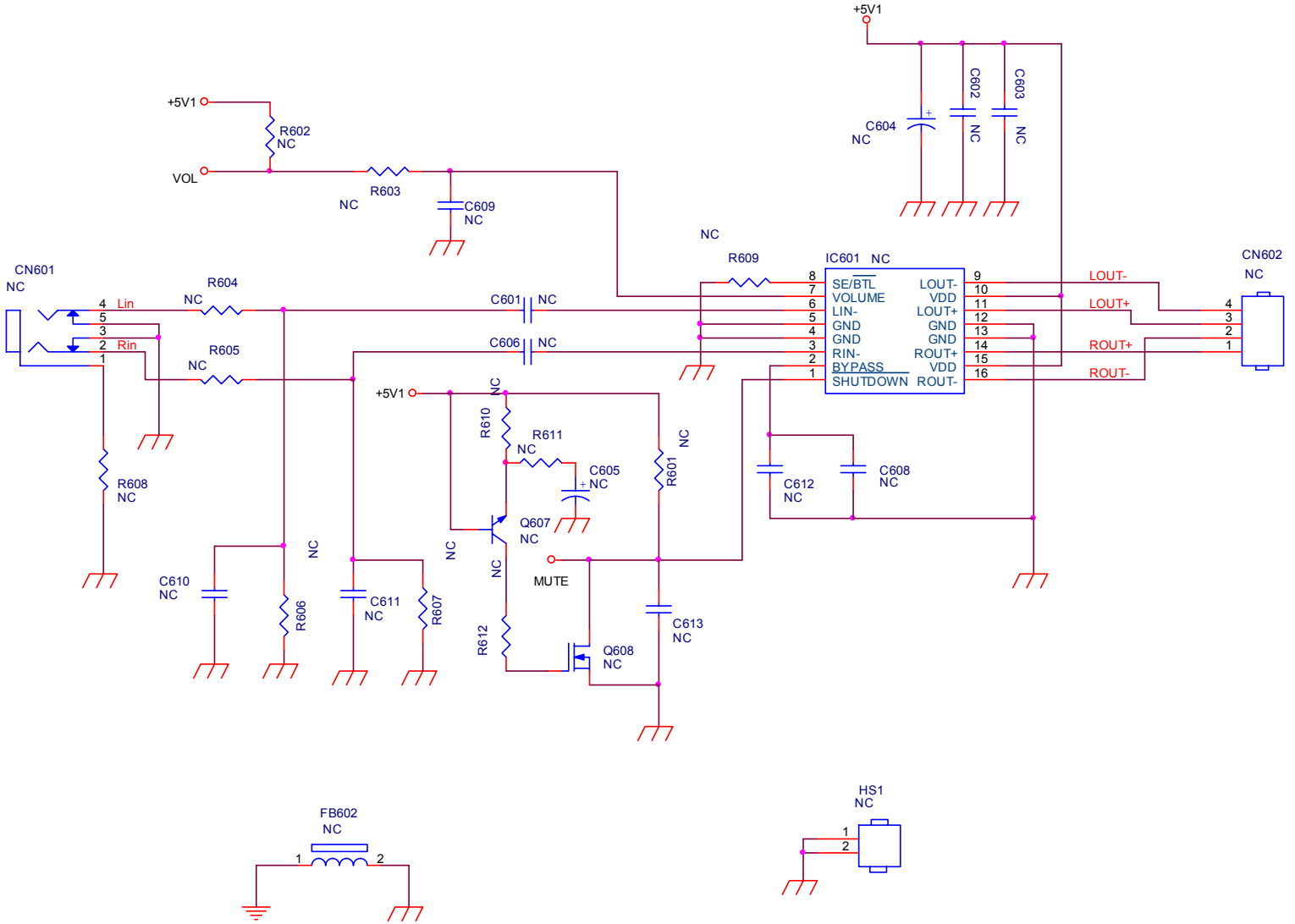
715G2824 1 2



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	VSC VX2262WM	Size	Custom
紙 隔 瓜 銅 覆	G2824-1-2-X-19-080505	TPV MODEL	PWPC8942MYK6	Rev	1
Key Component	2.POWER	PCB NAME	715G2824-1-2	称 爹	ODM MODEL
Date	Monday, May 05, 2008	Sheet	2 of 4		



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	VSC VX2262WM	Size	Custom
結 隔 瓜 猫 觀	G2824-1-2-X-19-080505	TPV MODEL	PWPC8942MY K6	Rev	1
Key Component	03.INVERTER	PCB NAME	715G2824-1-2	称峯	ODM MODEL
Date	Monday , May 05, 2008	Sheet	3 of 4		



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	VSC VX2262WM	Size	Custom
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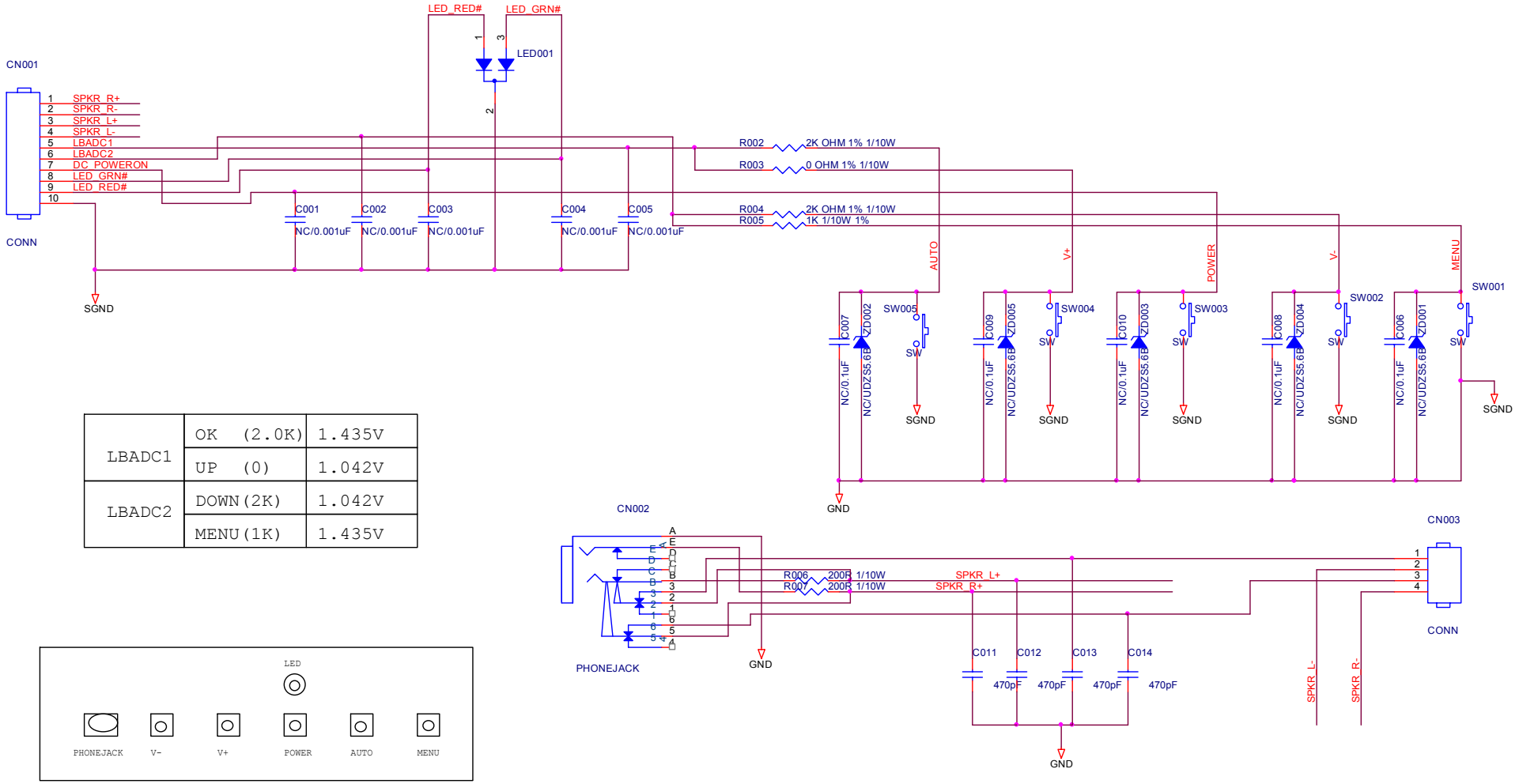
Key Component	04.AUDIO	PCB NAME	715G2824-1-2	稱爹	ODM MODEL
Date	Monday, May 05, 2008	Sheet	4 of 4		

6.3 Key Board

715G3098 1



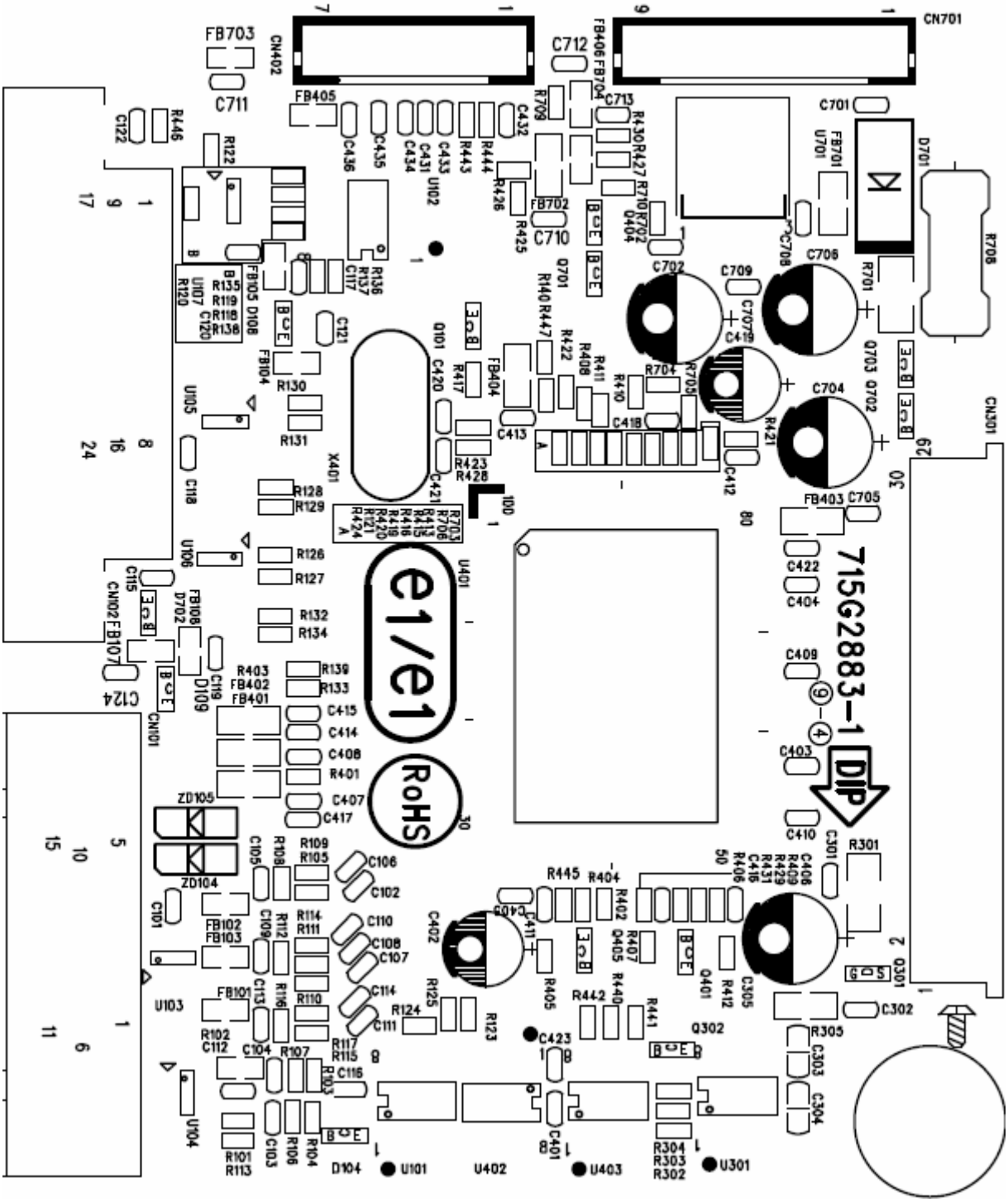
LBADC1	OK (2.0K)	1.435V
	UP (0)	1.042V
LBADC2	DOWN(2K)	1.042V
	MENU(1K)	1.435V

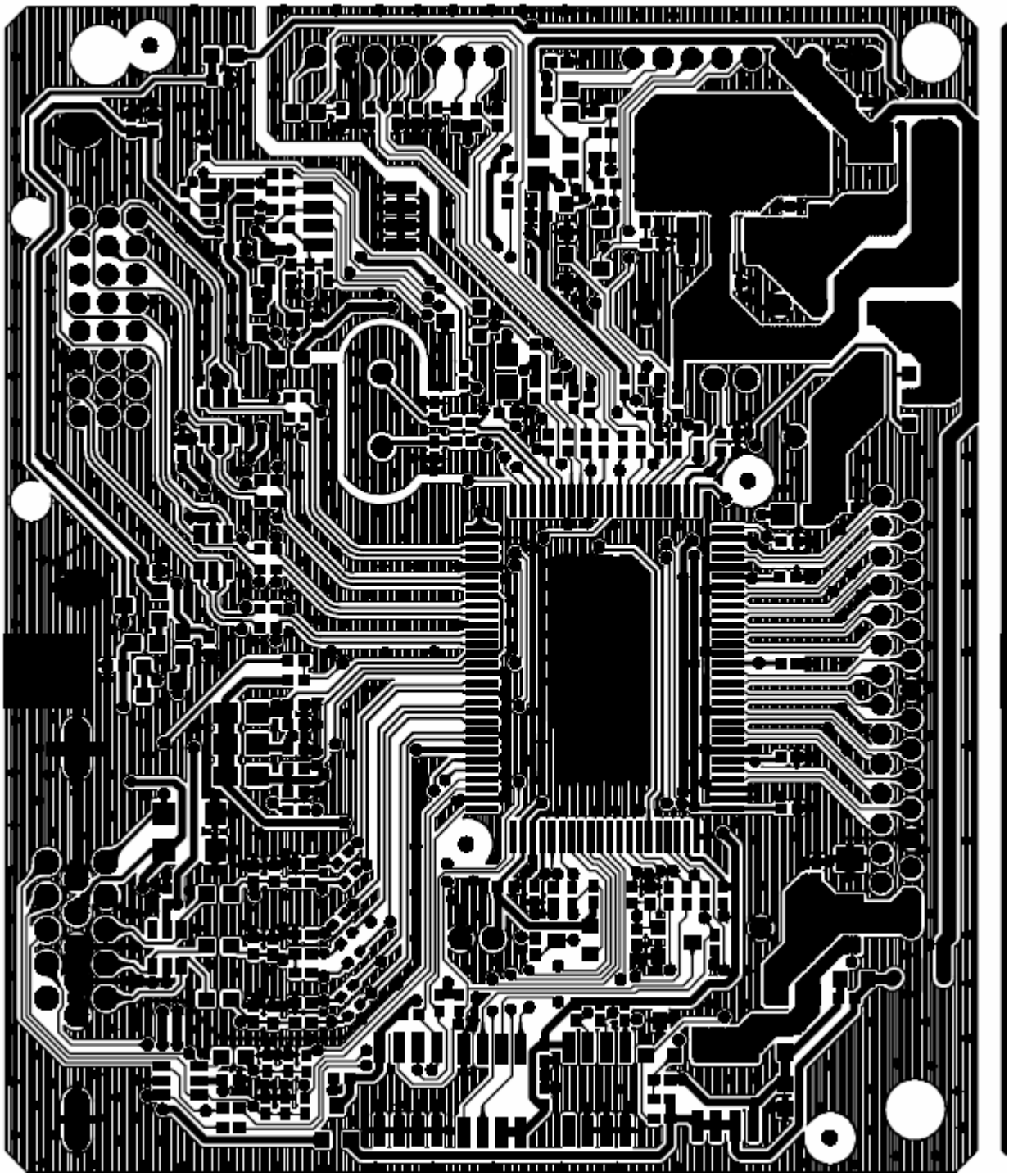
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	AOC 931Fwz	Size B
結構代號 G3098-C-X-X-1-080409	TPV MODEL	T97MMTD8W6A1DN	Rev C
Key Component 2.0.key	PCB NAME	715G3098-C	稱爹 <稱爹>
Date Wednesday, April 09, 2008	Sheet	2 of 2	

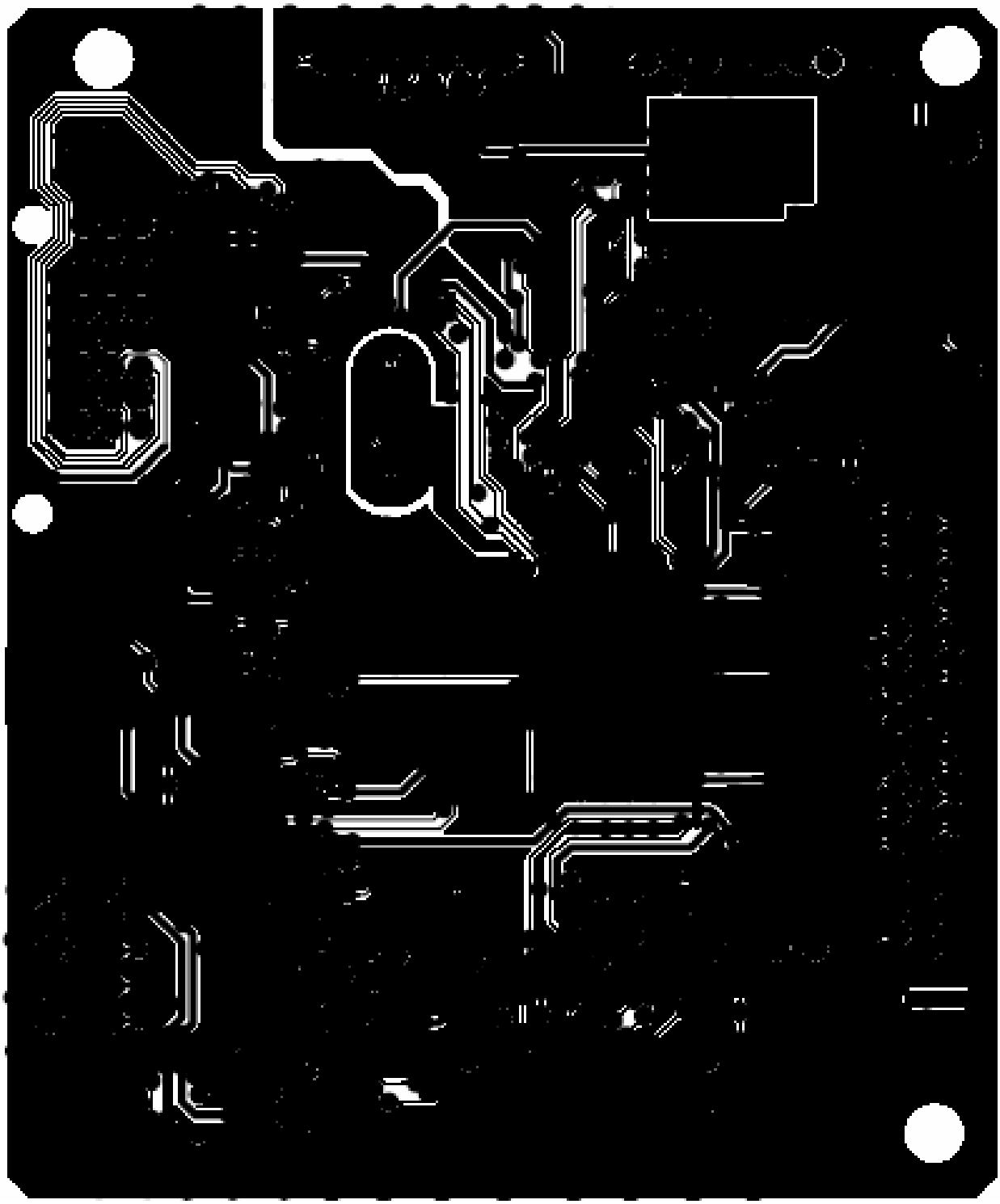
7. PCB Layout

7.1 Main Board

715G2883 1

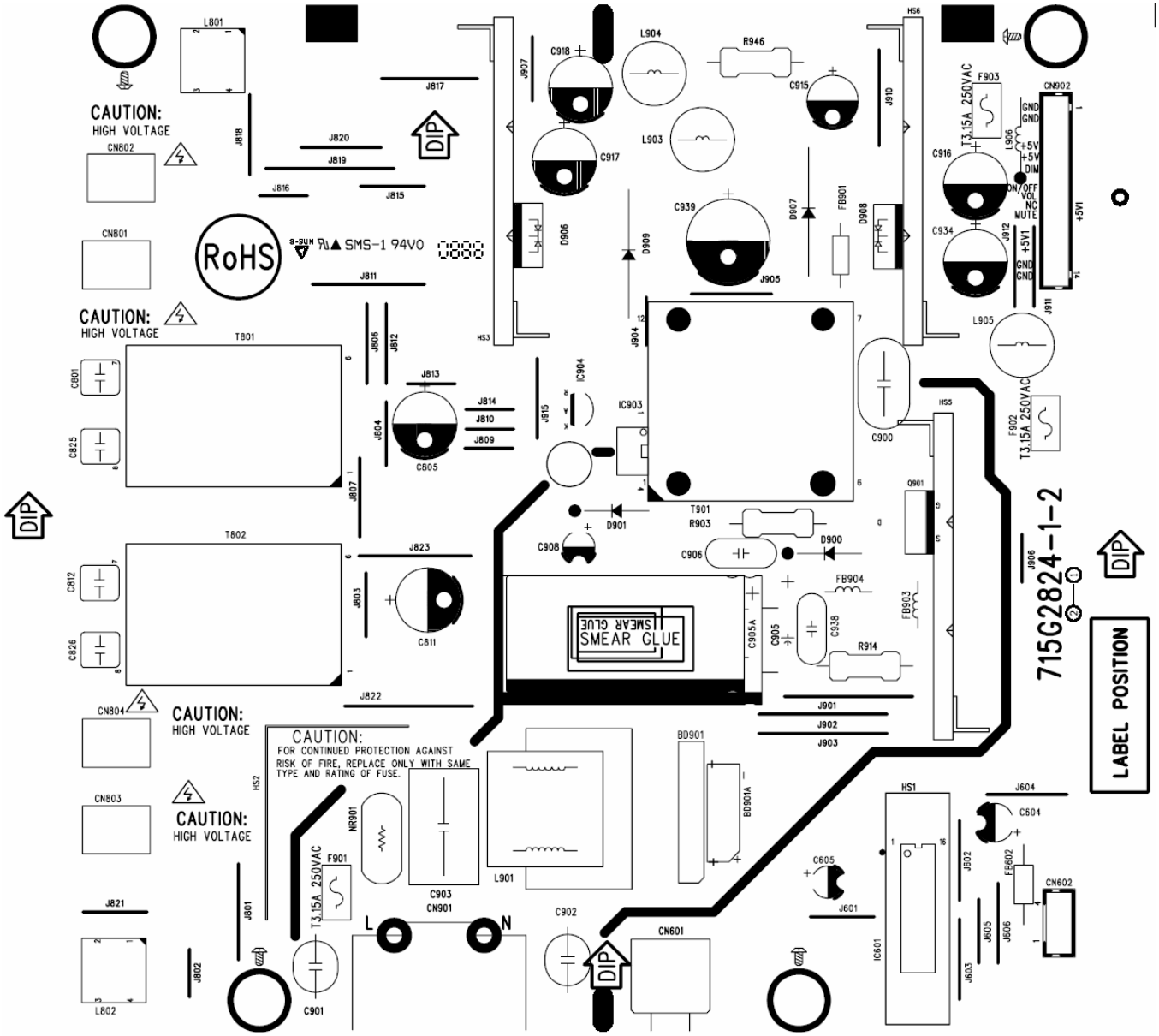


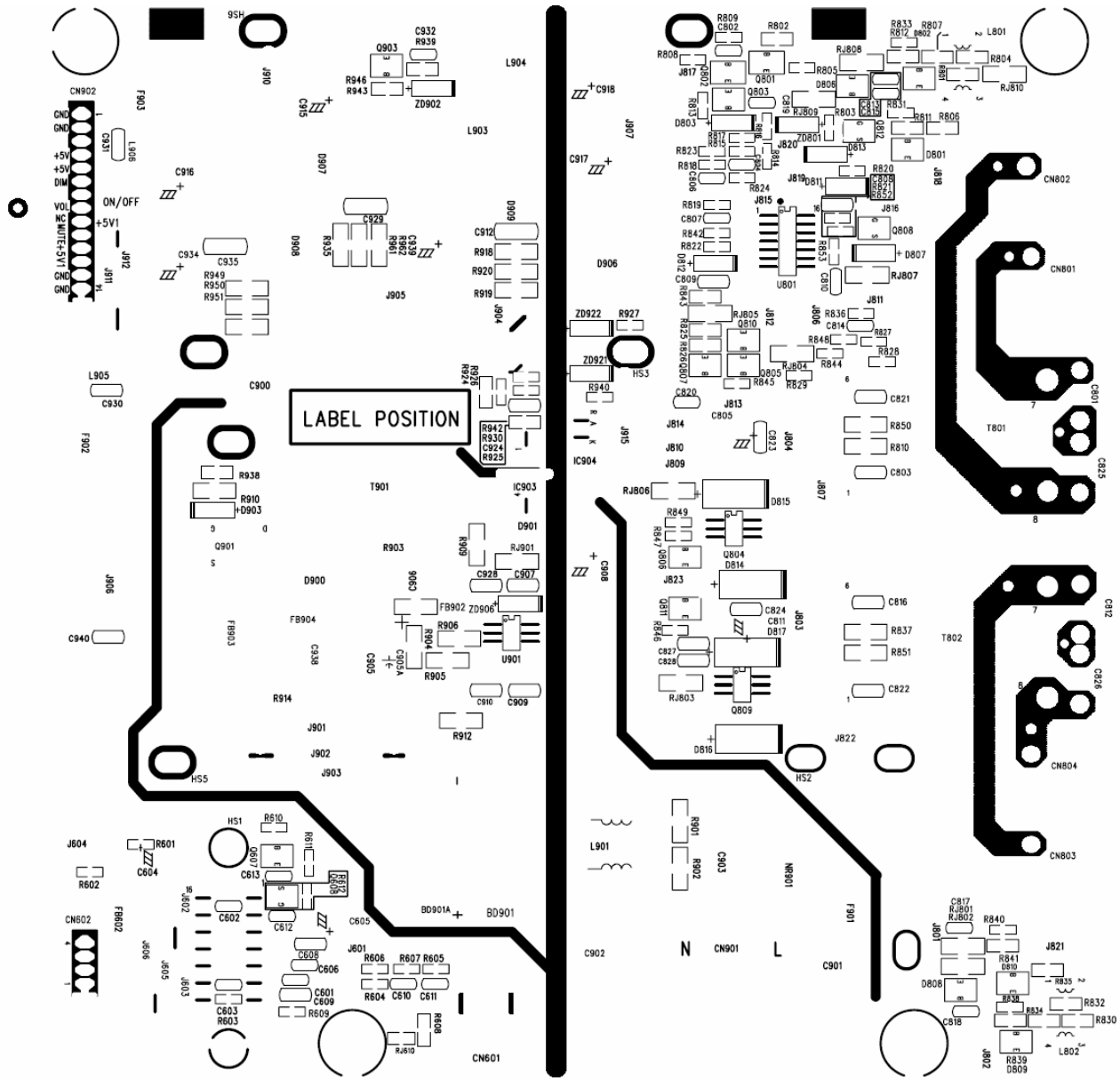


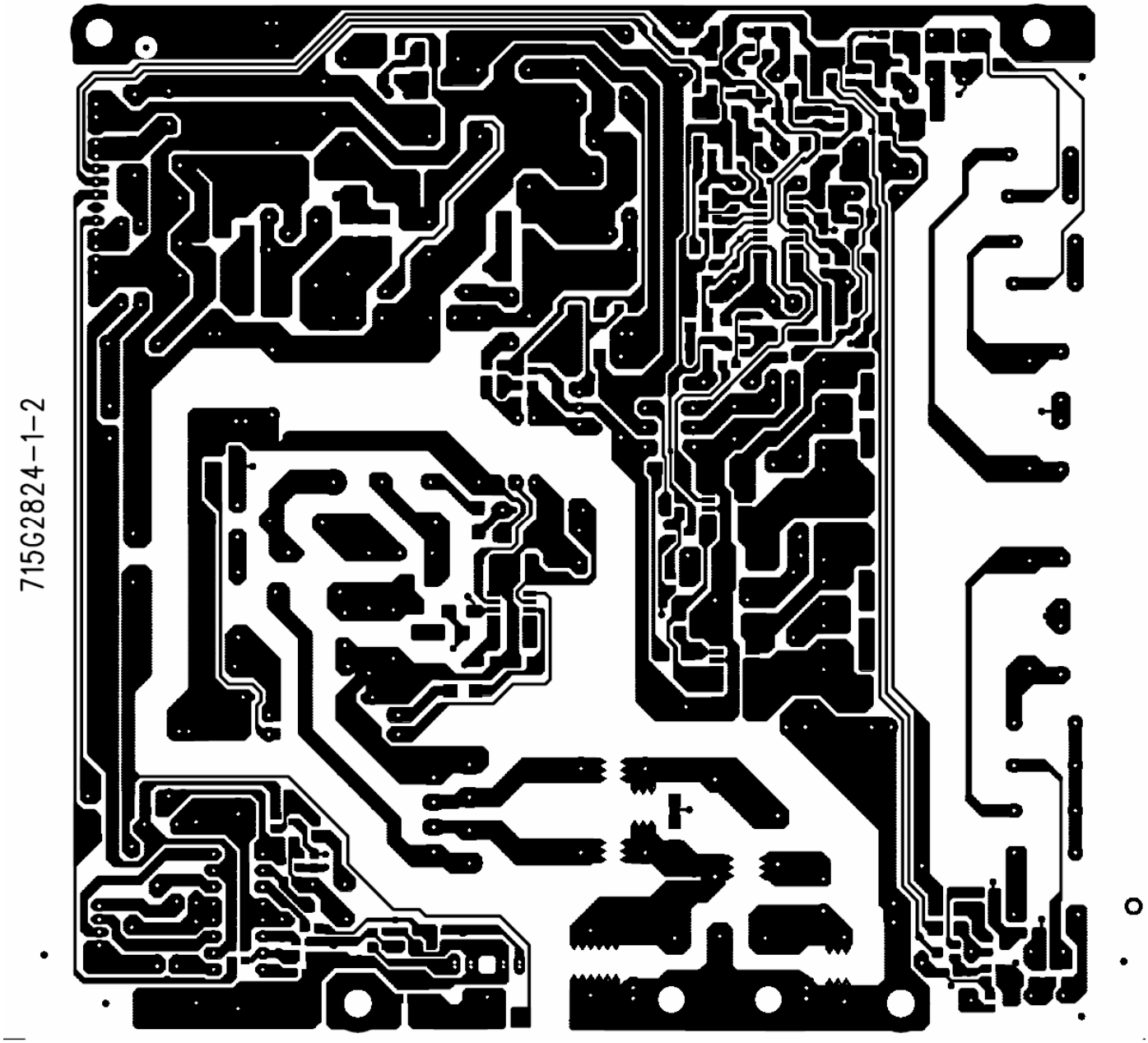


7.2 Power Board

715G2824 1 2

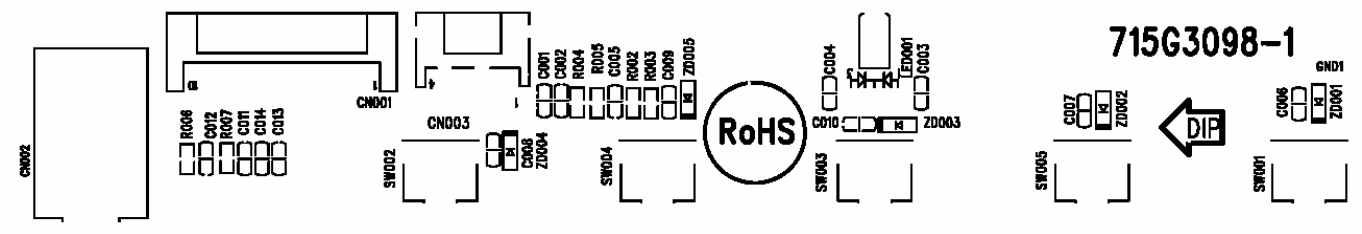



LABEL POSITION
CN902
ON/OFF
+5V1
CN802
CN801
CN804
CN803
CN601
CN602
CN901
T801
T802
U601
U901
IC903
IC904
Q801
Q804
Q809
Q901
Q903
ZD902
ZD922
ZD921
ZD801
BD901
BD901A
L901
L903
L904
L905
L801
L802
HS1
HS2
HS3
HS5
HS6
J901
J902
J903
J601
J602
J603
J604
J605
J606
J801
J802
J821
J822
CN901
L
N


715G2824-1-2

7.3 Key Board

715G3098 1



8. Maintainability

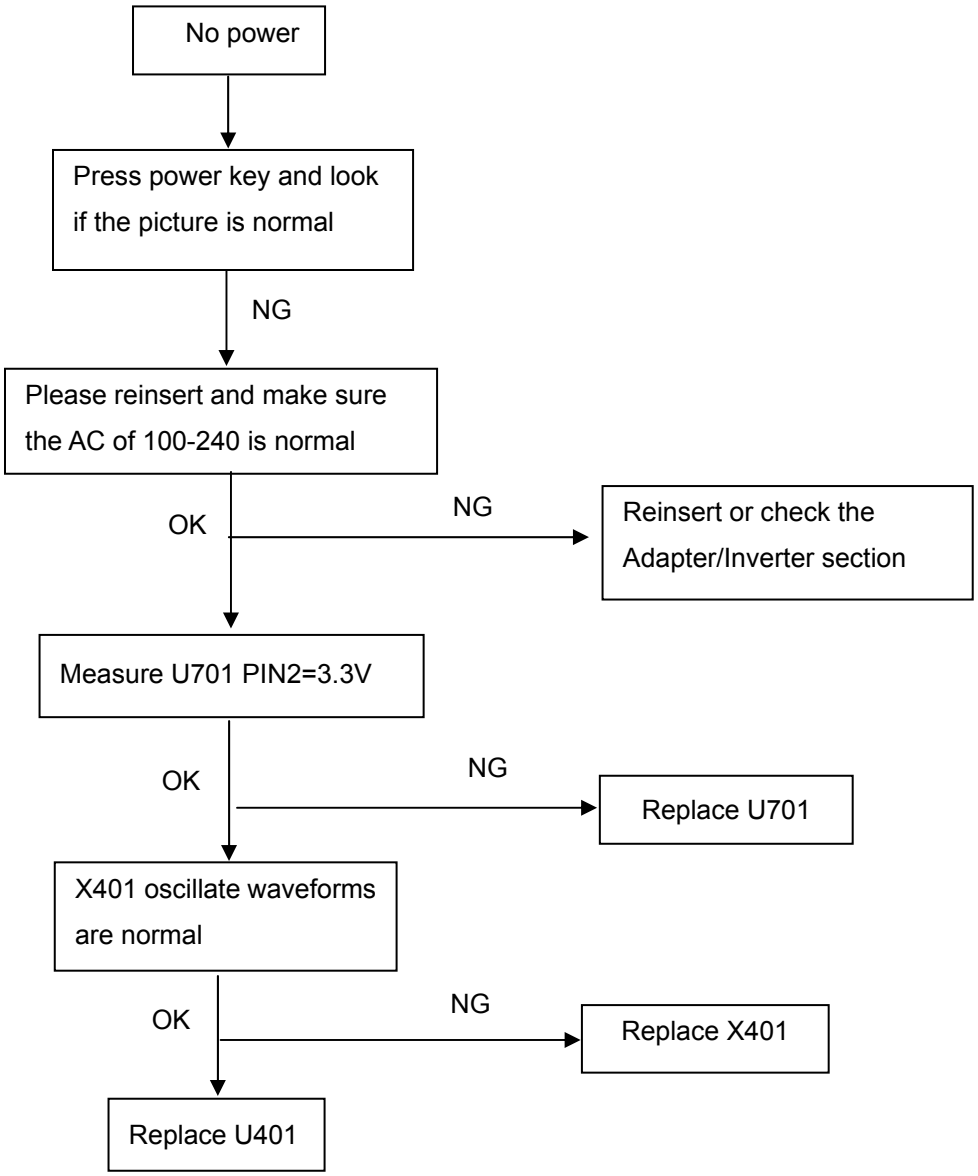
8.1 Equipments and Tools Requirement

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

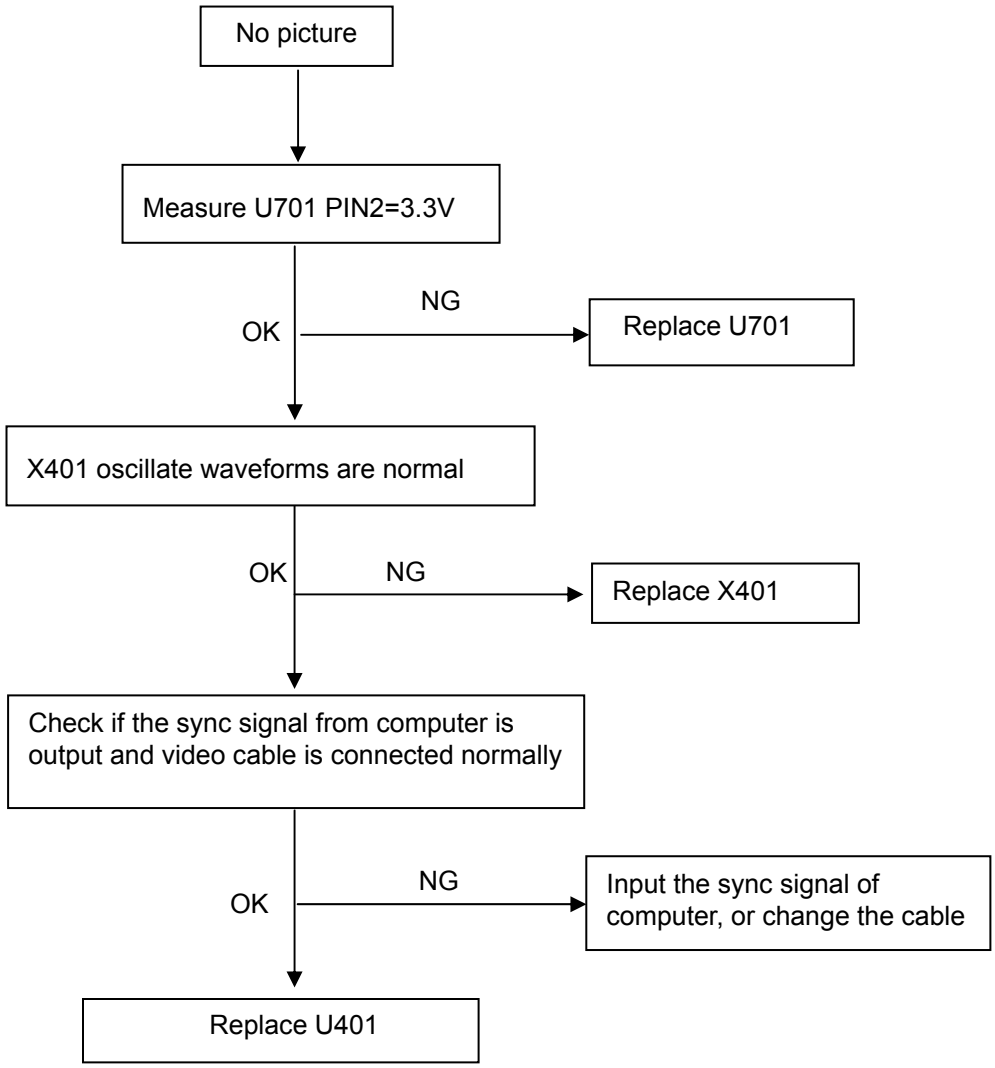
8.2 Trouble Shooting

8.2.1 Main Board

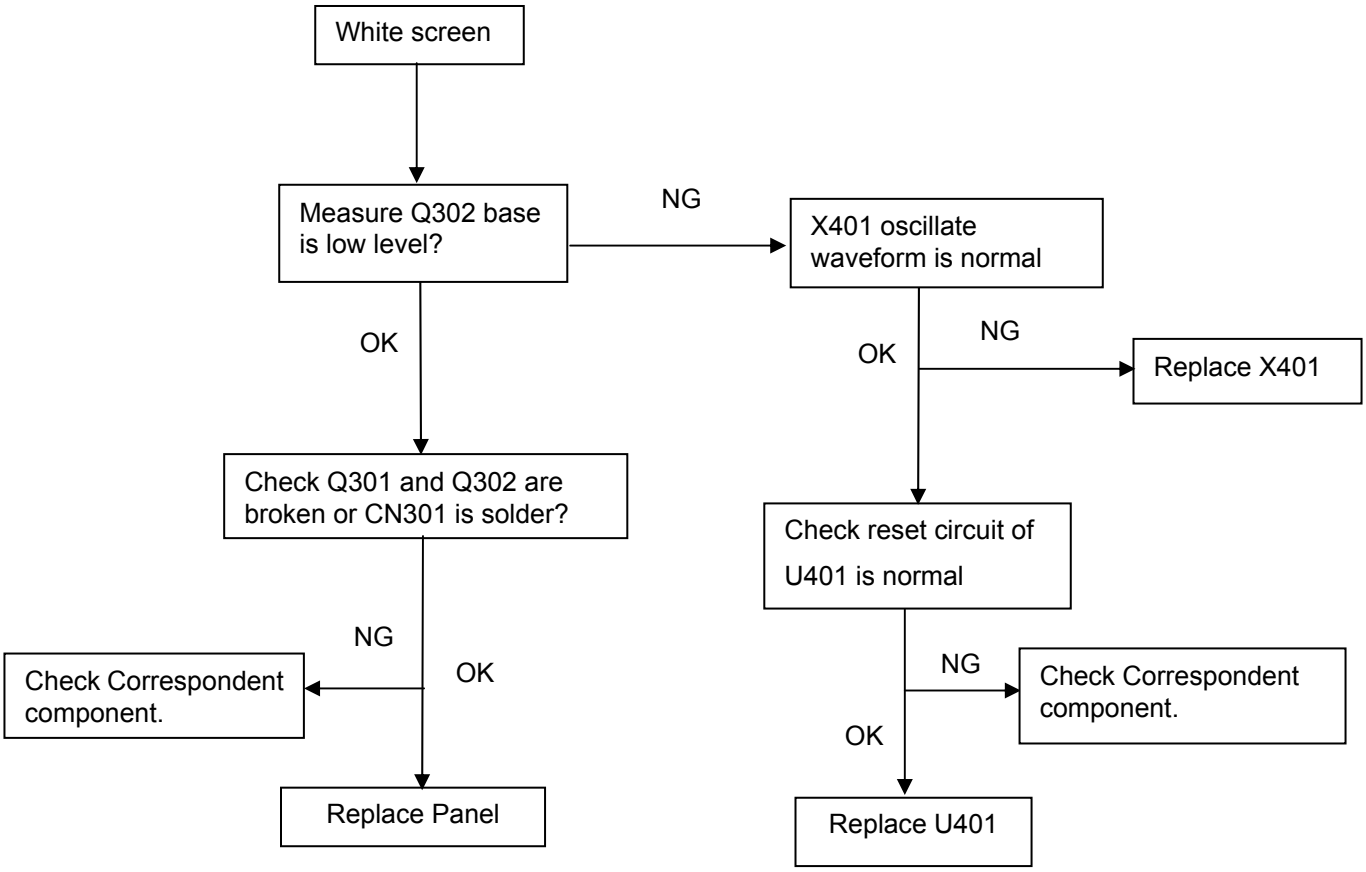
(1). No Power



(2). No Picture

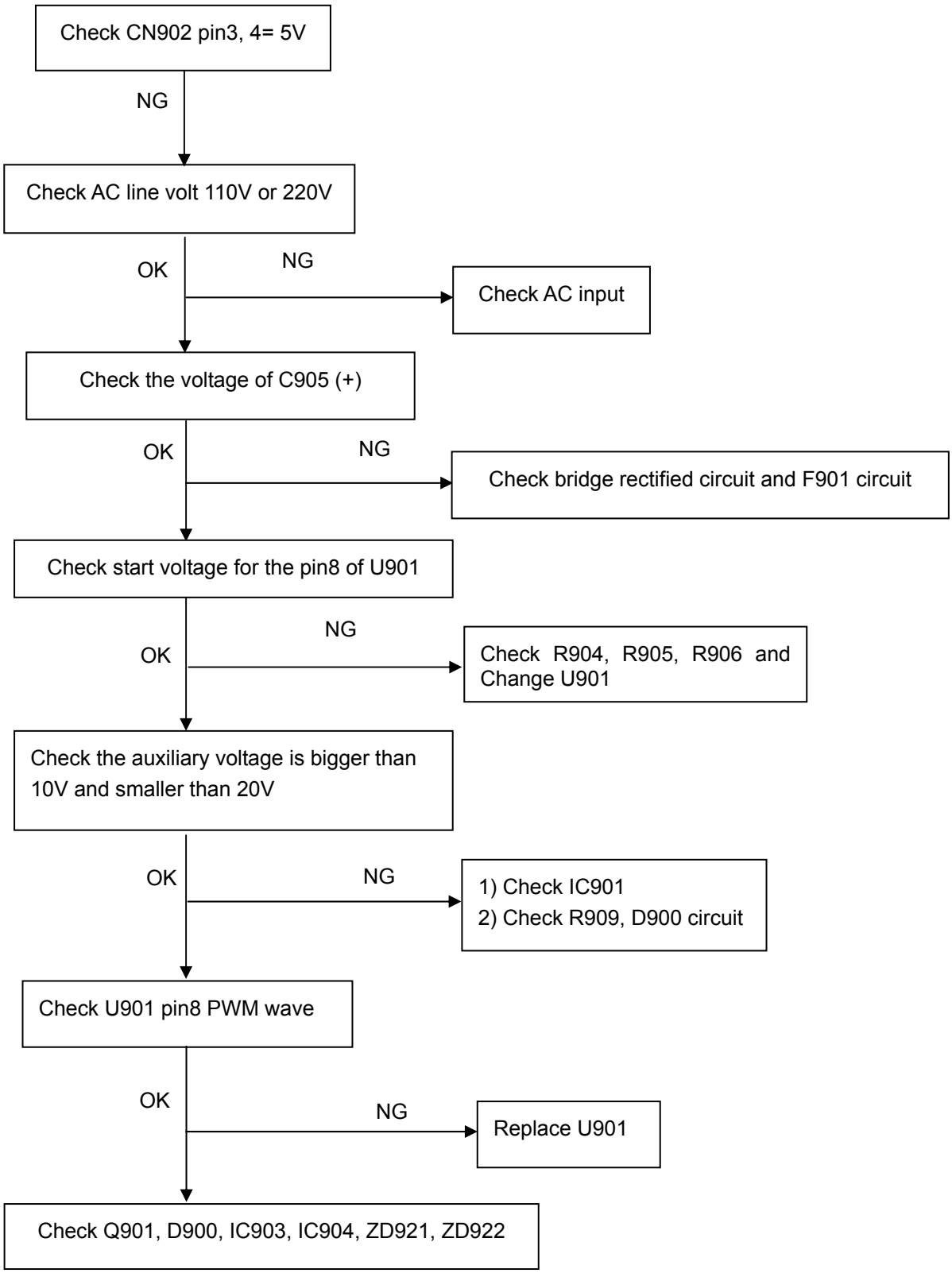

No picture
Measure U701 PIN2=3.3V
OK
NG
Replace U701
X401 oscillate waveforms are normal
OK
NG
Replace X401
Check if the sync signal from computer is output and video cable is connected normally
OK
NG
Input the sync signal of computer, or change the cable
Replace U401

(3). White screen

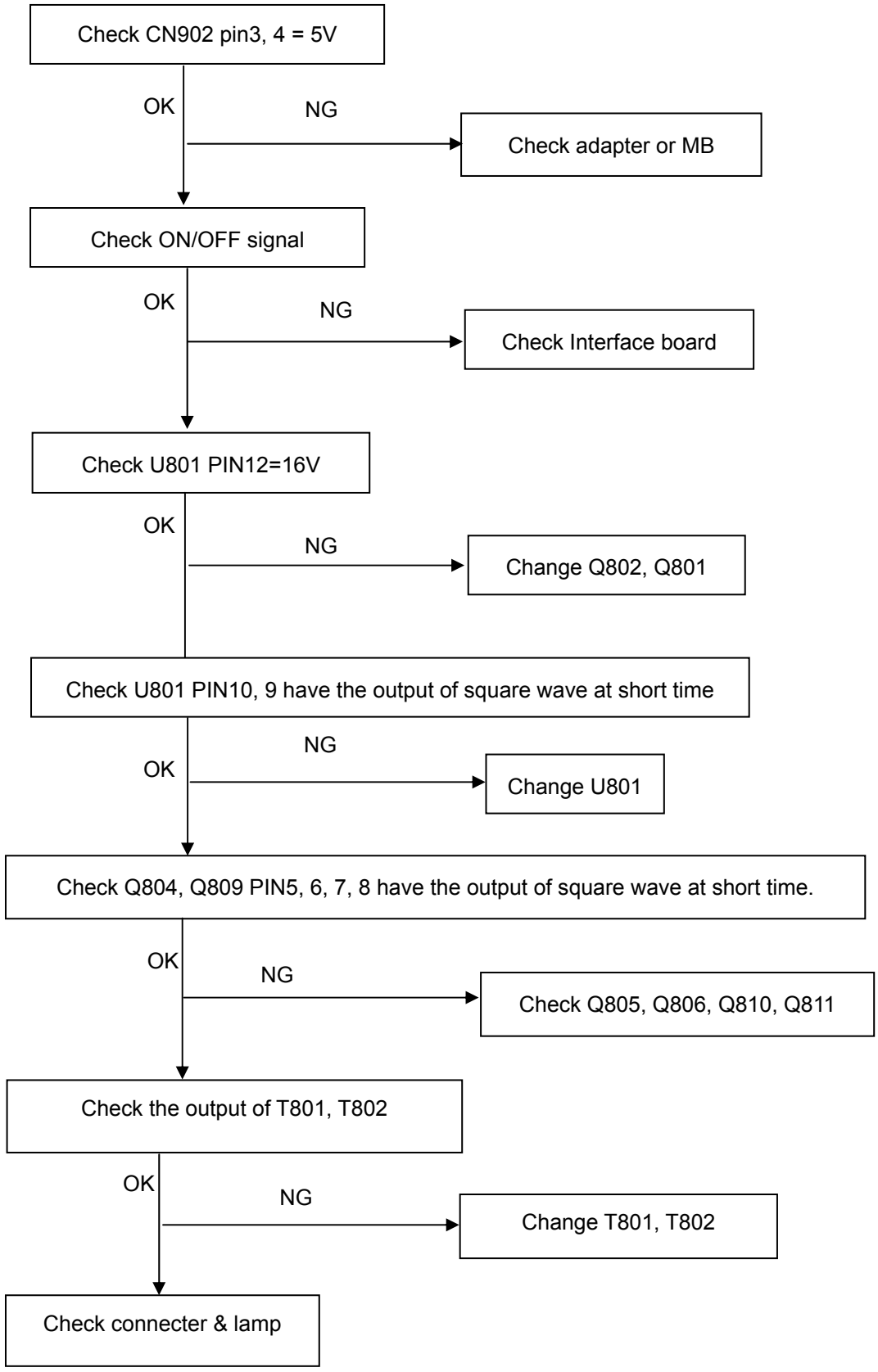


8.2.2 Power/Inverter Board

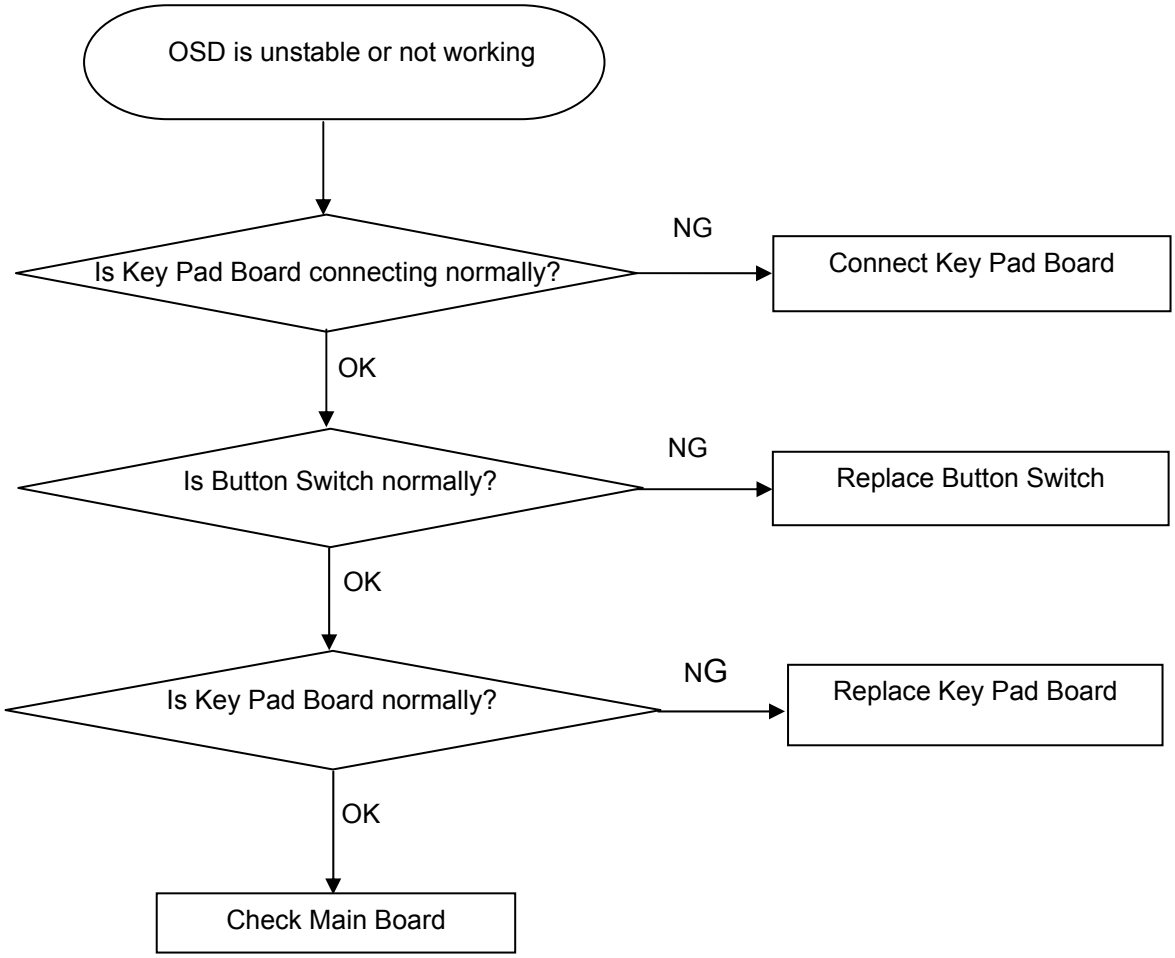
1.) No power



2.) W / LED, 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 ±30, y = 329 ±30, Y=230cd/m2(typ); Normal color parameter is x = 301 ±30, y = 317 ±30, Y=200cd/m2 (typ); Cool color parameter is x = 283 ±30, y = 297 ±30, Y=180cd/m2 (typ); sRGB color parameter is x = 313 ±20, y = 329 ±20, Y= 230cd/m2)

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 ±30, y = 329 ±30, Y>150cd/ m2(typ)

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is x = 302 ±30, y = 318 ±30, Y>150cd/ m2 (typ)

C. MEM.CHANNEL 9(Cool color):

Cool color temp. parameter is x = 283 ±30, y = 297 ±30, Y>130cd/m2 (typ)

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y>150cd/m2

3. Into Factory mode of AOC 931Fwz:

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 90.

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 ±30, y = 329 ±30, Y=230cd/m2 (typ)
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE 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±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 ± 30, y = 317 ± 30, Y=200cd/m2 (typ)
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE 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±2

C. Adjust Cool (9300K) color-temperature

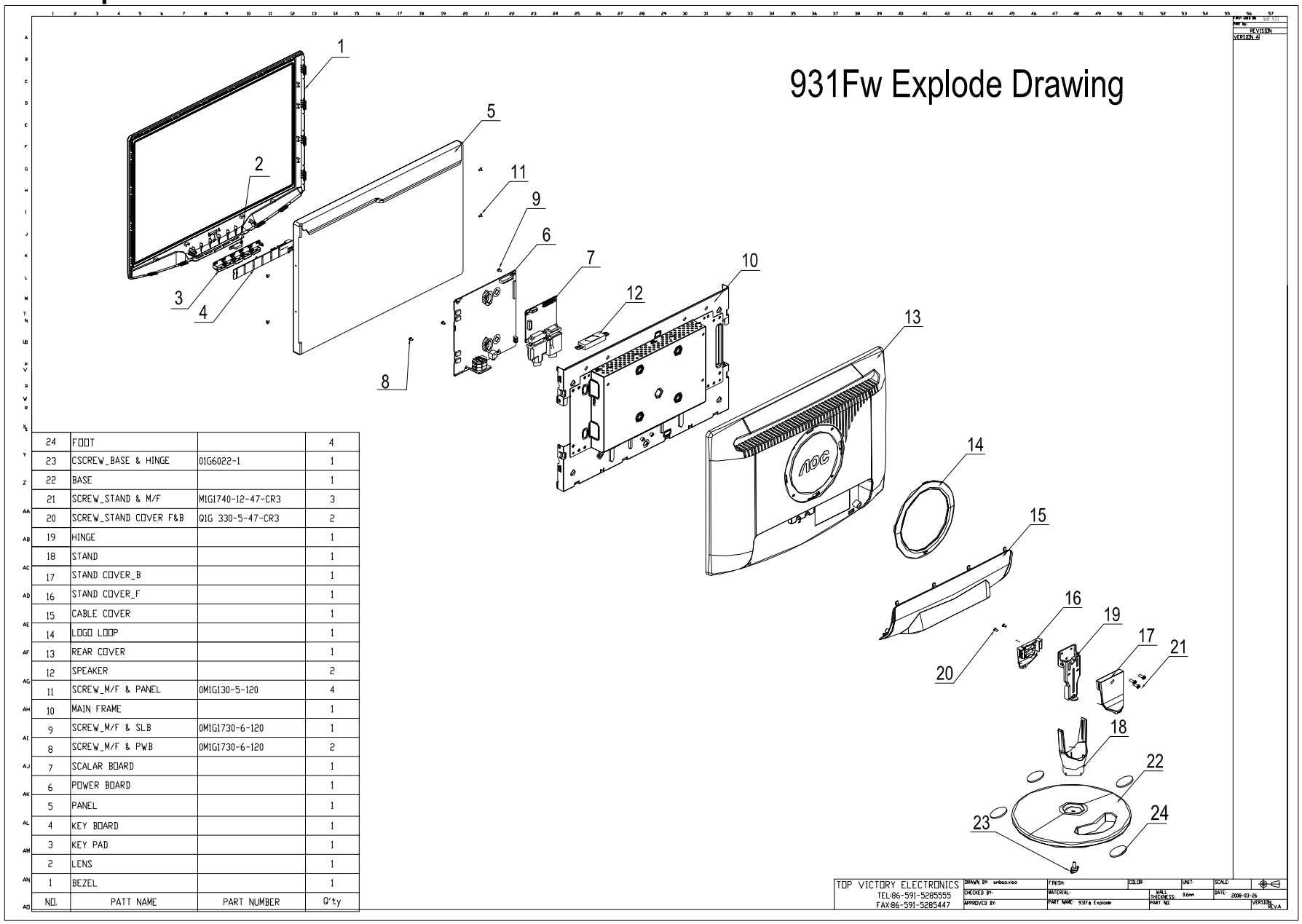
1. Switch the Chroma-7120 to RGB-Mode (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±30, y = 297 ±30, Y=180cd/m2 (typ)
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE 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±2

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 ±30, y = 329 ±30, Y= 230cd/m2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE 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±2

E. Turn the Power-button off to quit from factory mode.

9. Monitor Exploded View



NO.	PATT NAME	PART NUMBER	Q'ty
24	FOOT		4
23	CSCREW_BASE & HINGE	01G6022-1	1
22	BASE		1
21	SCREW_STAND & M/F	M1G1740-12-47-CR3	3
20	SCREW_STAND COVER F&B	Q1G 330-5-47-CR3	2
19	HINGE		1
18	STAND		1
17	STAND COVER_B		1
16	STAND COVER_F		1
15	CABLE COVER		1
14	LOGO LOOP		1
13	REAR COVER		1
12	SPEAKER		2
11	SCREW_M/F & PANEL	0M1G130-5-120	4
10	MAIN FRAME		1
9	SCREW_M/F & SLB	0M1G1730-6-120	1
8	SCREW_M/F & PWB	0M1G1730-6-120	2
7	SCALAR BOARD		1
6	POWER BOARD		1
5	PANEL		1
4	KEY BOARD		1
3	KEY PAD		1
2	LENS		1
1	BEZEL		1

11. BOM List

T97MMTNQW6A16N

Location	Part No.	Description	Remark
	001G6022 1	SCREW	
	026G 800504 3	BARCODE LABEL FOR 4	
	040G 154501 1	HI-POT GND LABEL	
	040G 58162461A	EPA LABEL	
	045G 77500	BARCODE RIBBON	
	045G 77501	BARCODE RIBBON	
	051G6001 2	DESICCANT	
	052G 1150 C	INSULATING TAPE	
	052G 1186	SMALL TAPE	
	052G 1207 A	CONDUCTIVE TAPE 45mm *25mm *0.08mm	
	052G 1211 B	AL TAPE	
	052G6019 1	INSULATING TAPE	
	052G6026 1	MESH PRINTTING PAPER	
	052G6026 2	MESH PRINTTING PAPER	
	070GHDCP500HDC MSTAR-HDCP	HDCP CODE	
	078G 477500 Y	SPK 4 OHM 2W 54X17mm 380 420 SUNLINK	
	089G 17356C553	AUDIO CABLE 1800MM	
	089G 725CAA DB	D-SUB	
	089G1745HAA AC	DVI CABLE	
	089G179E30N513	FFC CABLE	
	089G402A15NIS1	POWER CORD	
E09501	095G801410D598	WIRE HARNESS 10P(PH)-4P(PH)+6P(PH)	2nd source
E09501	095G801410X598	WIRE HARNESS 10P(PH)-4P(PH)+6P(PH)	
	0M1G 130 5120	SCREW	
	0M1G1730 6120	SCREW,42-D020523	
	0M1G1730 6120	SCREW,42-D020523	
	0M1G1740 12 47 CR3	SCREW	
	705GQ834167	19" LCD STAND BASE ASS'Y	
	0Q1G 330 5 47 CR3	SCREW	
	Q12G6600 6	FOOT	
	Q33G0190AEP 1M0100	STAND COVER F	
	Q33G0191AEP 1M0100	STAND COVER B	
	Q34G0359AEP 1M0100	STAND	
	Q34G0360AEP 1M0100	BASE	
	Q37G0072012CKD	HINGE	
E750	750GLM90Z1112N	PANEL M190Z1-L01 C1 NB CMO	
E750	750GLM90Z1122N	PANEL M190Z1-L01 C1 NB CMO	2nd source
	CBPC8MMTA1Q2	CONVERSION BOARD	
	040G 45762412B	CBPC LABEL	
CN402	033G3802 6	WAFER	
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH	
CN301	033G801930F CH JS	CONNECTOR	
R708	061G152M159 64	6.2 OHM 2W 5% MOF	
C402	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI	
C419	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI	
C706	067G 3151014KV	EC 105℃ CAP 100uF M 25V	
C707	067G 3151014KV	EC 105℃ CAP 100uF M 25V	
C305	067G 3151014KV	EC 105℃ CAP 100uF M 25V	
C704	067G 3151014KV	EC 105℃ CAP 100uF M 25V	
CN101	088G 35315F H	D-SUB 15PIN	
CN102	088G 35424F N	DVI 24PIN CONN F WITH SCREWS	
X401	093G 22 53 J	14.31818MHZ/32PF/49US	

U401	056G 562563	IC TSUMO58GHL-LF PQFP-100	
U701	056G 585 4A	IC AP1117E33L-13	
U103	056G 662 13	IC AZC099-04S SOT23-6L	
U104	056G 662 13	IC AZC099-04S SOT23-6L	
U105	056G 662 13	IC AZC099-04S SOT23-6L	
U106	056G 662 13	IC AZC099-04S SOT23-6L	
U107	056G 662 13	IC AZC099-04S SOT23-6L	
U403	056G1133 32	IC M24C04-WMN6TP SO8	
U402	056G1133 81 WA8M8T9MDQ1	SST25LF020A-33-4C-SAE	
Q701	057G 417 12 T	KEC 2N3904S-RTK/PS	
Q302	057G 417 13 T	KEC 2N3906S-RTK/PS	
Q702	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q703	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q301	057G 763 1	A03401 SOT23 BY AOS(A1)	
R423	061G0402000	RST CHIPR 0 OHM +-5% 1/16W	
R430	061G0402000	RST CHIPR 0 OHM +-5% 1/16W	
R134	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R132	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R131	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R130	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R129	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R128	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R127	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R126	061G0402100	RST CHIPR 10 OHM +-5% 1/16W	
R117	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R115	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R114	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R113	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R111	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R109	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R105	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R101	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R118	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R431	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R425	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R424	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R422	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R417	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R416	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R415	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R409	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R119	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R706	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R104	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R103	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R705	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R703	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R702	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R442	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R441	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R440	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R412	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	

R411	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R303	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R135	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R133	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R120	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R421	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W	
R420	061G0402121	RST CHIP 120R 1/16W 5%	
R419	061G0402121	RST CHIP 120R 1/16W 5%	
R106	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R107	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R401	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R443	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R444	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W	
R110	061G0402471	RST CHIPR 470 OHM +-5% 1/16W	
R124	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R125	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R137	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R138	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R302	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R704	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R304	061G0402473	RST CHIPR 47 KOHM +-5% 1/16W	
R139	061G0402682	RST CHIP 6K8 1/16W 5%	
R410	061G0402682	RST CHIP 6K8 1/16W 5%	
R108	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R112	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R116	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R102	061G0603000	RST CHIPR 0 OHM +-5% 1/10W	
R403	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R305	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
FB403	061G0805000 F	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R301	061G1206331	RST CHIPR 330 OHM +-5% 1/4W	
C107	065G0402102 32	1000PF +-10% 50V X7R	
C121	065G0402102 32	1000PF +-10% 50V X7R	
C122	065G0402102 32	1000PF +-10% 50V X7R	
C124	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C710	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C711	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C712	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C414	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C415	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C417	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C418	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C422	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C431	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C432	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C433	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C434	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C435	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C701	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C705	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C708	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C709	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C115	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C301	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C302	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	

C403	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C404	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C405	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C407	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C408	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C409	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C411	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C412	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C413	065G0402104 15	MLCC 0402 0.1UF K 16V X5R	
C104	065G0402220 31	CHIP 22PF 50V NPO	
C103	065G0402220 31	CHIP 22PF 50V NPO	
C423	065G0402224 17	CAP CER 0.22UF -20%-80%	
C401	065G0402224 17	CAP CER 0.22UF -20%-80%	
C421	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C420	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C108	065G0402473 12	CHIP 0.047uF 16V X7R	
C106	065G0402473 12	CHIP 0.047uF 16V X7R	
C102	065G0402473 12	CHIP 0.047uF 16V X7R	
C110	065G0402473 12	CHIP 0.047uF 16V X7R	
C111	065G0402473 12	CHIP 0.047uF 16V X7R	
C114	065G0402473 12	CHIP 0.047uF 16V X7R	
C113	065G0402509 31	CHIP 5pF 50V NPO	
C109	065G0402509 31	CHIP 5pF 50V NPO	
C105	065G0402509 31	CHIP 5pF 50V NPO	
FB702	071G 56G301 EA	BEAD 300OHM	
FB401	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB402	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB404	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB104	071G 59G301	CHIP BEAD 300OHM	
FB105	071G 59G301	CHIP BEAD 300OHM	
FB107	071G 59G301	CHIP BEAD 300OHM	
FB703	071G 59G301	CHIP BEAD 300OHM	
FB108	071G 59G301	CHIP BEAD 300OHM	
FB406	071G 59G301	CHIP BEAD 300OHM	
FB704	071G 59G301	CHIP BEAD 300OHM	
FB101	071G 59K190 B	19 OHM BEAD	
FB102	071G 59K190 B	19 OHM BEAD	
FB103	071G 59K190 B	19 OHM BEAD	
D109	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D702	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D108	093G 60505	DIO SIG SM BAT54C(PHSE)R	
D104	093G 60505	DIO SIG SM BAT54C(PHSE)R	
ZD104	093G 39GA01 T	RLZ5.6B	
ZD105	093G 39GA01 T	RLZ5.6B	
D701	093G3004 3	SM340A	
	715G2883 1	MAIN PCB FR-4 D/S 67X80MM	
	KEPC8QQ2	KEY BOARD	
CN003	033G3802 4 DH JF	WAFER	
CN001	033G380210H	WAFER 10P RIGHT ANGLE PITCH	
SW003	077G 602 1 CJ	TACT SWITCH	
SW002	077G 602 1 CJ	TACT SWITCH	
SW001	077G 602 1 CJ	TACT SWITCH	
SW005	077G 602 1 CJ	TACT SWITCH	
SW004	077G 602 1 CJ	TACT SWITCH	

LED001	081G 122CT GP	LED GP34032C/G307-ZY-60	
CN002	088G 30217T TO	PHONE JACK+SWITCH	
R003	061G0603000 1F	RST CHIPR 0 OHM +-1% 1/10W	
R005	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R004	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
R002	061G0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
R006	061G0603201	RST CHIPR 200 OHM +-5% 1/10W	
R007	061G0603201	RST CHIPR 200 OHM +-5% 1/10W	
C012	065G0603471 32	CHIP 470PF 50V X7R	
C011	065G0603471 32	CHIP 470PF 50V X7R	
C013	065G0603471 32	CHIP 470PF 50V X7R	
C014	065G0603471 32	CHIP 470PF 50V X7R	
	715G3098 1	KEY PCB FR-4 T:1.6MM 20X156MM	
	PWPC8942MYK1	POWER BOARD	
	040G 45762412B	CBPC LABEL	
CN602	033G3802 4	WAFER EH-4	
CN801	033G8021 2E U	INVERT CONNECTOR	
CN802	033G8021 2E U	INVERT CONNECTOR	
CN803	033G8021 2E U	INVERT CONNECTOR	
CN804	033G8021 2E U	INVERT CONNECTOR	
IC903	056G 139 3A	IC PC123Y22FZ0F	
IC601	056G 616 34	IC APA2069JITUL 2.6W*2 PDIP-16	
NR901	061G 5810T	RST NTCR 8 OHM +-20% 4A 13mm THINKING	
C801	065G 3J1806ET	18PF 5% SL3KV TDK	
C812	065G 3J1806ET	18PF 5% SL3KV TDK	
C825	065G 3J1806ET	18PF 5% SL3KV TDK	
C826	065G 3J1806ET	18PF 5% SL3KV TDK	
C902	065G306M1022BP	1000PF Y1.CAP	
C901	065G306M1022BP	1000PF Y1.CAP	
C900	065G306M3322BP	3300PF 20%	
C905	067G 40Z12115A	CAP 105C 120UF M 450V	
C905	067G 40Z12115K	EC 120uF V 450V 20*40mm	
C905	067G 40Z12115P	CAP 105C 120UF M 450V	
C915	067G215D4713KV	ELCAP 105℃ 470UF M 16V	
C918	067G215D6814KV	CAP 105℃ 680uF M 25V	
C917	067G215D6814KV	CAP 105℃ 680uF M 25V	
C916	067G215P1023AV	CAP 105℃ 1000UF M 16V	
C934	067G215P1023AV	CAP 105℃ 1000UF M 16V	
C939	067G215P1024AV	CAP 105℃ 1000UF M 25V	
C915	067G215P4713AV	CAP 105℃ 470UF M 16V	
C811	067G215P4714AV	CAP 105℃ 470UF M 25V	
C805	067G215P4714AV	CAP 105℃ 470UF M 25V	
C917	067G215P6814AV	CAP 105C 680UF M 25V	
C918	067G215P6814AV	CAP 105C 680UF M 25V	
C916	067G215S102 3K	ED1000UF 16V	
C934	067G215S102 3K	ED1000UF 16V	
C939	067G215S1024KV	EC 105℃ CAP 1000UF M 25V	
C811	067G215S4714KL	LOW ESR EC 470UF 25V BY	
C805	067G215S4714KL	LOW ESR EC 470UF 25V BY	
L903	073G 253 91 L	CHOKE BY LI TA	
L904	073G 253 91 L	CHOKE BY LI TA	
L905	073G 253 91 L	CHOKE BY LI TA	
L901	073L 174 40 HG	GBQM4.778.391	
T801	080GL20T510 H	X'FMR INVERTER	
T802	080GL20T510 H	X'FMR INVERTER	
T801	080GL20T510 DN	X'FMR INVERTER 142uH	

T802	080GL20T510 DN	X'FMR INVERTER 142uH	
T901	080GL22T 3 N	X'FMR 510uH YUVA-822	
CN901	087G 501 32 S	AC SOCKET	
CN601	088G 30214K DC	PHONE JACK 5PIN	
BD901A	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
D907	093G3006 1 1	31DQ06FC3 NIHON INTER	
CN902	095G 82014W510	WIRE HARNESS 14P(SAN)-9(PH)	
C908	096G 29 8	TUBE	
C605	096G 29 8	TUBE	
C604	096G 29 8	TUBE	
	705GQ757021	Q901 ASS'Y	
Q901	057G 667 30	2SK2645	
Q901	057G 724 11	STP9NK65ZFP	
	AM1G1730 8120	SCREW	
HS5	Q90G6263 6	HEAT SINK	
	705GQ793071	D908 ASS'Y	
D908	093G 60269	MBRF2060CT ITO-220AB	
	0M1G1730 8120	SCREW	
HS6	Q90G6263 6	HEAT SINK	
	705GQ793078	D906 ASS'Y	
D906	093G 60238	FCH10A15	
	0M1G1730 8120	SCREW	
HS3	Q90G6263 6	HEAT SINK	
U801	056G 379 22	IC TL494IDR SOIC-16	
U901	056G 379 98	IC LD7552DPS SOP-8	
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q810	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q803	057G 417 4	PMBS3904/PHILIPS-SMT(04)	
Q607	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q806	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q805	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q809	057G 600 55	P5506 HVG SO-8	
Q804	057G 600 55	P5506 HVG SO-8	
Q608	057G 759 2	RK7002	
Q808	057G 759 2	RK7002	
Q801	057G 760 4B	PDTA144WK SOT346	
Q802	057G 760 5B	PDTC144WK SOT346	
Q804	057G 763 14	AM9945N	
Q809	057G 763 14	AM9945N	
R827	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R848	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R849	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	
R853	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R852	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R840	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R838	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R833	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R831	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R824	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R819	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R808	061G0603100 2F	RST CHIPR 10K OHM +-1% 1/10W	
R813	061G0603101	RST CHIPR 100 OHM +-5% 1/10W	

R823	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R601	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R602	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R603	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R604	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R605	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R609	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W	
R809	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R817	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R821	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R836	061G0603105	RST CHIPR 1M OHM +-5% 1/10W	
R818	061G0603205	RST CHIPR 2 MOHM +-5% 1/10W	
R844	061G0603220	RST CHIPR 22 OHM +-5% 1/10W	
R845	061G0603220	RST CHIPR 22 OHM +-5% 1/10W	
R846	061G0603220	RST CHIPR 22 OHM +-5% 1/10W	
R847	061G0603220	RST CHIPR 22 OHM +-5% 1/10W	
R927	061G0603243 1F	RST CHIPR 2.43K OHM +-1% 1/10W	
R930	061G0603243 1F	RST CHIPR 2.43K OHM +-1% 1/10W	
R610	061G0603273 Y	RST CHIPR 27KOHM +-5% 1/10W YAGEO	
R612	061G0603362 Y	RST CHIPR 3.6KOHM +-5% 1/10W YAGEO	
R815	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R828	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R842	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W	
R611	061G0603472 Y	RST CHIPR 4.7KOHM +-5% 1/10W YAGEO	
R822	061G0603473	RST CHIPR 47 KOHM +-5% 1/10W	
R606	061G0603562	RST CHIPR 5.6 KOHM +-5% 1/10W	
R607	061G0603562	RST CHIPR 5.6 KOHM +-5% 1/10W	
R820	061G0603564	RST CHIPR 560 KOHM +-5% 1/10W	
R816	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R829	061G0603680 2F	RST CHIPR 68K OHM +-1% 1/10W	
R814	061G0603750 2F	RST CHIPR 75KOHM +-1% 1/10W	
R830	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R832	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
RJ610	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R608	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R801	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R804	061G0805000	RST CHIPR 0 OHM +-5% 1/8W	
R806	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R841	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R839	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R835	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R834	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R812	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R811	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R807	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W	
R802	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W	
R939	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R925	061G0805102	RST CHIPR 1K OHM +-5% 1/8W	
R938	061G0805103	RST CHIPR 10K OHM +-5% 1/8W	
R843	061G0805105	RST CHIPR 1M OHM +-5% 1/8W	
R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W	
R826	061G0805180 3F	RST CHIPR 180 KOHM +-1% 1/8W	
R943	061G0805471	RST CHIPR 470 OHM +-5% 1/8W	
R825	061G0805510 2F	RST CHIPR 51K OHM +-1% 1/8W	
RJ801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	

RJ803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ804	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ805	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ806	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ807	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ808	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ809	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ810	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
RJ901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W	
R910	061G1206100	RST CHIPR 10 OHM +-5% 1/4W	
R962	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R961	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R951	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R950	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R949	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R935	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R920	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R919	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R918	061G1206101	RST CHIPR 100 OHM +-5% 1/4W	
R901	061G1206105	1M 1206	
R902	061G1206105	1M 1206	
R810	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R837	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R850	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R851	061G1206150	RST CHIPR 15 OHM +-5% 1/4W	
R912	061G1206221	RST CHIPR 220 OHM +-5% 1/4W	
R904	061G1206304	RST CHIPR 300k OHM +-5% 1/4W	
R905	061G1206304	RST CHIPR 300k OHM +-5% 1/4W	
R906	061G1206304	RST CHIPR 300k OHM +-5% 1/4W	
R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W	
C610	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R	
C611	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R	
C932	065G0603102 32	1000PF +-10% 50V X7R	
C804	065G0603104 12	CER2 0603 X7R 16V 100N P	
C807	065G0603104 12	CER2 0603 X7R 16V 100N P	
C814	065G0603104 12	CER2 0603 X7R 16V 100N P	
C613	065G0603104 12	CER2 0603 X7R 16V 100N P	
C612	065G0603104 12	CER2 0603 X7R 16V 100N P	
C810	065G0603104 22	CAP CHIP 0603 0.1UF K 25V X7R	
C802	065G0603105 12	CHIP 1UF 16VX7R 0603	
C806	065G0603105 12	CHIP 1UF 16VX7R 0603	
C819	065G0603105 12	CHIP 1UF 16VX7R 0603	
C820	065G0603105 12	CHIP 1UF 16VX7R 0603	
C818	065G0603222 22	CHIP 2200PF 25V X7R	
C817	065G0603222 22	CHIP 2200PF 25V X7R	
C815	065G0603222 22	CHIP 2200PF 25V X7R	
C813	065G0603222 22	CHIP 2200PF 25V X7R	
C606	065G0603474 12	MLCC 0603 0.47UF K 16V X7R	
C603	065G0603474 12	MLCC 0603 0.47UF K 16V X7R	
C602	065G0603474 12	MLCC 0603 0.47UF K 16V X7R	
C601	065G0603474 12	MLCC 0603 0.47UF K 16V X7R	
C928	065G0805102 31	CAP CHIP 0805 1000PF J 50V NPO	
C824	065G0805104 22	0.1UF +-10% 25V X7R 080	
C823	065G0805104 22	0.1UF +-10% 25V X7R 080	
C940	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C931	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	

C930	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C924	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C907	065G0805104 32	CAP CHIP 0805 0.1uF K 50V X7R	
C608	065G0805105 22	CAP CHIP 0805 1uF K 25V X7R	
C609	065G0805105 22	CAP CHIP 0805 1uF K 25V X7R	
C822	065G0805152 32	CHIP 1500PF 50V X7R 0805	
C821	065G0805152 32	CHIP 1500PF 50V X7R 0805	
C816	065G0805152 32	CHIP 1500PF 50V X7R 0805	
C803	065G0805152 32	CHIP 1500PF 50V X7R 0805	
C809	065G0805221 31	CAP CHIP 0805 220PF J 50V NPO	
C808	065G0805225 22	CHIP 2.2UF 25V X7R 0805	
C909	065G0805471 21	CAP CHIP 0805 470PF J 25V NPO	
C827	065G0805472 32	CAP CHIP 0805 4700PF K 50V X7R	
C828	065G0805472 32	CAP CHIP 0805 4700PF K 50V X7R	
C910	065G0805473 32	CHIP 0.047UF 50V X7R	
C912	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
C929	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
C935	065G1206102 72	CAP CHIP 1206 1000PF K 500V X7R	
FB902	071G 57G800 B	CHIP BEAD HCB3216KF-800T30 bullwill	
D810	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D809	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R	
D806	093G 64 38 D	DIODE BAW56 DIODES	
D808	093G 64 38 D	DIODE BAW56 DIODES	
D803	093G 6432P	LL4148	
D807	093G 6432P	LL4148	
D811	093G 6432P	LL4148	
D812	093G 6432P	LL4148	
D903	093G 6432P	LL4148	
ZD921	093G 39S 12 T	RLZ20B LLDS	
ZD922	093G 39S 24 T	RLZ 5.6B LLDS	
ZD902	093G 39S 44 T	RLZ18B LLDS	
IC904	056G 158 12	KIA431A-AT/P TO-92	
IC904	056G 158504AME	IC AME431BAJATB25Z AME	
R903	061G152M10452T	RST MOFR 100KOHM +-5% 2WS	
R946	061G152M15152T	RST MOFR 150 OHM +-5% 2WS	
R914	061G152M39852T	RST MOFR 0.39 OHM +-5% 2WS	
C906	065G 2K152 1T6213	CAP CER 1500PF K 2KV	
C604	067G215Y1014KT	EC CAP.105 度	
C908	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICHI	
C605	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICHI	
FB602	071G 55 9 T	FERRITE BEAD	
FB901	071G 55 29	FERRITE BEAD	
FB903	071G 55 29	FERRITE BEAD	
FB904	071G 55 29	FERRITE BEAD	
F901	084G 56 3 B	FUSE 3.15A 250V	
F902	084G 56 3 B	FUSE 3.15A 250V	
F903	084G 56 3 B	FUSE 3.15A 250V	
D900	093G 6026T52T	RECTIFIER DIODE FR107	
D901	093G 6038T52T	FR103	
J819	095G 90 23	JUMPER	
J820	095G 90 23	JUMPER	
J821	095G 90 23	JUMPER	
J818	095G 90 23	JUMPER	
J817	095G 90 23	JUMPER	

J816	095G 90 23	JUMPER	
J815	095G 90 23	JUMPER	
J814	095G 90 23	JUMPER	
J813	095G 90 23	JUMPER	
J812	095G 90 23	JUMPER	
J811	095G 90 23	JUMPER	
J810	095G 90 23	JUMPER	
J809	095G 90 23	JUMPER	
J807	095G 90 23	JUMPER	
J806	095G 90 23	JUMPER	
J606	095G 90 23	JUMPER	
J605	095G 90 23	JUMPER	
J604	095G 90 23	JUMPER	
J603	095G 90 23	JUMPER	
J602	095G 90 23	JUMPER	
J601	095G 90 23	JUMPER	
L906	095G 90 23	JUMPER	
J915	095G 90 23	JUMPER	
J912	095G 90 23	JUMPER	
J911	095G 90 23	JUMPER	
J910	095G 90 23	JUMPER	
J907	095G 90 23	JUMPER	
J906	095G 90 23	JUMPER	
J905	095G 90 23	JUMPER	
J904	095G 90 23	JUMPER	
J903	095G 90 23	JUMPER	
J902	095G 90 23	JUMPER	
J901	095G 90 23	JUMPER	
J823	095G 90 23	JUMPER	
J822	095G 90 23	JUMPER	
J804	095G 90 23	JUMPER	
J803	095G 90 23	JUMPER	
J802	095G 90 23	JUMPER	
J801	095G 90 23	JUMPER	
	715G2824 1 2	POWER-PCB,FR-1,94V-0,T1.6MM,160*160MM	
HS1	Q90G6295 3	HEAT SINK	
T901	S80GL22T3V	XFMR POWER 490uH TPV-PT	
	Q15G0304101CKD	MAIN FRAME	
	Q33G0188AED 1L0100	KEY PAD	
	Q33G0189 1 1C0100	LENS	
	Q34G0358BBM 1B0100	LOGO LOOP	
	Q34G0378AEPA1M0100	BEZEL(L19WA-831)	
	Q34G0379AEPA1M0100	REAR COVER19"	
	Q34G0380AEP 1M0100	CABLE COVER	
	Q36G 600517	DUSTER CLOTH	
	Q40G 19N61571A	RATING LABEL	
	Q40G000262452A	DEEVO STICK	
	Q40G000262470A	RATING LABEL	
	Q40G0002757 1A	VISTA LABEL	
	Q41G780A61566A	WARRANTY CARD	
	Q41G780A61586A	QSG 931FWZ	
	Q44G9122101	EPS CUSHION	
	Q44G9122201	EPS CUSHION	
	Q45G 76 28CK2 R	PE BAG	
	Q45G 77 5	PE PACKING	
	Q45G 88606CK2 R	PE BAG FOR BASE	

	Q45G 88607 69	PE BAG	
	Q45G 88609 89	EPE BAG FOR MONITOR	
	Q52G 1185 98	MIDDLE CARTON TAPE FOR AOC	
	Q52G 1185 99	BIG CARTON TAPE FOR AOC	
	Q70G900261522A	CD MANUAL	
	Q45G 99606 24 ESD	INSULATING PE BAG	

12. Different Parts List

Diversity of T98MMTMCW6PUDN Compared with T97MMTNQW6A16N			
Location	**Part No. for TPV**	**Description**	**Remark**
	040G 581 26704	SHIPPING LABEL	
	040G 58160811A	GREEN DOT LABEL	
	040G 58162445A	TCO'03	
	041G 68508 A	CONTROL CARD	
	044G6002608 1A	PAPER BOARD	
	044G6002608 7A	PAPER PLATE	
	044G9003214	CORNER PAPER	
	044GH600 1	HANDLE 2	
	050G 600 4	HANDLE 1	
E08902	089G 725HAA DB	D-SUB	2nd source
E08902	089G 725LAA DB	D-SUB	
	089G404A15N IS	POWER CORD	
	705GQ834147	19" LCD STAND BASE ASS'Y	
	Q34G0360AEP 1M0133	BASE	
	Q37G0072012	HINGE	
	CBPC7MMTA1Q1	CONVERSION BOARD	
	KEPC8QQ1	KEY BOARD	
	Q07G 8 3 23	COMPOUND PALLET	
	Q07G 8 3 41	COMPOUND PALLET	
	Q15G0304101	MAIN FRAME	
	Q26G 800504 2	BARCODE LABEL FOR 3	
	Q34G0378AEPA1M0130	BEZEL(L19WA-831)	
	Q34G0379AEPA1M0130	REAR COVER19"	
	Q40G 19N61588A	RATING LABEL	
	Q40G0001624 4A	PALLET LABEL	
	Q40G0002850 9A	VISTA LABEL	
	Q44G9122615 2A	19 LCD AOC CARTON	
	Q45G 88607 34	PE BAG FOR BASE	
	Q41G7800615A74	MANUAL	
	Q45G 76 28 RN R	PE BAG MANUAL	
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	