

Service
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Service Manual

Horizontal Frequency
31-80 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 TRANSFORMER FOR THIS UNIT WHEN SERVICING

Revision List

[illegible]

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	719Pa
	Driving system	TFT Color LCD
	Viewable Image Size	432mm diagonal
	Pixel pitch	0.264mm(H) x 0.264mm(V)
	Video	R, G, B Analog Interface & Digital Interface
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	54 MHz
Resolution	Horizontal scan range	31 kHz - 80 kHz
	Horizontal scan Size(Maximum)	337.920mm
	Vertical scan range	56 Hz - 75 Hz
	Vertical scan Size(Maximum)	270.336mm
	Optimal preset resolution	1280 x 1024 (60 Hz)
	Highest preset resolution	1280 x 1024 (75 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
	Power Source	100~240VAC, 50/60Hz
	Power Consumption	Active < 37 W
		Standby < 2 W
	Speakers	1.5 W x 2
Physical Characteristics	Connector Type	15-pin Mini D-Sub & 24 pin DVI-D
	Signal Cable Type	Detachable
	Dimensions & Weight	
	Height (with base)	392.5mm/ 498mm
	Width	371.5 mm
	Depth	250 mm
	Weight (monitor only)	5.65kg
	Weight (with packaging)	7.1 kg
Environmental	Temperature	
	Operating	0° to 40°
	Non-Operating	-20° to 60°
	Humidity	
	Operating	10% to 85% (non-condensing)

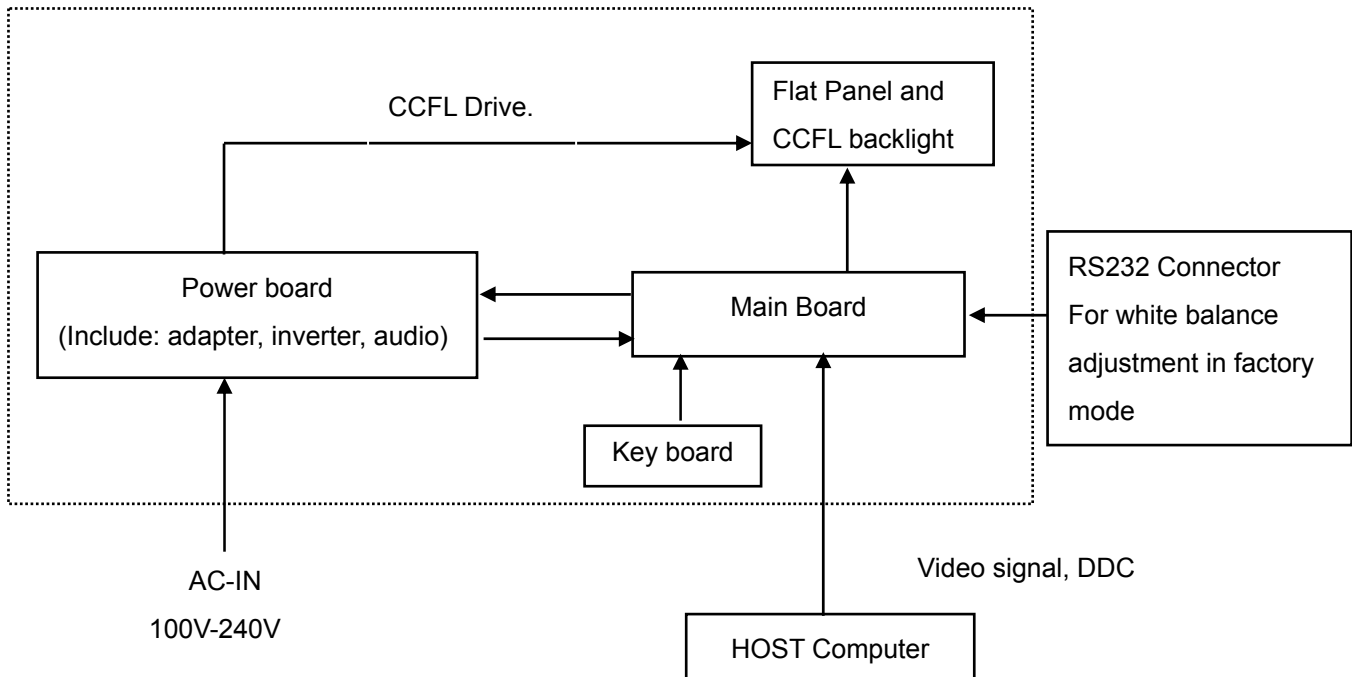
	Non-Operating	5% to 80% (non-condensing)
	Altitude	
	Operating	0~ 3000m (0~ 10000 ft)
	Non-Operating	0~ 5000m (0~ 15000 ft)

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

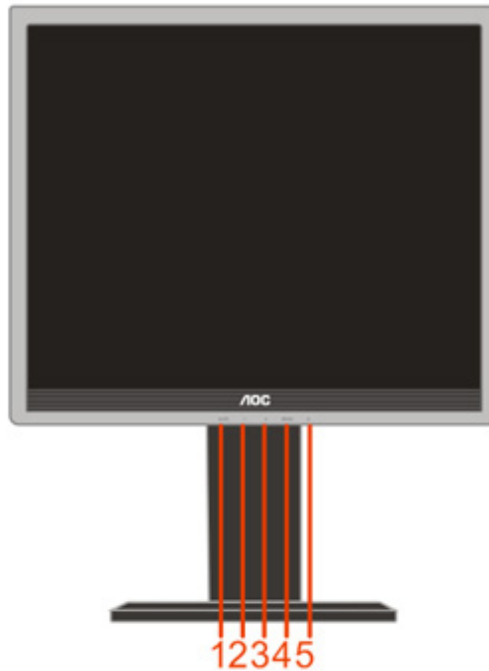
3.1 General Instructions

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

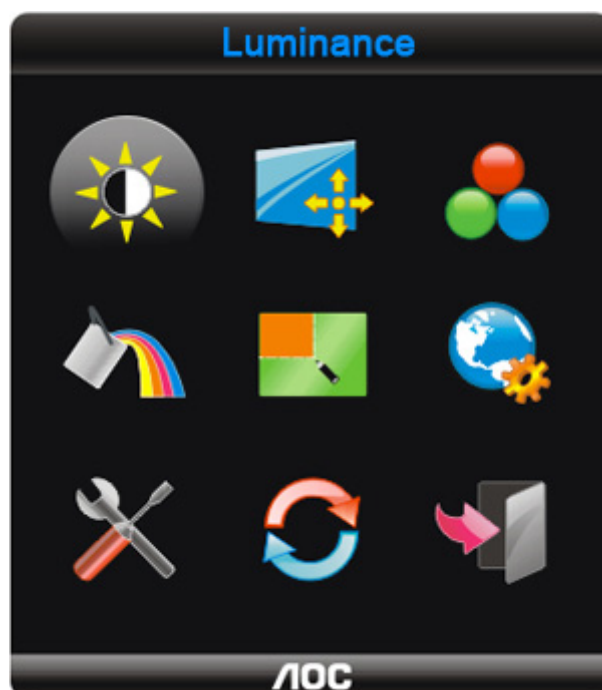


1. Source (Auto) / Exit
- 2 Eco mode / -
3. Volume / +
4. Menu / Enter
5. Power Button

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-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.
- Eco Mode hot key: Press the Eco key continuously to select the 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 	
	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 vertical position 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		
	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	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	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		
	.Position	0-100	Adjust the horizontal position of OSD
	V.Position	0-100	Adjust the vertical 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
		HDMI	Select HDMI sigal source as input (Only for the models with HDMI 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
	Reset		
	Reset	yes or no	Reset the menu to default
	Exit		
	Exit		Exit the main OSD

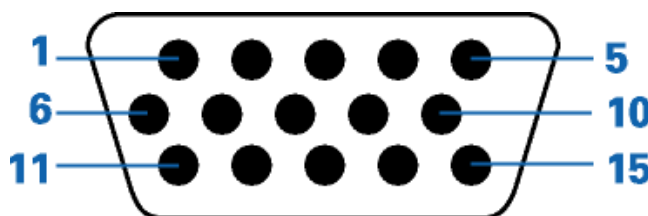
4. Input/Output Specification

4.1 Input Signal Connector

Analog connectors

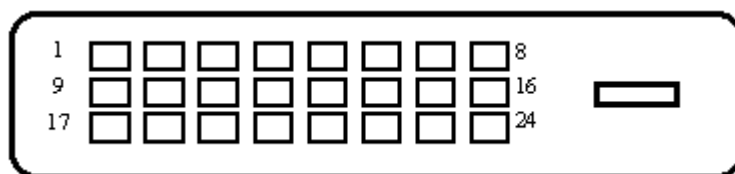
Pin No.	Description	Pin No.	Description
1.	Video-Red	9.	+5V
2.	Video-Green	10.	Ground
3.	Video-Blue	11.	N.C.
4.	N.C.	12.	DDC-Serial Data
5.	Detect Cable	13.	H-Sync
6.	GND-R	14.	V-Sync
7.	GND-G	15.	DDC-Serial Clock
8.	GND-B		

VGA connector layout



DVI connectors

Pin No.	Description	Pin No.	Description	Pin No.	Description
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 x 400	31.47	70.0
VGA	640 x 480	31.47	60.0
	640 x 480	37.50	75.0
SVGA	800 x 600	37.879	60.0
	800 x 600	46.875	75.0
XGA	1024 x 768	48.363	60.0
	1024 x 768	56.476	70.0
	1024 x 768	60.02	75.0
	1024 x 768	48.780	60.0
	1024 x 768	60.241	75.0
SXGA	1280 x 1024	64.00	60.0
	1280 x 1024	80.00	75.0

4.4 Panel Specification

4.4.1 General Features

LTM170EU-L31 is a color active matrix liquid crystal display (LCD) that uses amorphous silicon TFT (Thin Film Transistor) as switching components. This model is composed of a TFT LCD panel, a driver circuit and a back light unit. The resolution of a 17.0" is 1280x 1024 and this model can display up to 16.7 millions colors.

- ☐ RoHS compliance (Pb-free)
- ☐ High contrast ratio, high aperture ratio, fast response time
- ☐ TN(Twisted Nematic) mode
- ☐ 2 dual CCFTs(Cold Cathode Fluorescent Tube)
- ☐ DE(Data Enable) mode
- ☐ LVDS (Low Voltage Differential Signaling) interface (2pixel/clock)
- ☐ COMPACT SIZE DESIGN
- ☐ TCO'03 compliance

4.4.2 Display Characteristics

Items	Specification	Unit
Pixel Pitch	0.264(H) x 0.264(W)	mm
Active Display Area	337.92(H) x 270.336(V)	mm
Surface Treatment	Haze 25%, Hard-coating (3H)	
Display Colors	16.7M(6 bit Hi-FRC)	colors
Number of Pixels	1280 x 1024	pixel
Pixel Arrangement	RGB vertical stripe	
Display Mode	Normally White	
Power Consumption	20.4 Watt (Typ.)	
Luminance of White	300(Typ.)	cd/• •

4.4.3 Electrical Characteristics

(1) TFT-LCD

Item		Symbol	Min.	Typ.	Max.	Unit
Voltage of Power Supply		V_{DD}	4.5	5.0	5.5	V
LVDS Input Characteristics	Differential Input Voltage for LVDS Receiver Threshold	High	-	-	+100	mV
		Low	-100	-	-	mV
	LVDS skew	t_{SKEW}	-300		300	ps
	Differential input voltage	$ V_{ID} $	200		600	mV
	Input voltage range (single-ended)	V_{IN}	0		2.4	V
	Common mode voltage	V_{CM}	0+ $ V_{ID} /2$	1.2	2.4- $ V_{ID} /2$	V
Current of Power Supply	(a) Black	I_{DD}	-	600	-	mA
	(b) White		-	500	-	mA
	(c) Dot		-	700	850	mA
Vsync Frequency		f_V	49	60	77	Hz
Hsync Frequency		f_H	56.7	64	82.08	kHz
Main Frequency		f_{DCLK}	40	54	69.28	MHz
Rush Current		I_{RUSH}	-	-	3.0	A

(2) Backlight

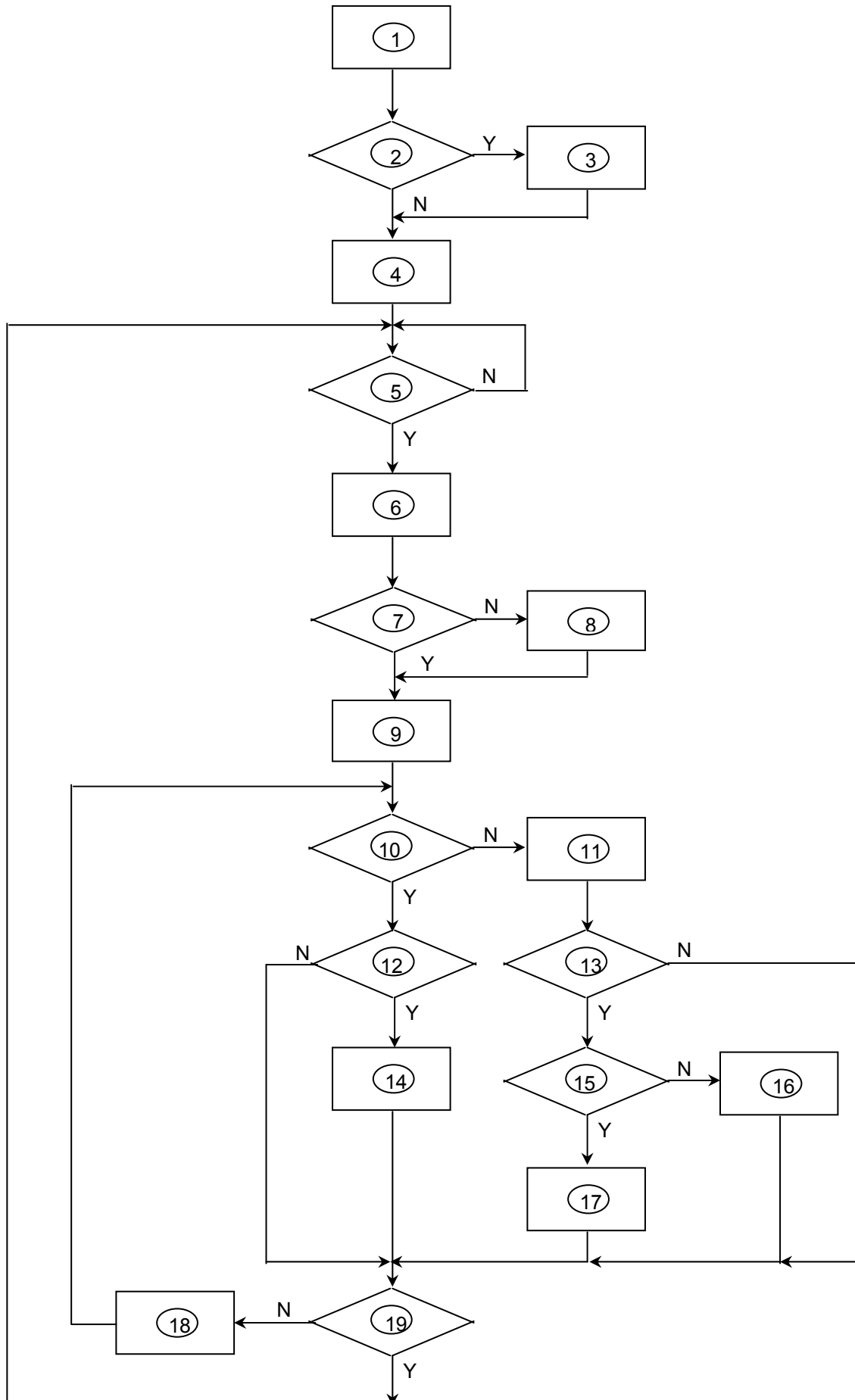
Item		Symbol	Min.	Typ.	Max.	Unit
Lamp Current		I_L	3.0	6.5	7.0	mArms
Lamp Voltage		V_L	-	650	-	Vrms
Lamp Frequency		f_L	40	-	60	kHz
Operating Life Time		Hr	50,000	-	-	Hour
Inverter waveform	Asymmetry rate	Wasy	-	-	10	%
	Distortion rate	Wdis	1.2726	1.414	1.5554	
Startup Voltage		V_s	-	-	0 • ± 1,650	Vrms
					25 • ± 1,450	

4.4.4 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Contrast Ratio (Center of screen)		C/R	Normal • $L_R=0$ • $U_D=0$ Viewing Angle	600	1,000	-	
Response Time	Rising	Tr		-	1.3	4	msec
	Falling	Tf		-	3.7	6	
Luminance of White (Center of screen)		Y_L		250	300	-	cd/m2
Color Chromaticity (CIE 1931)	Red	Rx		0.620	0.650	0.680	
		Ry		0.300	0.330	0.360	
	Green	Gx		0.270	0.300	0.330	
		Gy		0.570	0.600	0.630	
	Blue	Bx		0.120	0.150	0.180	
		By		0.050	0.080	0.110	
	White	Wx		0.283	0.313	0.343	
		Wy		0.299	0.329	0.359	
Color Chromaticity (CIE 1976)	Red	Ru'		-	0.459	-	
		Rv'		-	0.525	-	
	Green	Gu'		-	0.125	-	
		Gv'		-	0.563	-	
	Blue	Bu'		-	0.164	-	
		Bv'		-	0.197	-	
	White	Wu'		-	0.198	-	
		Wv'		-	0.468	-	
C.G.L	White	$\Delta u'v'$		-	0.018	-	
Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Gamut		-		-	72	-	%
Gamma			• •	1.9	2.2	2.5	
Color Temperature		-		-	6,500	-	K
Viewing Angle	Hor.	• L	CR• 40(5)	70(80)	80(89)	-	Degrees
		• R		70(80)	80(89)	-	
	Ver.	• U		70(80)	80(89)	-	
		• D		70(80)	80(89)	-	
Brightness Uniformity (9 Points)		B_{uni}		-	-	25	%
Cross Modulation		DSHA		-	-	1.5	
Flicker		F		-	-	8	

5. Block Diagram

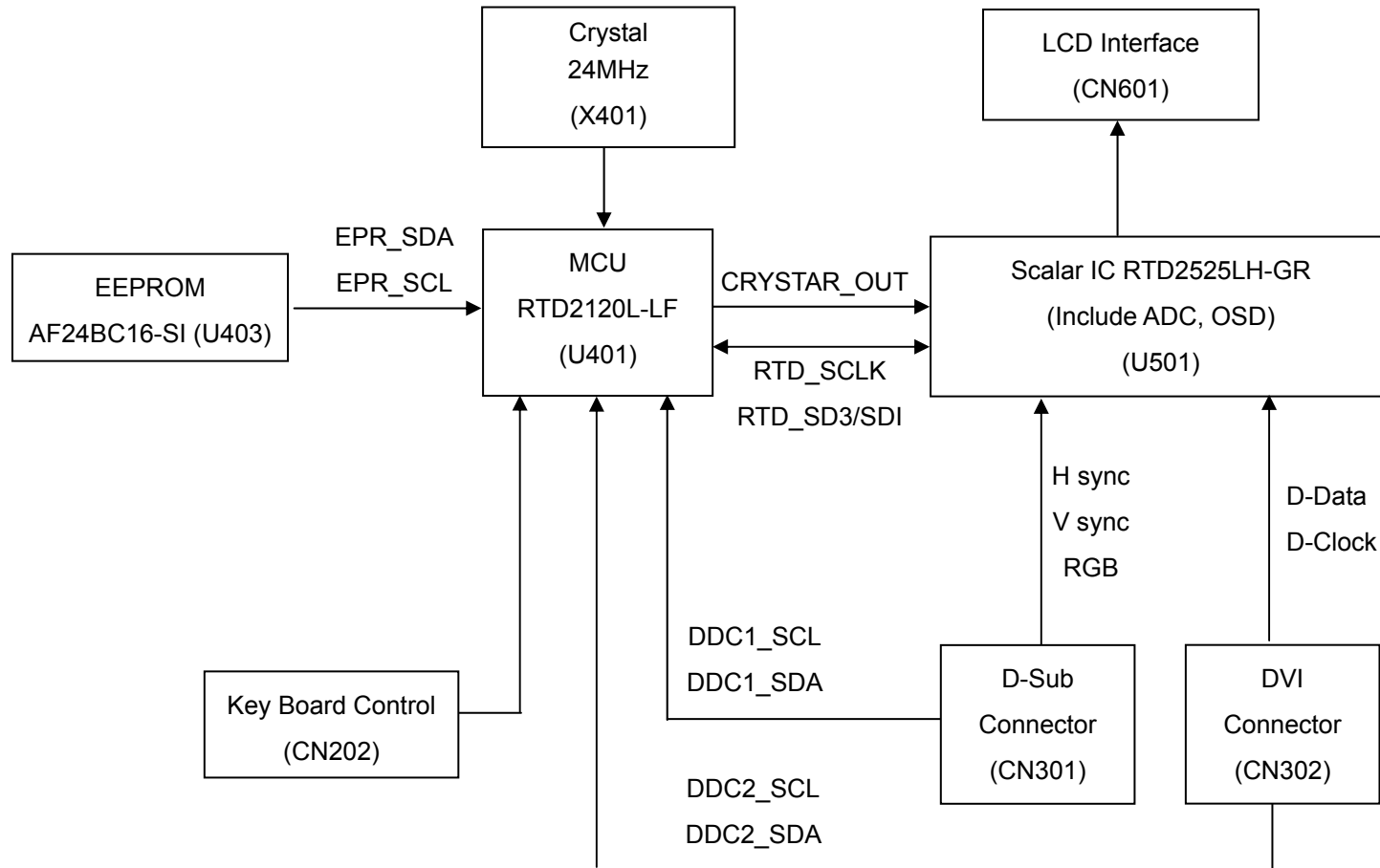
5.1 Software Flow Chat

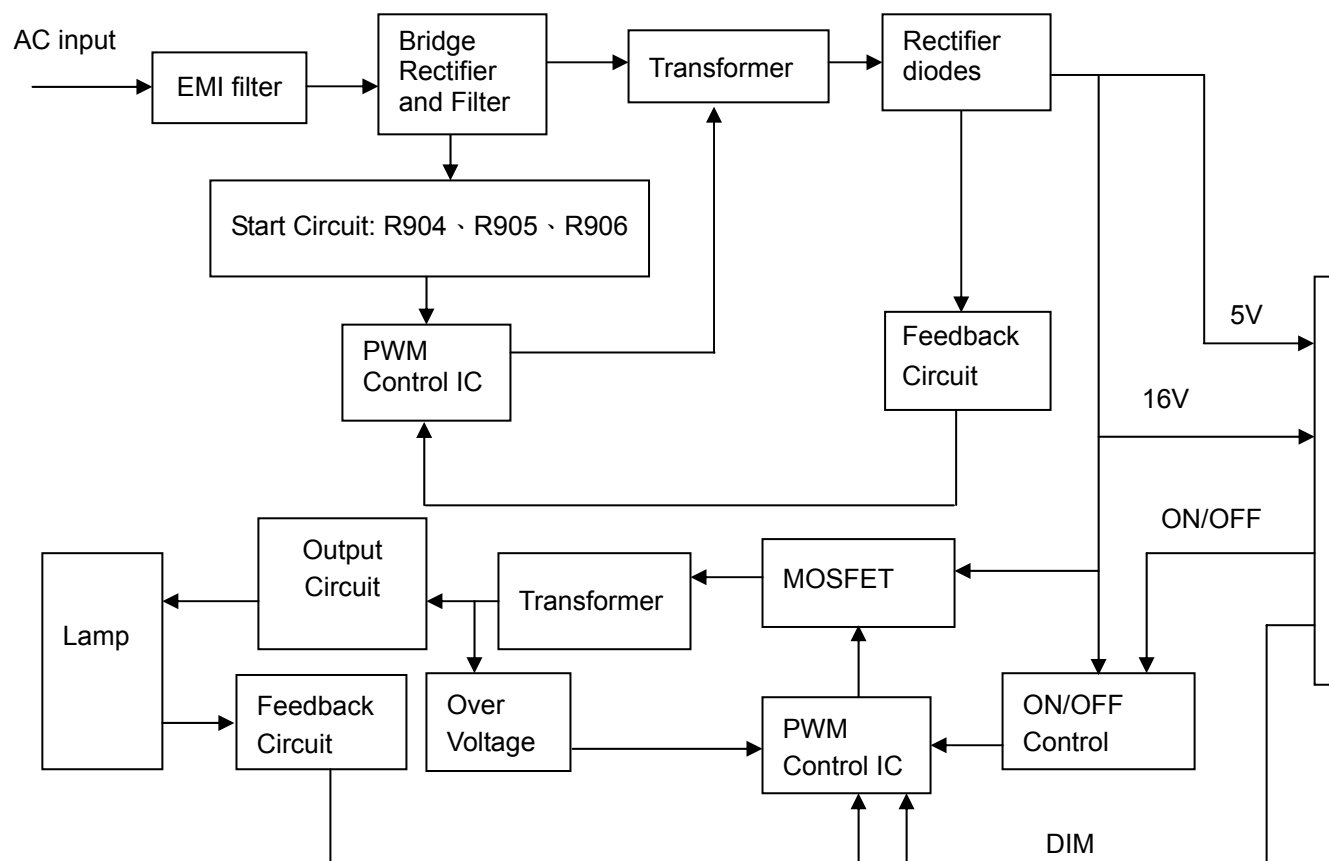


1) MCU initialize.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the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

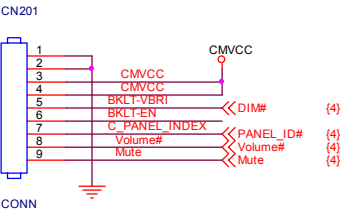




6. Schematic

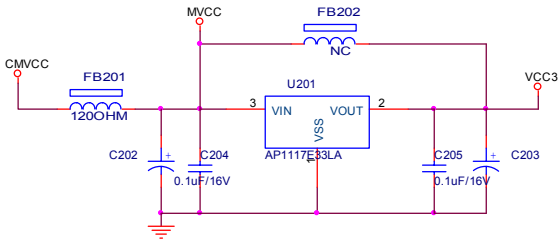
6.1 Main Board

715G2507 2 K

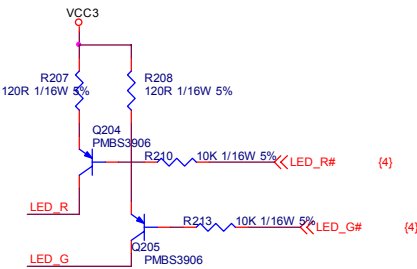
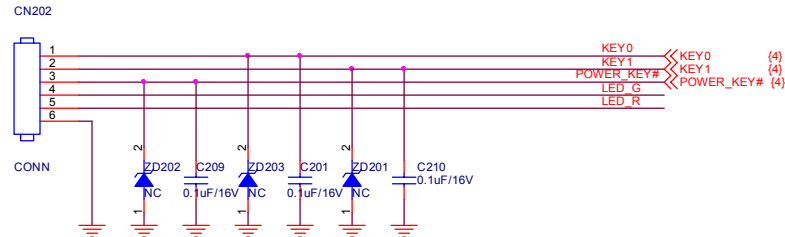
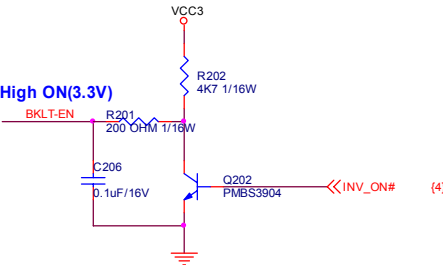


Back light
Dimming(0.5V~3V)

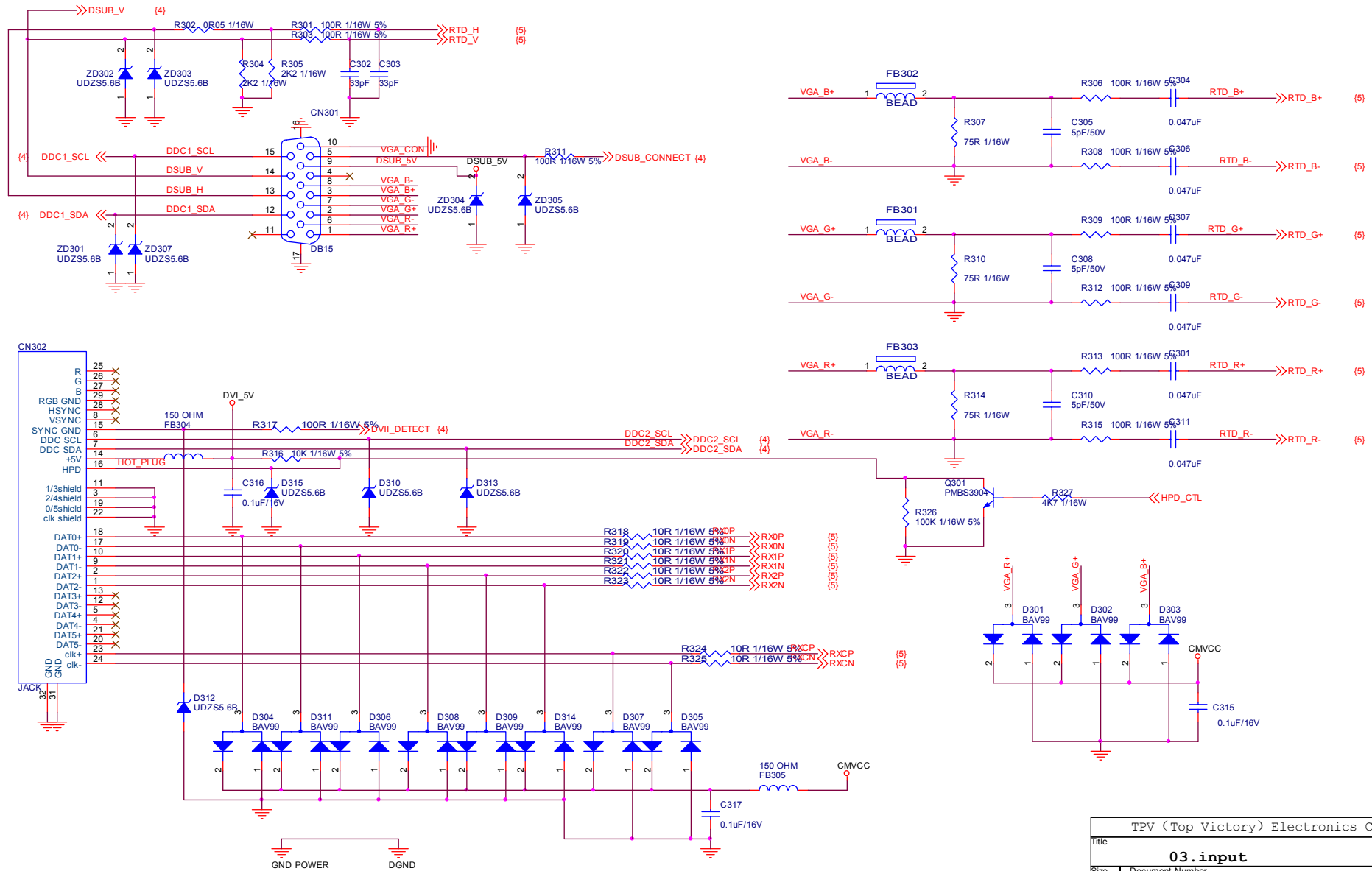
Panel ID(0.5V~3V)



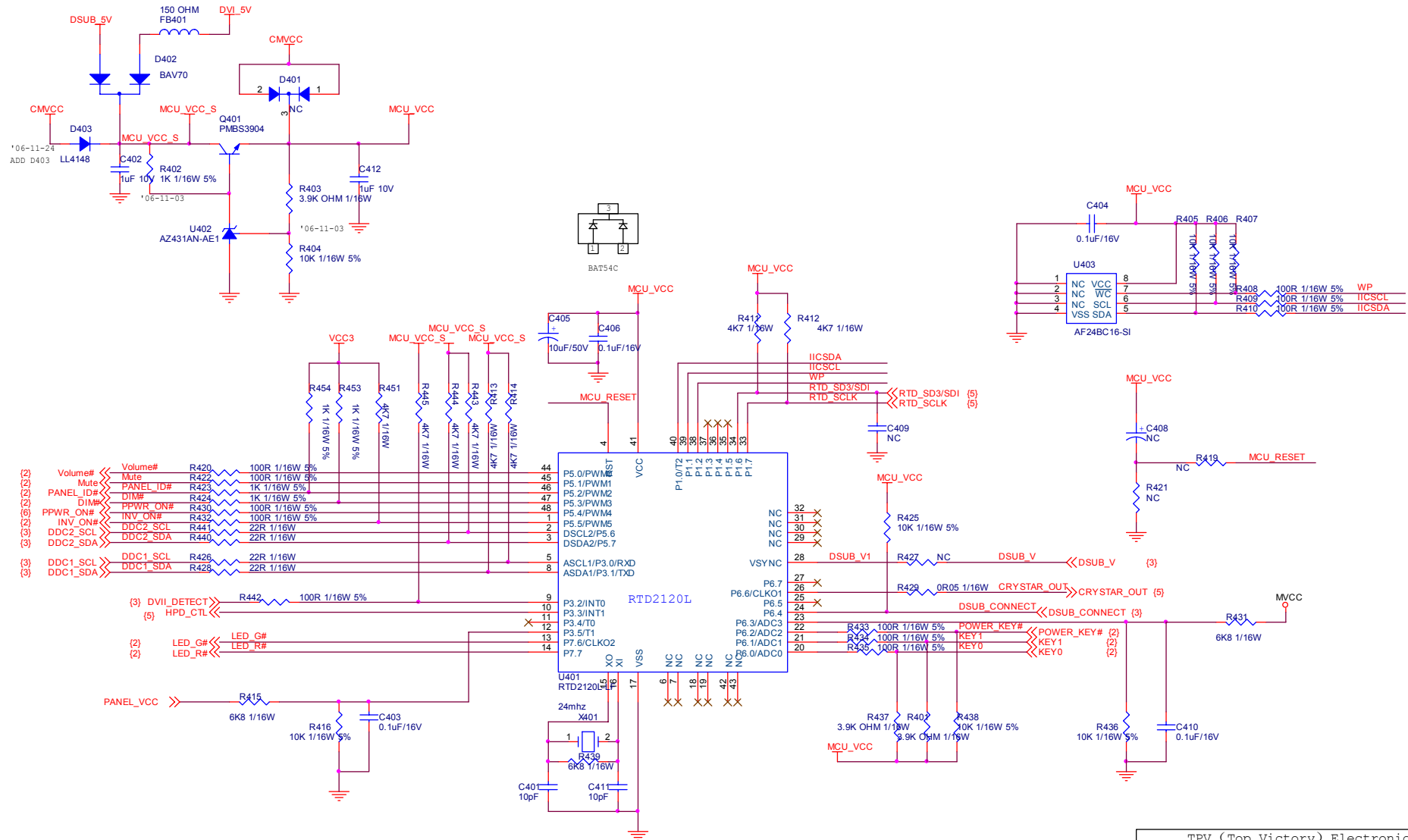
* BKLTVEN High ON(3.3V)



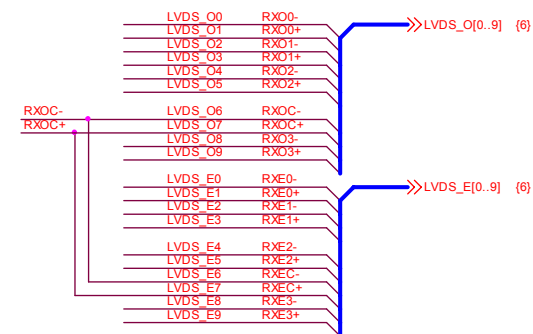
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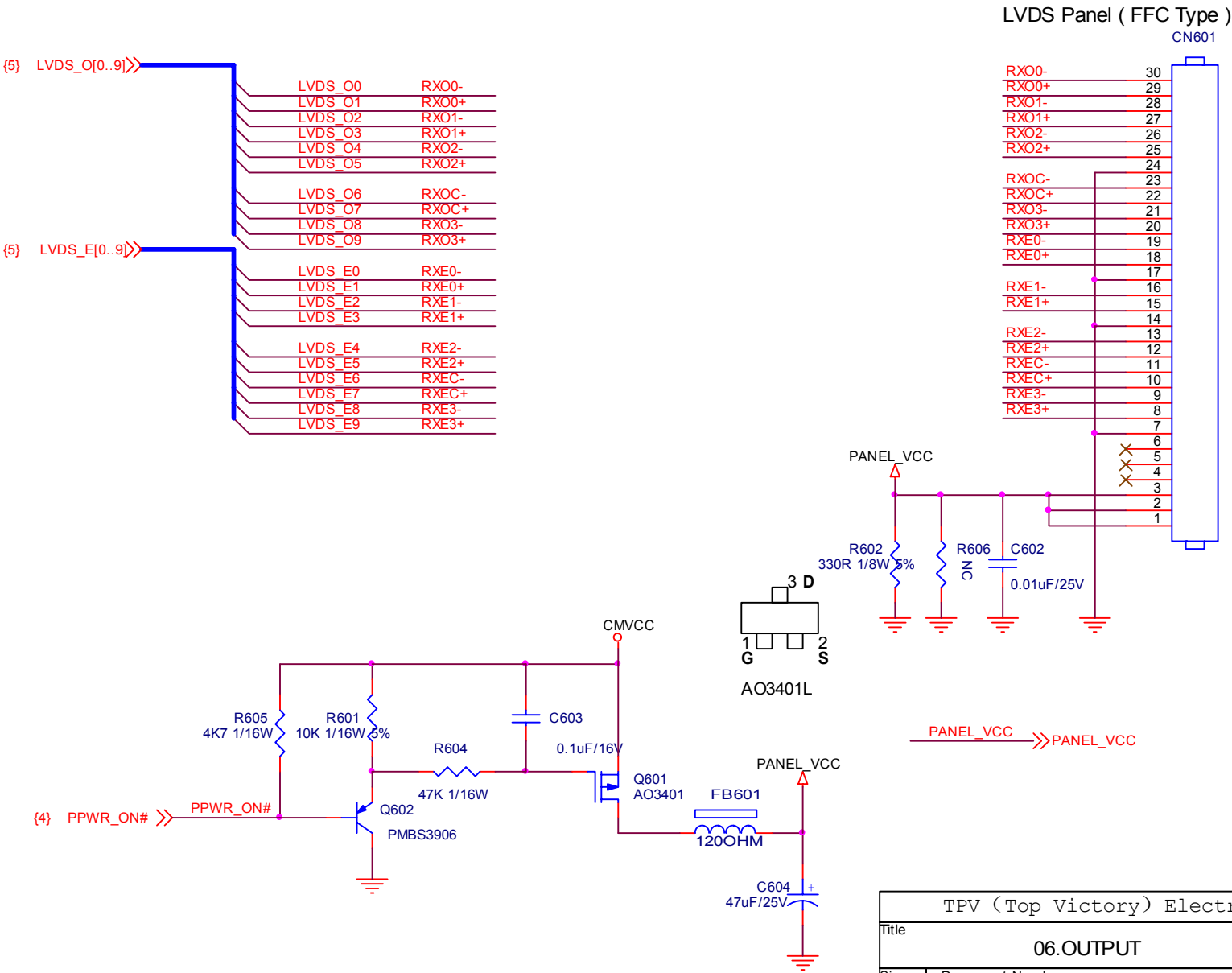
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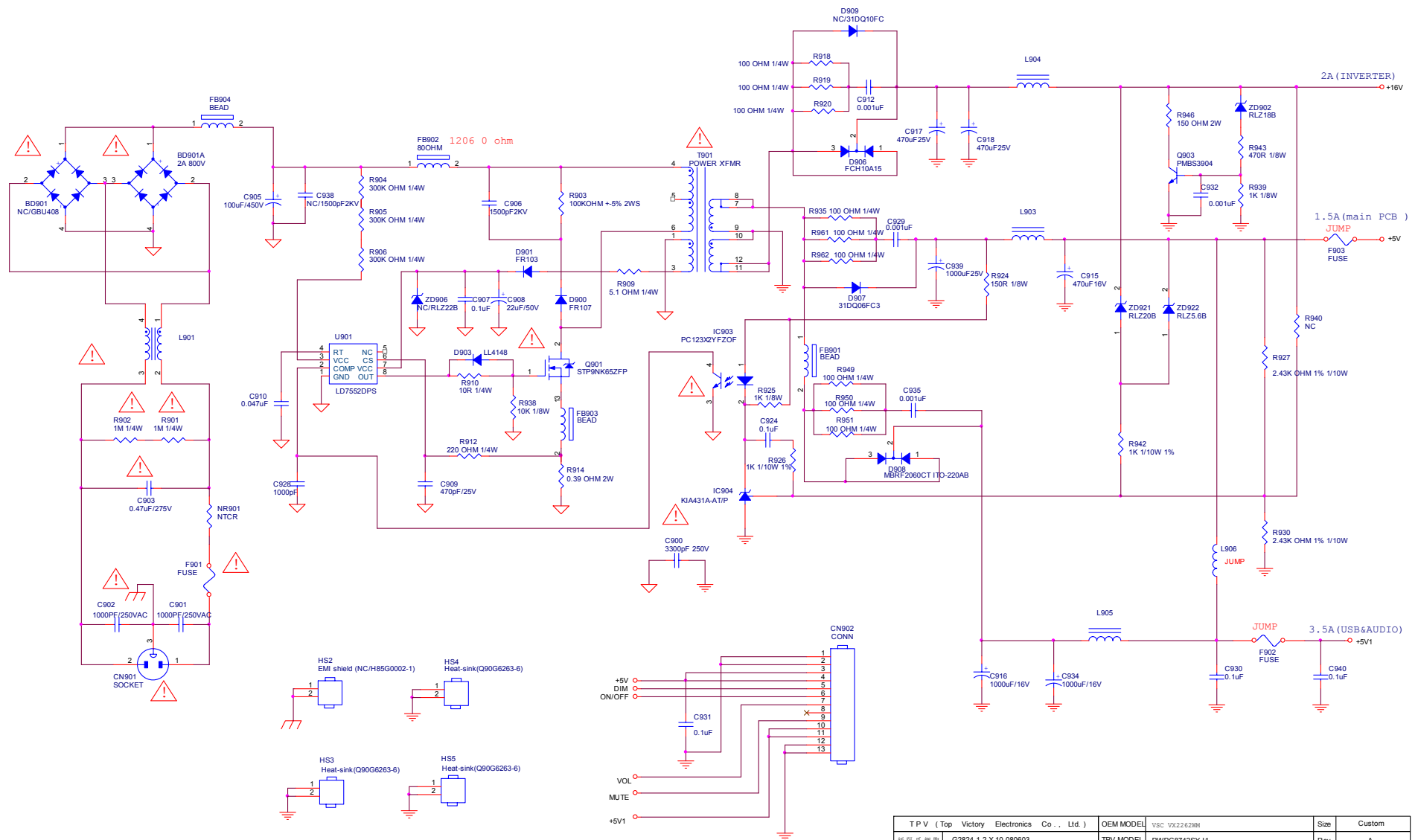
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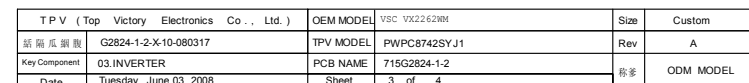
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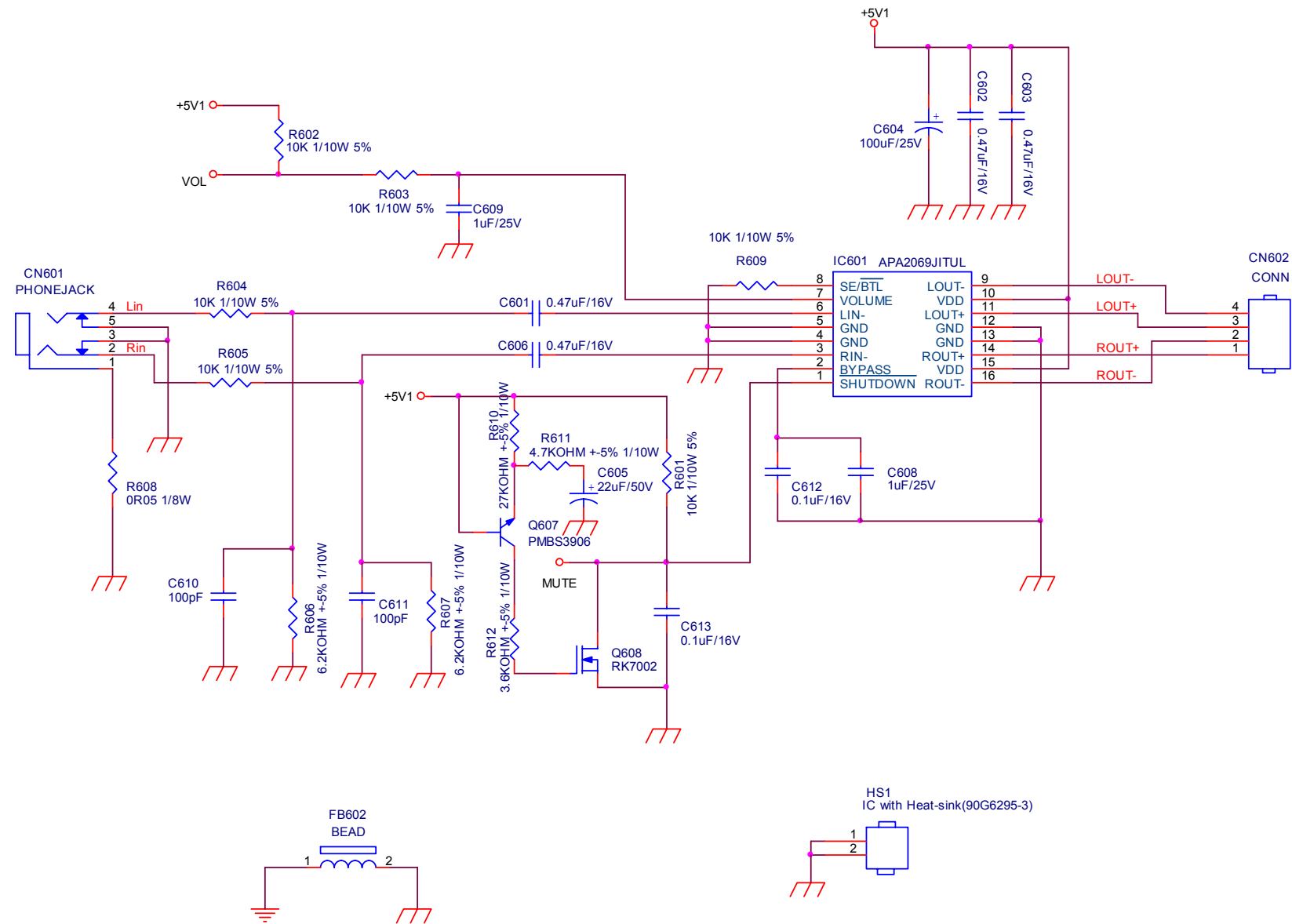


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06.OUTPUT		
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TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	VSC YX22620M	Size	Custom
攝風風扇機	G2824-1-2-X-10-080603	TPV MODEL	Rev	A
Key Component	2.POWER	PCB NAME		
Date	Tuesday, June 03, 2008	Sheet	2 of 4	修多
				OOM MODEL

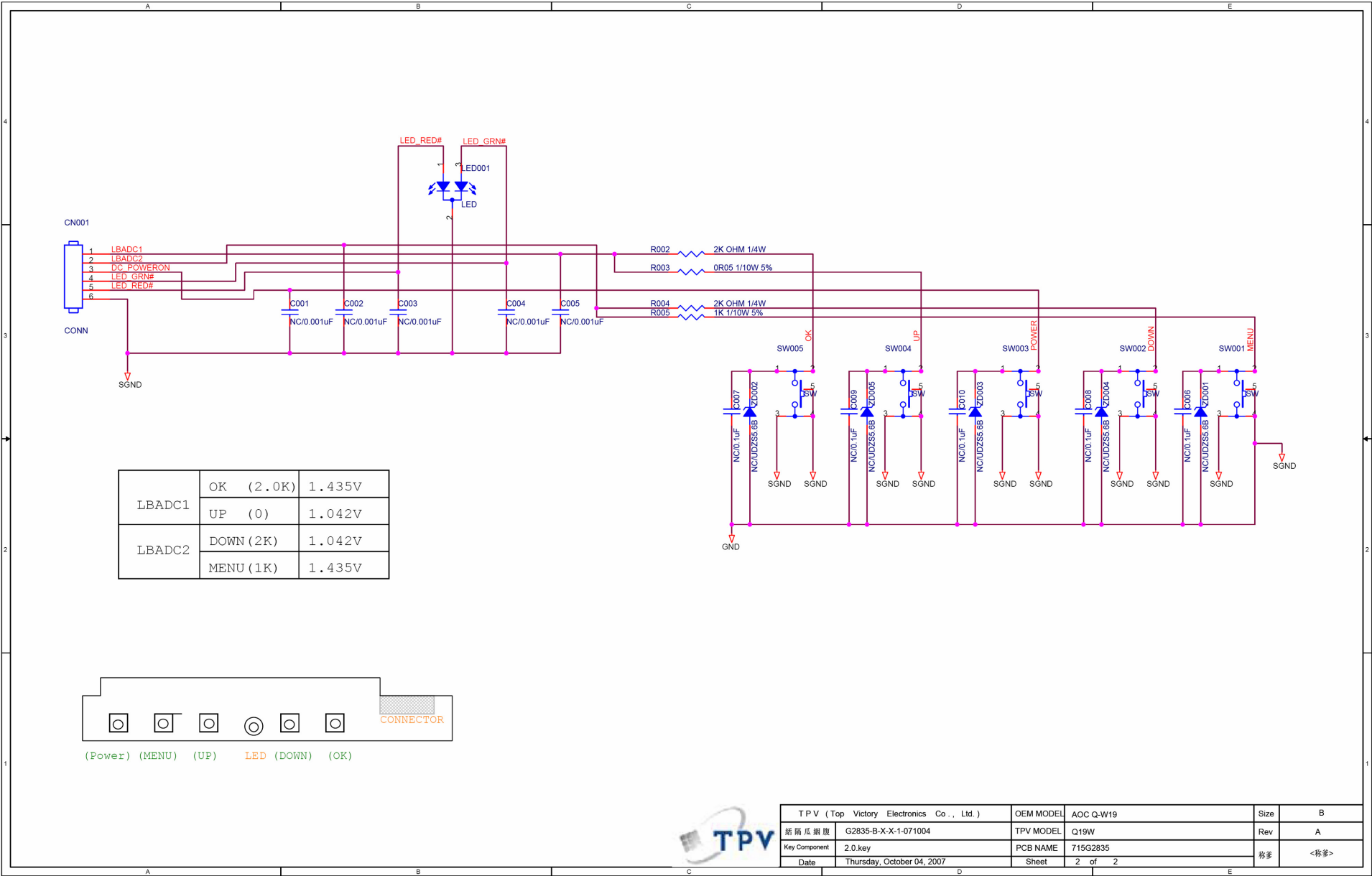




T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	VSC VX2262WM	Size	Custom
結構瓜網腹	G2824-1-2-X-10-080603	TPV MODEL	PWPC8742SYJ1	Rev	D
Key Component	04.AUDIO	PCB NAME	715G2824-1-2	称爹	ODM MODEL
Date	Tuesday, June 03, 2008	Sheet	4 of 4		

6.3 Key Board

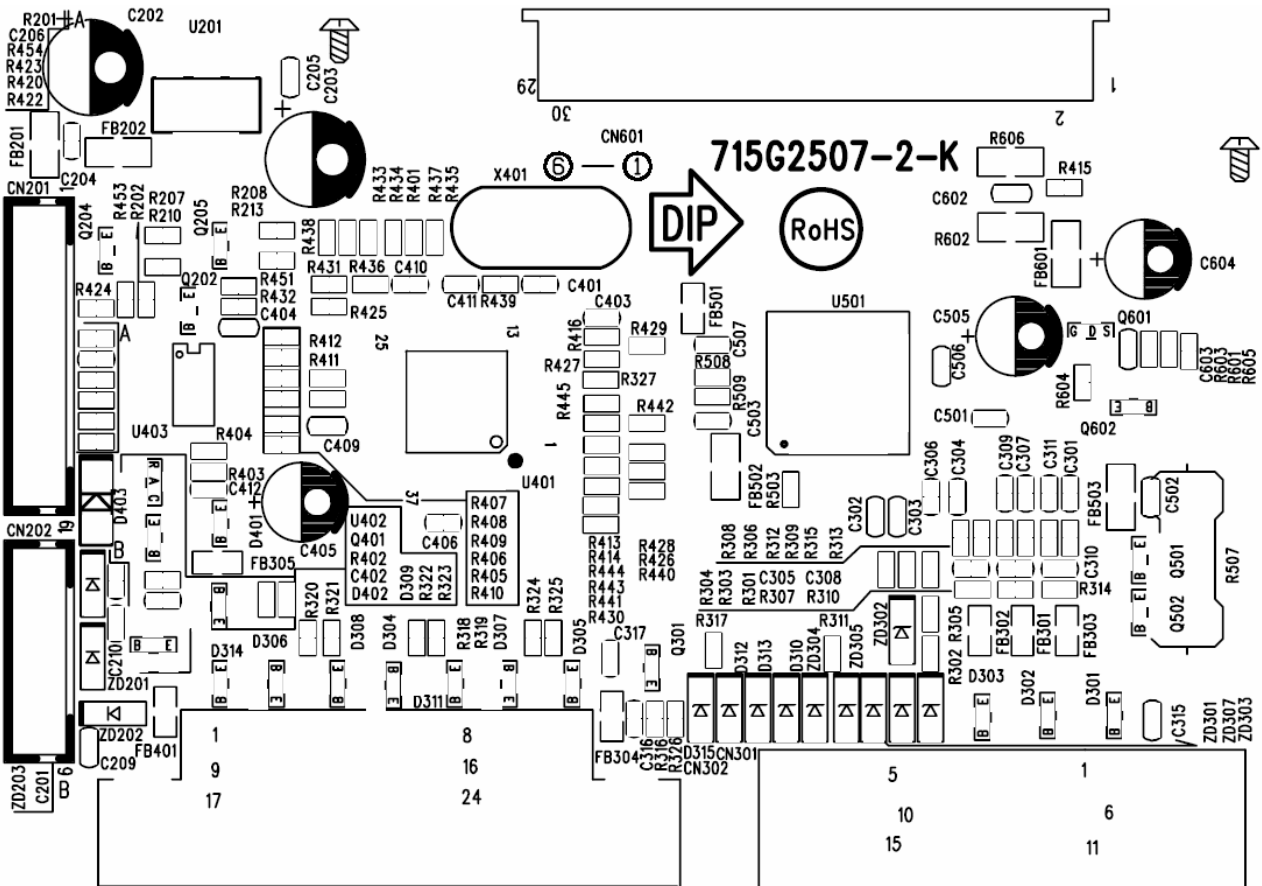
715G2835 1

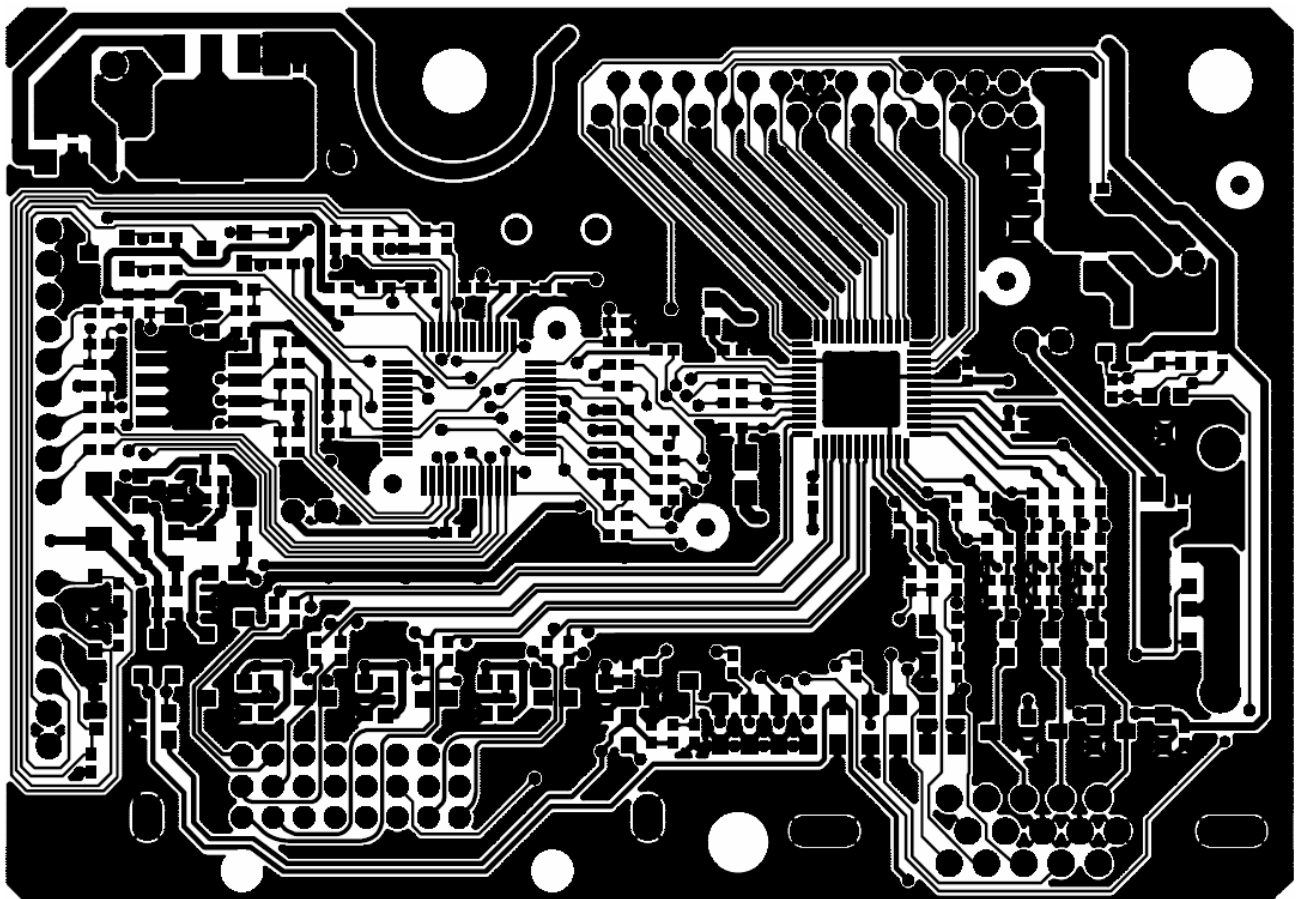
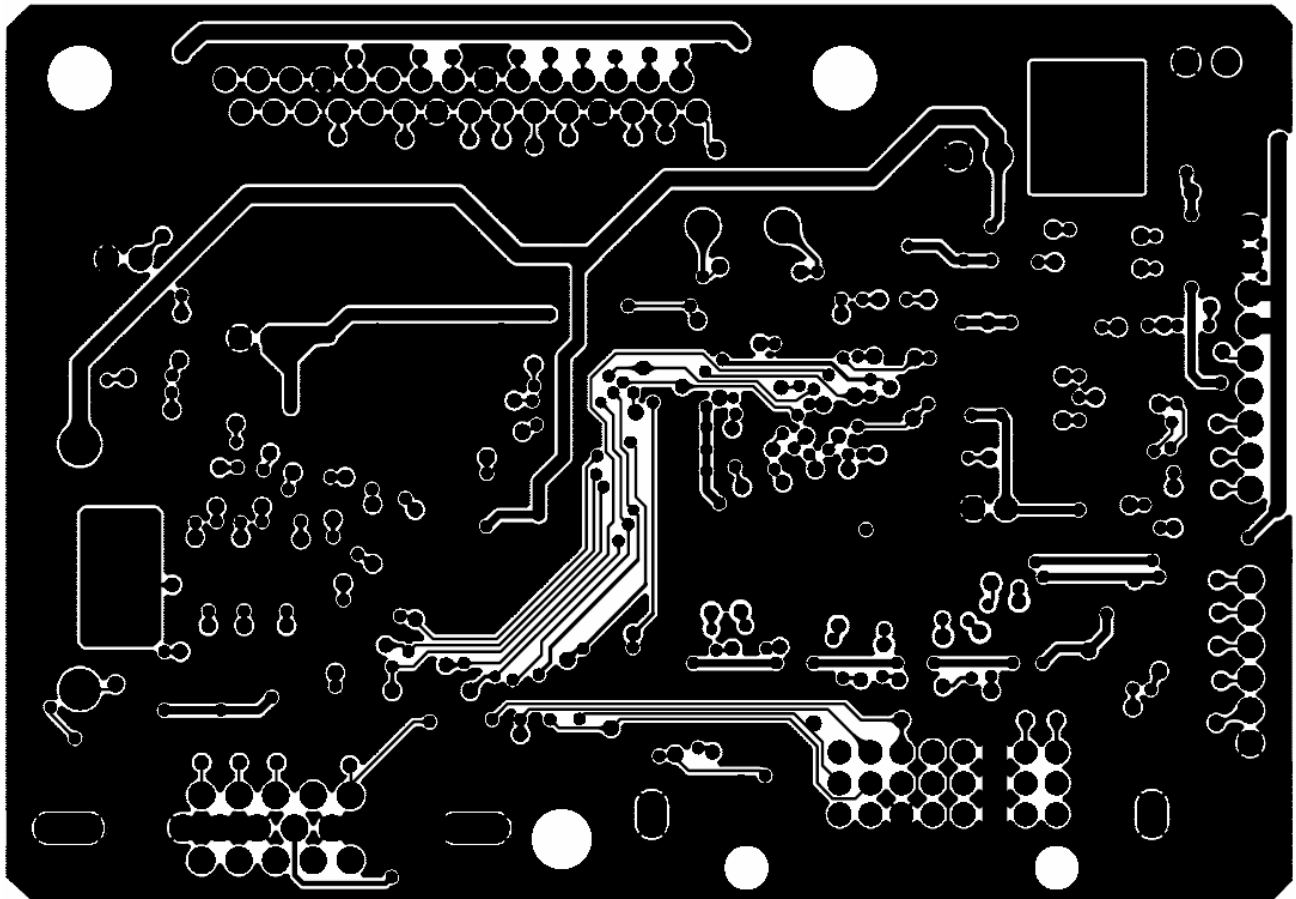


7. PCB Layout

7.1 Main Board

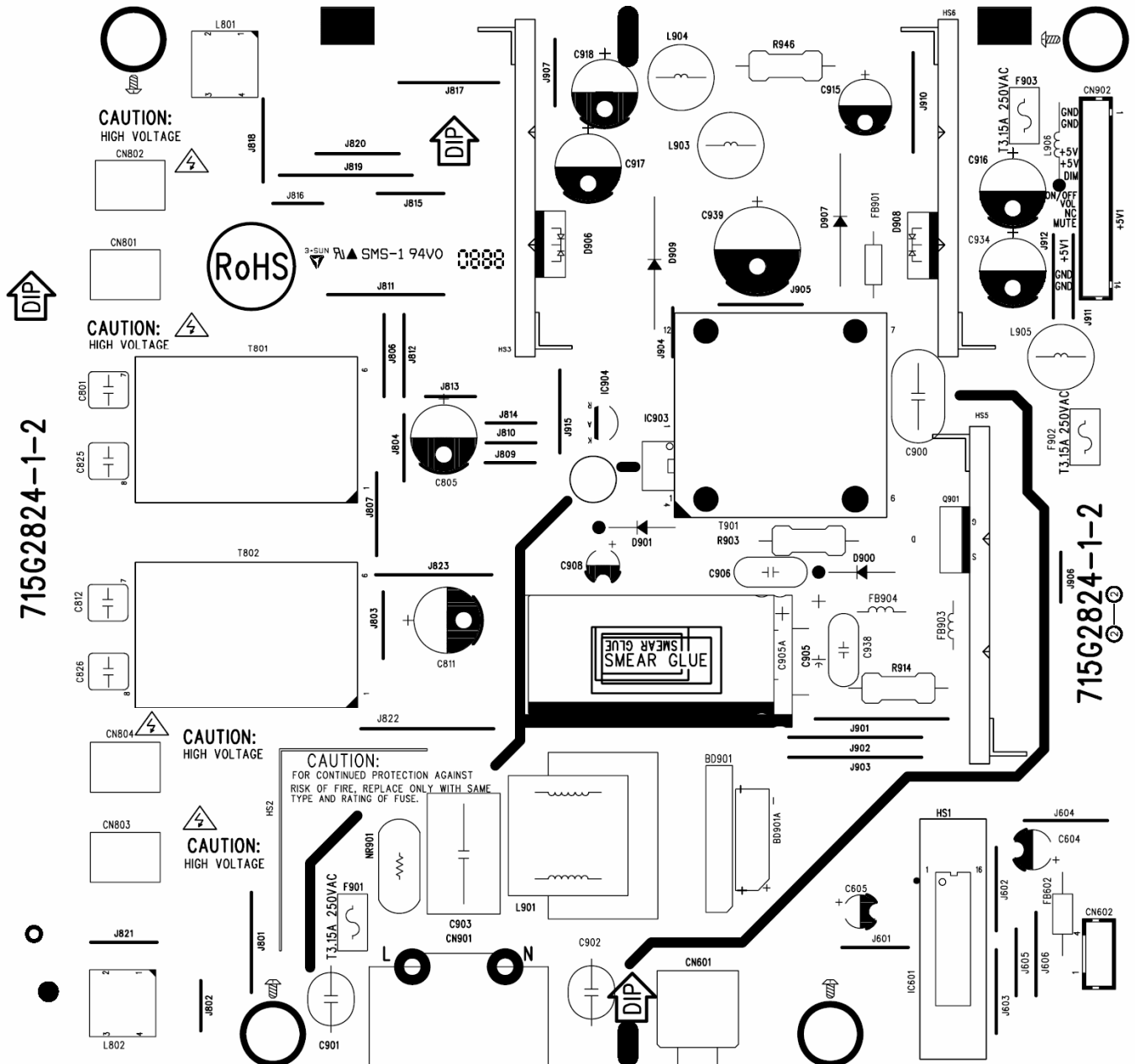
715G2507 2 K

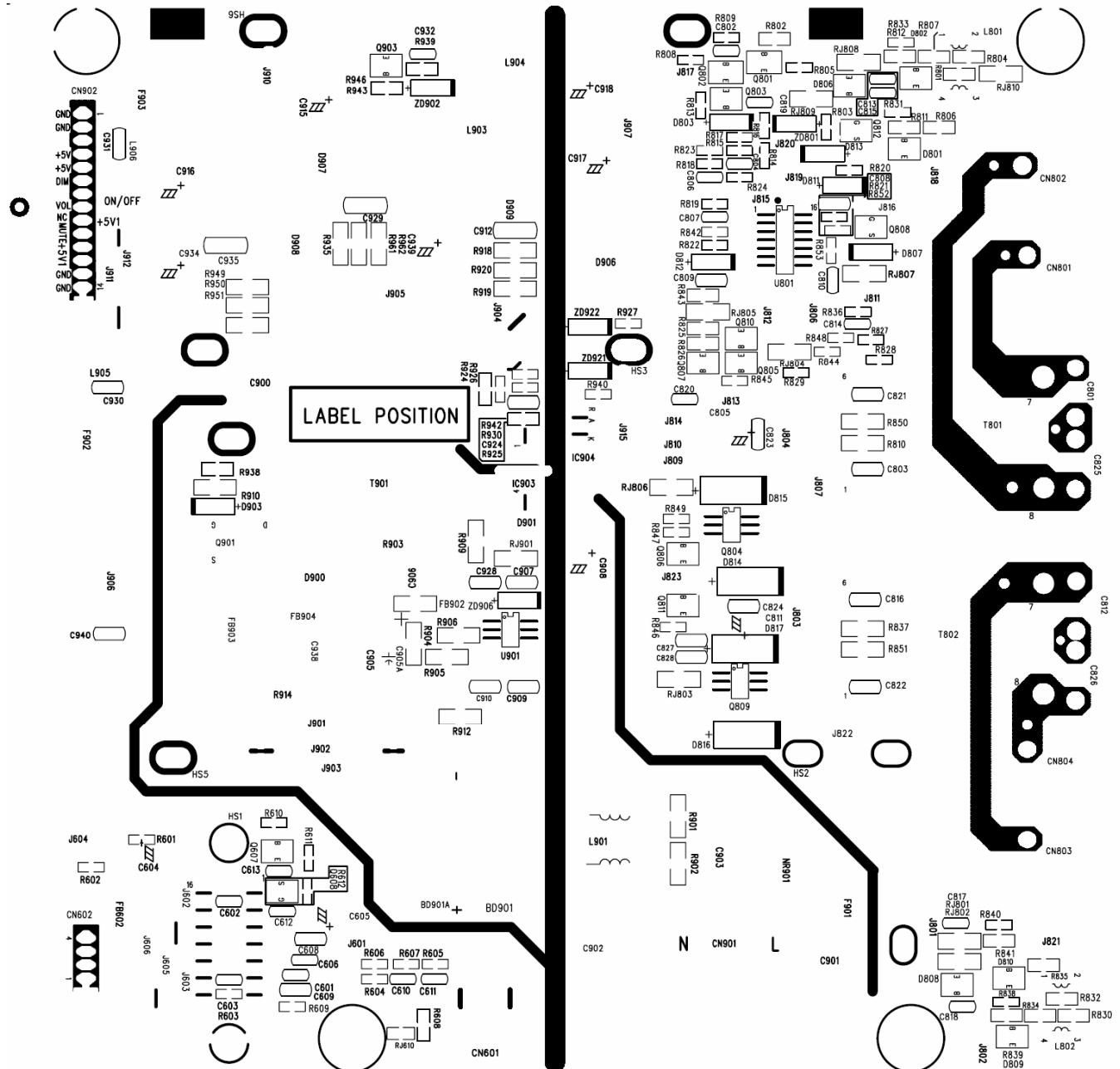


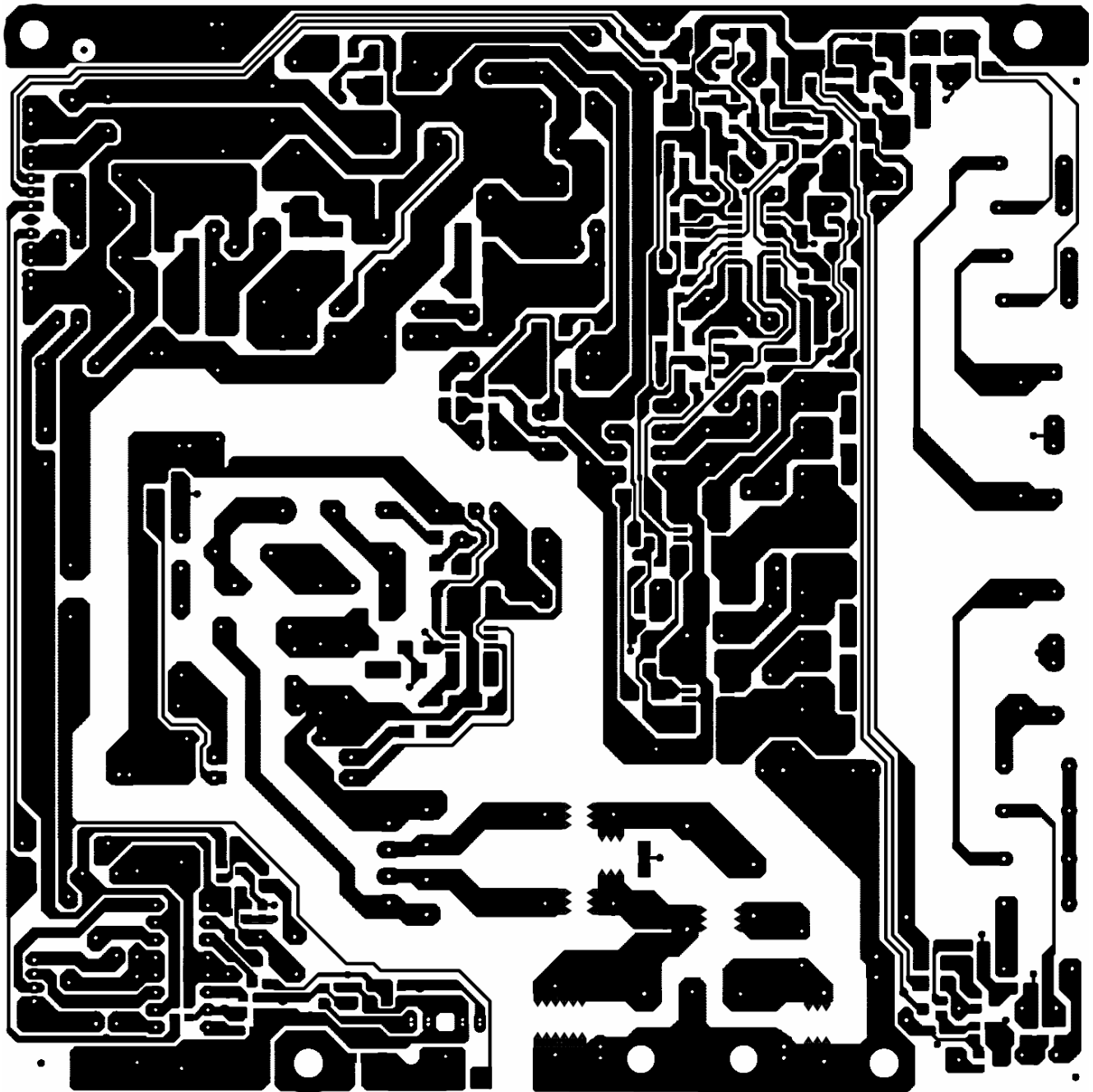


7.2 Power Board

715G2824 1 2

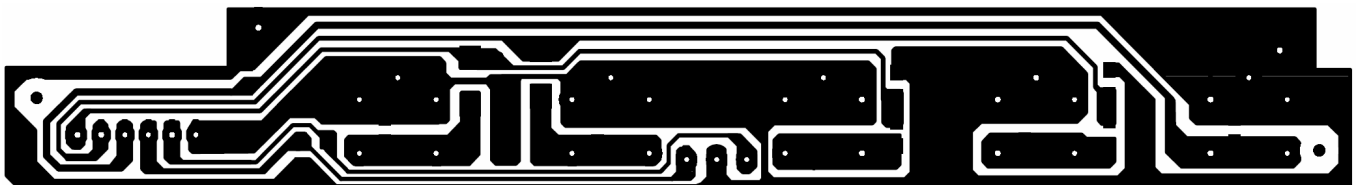
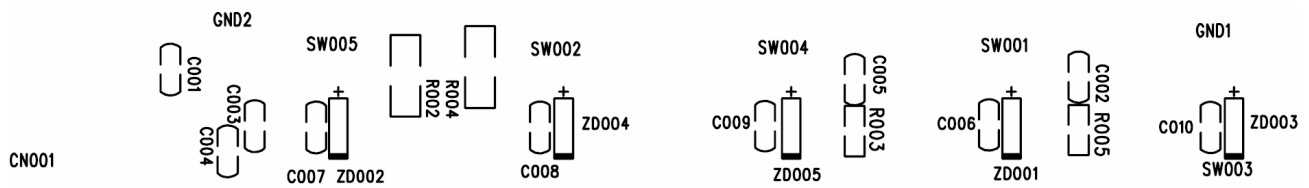
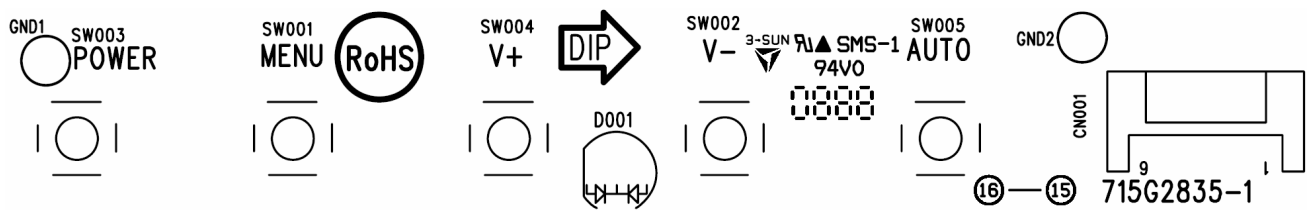






7.3 Key Board

715G2835 1



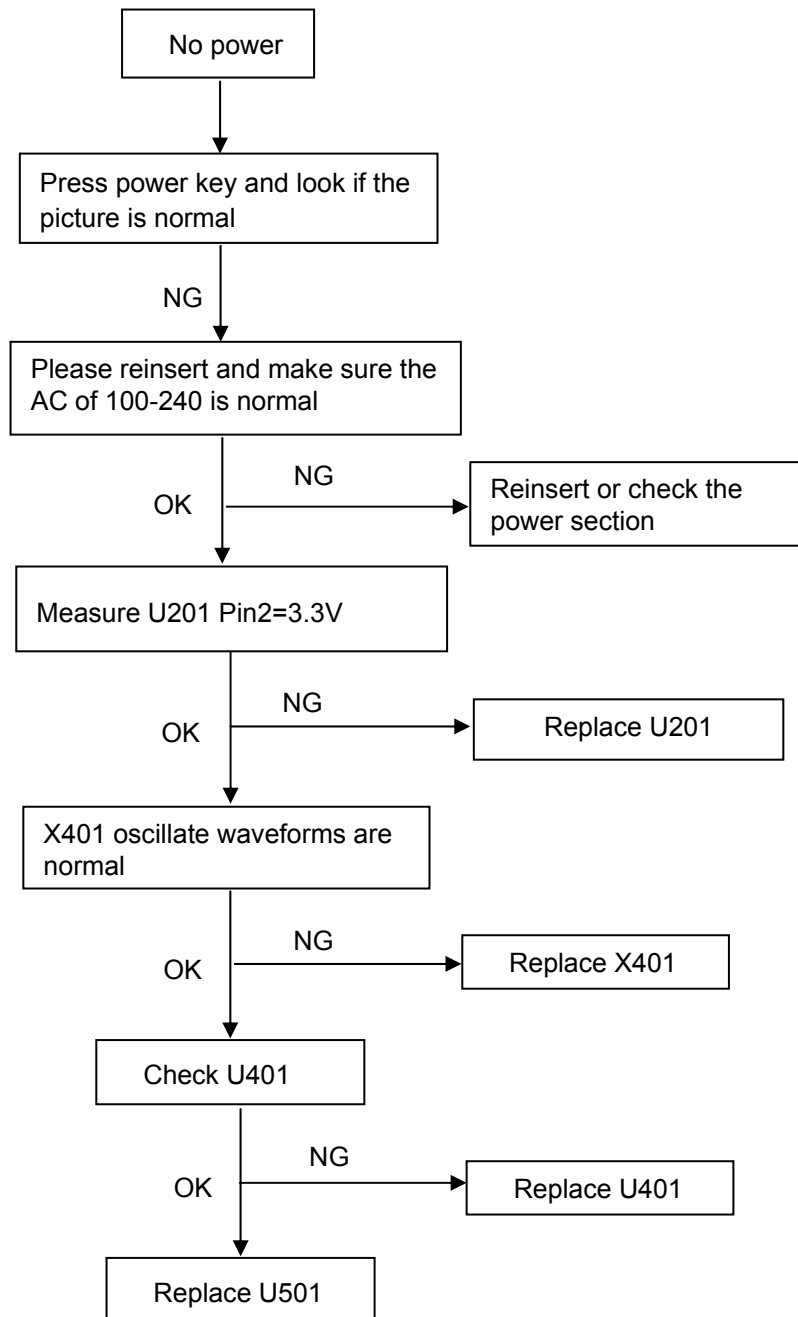
8. Maintainability**8.1 Equipments and Tools Requirement**

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.

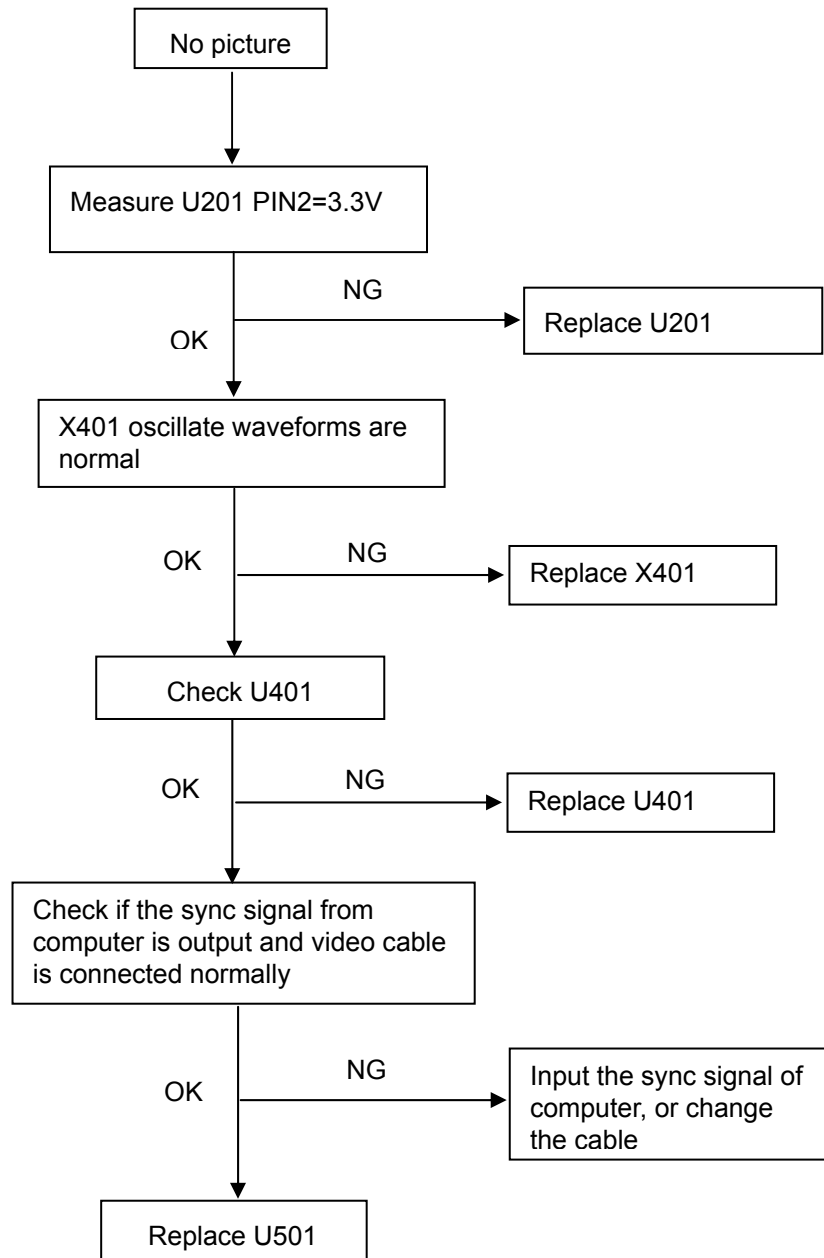
8.2 Trouble Shooting

8.2.1 Main Board

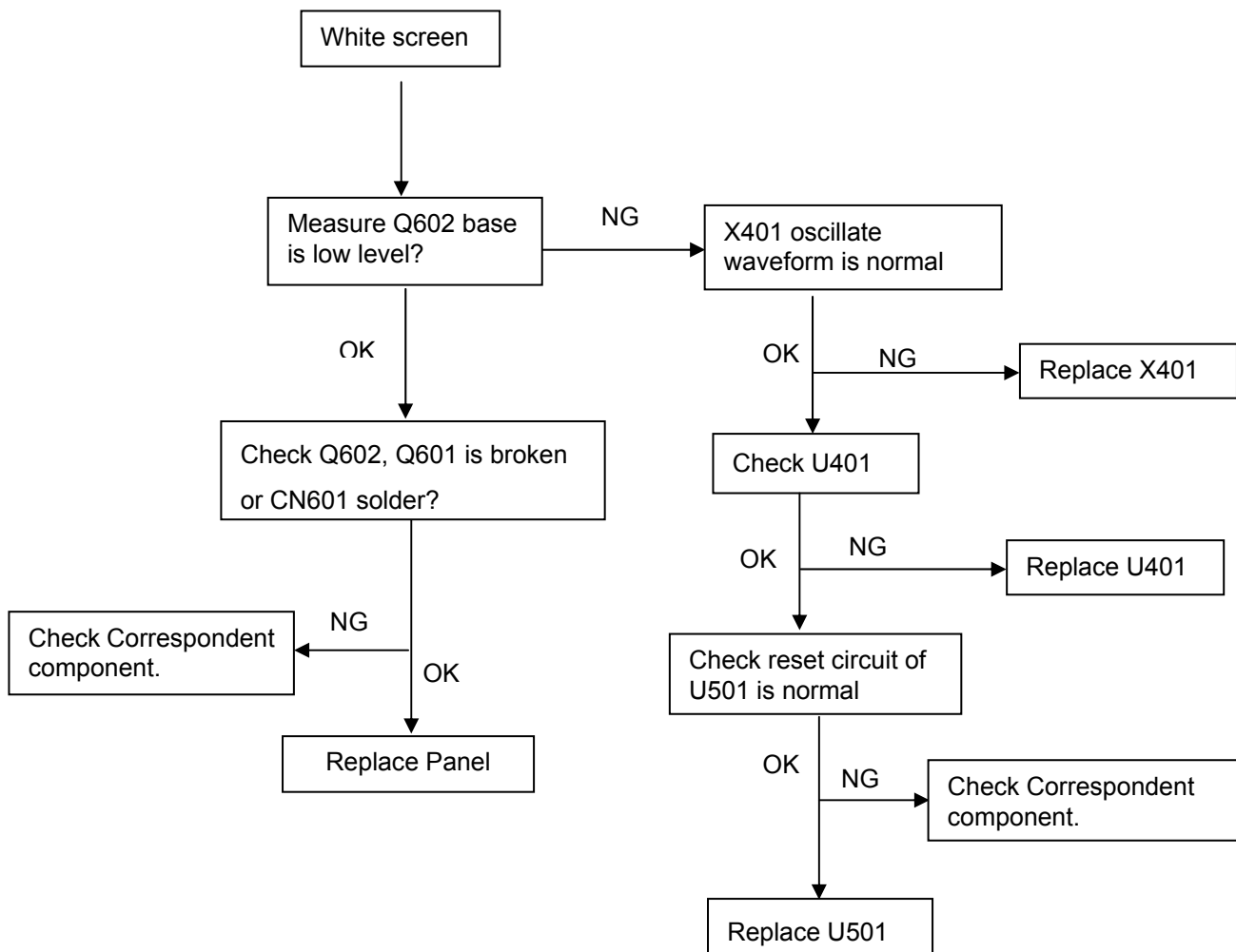
(1). No Power



(2). No Picture

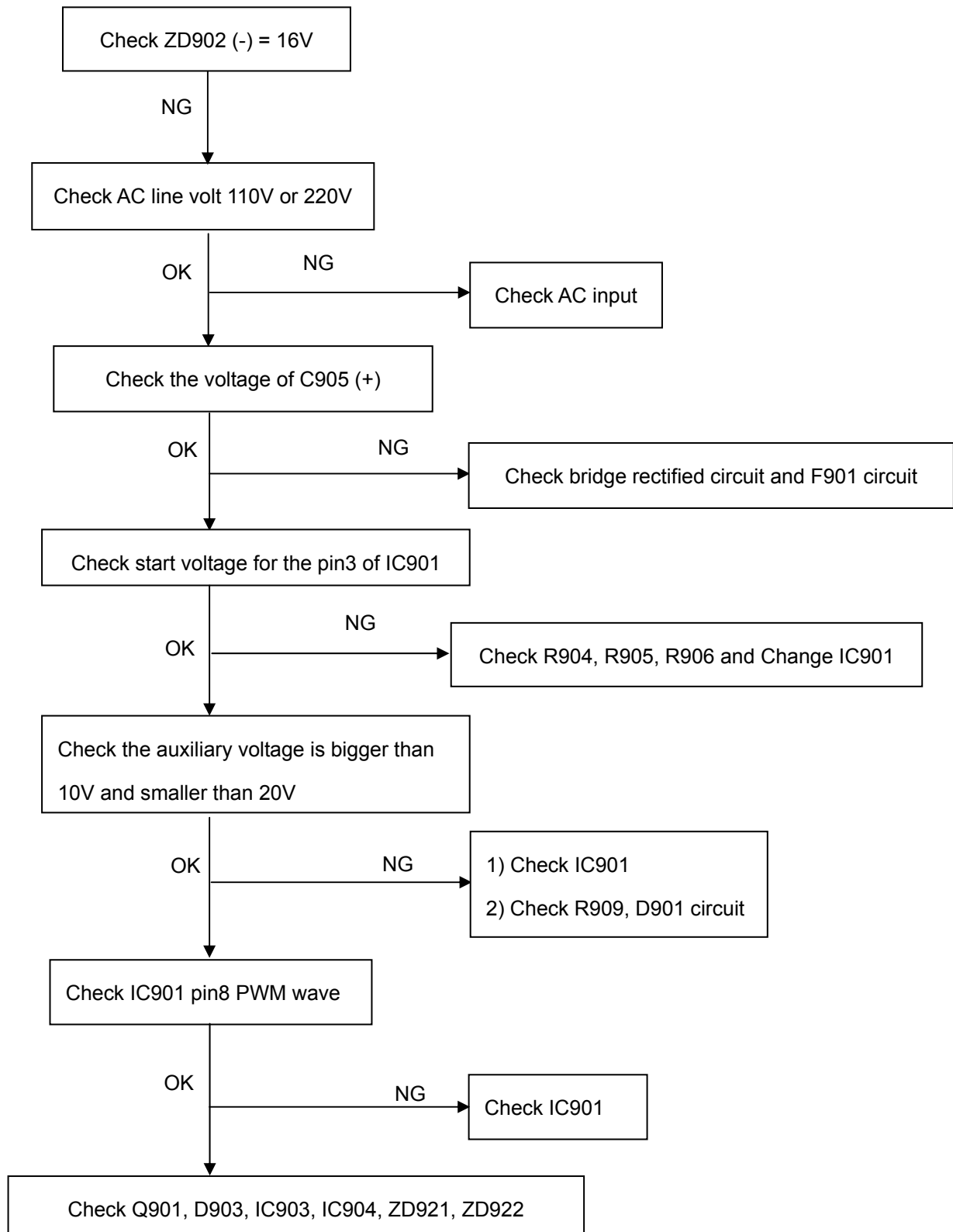


(3). White screen

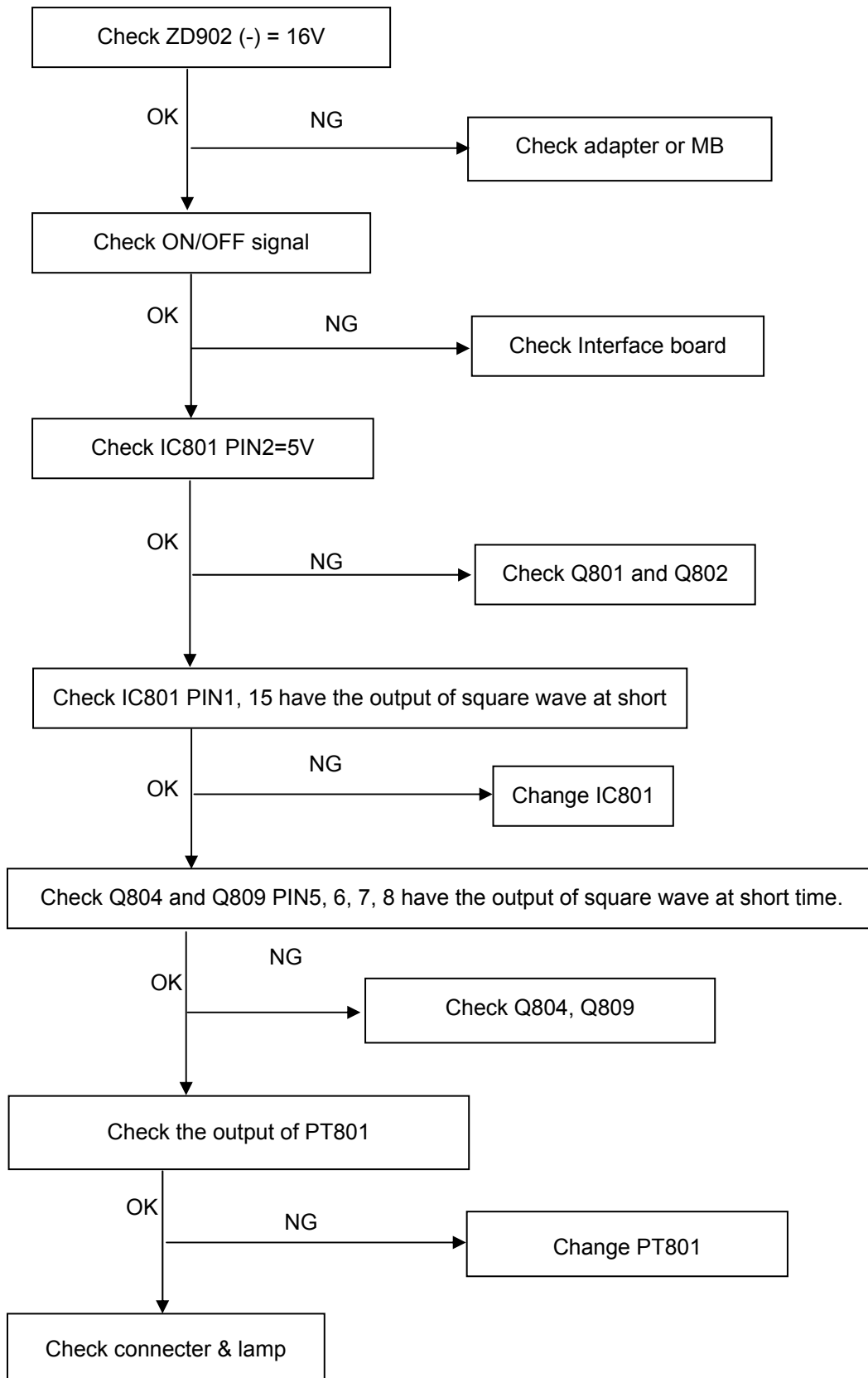


8.2.2 Power/Inverter Board

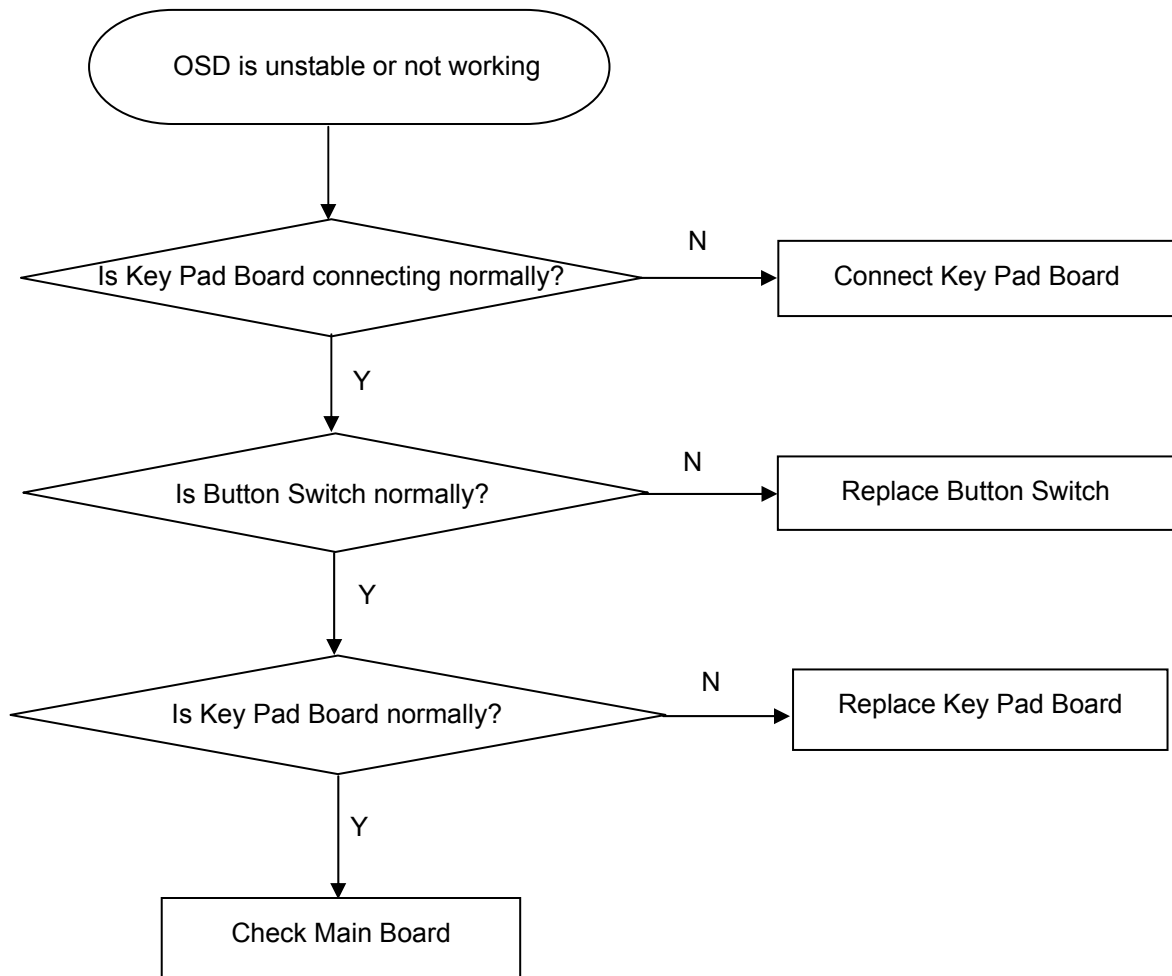
1.) No power



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 $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$ (typ); Normal color parameter is $x = 302 \pm 30$, $y = 318 \pm 30$, $Y > 150 \text{cd/m}^2$ (typ); Cool color parameter is $x = 283 \pm 30$, $y = 297 \pm 30$, $Y > 130 \text{cd/m}^2$ (typ); sRGB color parameter is $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$)

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 $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is $x = 302 \pm 20$, $y = 318 \pm 20$, $Y > 150 \text{cd/m}^2$

C. MEM.CHANNEL 9(Cool color):

Cool color temp. parameter is $x = 283 \pm 30$, $y = 297 \pm 30$, $Y > 130 \text{cd/m}^2$

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$

3. Into Factory mode of AOC 719Pa:

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

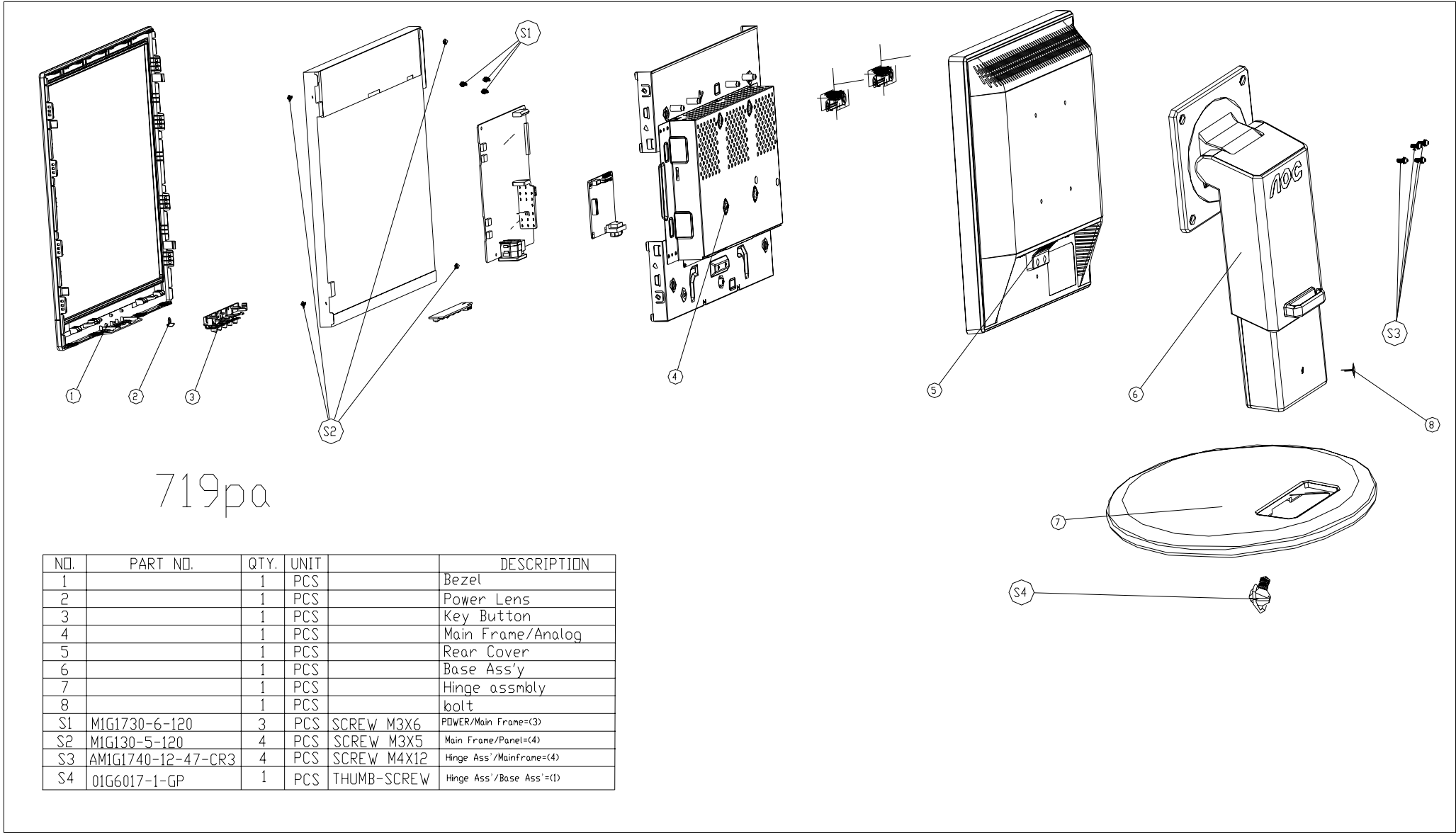
1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$
4. Adjust the RED on factory window until chroma 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 $= 100 \pm 2$

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 $x = 302 \pm 30$, $y = 318 \pm 30$, $Y > 150 \text{cd/m}^2$

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 $=100\pm2$
- 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 $x = 283 \pm 30$, $y = 297 \pm 30$, $Y > 130 \text{cd/m}^2$
 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 $=100\pm2$
- 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 $x = 313 \pm 30$, $y = 329 \pm 30$, $Y > 150 \text{cd/m}^2$
 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 $=100\pm2$
- E. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



11. BOM List**T78SRHDBK1A1DN**

Location	Part No.	Description
	001G6017 1 GP	THUMB-SCREW
	040G 581 26704	SHIPPING LABEL
	040G 58162461A	EPA LABEL
	041G 68508 A	CONTROL CARD
	044G6000 4 6B	PAPER BOARD
	044G6002700 4A	PAPER BOARD
	044G9003125	CORNER PAPER
	044GH600 1	HANDLE 2
	050G 600 4	HANDLE 1
	052G 1150 C	INSULATING TAPE
	052G 1186	SMALL TAPE
	052G 1207 A	CONDUCTIVE TAPE 45mm *25mm *0.08mm
	052G 1211 A	CONDUCTIVE TAPE 55mm *45mm *0.08mm
	052G6019 1	INSULATING TAPE
	070GHDCP500HDC REALTEK-HDCP	HDCP CODE
E07801	078G 322516 Y	SPK 8 OHM 1.5W 43X18 240 300mm SUNLINK
	089G 725HAA DB	D-SUB
	089G1745HAA AC	DVI CABLE
	089G404A15N IS	POWER CORD
E09502	095G8014 6XH10	WIRE HARNESS 140MM
	0M1G 130 5120	SCREW
	0M1G1730 6120	SCREW,42-D020523
	0M1G1740 12 47 CR3	SCREW
E750	750GLS70U317CN	PANEL LTM170EU-L31 8TN(0TZ) FQ SEC
	A37G0058 1	Base Ass'y
	A37G0059 4	Hinge assembly
	CBPC8SRHA1Q2	CONVERSION BOARD
	040G 45762412B	CBPC LABEL
CN202	033G3802 6	WAFER
CN201	033G3802 9	WAFER 9P RIGHT ANELE PITCH
CN601	033G801930F CH JS	CONNECTOR
R507	061G152M339 64	CHIPR 3.3 OHM +-5% 2W
C405	067G 3151007KV	ELCAP 10UF M 50V 105°C KINGNICH
C203	067G 3151014KV	EC 105°C CAP 100uF M 25V
C202	067G 3151014KV	EC 105°C CAP 100uF M 25V
C505	067G 3152207KV	ELCAP 22UF M 50V 105°C KING NICH
C604	067G 3154704KV	ELCAP 47UF M 25V 105°C KINGNICH

CN301	088G 35315F H	D-SUB 15PIN
CN302	088G 35424F N	DVI 24PIN CONN F WITH SCREWS
X401	093G 22 45 H	24MHZ/30PF/49US
	040G 457624 1B	LABEL-CPU
U402	056G 158501	IC AS431AN-E1 SOT23
U501	056G 562180	IC RTD2525LH-GR QFN-48
U201	056G 585 4A	IC AP1117E33L-13
U401	056G1125701 X LA8RWR7SMQ2	IC MCU RTD2120L-LF REALTEK
U403	056G1133 89	IC AF24BC16-SI 16K SOIC-8
Q502	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q501	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
R429	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R302	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R325	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R324	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R323	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R322	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R321	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R320	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R319	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R318	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R434	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R433	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R432	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R430	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R422	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R410	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R409	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R301	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R303	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R306	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R308	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R309	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R311	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R312	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R313	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R315	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R317	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R408	061G0402101	RST CHIPR 100 OHM +-5% 1/16W

R435	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R508	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R509	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R503	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R454	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R453	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R424	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R423	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R402	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R436	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R416	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R407	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R405	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R316	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R213	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R210	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R601	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R438	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R326	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W
R208	061G0402121	RST CHIP 120R 1/16W 5%
R207	061G0402121	RST CHIP 120R 1/16W 5%
R201	061G0402201	RST CHIP 200R 1/16W 5%
R440	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R441	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R426	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R428	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R305	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R304	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R401	061G0402392	RST CHIP 3.9K 1/16W 5%
R403	061G0402392	RST CHIP 3.9K 1/16W 5%
R437	061G0402392	RST CHIP 3.9K 1/16W 5%
R202	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R327	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R411	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R412	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R413	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W

R414	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R443	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R444	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R445	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R605	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R604	061G0402473	RST CHIPR 47 KOHM +-5% 1/16W
R439	061G0402682	RST CHIP 6K8 1/16W 5%
R431	061G0402682	RST CHIP 6K8 1/16W 5%
R415	061G0402682	RST CHIP 6K8 1/16W 5%
R307	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R310	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R314	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R602	061G0805331	RST CHIPR 330 OHM +-5% 1/8W
C411	065G0402100 31	CAP 0402 10PF J 50V NPO
C401	065G0402100 31	CAP 0402 10PF J 50V NPO
C602	065G0402103 22	CHIP 0.01UF 25V X7R
C201	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C204	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C205	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C206	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C209	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C210	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C315	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C316	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C317	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
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C501	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C503	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C506	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C507	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C603	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C412	065G0402105 A5	CAP 0402 1UF K 10V X5R
C402	065G0402105 A5	CAP 0402 1UF K 10V X5R
C302	065G0402330 31	CHIP CAP 0402 33pF J 50V NPO
C303	065G0402330 31	CHIP CAP 0402 33pF J 50V NPO
C301	065G0402473 12	CHIP 0.047uF 16V X7R

C304	065G0402473 12	CHIP 0.047uF 16V X7R
C306	065G0402473 12	CHIP 0.047uF 16V X7R
C307	065G0402473 12	CHIP 0.047uF 16V X7R
C309	065G0402473 12	CHIP 0.047uF 16V X7R
C311	065G0402473 12	CHIP 0.047uF 16V X7R
C305	065G0402509 31	CHIP 5pF 50V NPO
C308	065G0402509 31	CHIP 5pF 50V NPO
C310	065G0402509 31	CHIP 5pF 50V NPO
FB601	071G 56K121 M	CHIP BEAD
FB503	071G 56K121 M	CHIP BEAD
FB502	071G 56K121 M	CHIP BEAD
FB201	071G 56K121 M	CHIP BEAD
FB301	071G 59K190 B	19 OHM BEAD
FB302	071G 59K190 B	19 OHM BEAD
FB303	071G 59K190 B	19 OHM BEAD
FB304	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB305	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB401	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB501	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
D314	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D311	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D309	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D308	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D307	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D306	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D305	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D304	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D303	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D302	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D301	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D402	093G 64 42 PP	BAV70 SOT-23
ZD302	093G 39S 34 T	UDZSNP5.6B ROHM
ZD303	093G 39S 34 T	UDZSNP5.6B ROHM
ZD304	093G 39S 34 T	UDZSNP5.6B ROHM
D403	093G 64S522SEM	LL4148
	715G2507 2 K	MAIN PCB FR-4 D/S 56X80MM
Q401	057G 417511	MMBT3904
Q301	057G 417511	MMBT3904
Q202	057G 417511	MMBT3904
Q204	057G 417512	MMBT3906

Q205	057G 417512	MMBT3906
Q602	057G 417512	MMBT3906
Q601	057G 763513	P6403FMG BY NIKO-SEM
ZD301	093G 39S501 T	LUDZS5.6BT1G BY LRC
ZD305	093G 39S501 T	LUDZS5.6BT1G BY LRC
ZD307	093G 39S501 T	LUDZS5.6BT1G BY LRC
D310	093G 39S501 T	LUDZS5.6BT1G BY LRC
D312	093G 39S501 T	LUDZS5.6BT1G BY LRC
D313	093G 39S501 T	LUDZS5.6BT1G BY LRC
D315	093G 39S501 T	LUDZS5.6BT1G BY LRC
	KEPC7QAK	KEY BOARD
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0
SW003	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW002	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW001	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW005	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW004	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
D001	081G 12 1F GH	1ED 3Pin $\Phi 3$ GHZYG603D2-5B
R003	061G0603000 1F	RST CHIPR 0 OHM +-1% 1/10W
R005	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R004	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
R002	061G1206200 1F	RST CHIPR 2.0 KOHM +-1% 1/4W
	715G2835 1	KEY-PCB
	PWPC8742SYJ1	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
C903	063G107K474 TS	CAP X2 0.47UF K 275VAC
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%
C934	067G215P1023AV	CAP 105℃ 1000UF M 16V
C916	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
C918	067G215P4714AV	CAP 105℃ 470UF M 25V
C917	067G215P4714AV	CAP 105℃ 470UF M 25V
C905A	067G215Z10115P	CAP 105℃ 100UF M 450V
L905	073G 253 91 L	CHOKE BY LI TA
L904	073G 253 91 L	CHOKE BY LI TA
L903	073G 253 91 L	CHOKE BY LI TA
L901	073L 174 40 HG	GBQM4.778.391
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 82014X510	WIRE HARNESS 14P(SAN)-9(PH)
C605	096G 29 8	TUBE
C604	096G 29 8	TUBE
C908	096G 29 8	TUBE
	705GQ757021	Q901 ASS'Y
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
Q803	057G 417 4	PMBS3904/PHILIPS-SMT(04)

Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q810	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q805	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q607	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q608	057G 759 2	RK7002
Q808	057G 759 2	RK7002
Q801	057G 760 4B	PDTA144WK SOT346
Q802	057G 760 5B	PDTC144WK SOT346
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
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
R823	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
R847	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R844	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
R815	061G0603330 2F	RST CHIPR 33K OHM +-1% 1/10W
R612	061G0603362 Y	RST CHIPR 3.6KOHM +-5% 1/10W YAGEO
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
R820	061G0603564	RST CHIPR 560 KOHM +-5% 1/10W
R606	061G0603622 Y	RST CHIPR 6.2KOHM +-5% 1/10W YAGEO
R607	061G0603622 Y	RST CHIPR 6.2KOHM +-5% 1/10W YAGEO
R845	061G0603680	RST CHIPR 68 OHM +-5% 1/10W
R846	061G0603680	RST CHIPR 68 OHM +-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
RJ610	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R832	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R830	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R804	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R801	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R608	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
R806	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R807	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R834	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R835	061G0805100 1F	RST CHIPR 1K OHM +-1% 1/8W
R802	061G0805101	1ST CHIPR 100 OHM +-5% 1/8W
R925	061G0805102	RST CHIPR 1K OHM +-5% 1/8W
R939	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
R841	061G0805150 1F	RST CHIPR 1.5 KOHM +-1% 1/8W
R839	061G0805150 1F	RST CHIPR 1.5 KOHM +-1% 1/8W
R812	061G0805150 1F	RST CHIPR 1.5 KOHM +-1% 1/8W
R811	061G0805150 1F	RST CHIPR 1.5 KOHM +-1% 1/8W
R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W
R826	061G0805220 3F	RST CHIPR 220KOHM +-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
C612	065G0603104 12	CER2 0603 X7R 16V 100N P
C613	065G0603104 12	CER2 0603 X7R 16V 100N P
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

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
C813	065G0603222 22	CHIP 2200PF 25V X7R
C815	065G0603222 22	CHIP 2200PF 25V X7R
C817	065G0603222 22	CHIP 2200PF 25V X7R
C818	065G0603222 22	CHIP 2200PF 25V X7R
C601	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C602	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C603	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C606	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
C828	065G0805152 32	CHIP 1500PF 50V X7R 0805
C827	065G0805152 32	CHIP 1500PF 50V X7R 0805
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 12	CAP CHIP 0805 2.2UF K 16V X7R
C909	065G0805471 21	CAP CHIP 0805 470PF J 25V NPO
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
D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D809	093G 64 33	DIO SIG SM BAV99 (PHSE)R

D810	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
D903	093G 6432P	LL4148
D812	093G 6432P	LL4148
D811	093G 6432P	LL4148
D807	093G 6432P	LL4148
D803	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
CN901	006G 31500	EYELET
T901	006G 31502	1.5MM RIVET
IC904	056G 158 12	KIA431A-AT/P TO-92
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 KINGNICH
C605	067G215Y2207KT	CAP 105℃ 22UF M 50V KINGNICH
FB602	071G 55 9 T	FERRITE BEAD
FB904	071G 55 29	FERRITE BEAD
FB903	071G 55 29	FERRITE BEAD
FB901	071G 55 29	FERRITE BEAD
F903	084G 56 3 B	FUSE 3.15A 250V
F902	084G 56 3 B	FUSE 3.15A 250V
F901	084G 56 3 B	FUSE 3.15A 250V
D900	093G 6026T52T	RECTIFIER DIODE FR107
D901	093G 6038T52T	FR103
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
J804	095G 90 23	JUMPER
J803	095G 90 23	JUMPER
J802	095G 90 23	JUMPER
J801	095G 90 23	JUMPER
J604	095G 90 23	JUMPER
J603	095G 90 23	JUMPER
J602	095G 90 23	JUMPER
J606	095G 90 23	JUMPER
J605	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
J821	095G 90 23	JUMPER
J820	095G 90 23	JUMPER
J819	095G 90 23	JUMPER
J818	095G 90 23	JUMPER
J601	095G 90 23	JUMPER
	715G2824 1 2	POWER-PCB,FR-1,94V-0,T1.6MM,160*160MM
Q804	057G 600 55	P5506 HVG SO-8
Q809	057G 600 55	P5506 HVG SO-8
HS1	Q90G6295 3	HEAT SINK
	Q15G0247201	MAINFRAME
	Q19G6034 1 GP	SOCKET
	Q33G0170ABJ 1L0100	KEY PAD
	Q33G0171 1 1C0100	LENS
	Q34G0272ABJ 1B0100	REAR COVER 17
	Q34G0303BBLA1B0130	BEZEL L17A-8Q1a
	Q40G 17N615A02	RATING LABEL

	Q40G0001624 4A	PALLET LABEL
	Q40G0002615A43	TCO'03 LABEL
	Q40G0002850 9A	VISTA LABEL
	Q41G780A61588A	HA STAND
	Q41G780A61589A	QSG
	Q44G6002813 4A	PAPER BOARD
	Q44G7095101	EPS
	Q44G7095201	EPS
	Q44G7095615 1A	17"LCD CARTON
	Q44G9003104	CORNER PAPER
	Q44GSLIP10087A	PLASTIC SLIPSHEET
	Q44GSLIP10088A	PLASTIC SLIPSHEET
	Q45G 77 5	PE PACKING
	Q45G 88607 34	PE BAG FOR BASE
	Q45G 88609 91	EPE BAG FOR MONITOR
	Q52G 1185 99	BIG CARTON TAPE FOR AOC
	S89G179T30N577	LVDS ASS'Y
	089F80002603AG	1.0*30*2.5-260-3-0.65*0.05
	033F303FH10BK3	F1010HA-30P-BK
	033F303FJSHK30	1.0S-19-30A
	041G780061553A	TCO'03 CARD
	041G780061554A	SERVICE CENTER LIST
	089G 17356C554	AUDIO CABLE
	Q45G 76 28 RN R	PE BAG MANUAL
	Q70G700761528B	CD MANUAL
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG
	040G 581689 4A	BARCODE LABEL FOR 1
	Q40G000262475A	POP LABEL