Service
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Service Manual

Horizontal Frequency
30KHz-80KHz

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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

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 might 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.)

Revision List

Version	Date	Revision History	TPV Model Name
A00	Feb.-11-08	Initial Release	TC7CMANF4WUQDN

1. Monitor Specifications

내 용	사 양
LCD 패널 타입	55cm Wide TFT Panel
최대 해상도	1680×1050(dot)
Pixel Pitch	0.276 mm(가로)×0.276 mm(세로)
입력 신호	아날로그, 디지털
입력 커넥터	D-Sub, DVI-D
화면 사이즈	465 mm(H)×288 mm(V)
전원	AC 90~240 V, 50/60 Hz
소비 전력	49 W
모니터 크기	505.8 mm(W)×209.9 mm(H)×404.6 mm(D)
제품 무게(모니터)	5 kg
제품 무게(포장 상태)	7 kg
사용 온도	0 ℃ ~ 40 ℃ (Max)
보관 온도	-20 ℃ ~ 60 ℃ (Max)

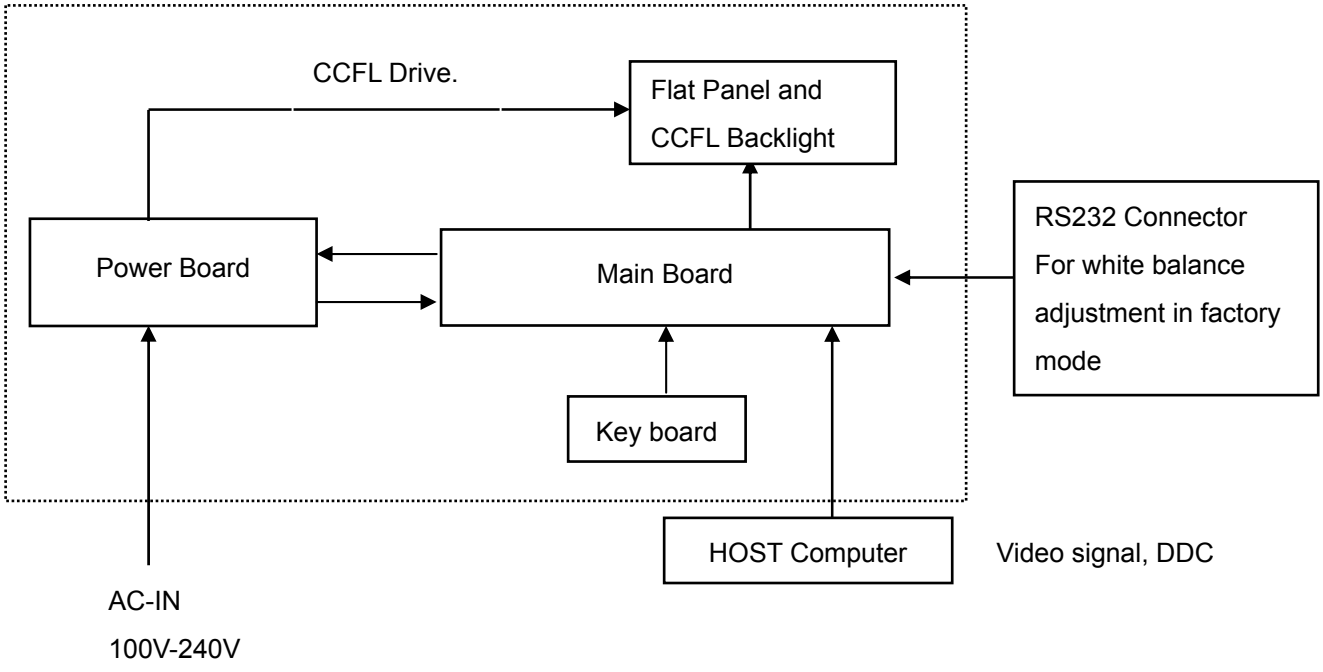
모드	ON 모드	절전 모드	OFF 모드
LED	녹색	주황색	꺼짐
소비 전력	≤ 49 W(최대)	-	≤ 1 W

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 Inverter board will drive the backlight of panel and DC-DC conversion.

Monitor Block Diagram



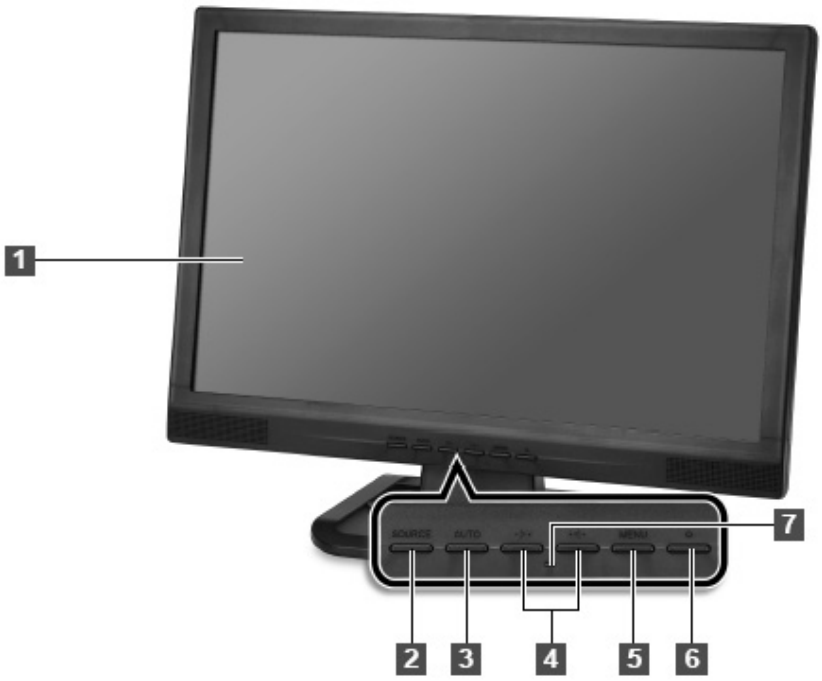
3. Operating Instructions

3.1 General Instructions

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

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

3.2 Front Panel Control



1 액정 화면(TFT LCD)

시스템의 작동 내용을 보여 줍니다.

2 Source(입력 신호 선택) 버튼

입력 신호를 선택합니다.

- Analog (아날로그) : D-Sub 케이블을 연결하여 사용할 경우 선택하십시오.
- Digital (디지털) : DVI 케이블을 연결하여 사용할 경우 선택하십시오.

3 Auto 버튼

- OSD 메뉴 화면이 없는 상태에서 이 버튼을 누르면 '자동 화면 조정 중' 메시지와 함께 자동으로 현재 모드에 맞는 최상의 화면 상태로 조정됩니다.
- 서브 메뉴에서 이 버튼을 누르면 서브 메뉴를 빠져 나옵니다.

4 소리(Volume)◀/▶ 버튼

- OSD 화면상에서 이 버튼을 누르면 다음 메뉴 항목으로 이동합니다.
  선택한 메뉴 항목에서 이 버튼을 누르면 조정값이 감소/증가합니다.
- OSD 메뉴가 없는 상태에서 이 버튼을 누르면 '소리'를 조절할 수 있는 화면이 나타납니다.

5 Menu 버튼

- 전원 표시등에 불이 들어온 상태에서 이 버튼을 누르면 OSD(On Screen Display) 메뉴 화면이 나타납니다.
- OSD 메뉴에서 이 버튼을 누르면 변경 설정할 메뉴를 선택할 수 있습니다.
- OSD 메뉴에서 현재 선택한 설정 값을 저장할 수 있습니다.
- 소리조절 메뉴에서 이 버튼을 누르면 OSD 메뉴를 빠져나갑니다.

6 전원 버튼

이 버튼을 누르면 전원이 켜지고 다시 누르면 전원이 꺼집니다.

7 전원 표시등

LCD 모니터의 전원을 켜면 표시등에 녹색 불이 켜집니다.
(LCD 모니터가 절전 모드로 들어가면 표시등이 주황색으로 바뀝니다.)

3.3 Adjusting the Picture

* OSD 메인 메뉴를 나타나게 하려면 〈Menu〉 버튼을 눌러 주십시오.
(표시등에 불이 들어온 상태에서 〈Menu〉 버튼을 눌러야 OSD 메인 메뉴가 나타납니다.)

* 〈◀/▶〉 버튼을 눌러 각 메뉴로 이동한 후 〈Menu〉 버튼을 누르면 해당 서브 메뉴가 선택됩니다.

1 밝기/명암

LCD 패널 화면의 밝기 및 명암을 조정할 수 있습니다.

- 명암 : 화면의 명암을 조정할 수 있습니다.
- 밝기 : 화면의 밝기를 조정할 수 있습니다.
- Eco : 표준모드, 텍스트 모드, 인터넷 모드, 게임 모드, 영화 모드, 스포츠 모드
- 감마 : 감마1, 감마2, 감마3으로 조정
- DCR : Off일 경우 DCR이 해제되고, On일 경우 DCR이 작동합니다.

2 이미지 설정

화면 이미지의 설정값을 조정합니다.

- Clock : 화면의 화소수를 증가 또는 감소시켜 미세 조정을 맞추어 화질을 조정합니다.
- 선명도 : 화면의 초점을 조정할 수 있습니다.
- 수평 위치 : 화면의 위치를 좌우로 조정합니다.
- 수직 위치 : 화면의 위치를 상하로 조정합니다.

3  색상 선택

색상의 설정값을 조정합니다.

- 따뜻한 색 : 색온도를 따뜻하게 설정합니다.
- 기본 색 : 색온도를 표준으로 설정합니다.
- 시원한 색 : 색온도를 차갑게 설정합니다.
- sRGB : sRGB에 적합한 색온도를 설정합니다.
- 사용자 User-R : 붉은색 값을 변경합니다.
  User-G : 녹색 값을 변경합니다.
  User-B : 푸른색 값을 변경합니다.
  User-Y : 노란색 값을 변경합니다.
  User-C : 청록색 값을 변경합니다.
  User-M : 자홍색 값을 변경합니다.

4  색 표현

이미지 환경에 맞게 색상을 조정할 수 있습니다.

- Full Enhance(생생한 모드) : 생기있는 화면 적합 모드
- Nature Skin(네이처 스킨 모드) : 인물 표현 적합 모드
- Green Field(그린 필드 모드) : 넓은 초원 등을 볼 때 적합한 모드
- Sky-blue(스카이 블루 모드) : 바다, 하늘 등의 색 표현에 적합 모드
- Auto Detect(자동 탐색 모드) : 자동 설정 모드
- Demo(데모)

5  화면 설정

화면 특정 부분만을 선택하여 설정 값을 조정할 수 있습니다.

- Frame Size : 프레임 사이즈 조정
- 밝기 : 프레임 밝기 조정
- 명암 : 프레임 명암 조정
- 색조 : 프레임 그림자 조정
- 채도 : 프레임 채도 조정
- 위치 - 수평 위치 : 프레임의 위치를 좌우로 조정합니다.
  - 수직 위치 : 프레임의 위치를 상하로 조정합니다.
- Bright Frame : 밝은 프레임 설정

6 OSD 설정

OSD 메뉴의 수평, 수직, 시간, 언어 등의 설정을 변경할 수 있습니다

- 수평 위치 : OSD 메뉴의 수평 위치를 조정할 수 있습니다.
- 수직 위치 : OSD 메뉴의 수직 위치를 조정할 수 있습니다.
- OSD 지속 시간 : OSD 메뉴의 시간 설정을 할 수 있습니다.
- 언어 : OSD 메뉴의 언어를 선택할 수 있습니다.

7 그외

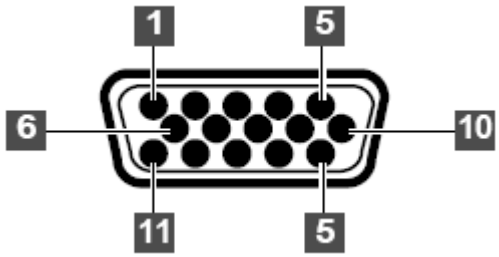
부가 기능

- 입력 선택 : 아날로그/디지털 입력 신호를 선택합니다.
- 자동 조정 : 화면을 자동 조정합니다.
- DDC/CI : DDC/CI 기능을 설정합니다.
- 화면 조절 : 화면을 확대 또는 4:3 비율로 설정합니다.
- 초기 상태 : 모니터 출하 시의 기본 설정 값으로 변경됩니다.
- 정보 : 현재 해상도, 수평/수직 주파수, 입력 신호에 대한 정보를 알려 줍니다.

4. Input/Output Specification

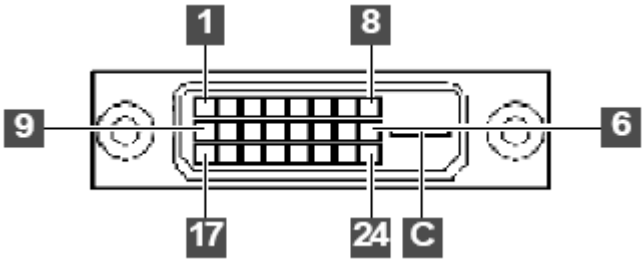
4.1 Input Signal Connector

D-SUB



핀번호	신호 이름
1	적색
2	녹색
3	청색
4	접지
5	접지
6	적색 접지
7	녹색 접지
8	청색 접지
9	+5 Vcc
10	Detect 케이블
11	접지
12	DDC 시리얼 데이터
13	수평 동기
14	수직 동기
15	DDC 시리얼 클럭

DVI



핀 번호	신호 커넥터	핀 번호	신호 커넥터
1	TDMS D2-	14	+5V POWER
2	TDMS D2+	15	GND(for +5V)
3	TDMS D2/4 Shield	16	HPD(Hot Plug Detect)
4	N.C.	17	TDMS D0-
5	N.C.	18	TDMS D0+
6	DDC CLK	19	TDMS D0/5 Shield
7	DDC DATA	20	N.C.
8	N.C.	21	N.C.
9	TDMS D1-	22	TDMS Clock Shield
10	TDMS D1+	23	TDMS Clock+
11	TDMS D1/3 Shield	24	TDMS Clock-
12	N.C.		
13	N.C.	C	N.C.

4.2 Factory Preset Display Modes

MODES			
모드명	해상도	수평 주파수 +/−0.5 kHz	수직 주파수 +/−1 Hz
DOS	720×400@70 Hz	31.47 kHz	70.000 Hz
VGA	640×480@60 Hz	31.469 kHz	59.940 Hz
	640×480@75 Hz	37.500 kHz	75.000 Hz
SVGA	800×600@60 Hz	37.879 kHz	60.317 Hz
	800×600@75 Hz	46.875 kHz	75.000 Hz
XGA	1024×768@60 Hz	48.363 kHz	60.004 Hz
	1024×768@70 Hz	56.476 kHz	70.069 Hz
	1024×768@75 Hz	60.023 kHz	75.029 Hz
SXGA	1280×1024@60 Hz	63.981 kHz	60.020 Hz
	1280×1024@75 Hz	79.976 kHz	75.025 Hz
WXGA	1440×900@60 Hz	55.935 kHz	59.8 Hz
WXGA+	1680×1050@60 Hz	65.290 kHz	60.000 Hz

4.3 Power Supply Requirement

A/C Line voltage range	100 V ~ 240 V
A/C Line frequency range	50 ± 3Hz, 60 ± 3Hz
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	12VDC± 5％

4.4 Panel Specification

CLAA220WA01 is 22.0” color TFT-LCD (Thin Film Transistor Liquid Crystal Display) module composed of LCD panel, driver ICs, control circuit and backlight. By applying 6 bit digital data,1680×1050, 16.7M-color images are displayed on the 21.6” diagonal screen. Input power voltage is 5.0V for LCD driving. Inverter for backlight is not included in this module.

4.4.1 General Features

ITEM	SPECIFICATION
Display Area(mm)	464.94 (H) × 290.5875 (V) (21.6-inch diagonal)
Number of Pixels	1680 (H) × 1050(V)
Pixel Pitch(mm)	0.27675(H) × 0.27675(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	Normally white, TN
Number of Colors	16.7M(6bits+Hi-FRC)
Brightness(cd/m^2)	300cd/m^2 (Typ.)(center, 7.0mA)
Viewing Angle(H/V)	170/160 (Typ.)
Surface Treatment	Anti-glare, 3H
Power consumption(W)	34.0(Typ.) (w/o Inverter)
Module Size(mm)	493.7 (W) × 320.1 (H) ×16.5 (D) (Typ.)
Module Weight(g)	3000(Typ.)
Backlight Unit	CCFL, 4 tubes(top × 2/bottom × 2) , Edge light

4.4.2 Optical Characteristics

Ta=25℃，VCC=5.0V

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	REMARK
Contrast (CEN)		CR	θ=ψ= 0°	800	1000	--	--	*1)
Luminance (CEN)		L	θ=ψ= 0°	250	300	--	cd/m^2	*2)
9P Uniformity		ΔL	θ=ψ= 0°	75	--	--	%	*2)
Response Time		Tr+Tf	θ=ψ= 0°	--	5	8	ms	*4)
Cross talk		CT	θ=ψ= 0°	--	--	1	%	*5)
View angle	Horizontal	ψ	CR≧10	150	160	--	Deg.	*3)
	Vertical	θ		140	160	--	Deg.	
Color Coordinates	White	x	θ=ψ= 0°	0.283	0.313	0.343	Color Coordinates	*2)
		y		0.299	0.329	0.359		
	Red	x		0.621	0.651	0.681		
		y		0.300	0.330	0.360		
	Green	x		0.237	0.267	0.297		
		y		0.600	0.630	0.660		
	Blue	x		0.115	0.145	0.175		
		y		0.050	0.080	0.110		
Gamut		CG	θ=ψ= 0°	70	72		%	
Gamma		γ	VESA	2.0	2.2	2.4	--	*6)

4.4.3 Electrical Characteristics

(1).TFT-LCD

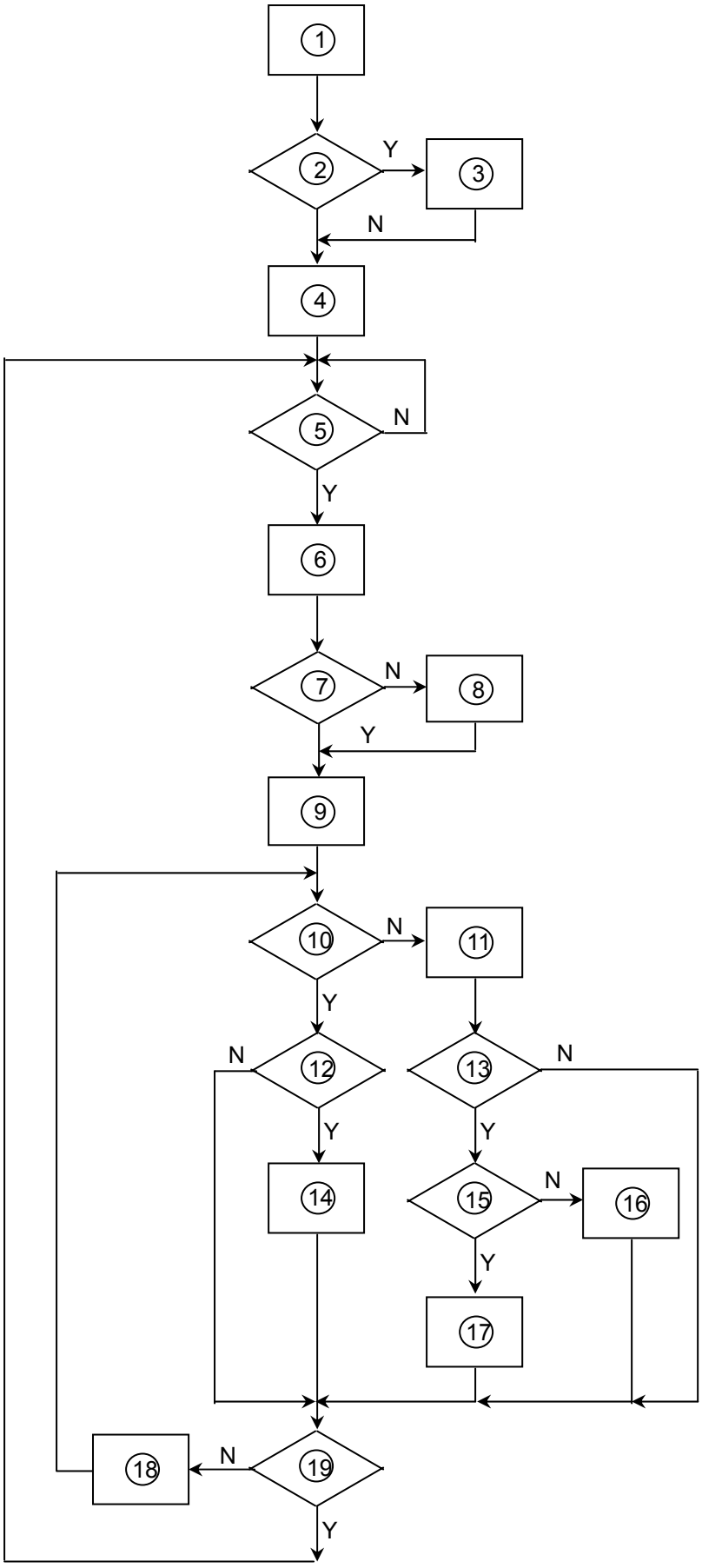
ITEM		SYMBOL	MIN	TYP	MAX	UNIT
Power Supply Voltage for LCD		VCC	4.5	5.0	5.5	V
Power Supply Current for LCD		ICC	--	900	1500	mA
Permissive Ripple Voltage for Logic		VRP	--	--	100	mVp-p
Differential Resistance		Zm	90	100	110	Ω
LVDS: IN+ , IN-	The same motion input Voltage	VCM	1.125	1.25	1.375	V
	Differential input Voltage	| VID |	250	350	450	mV
	High electric potential threshold voltage	VTH	-	-	100	mV
	Low electric potential threshold voltage	VTL	-100	-	-	mV
LCDInrush Current		Inrush	-	-	3	A
Power consumption		P	-	4.5	7.5	W

(2).Backlight

ITEM		SYMBOL	MIN	TYP	MAX	UNIT
B/L Voltage	Delta	VL	729	810	891	Vrms
	STI	VL	792	880	968	Vrms
B/L Current		IL	6.5	7.5	8.0	mArms
B/L operating current		ILO	3	7.5	8.0	mArms
B/L power comsuption		WL	—	24.6	29.0	W
Inverter Frequency		FI	40	50	60	kHz
Starting Lamp Voltage	Delta	VS	—	—	1850	Vrms
			—	—	1650	Vrms
	STI	VS	—	—	1800	Vrms
			—	—	1400	Vrms

5. Block Diagram

5.1 Software Flowing Chart

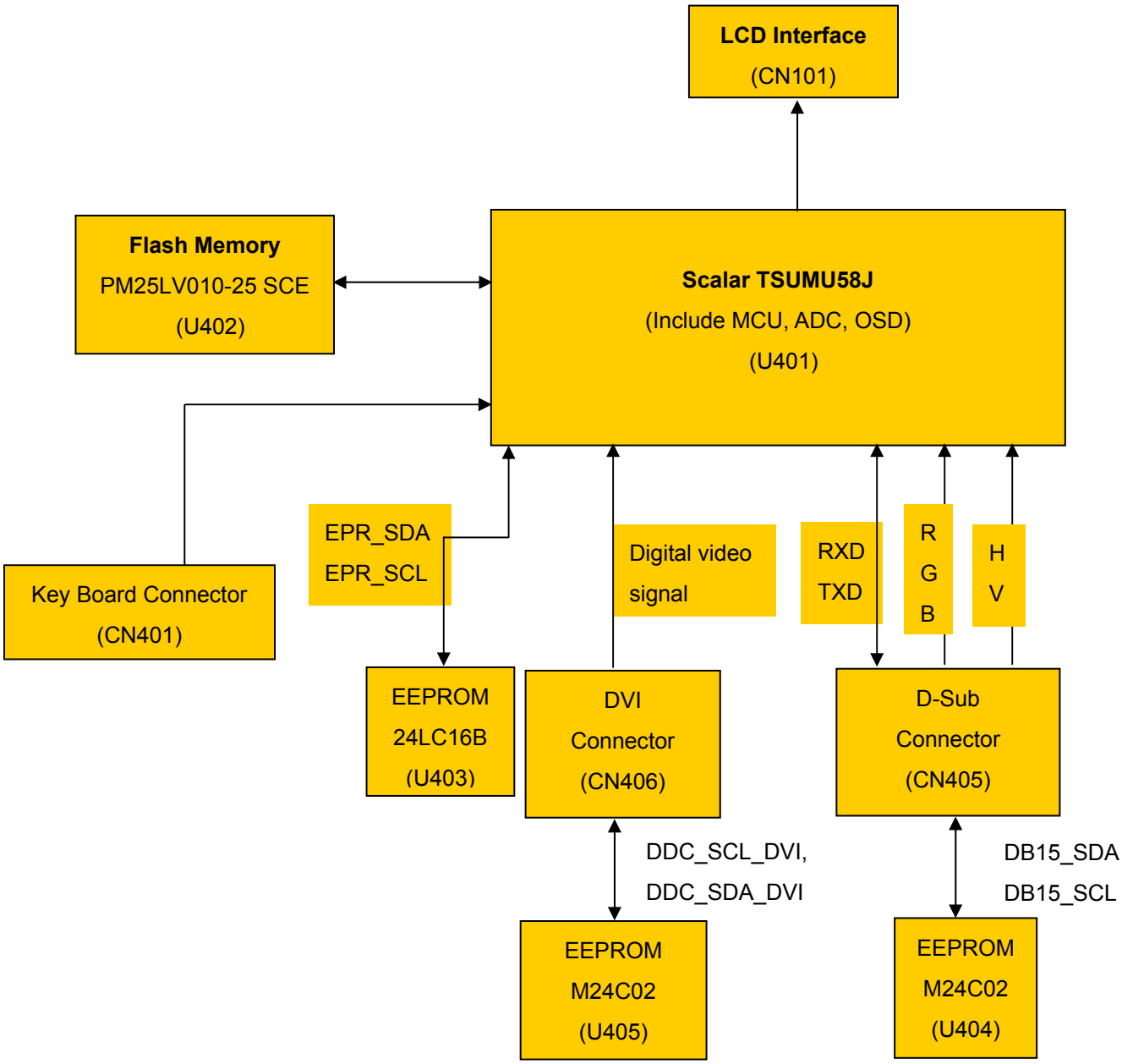


REMARK:

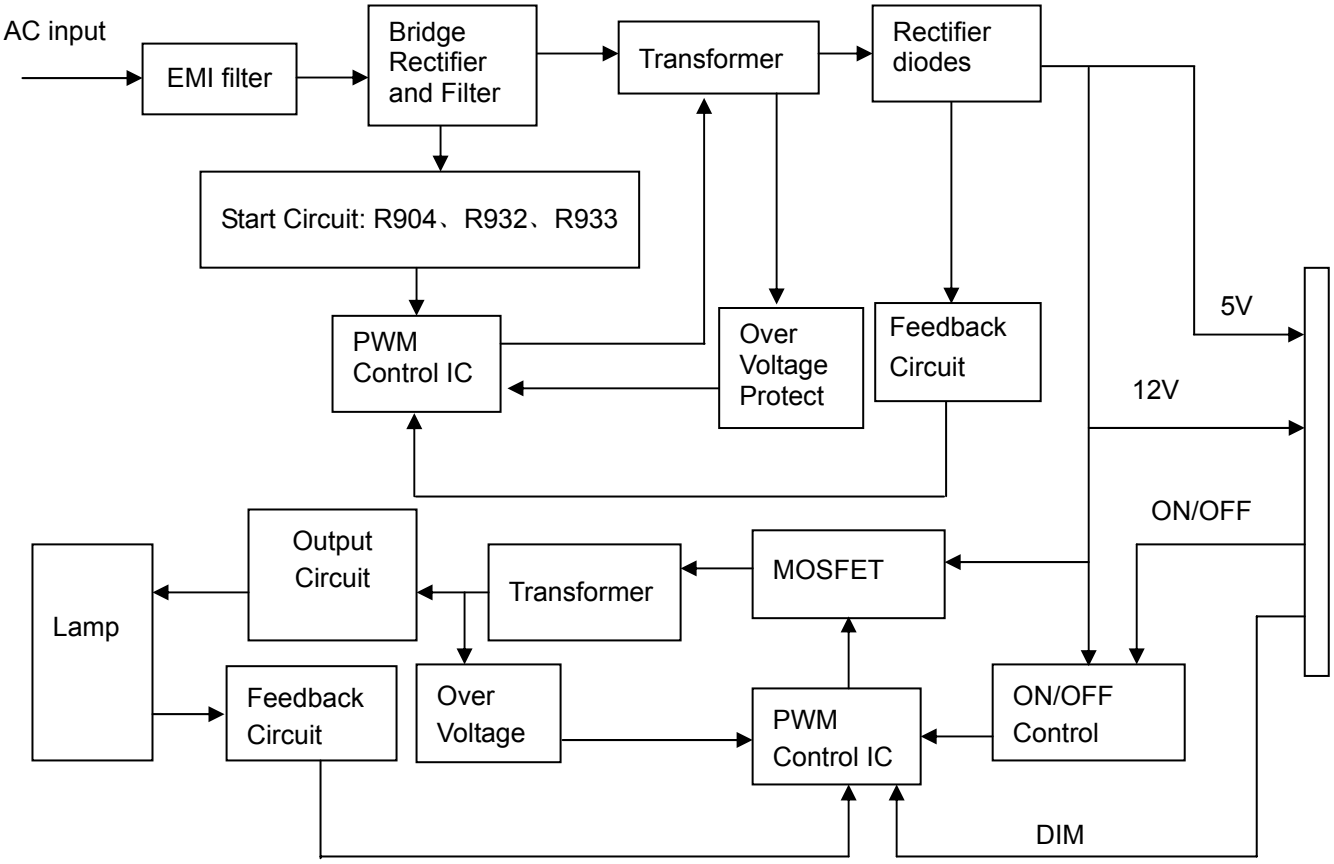
1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the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

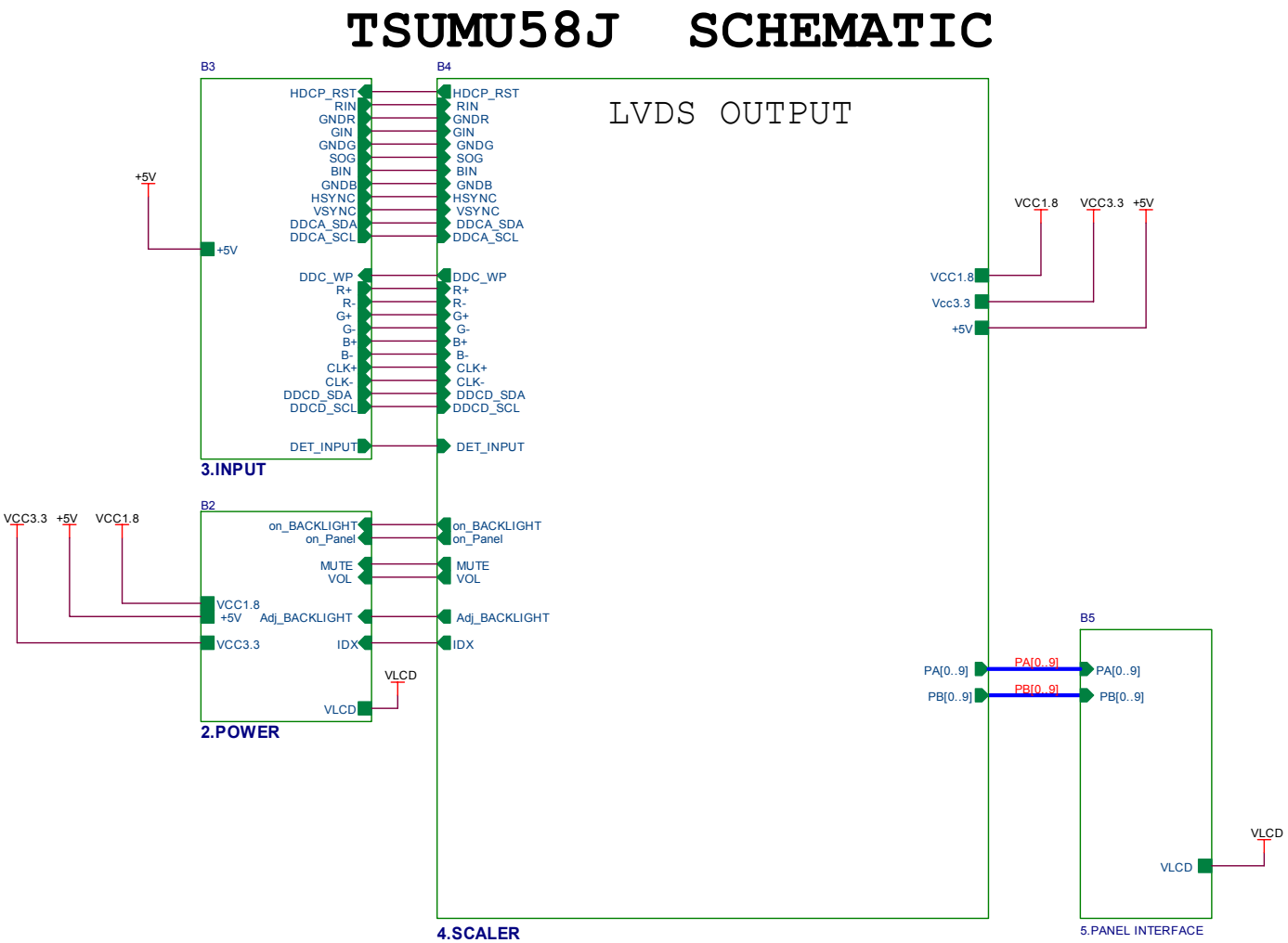


5.2.2 Power Board

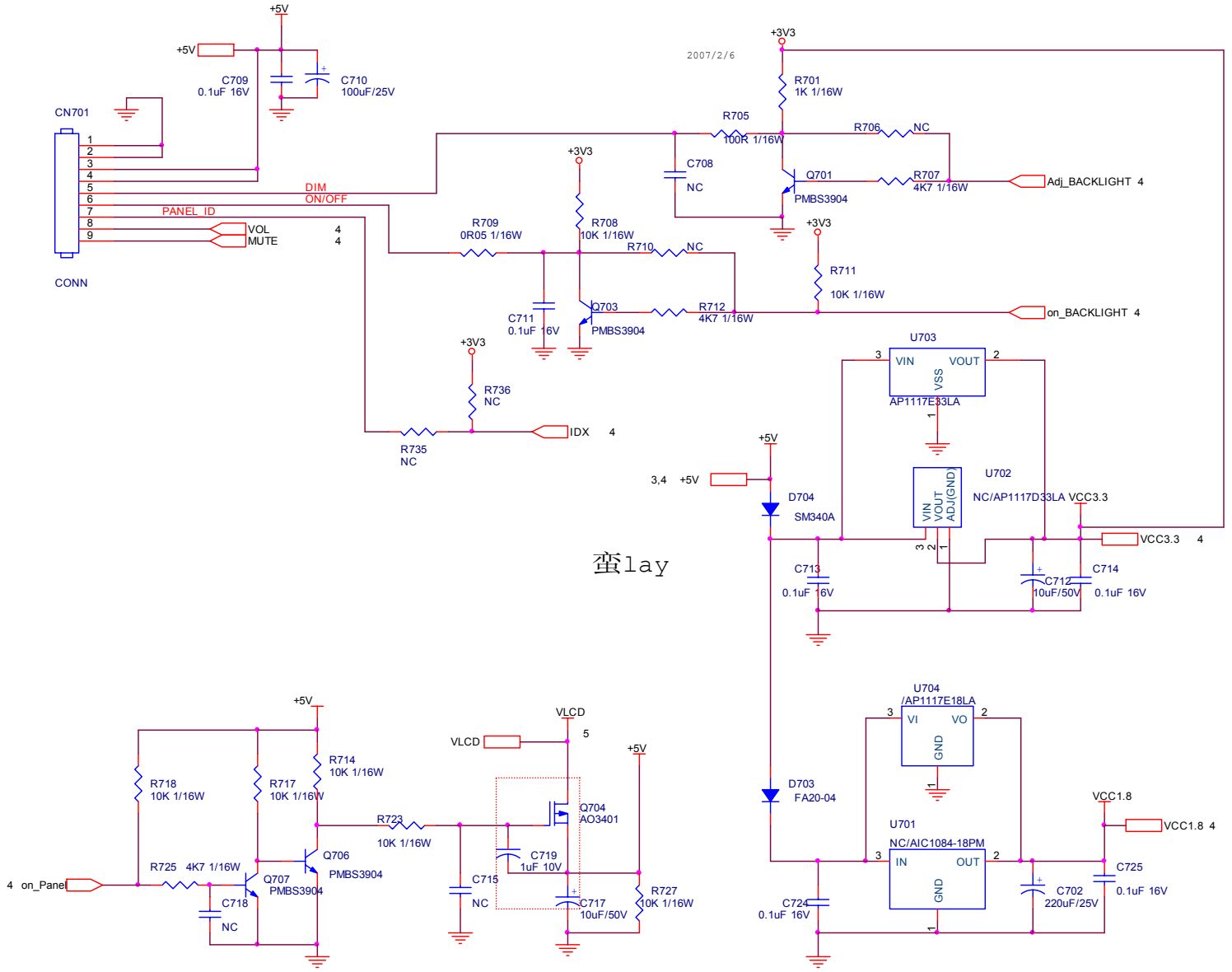


6. Schematic

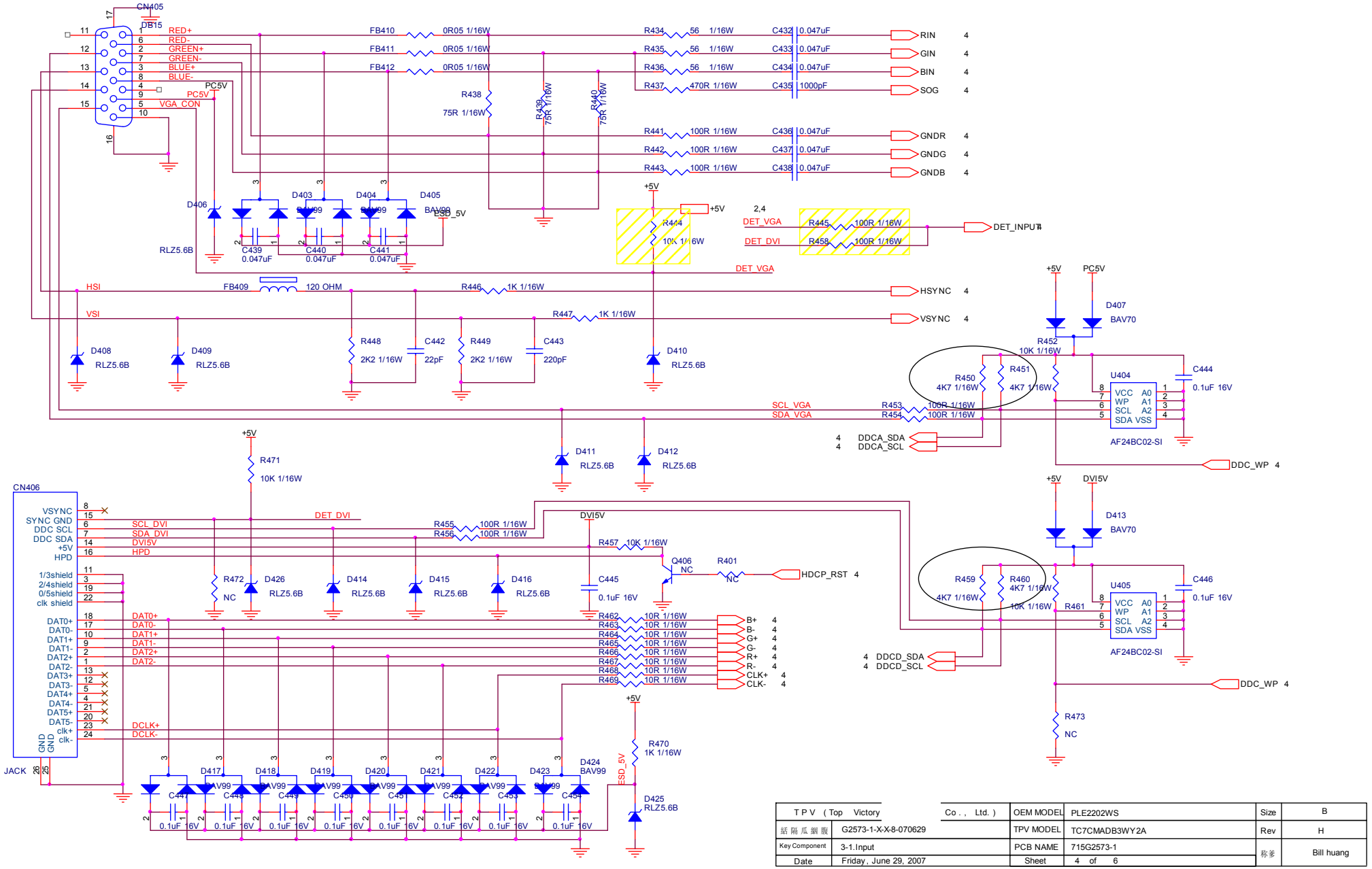
6.1 Main Board



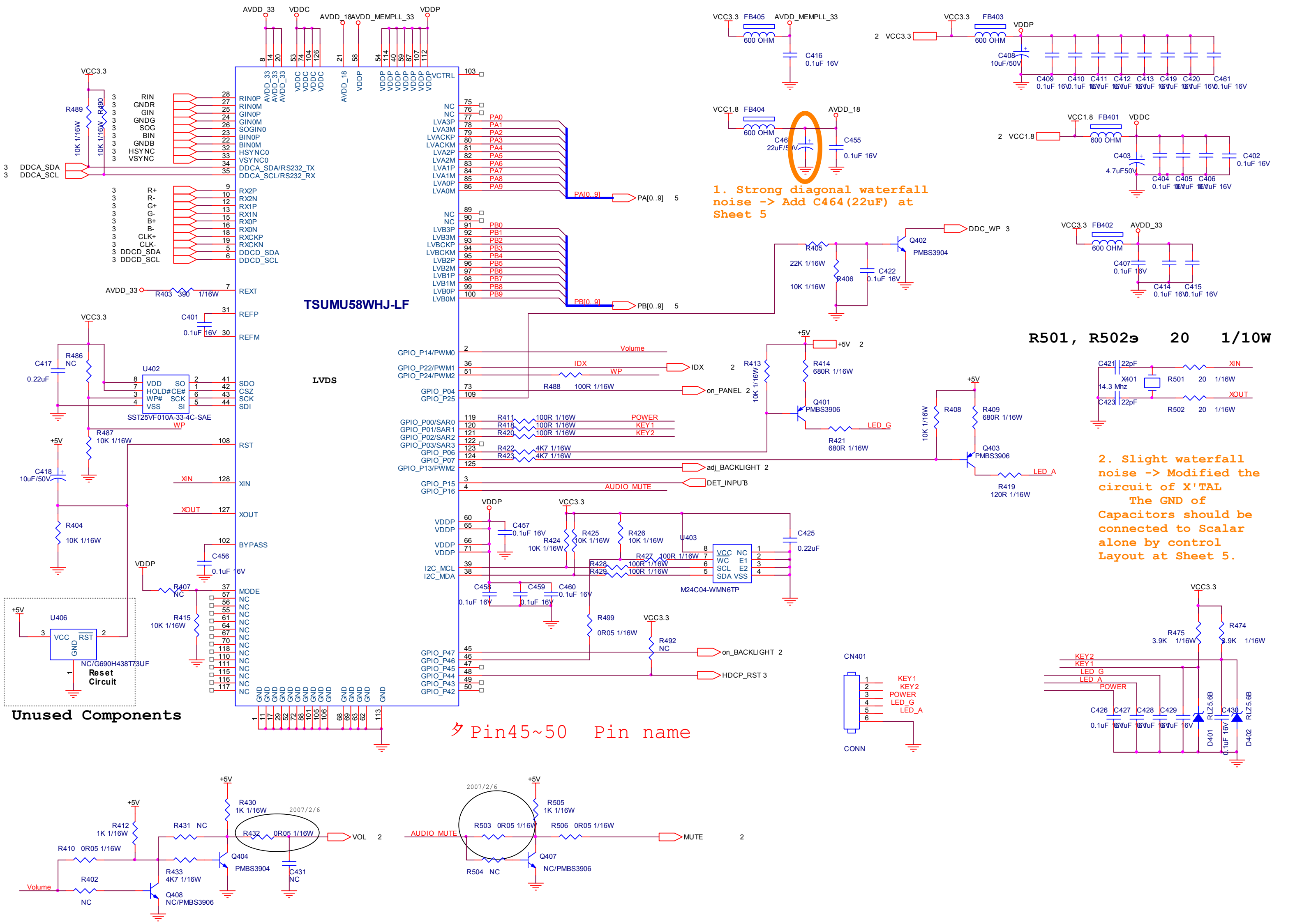
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	PLE2202WS	Size	Custom
紙 隔 瓜 銅 腹	G2573-1-X-X-8-070629	TPV MODEL	TC7CMADB3WY2A	Rev	H
Key Component	1-2.TOP	PCB NAME	715G2573-1	称爹	Bill huang
Date	Friday , June 29, 2007	Sheet	2 of 6		



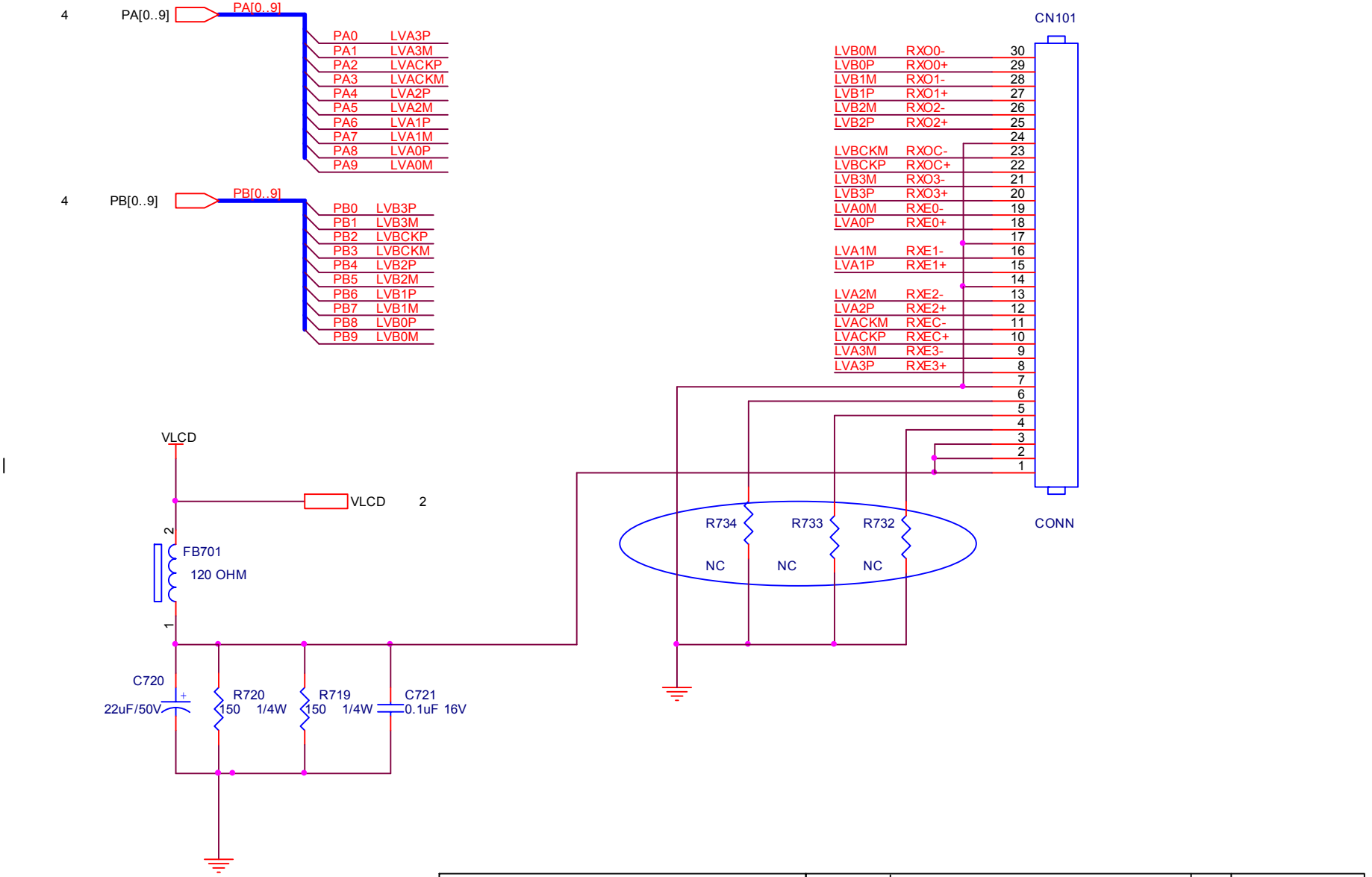
T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	PLE2202WS	Size	Custom
筮 隔 瓜 綱 腹	G2573-1-X-X-8-070629	TPV MODEL	TC7CMANF4WUGDN	Rev	H
Key Component	2-1.POWER	PCB NAME	715G2573-1	称爹	Bill huang
Date	Friday, September 07, 2007	Sheet	3 of 6		



T P V （Top Victory Co., Ltd.）		OEM MODEL	PLE2202WS	Size	B
結隔瓜綢腹	G2573-1-X-X-8-070629	TPV MODEL	TC7CMADB3WY2A	Rev	H
Key Component	3-1.Input	PCB NAME	715G2573-1	称爹	Bill huang
Date	Friday, June 29, 2007	Sheet	4 of 6		

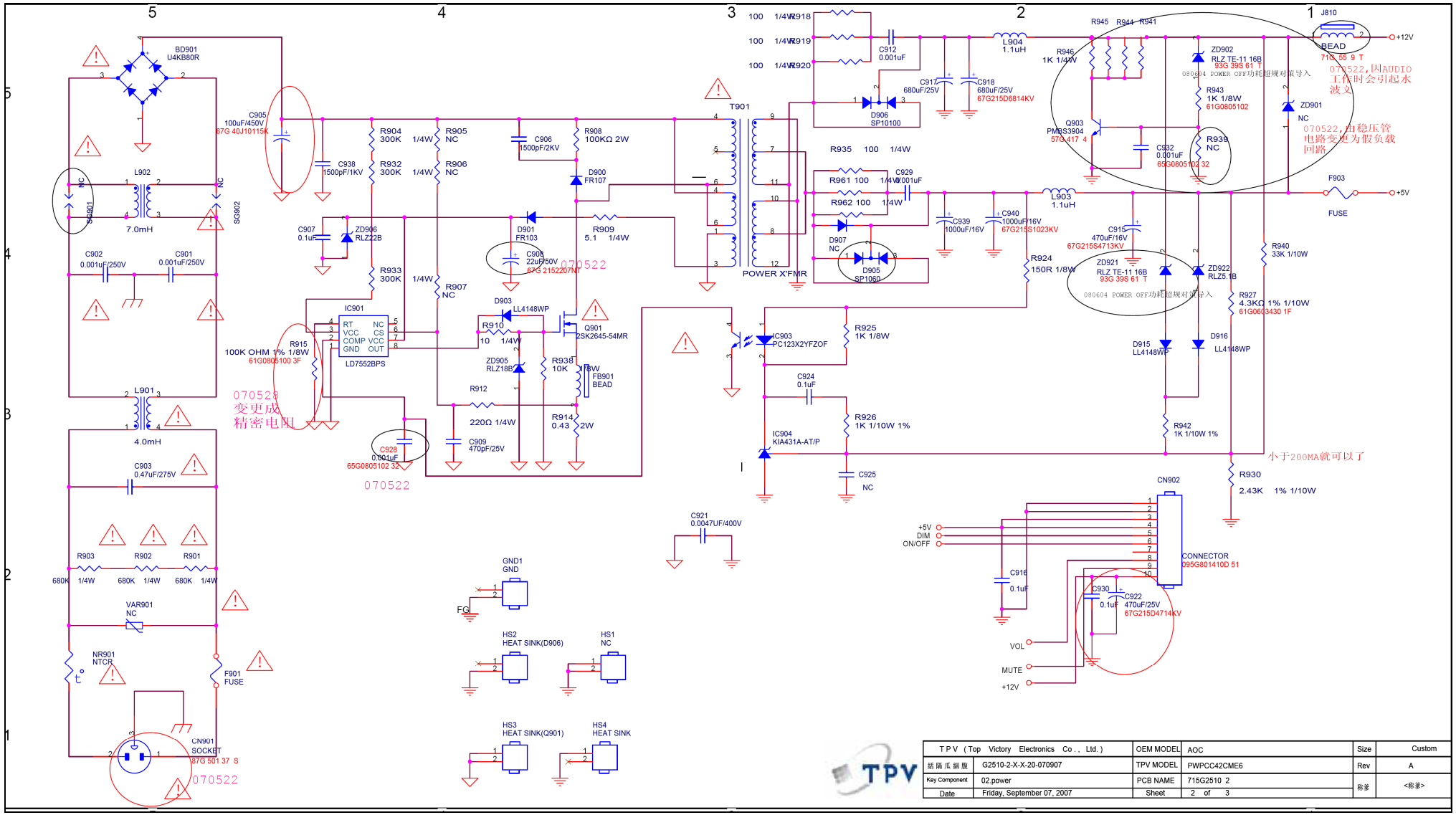


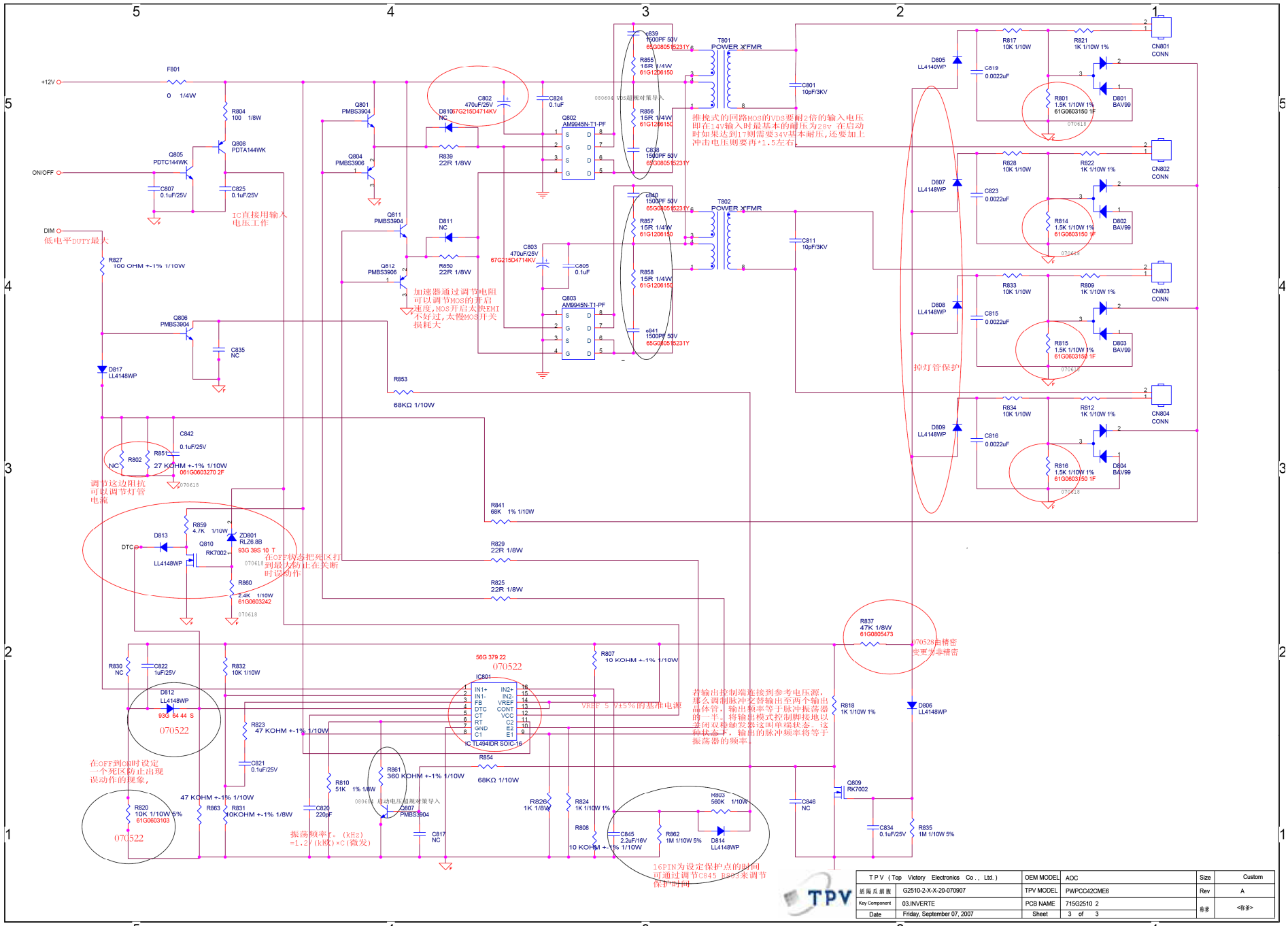
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	PLE2202WS	Size	Custom
[illegible]	G2573-1-X-X-8-070629	TPV MODEL	TC7CMADB3WY2A	Rev	H
Key Component	4-1.SCALER	PCB NAME	715G2573-1	[illegible]	Bill huang
Date	Friday, June 29, 2007	Sheet	5 of 6		

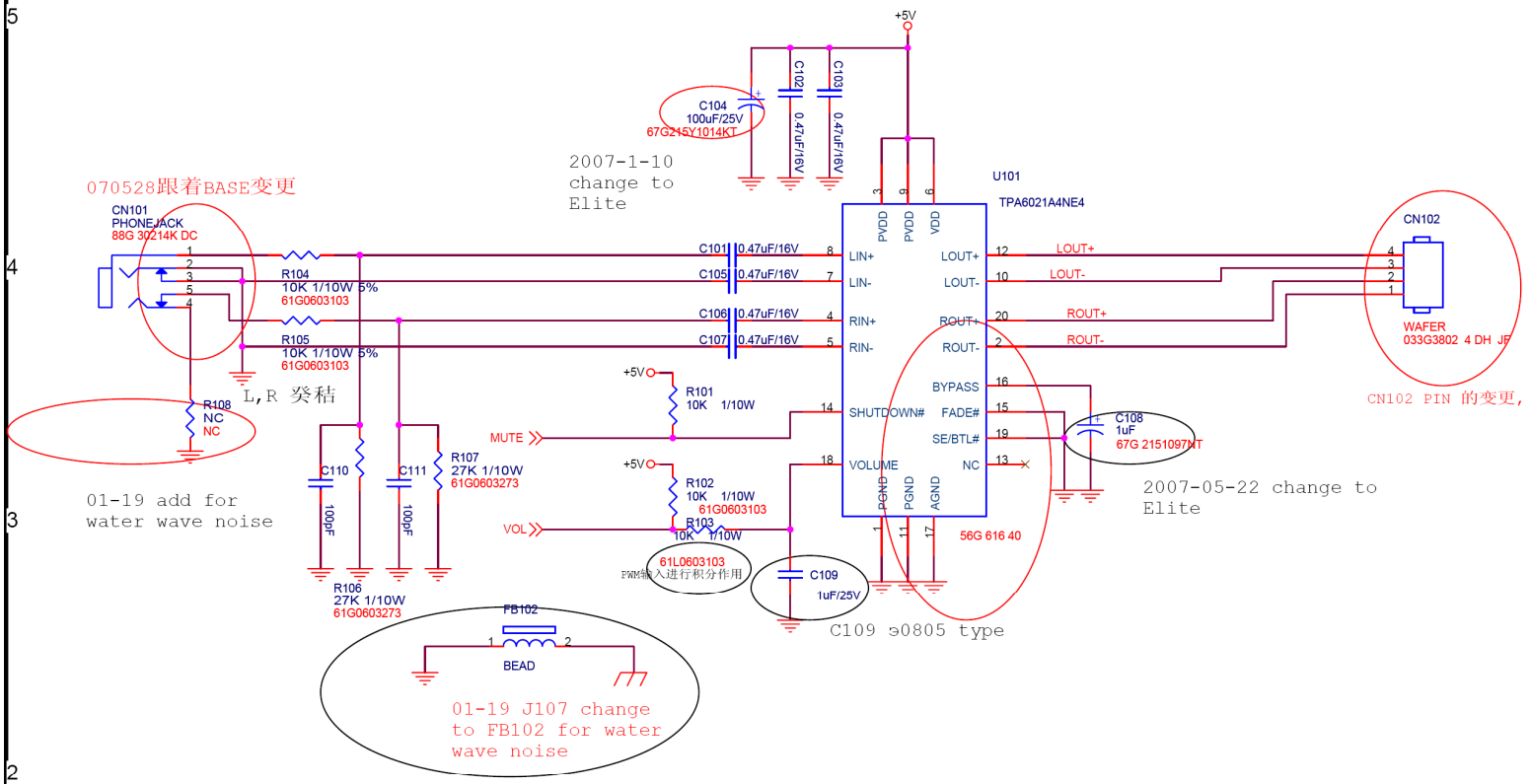


T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	PLE2202WS	Size	A
結 隔 瓜 細 腹	G2573-1-X-X-8-070629	TPV MODEL	TC7CMADB3WY2A	Rev	H
Key Component	5-1.PANEL INTERFACE	PCB NAME	715G2573-1	称爹	Bill huang
Date	Friday, June 29, 2007	Sheet	6 of 6		

6.2 Power Board



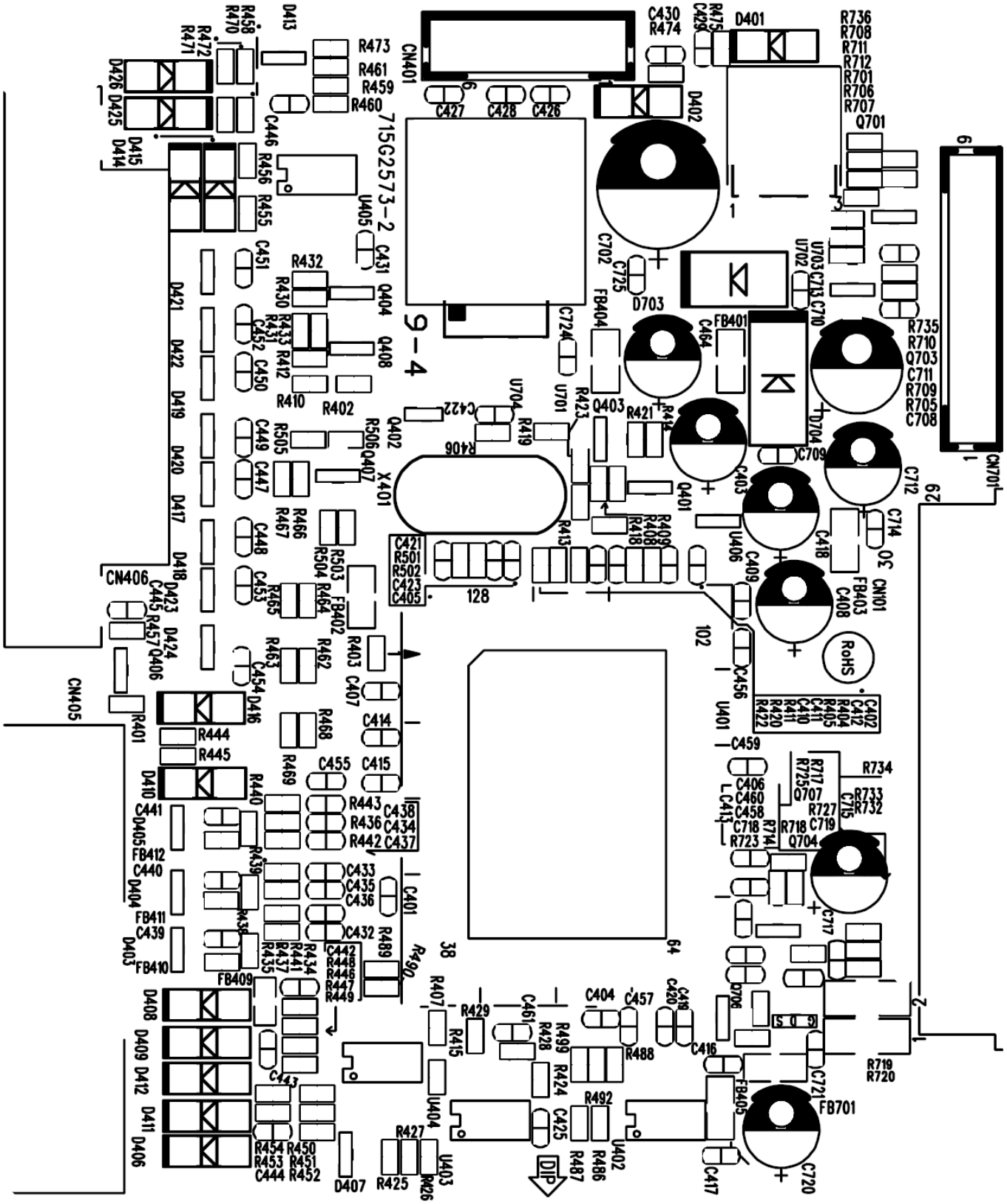

+12V
ON/OFF
DIM
低电平DUTY最大
IC直接用输入电压工作
加速器通过调节电阻可以调节MOS的开启速度，MOS开启太快EMI不好过，太慢MOS开关损耗大
推挽式的回路MOS的VDS要耐2倍的输入电压即在14V输入时最基本的耐压为28V 在启动时如果达到17则需要34V基本耐压，还要加上冲击电压则要再*1.5左右。
掉灯管保护
调节这边阻抗可以调节灯管电流
在OFF状态把死区打到最大防止在关断时误动作
在OFF到on时设定一个死区防止出现误动作的现象，
振荡频率f。(kHz) =1.2/(k欧)×C(微发)
若输出控制端连接到参考电压源，那么调制脉冲交替输出至两个输出晶体管，输出频率等于脉冲振荡器的一半。将输出模式控制脚接地以让闭双稳触发器这叫单端状态。这种状态下，输出的脉冲频率将等于振荡器的频率。
VREF 5.0±5%的基准电源
16PIN为设定保护点的时间可通过调节C845 R863来调节保护时间
070528由精密变更为非精密
TPV (Top Victory Electronics Co., Ltd.)
OEM MODEL AOC
TPV MODEL PWPCC42CME6
PCB NAME 715G2510_2
Sheet 3 of 3
Size Custom
Rev A
Friday, September 07, 2007

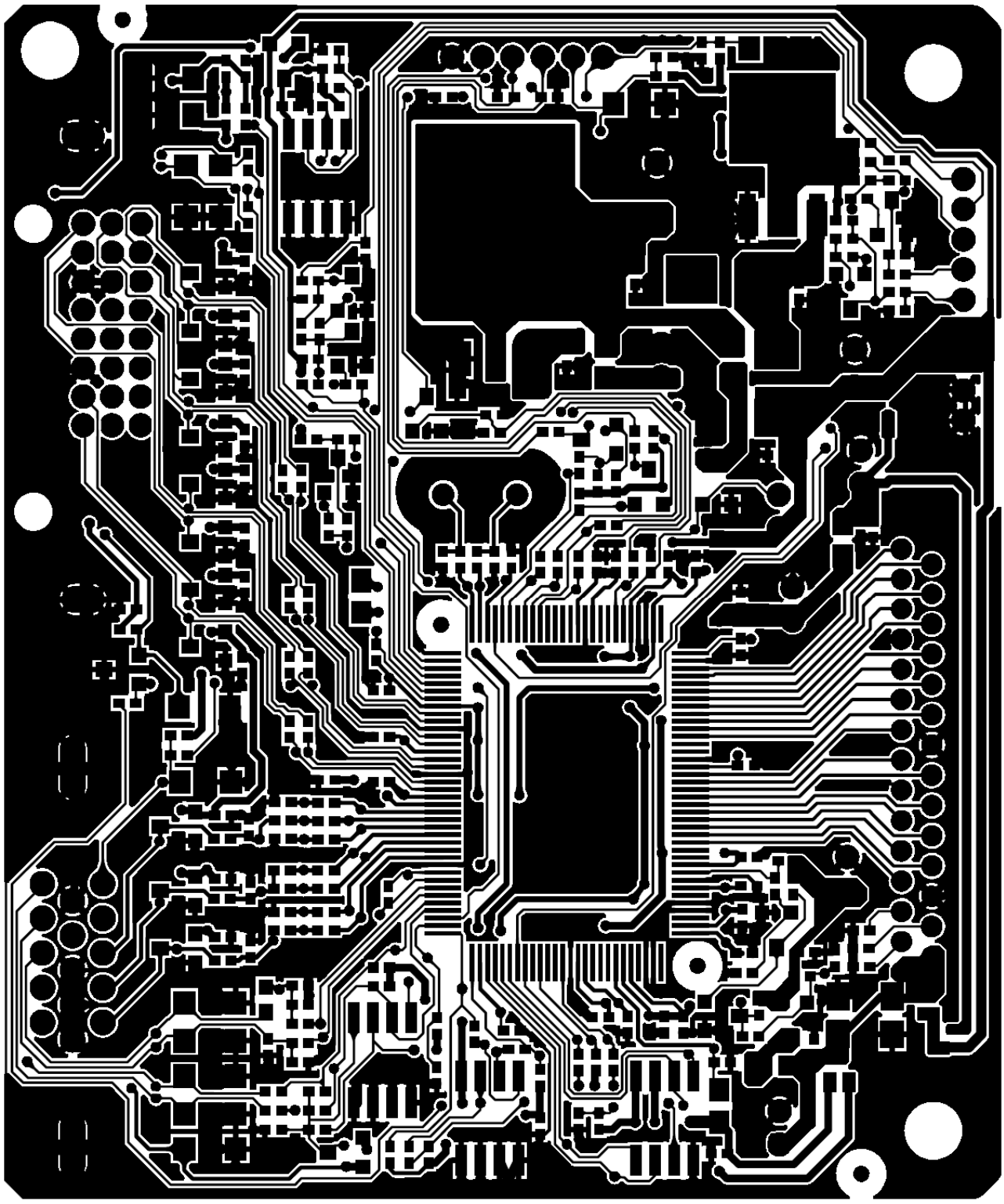


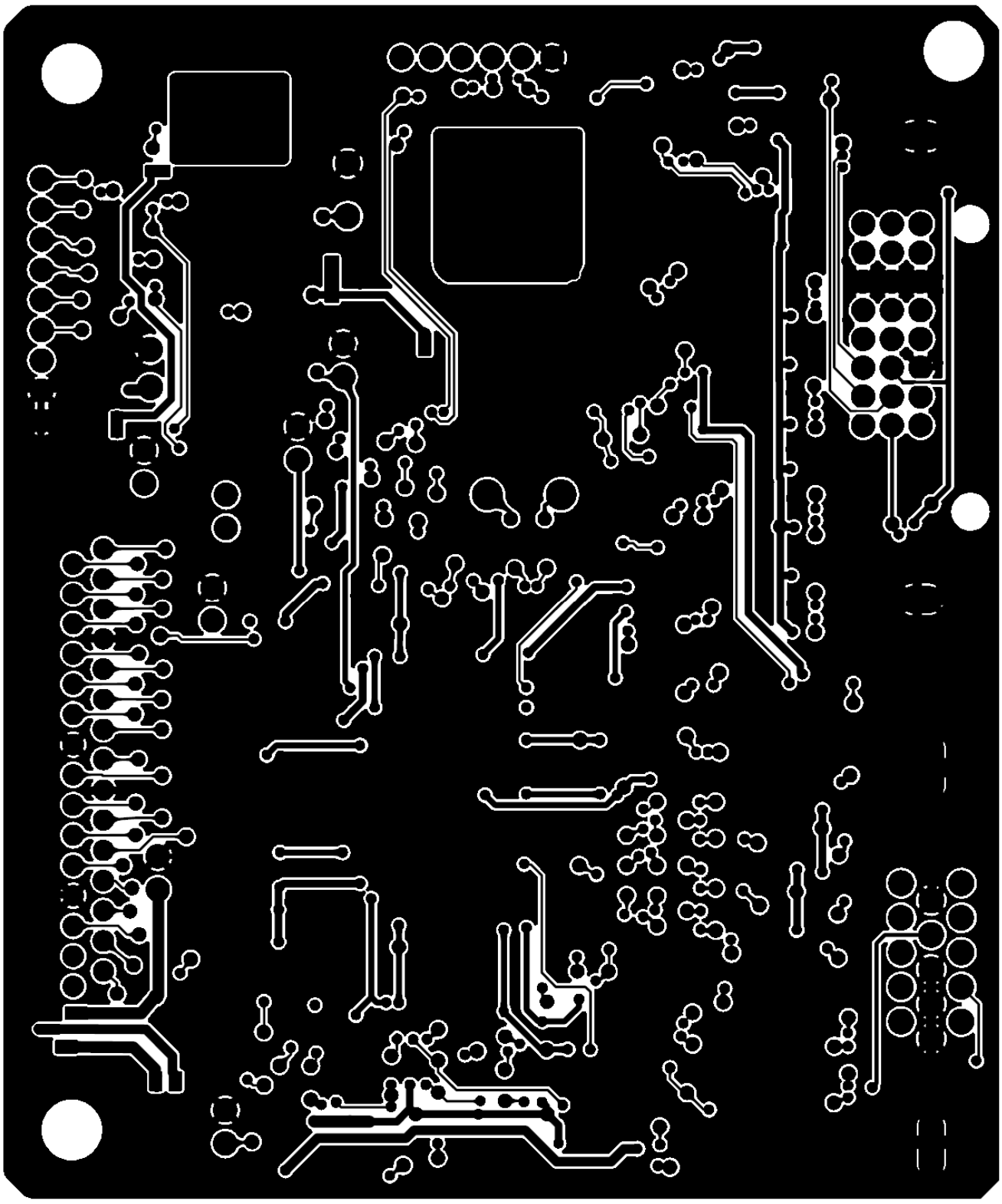
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	AOC	Size	B
話 筒 瓜 鋼 腹	G2510-2-X-X-20-070907	TPV MODEL	PWPCC42CME3	Rev	A
Key Component	04.AUDIO	PCB NAME	715G2510_2	称爹	<称爹>
Date	Friday, September 07, 2007	Sheet	3 of 3		

7. PCB Layout

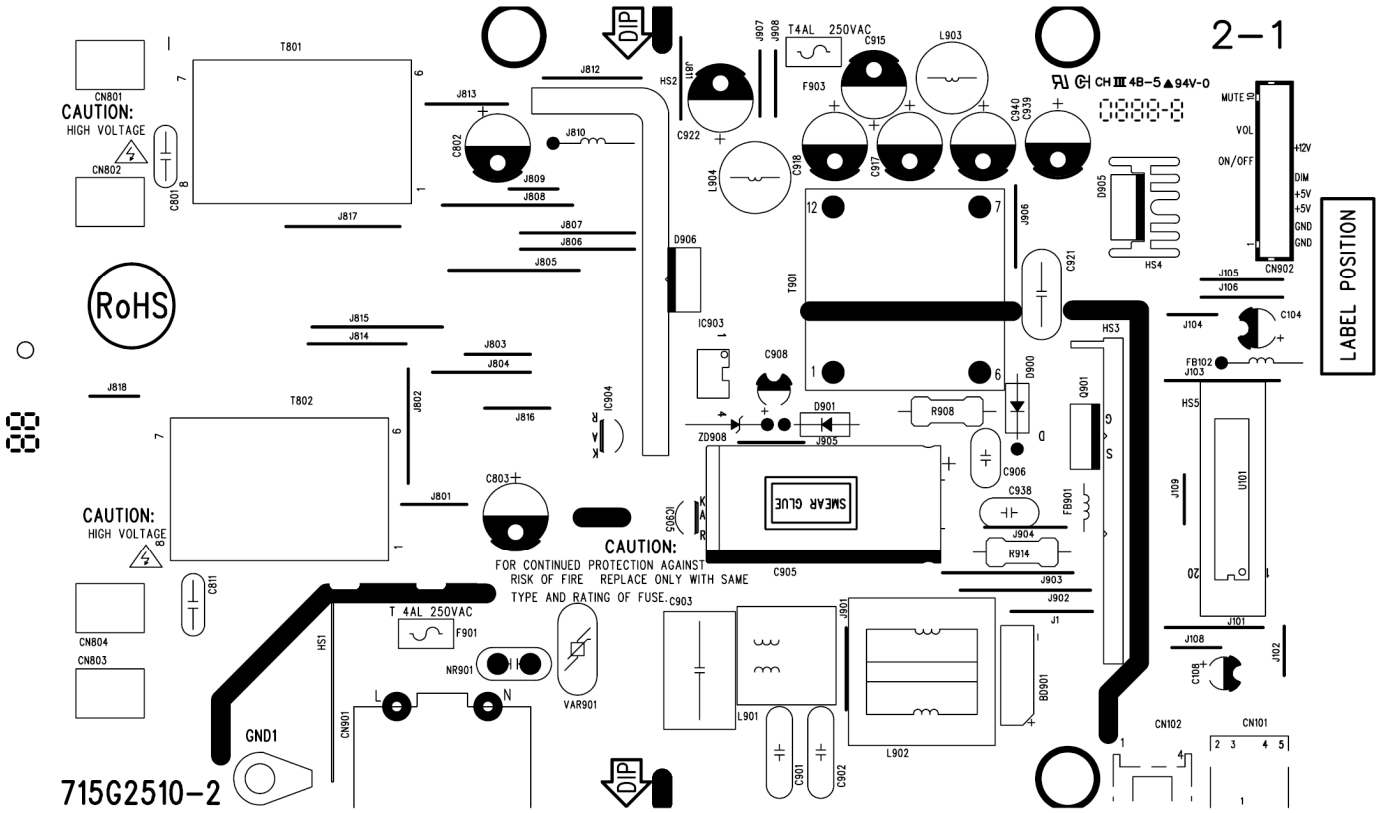
7.1 Main Board

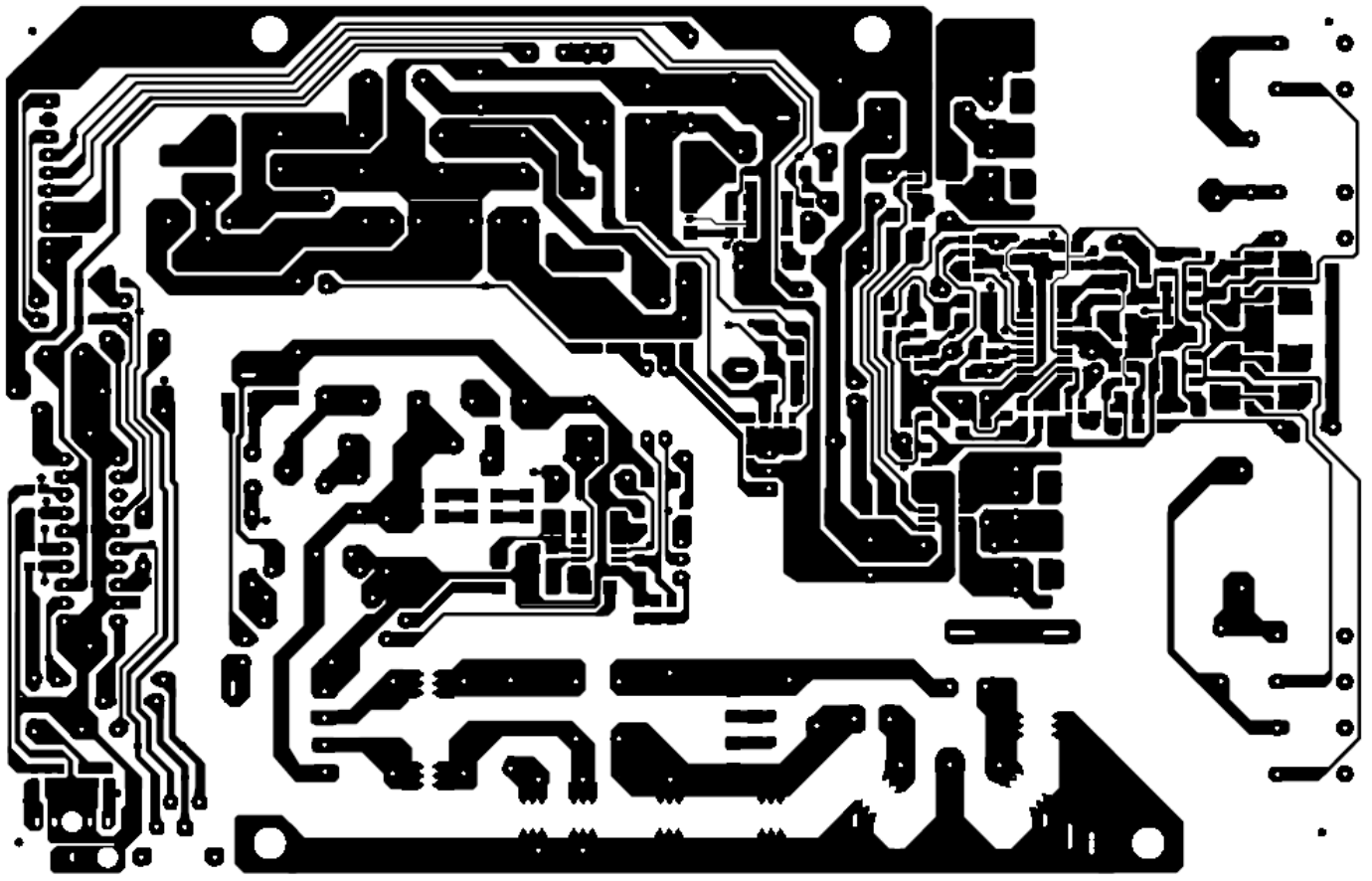




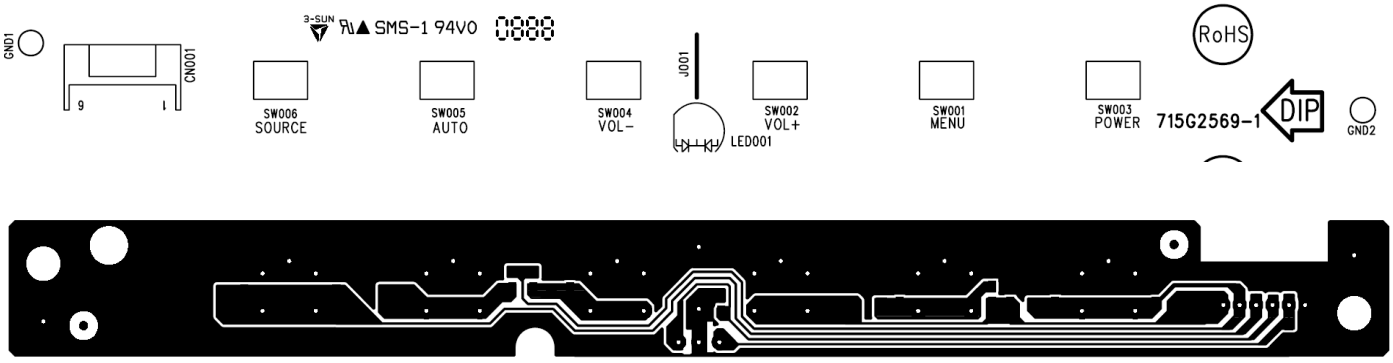


7.2 Power Board





7.3 Key Board


GND1
CN001
9
1
3-SUN
SMS-1 94V0
SW006
SOURCE
SW005
AUTO
SW004
VOL-
J001
LED001
SW002
VOL+
SW001
MENU
SW003
POWER
RoHS
715G2569-1
DIP
GND2

8. Maintainability

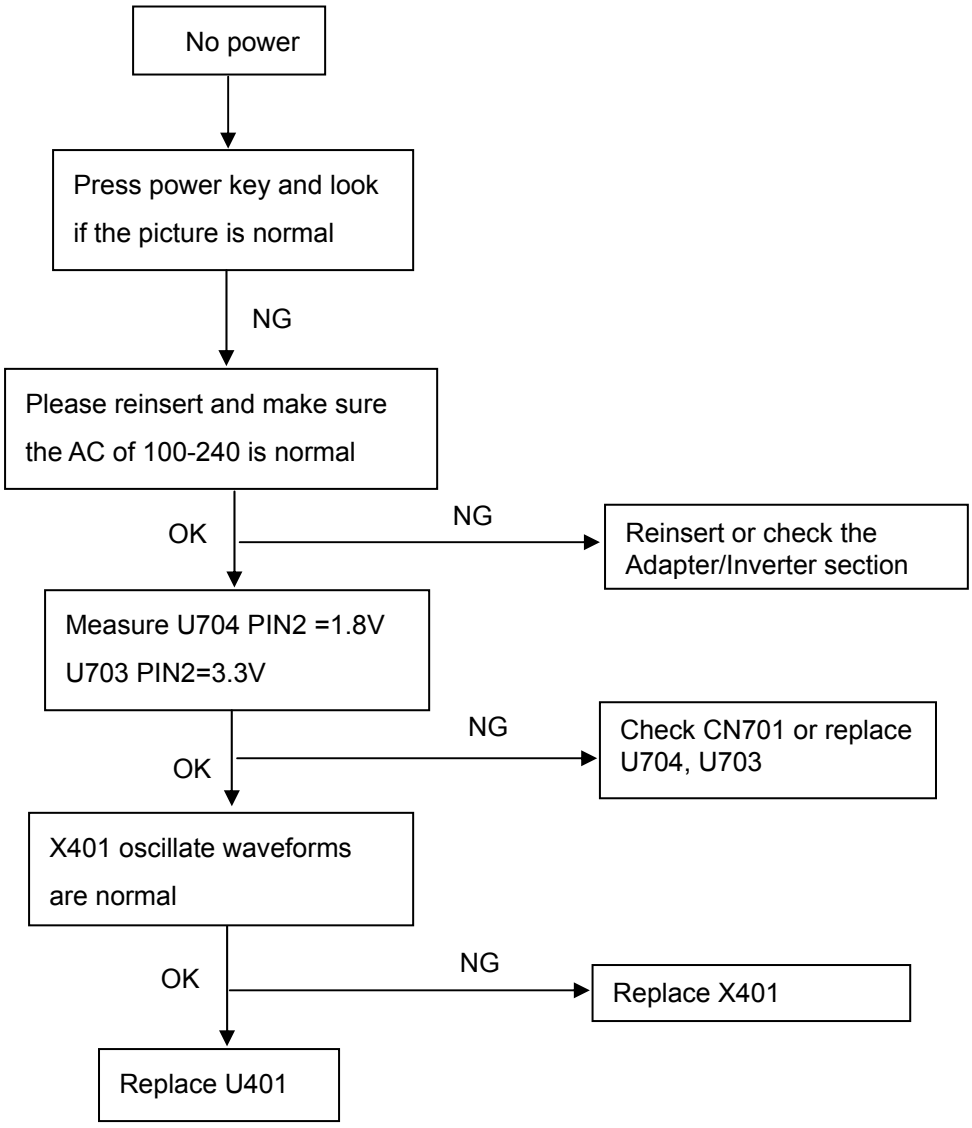
8.1 Equipments and Tools Requirement

Voltmeter; Oscilloscope; Pattern Generator; DDC Tool with an IBM Compatible Computer; Alignment Tool; LCD Color Analyzer; Service Manual; User Manual.

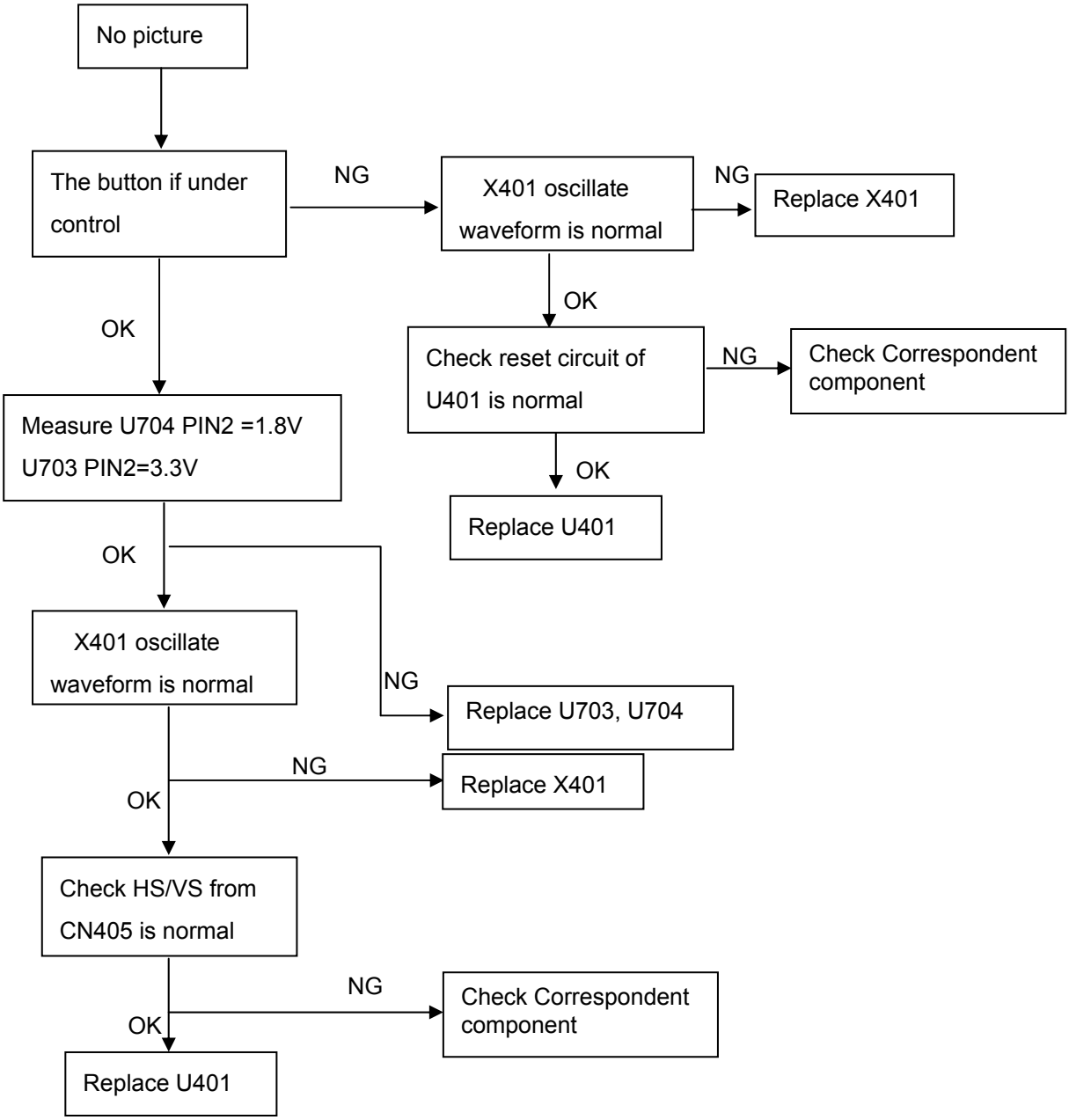
8.2 Trouble Shooting

8.2.1 Main Board

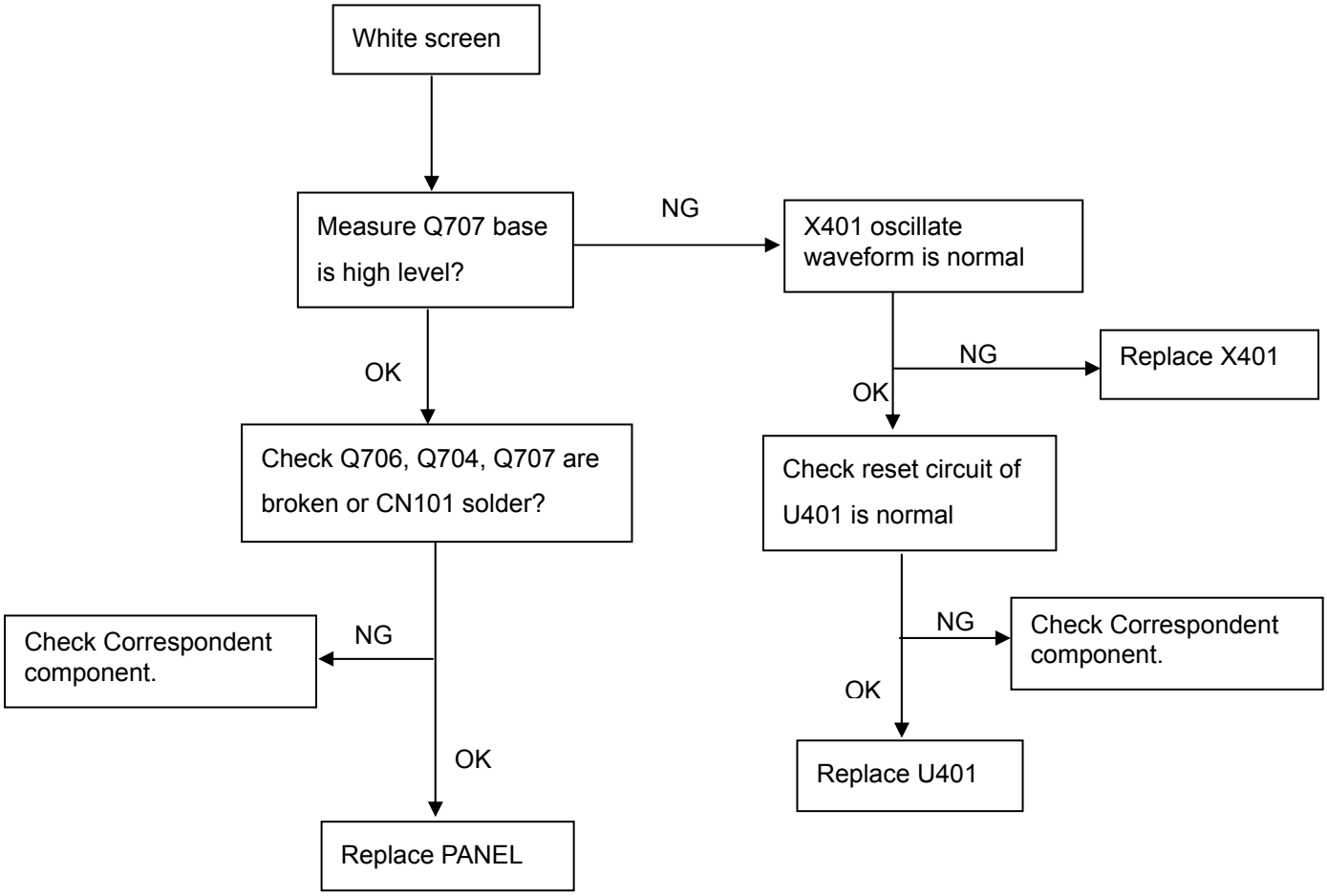
No Power



No Picture (LED orange)

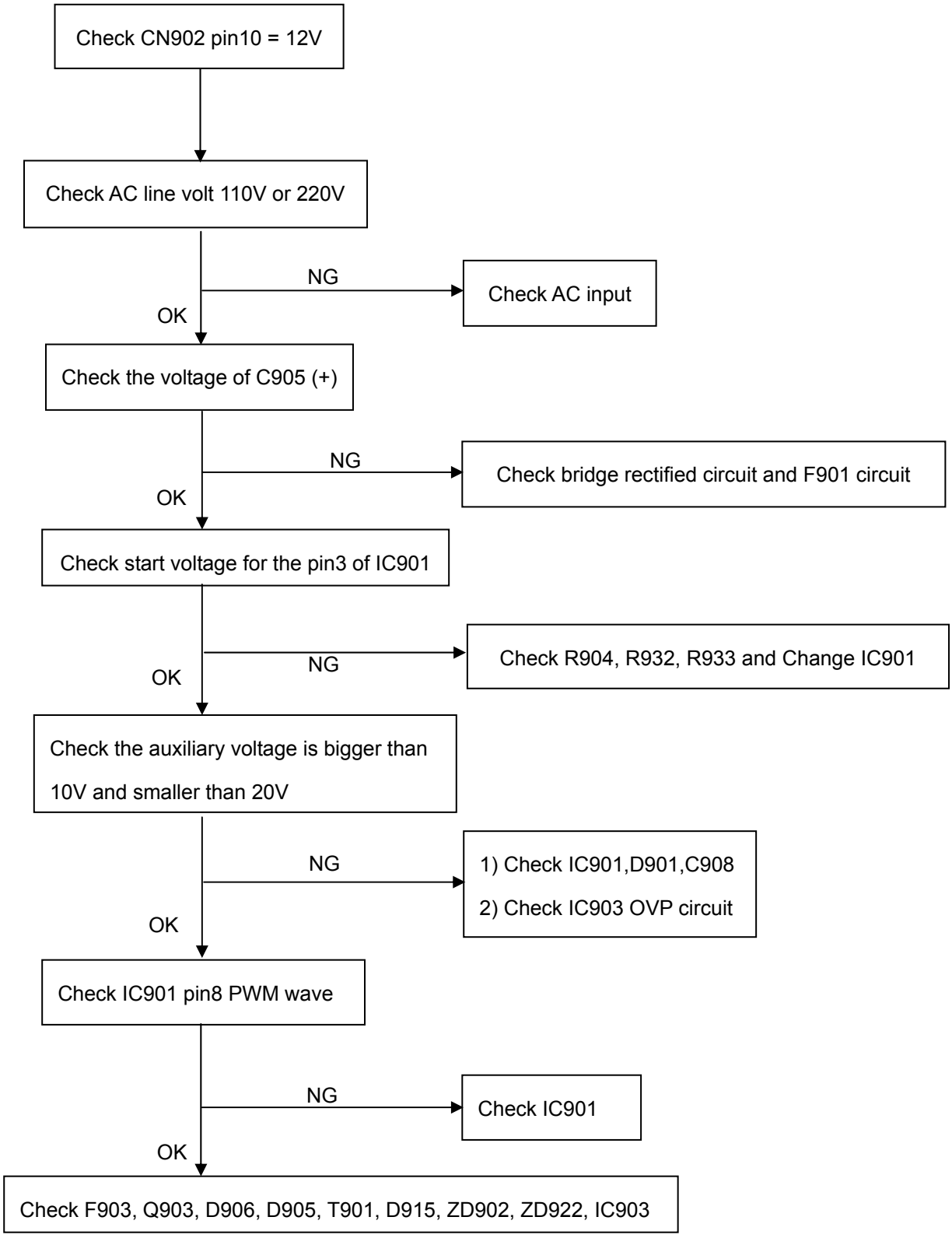


White Screen

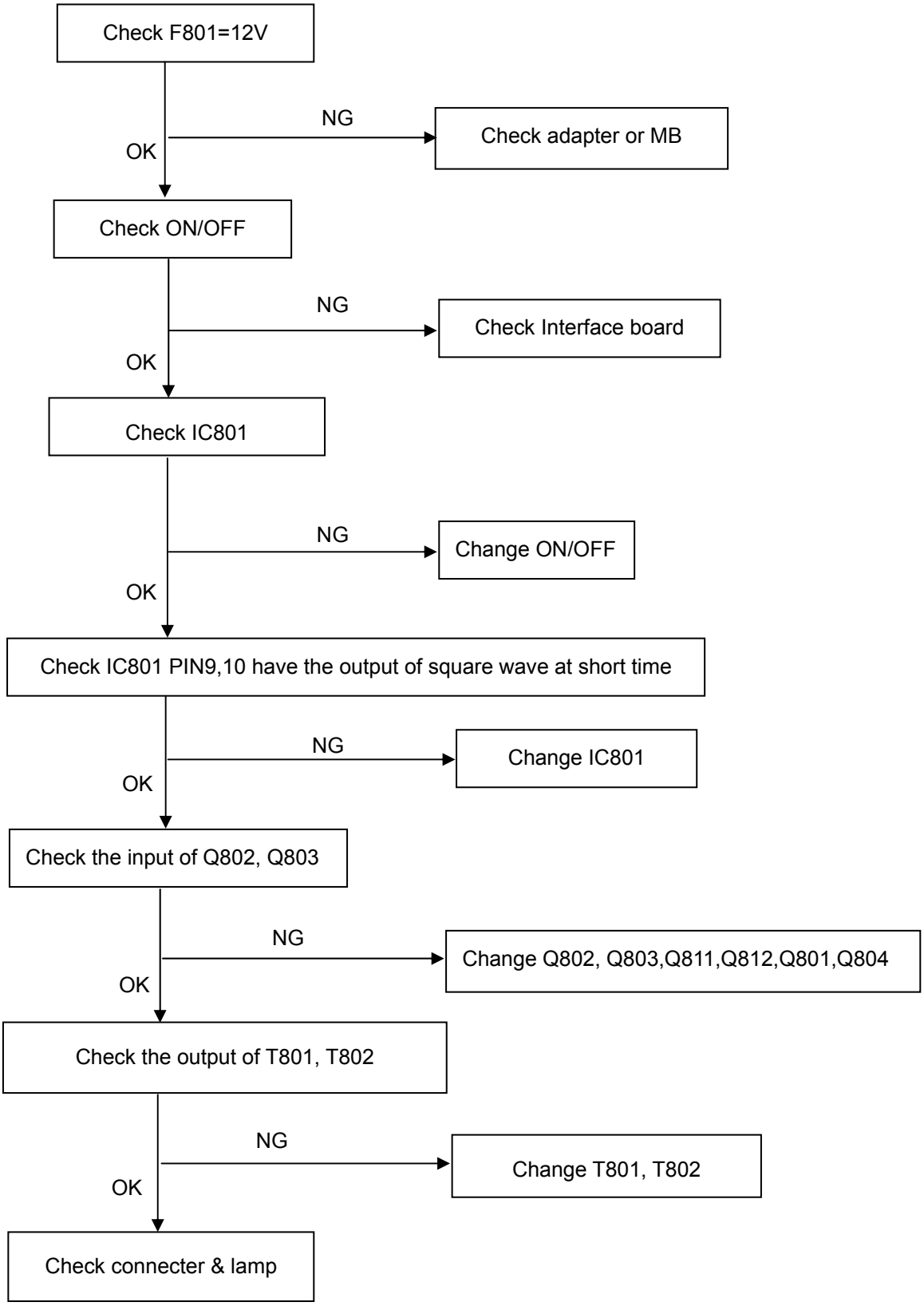


8.2.2 Power Board

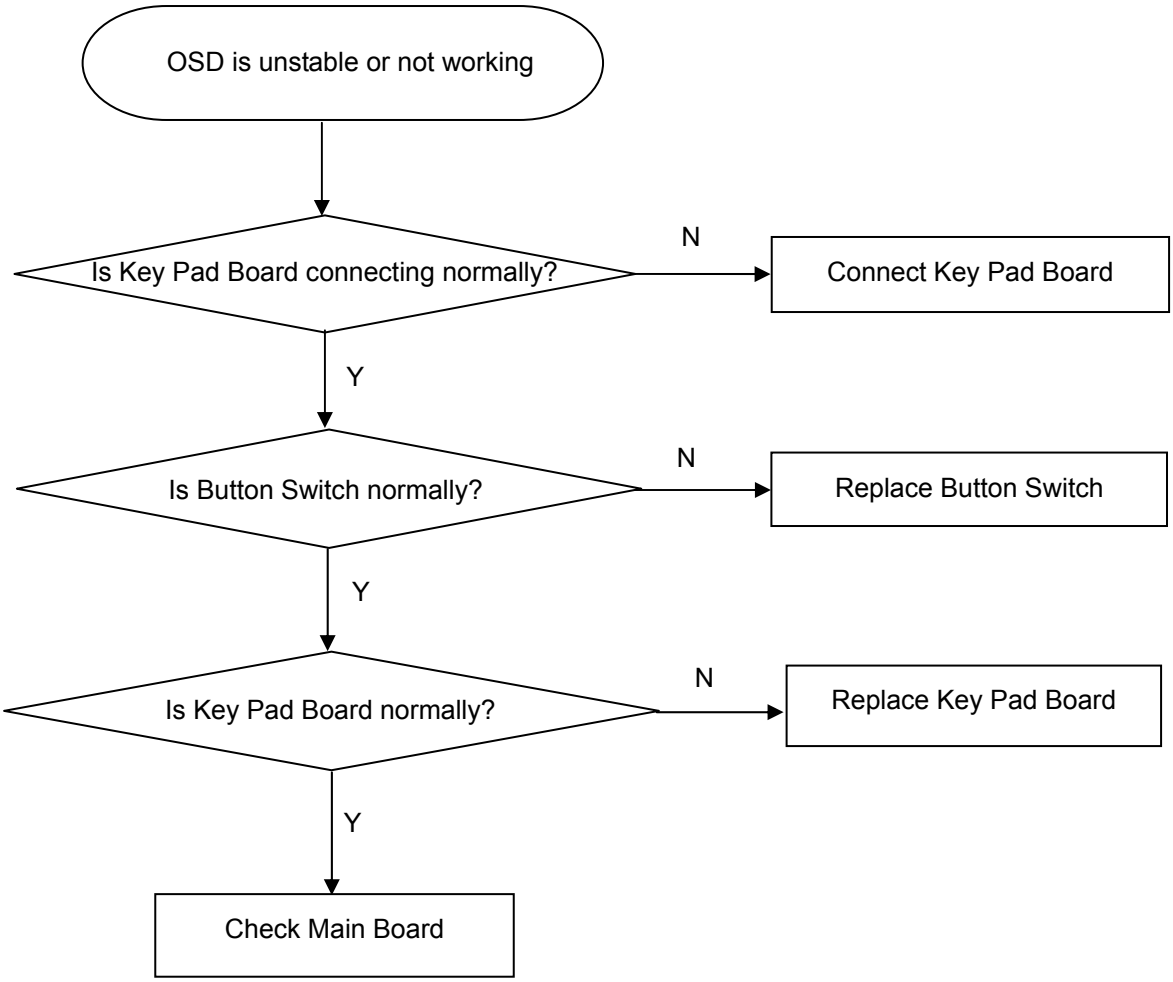
No power



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.

1. How to do the Chroma-7120 MEM. Channel setting

   A. Reference to chroma 7120 user guide

   B. Use "SC" key and "NEXT" key to modify x,y,Y value and use "**ID**" key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

   A. MEM.CHANNEL 3 (7800K color):

   7800K color temp. parameter is x = 296 ±20, y = 311 ±20, Y = 180±30 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500K color):

   6500K color temp. parameter is x = 313±20, y = 329 ±20, Y =180±30 cd/m^2

3. Enter into the factory mode:

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

4. Bias adjustment:

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

5. Gain adjustment:

   Move cursor to "-F-" and press MENU key

   A. Adjust C2 (7800K) color-temperature

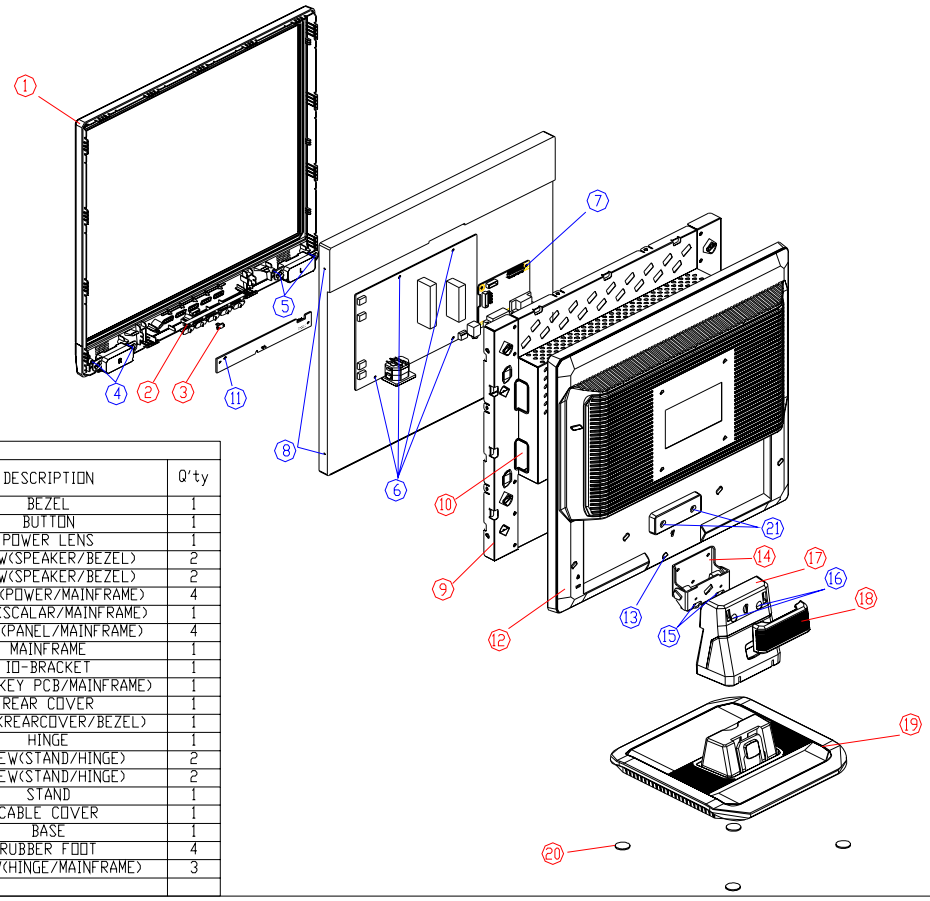
      1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
      2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma 7120)
      3. The LCD-indicator on chroma 7120 will show x = 296 ±20, y = 311 ±20, Y =180±30 cd/m^2
      4. Adjust the RED on factory window until chroma 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±2

   B. Adjust C1 (6500K) 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 = 313 ±20, y = 329 ±20, Y = 180±30 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 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. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



ITEM	P/N	DESCRIPTION	Q'ty
1		BEZEL	1
2		BUTTON	1
3		POWER LENS	1
4		SCREW(SPEAKER/BEZEL)	2
5		SCREW(SPEAKER/BEZEL)	2
6		SCREW(POWER/MAINFRAME)	4
7		SCREW(SCALAR/MAINFRAME)	1
8		SCREW(PANEL/MAINFRAME)	4
9		MAINFRAME	1
10		IO-BRACKET	1
11		SCREW(KEY PCB/MAINFRAME)	1
12		REAR COVER	1
13		SCREW(REARCOVER/BEZEL)	1
14		HINGE	1
15		SCREW(STAND/HINGE)	2
16		SCREW(STAND/HINGE)	2
17		STAND	1
18		CABLE COVER	1
19		BASE	1
20		RUBBER FOOT	4
21		SCREW(HINGE/MAINFRAME)	3

11. BOM List

TC7CMANF4WUQDN

Location	Part NO.	Description
	019G6014 1	TIE FOR STRIP
	040G 581 26704	SHIPPING LABEL
	041G 68508 A	CONTROL CARD
	044G600260811A	PAPER BOARD
	044G9003214	CORNER PAPER
	045G 77 3	PE PACKING
	050G 600 1 W	WHITE STRAP
	050G 600 2	HANDLE1
	050G 600 3	HANDLE2
	052G 1150 C	INSULATING TAPE
	052G 1185	MIDDLE TAPE
	052G 1186	SMALL TAPE
	052G 1207 A	ALUMINIUM TAPE
	052G 1211527	ALUMINUM FOIL TAPE
	052G6019 1	INSULATING TAPE
	055G 23523	TIN_RE-SPILL
	070GHDCP500HDC	HDCP CODE
	078G 311510 K	SPK 4OHM 2.5W 57.5*23*15.5 230 240KUAIDA
	089G 728GAA DB	D-SUB
	089G1748HAA AC	DVI CABLE
	089G179S30H569	FFC CABLE
	089G415A18N IS	POWER CABLE
	095G8014 6D 40	HARNESS 6P-6P 200MM
	0M1G 130 5120	SCREW
	0M1G1730 6120	SCREW,42-D020523
	0M1G1730 6120	SCREW,42-D020523
	0Q1G 930 16 47 CR3	SCREW
	705GQ734508	22" LCD STAND-BASE ASS'Y
	015G6307 1	BASE BRACKET
	0Q1G 130 6120	SCREW (T3X6)
	A34G0289 GM 1B	STAND
	A34G0290 GMA1B 33	BASE 7S7
	A37G0031 6	HINGE
	AM1G1740 12 47 CR3	SCREW
	705GQ834026	22" LCD BEZEL ASS'Y
	0Q1G1830 10120	SCREW
	A33G0172 1 1C	POWER LENS

	A33G0177 GM 1L	FUNCTION BUTTON
	A34G0377 GMG3B 30	BEZEL L22WA-7KC3
	750GLCB6WA113N	PANEL CLAA220WA01 000 FZ CPT
	A15G0208 5	MAIN FRAME
	A34G0294 GMB1B	REAR COVER(22")
	AM1G1740 12 47 CR3	SCREW
	CBPC7CMAUGQ1	MAIN BOARD
	040G 45762412B	CBPC LABEL
CN401	033G3802 6	WAFER
CN701	033G3802 9	WAFER 9P RIGHT ANELE PITCH
CN101	033G801930F H	FPC CONN. 1.0MM 30P
C408	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C418	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C712	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C717	067G215V100 7R	LOW E.S.R 10UF +/-20% 50V
C710	067G215V101 4N	KY25VB100M-CC3(6.3*11)
C702	067G215V221 4N	KY25VB220-M-CC3 8*11.5MM
C464	067G215Y2207RV	RUBYCON 50V 22UF
C720	067G215Y2207RV	RUBYCON 50V 22UF
C403	067G215Y4797RV	EC 105℃ CAP 4.7UF M 50V
CN405	088G 35315F H	D-SUB 15PIN
CN406	088G 35424F N	DVI 24PIN CONN F
X401	093G 2253B J	14.31818MHZ/85C
	Q85G 583603	GASKET_ALUMINIUM FOIL
	Q85G 583605	GASKET_ALUMINIUM FOIL
U401	056G 562149	IC TSUMU58WHJ-LF PQFP-128
U704	056G 563 34	IC AIC1084-18PMTR-R AIC
U703	056G 585 4A	AP1117E33LA
U403	056G1133 32	IC M24C04-WMN6TP SO8
U405	056G1133 34	M24C02-WMN6TP
U404	056G1133 34	M24C02-WMN6TP
U402	056G113374 (WW7MATCCAQ1)	SST25VF010A-33-4C-SAE
Q402	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q404	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q701	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q703	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q706	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q707	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q401	057G 417 6	PMBS3906/PHILIPS-SMT(06)

Q403	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q704	057G 763 1	A03401 SOT23 BY AOS(A1)
R709	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R506	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R503	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R499	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R432	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB412	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB411	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
FB410	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R469	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R468	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R467	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R466	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R465	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R464	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R463	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R462	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R420	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R427	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R428	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R429	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R443	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R445	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R453	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R454	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R455	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R456	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R458	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R488	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R705	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R412	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R430	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R446	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R447	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W

R470	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R505	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R701	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R711	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R708	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R490	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R489	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R487	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R471	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R426	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R424	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R415	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R413	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R406	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R452	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R451	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R444	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R450	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R461	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R457	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R459	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R460	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R727	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R723	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R717	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R714	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R419	061G0402121	RST CHIP 120R 1/16W 5%
R502	061G0402200	RST CHIP 20R 1/16W 5%
R501	061G0402200	RST CHIP 20R 1/16W 5%
R448	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R449	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R405	061G0402223	RST CHIPR 22 KOHM +-5% 1/16W
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%
R475	061G0402392	RST CHIP 3.9K 1/16W 5%
R474	061G0402392	RST CHIP 3.9K 1/16W 5%
R437	061G0402471	RST CHIPR 470 OHM +-5% 1/16W
R725	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W

R712	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R707	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R433	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R423	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R422	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R434	061G0402560	RST CHIP 56R 1/16W 5%
R435	061G0402560	RST CHIP 56R 1/16W 5%
R436	061G0402560	RST CHIP 56R 1/16W 5%
R409	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R414	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R421	061G0402681	RST CHIPR 680 OHM +-5% 1/16W
R438	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R439	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R440	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R719	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
R720	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
C435	065G0402102 32	1000PF +-10% 50V X7R
C721	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C724	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C413	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C414	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C415	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C416	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C419	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C420	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C422	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C426	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C427	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C428	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C714	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C450	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C451	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C452	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C453	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C454	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C455	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C456	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C457	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C458	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C459	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R

C460	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C461	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C713	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C711	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C709	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C725	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C429	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C430	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C444	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C445	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C446	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C447	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C448	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C449	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C401	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C402	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C404	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C405	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C406	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C407	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C409	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C410	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C411	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C412	065G0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C719	065G0402105 A5	CAP 0402 1UF K 10V X5R
C442	065G0402220 31	CHIP 22PF 50V NPO
C423	065G0402220 31	CHIP 22PF 50V NPO
C421	065G0402220 31	CHIP 22PF 50V NPO
C443	065G0402221 32	MLCC 0402 CAP 220PF J 50V X7R
C417	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C425	065G0402224A5T	MLCC 0402 0.22UF K 10V X
C432	065G0402473 12	CHIP 0.047UF 16V X7R
C433	065G0402473 12	CHIP 0.047UF 16V X7R
C434	065G0402473 12	CHIP 0.047UF 16V X7R
C436	065G0402473 12	CHIP 0.047UF 16V X7R
C437	065G0402473 12	CHIP 0.047UF 16V X7R
C438	065G0402473 12	CHIP 0.047UF 16V X7R
C439	065G0402473 12	CHIP 0.047UF 16V X7R
C440	065G0402473 12	CHIP 0.047UF 16V X7R
C441	065G0402473 12	CHIP 0.047UF 16V X7R

FB701	071G 56K121	CHIP BEAD
FB401	071G 56K121	CHIP BEAD
FB405	071G 56Z601	CHIP BEAD 600 OHM 0805
FB404	071G 56Z601	CHIP BEAD 600 OHM 0805
FB403	071G 56Z601	CHIP BEAD 600 OHM 0805
FB402	071G 56Z601	CHIP BEAD 600 OHM 0805
FB409	071G 59B121	TB160808B
D413	093G 64 42 PP	BAV70 SOT-23
D407	093G 64 42 PP	BAV70 SOT-23
D403	093G 6433P	BAV99
D404	093G 6433P	BAV99
D405	093G 6433P	BAV99
D417	093G 6433P	BAV99
D418	093G 6433P	BAV99
D419	093G 6433P	BAV99
D420	093G 6433P	BAV99
D421	093G 6433P	BAV99
D422	093G 6433P	BAV99
D423	093G 6433P	BAV99
D424	093G 6433P	BAV99
D426	093G 39S 24 T	RLZ 5.6B LLDS
D425	093G 39S 24 T	RLZ 5.6B LLDS
D416	093G 39S 24 T	RLZ 5.6B LLDS
D415	093G 39S 24 T	RLZ 5.6B LLDS
D414	093G 39S 24 T	RLZ 5.6B LLDS
D412	093G 39S 24 T	RLZ 5.6B LLDS
D411	093G 39S 24 T	RLZ 5.6B LLDS
D410	093G 39S 24 T	RLZ 5.6B LLDS
D409	093G 39S 24 T	RLZ 5.6B LLDS
D408	093G 39S 24 T	RLZ 5.6B LLDS
D406	093G 39S 24 T	RLZ 5.6B LLDS
D402	093G 39S 24 T	RLZ 5.6B LLDS
D401	093G 39S 24 T	RLZ 5.6B LLDS
D703	093G2004 2	DIODE SR24
D704	093G3004 3	SM340A
	715G2573 1	MAIN BOARD PCB
	J52G8025 11816	MYLAR
	KEPC7QY2	KEY G2569-1-X-X-1-070604
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
SW006	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
LED001	081G 12 2 GP	LED GP34032M/GP03-ZY-50-A
	095G 900 77	WIRE HARNESS
R005	061G0603102	RST CHIP 1K 1/10W 5%
R004	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
R002	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
	715G2569 1	KEY BOARD PCB
	PWPCC42CME6	POWER BOARD G2510-2-X-X-20-070907
	040G 45762412B	CBPC LABEL
GND1	009G6005 1	GROUND TERMINAL
CN102	033G3802 4 DH JF	WAFER
CN801	033G8021 2E F	WAFER
CN802	033G8021 2E F	WAFER
CN803	033G8021 2E F	WAFER
CN804	033G8021 2E F	WAFER
	051G 6 4503	GLUE_RTV
IC903	056G 139 3A	IC PC123Y22FZ0F
U101	056G 616 37	IC TPA6021A4NE4 2W*2 PDIP-20
NR901	061G 58080 WT	8 OHM NCT
R908	061G152M104 64	100KOHM 5% 2W
R914	061G152M43852T	RST MOF 0R43 5% 2W
C903	063G 10747410V	0.47UF 275VAC ARCO
C801	065G 3J1006ET	10PF,J,3KV,SL
C811	065G 3J1006ET	10PF,J,3KV,SL
C902	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C901	065G306M1022BM	Y1.CAP.001UF 250VAC MURATA
C921	065G306M4722BP	4700PF +-20% 400VAC
C905	067G 40J10115K	EC CAP 100UF 450V 18*35MM
C922	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C803	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C802	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C918	067G215D6814KV	CAP 105℃ 680UF M 25V
C917	067G215D6814KV	CAP 105℃ 680UF M 25V
C940	067G215S1023KV	105℃ 1000UF M 16V
C939	067G215S1023KV	105℃ 1000UF M 16V
C915	067G215S4713KV	EC 105℃ CAP 470UF M 16V

L902	073G 174 65 H	LINE FILTER
L901	073G 174 76 L	CHOKE COIL LI TAI LF-002923
CN901	087G 501 37 S	AC INLET ST-01DG-B2K-K
CN101	088G 30214K DC	PHONE JACK 5PIN +开口向下弹片
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
CN902	095G801410E 51	WIRE HARNESS
	705GQ9KA 57001	Q901 ASS'Y
	051G 200 1	OIL FOR DISAPPEAR
Q901	057G 667 30	2SK2645
	090G6263 1	HEAT SINK
	0M1G1730 8120	SCREW
	705GQ9KA 93001	D906 ASS"Y
	051G 200 1	OIL FOR DISAPPEAR
D906	093G 60218	SB10100FCT
	0M1G1730 8120	SCREW
	Q90G0117 2	HEAT SINK
	705GQ9KA 93002	D905 ASS"Y
	051G 200 1	OIL FOR DISAPPEAR
	090G6084 1	HEAT SINK
D905	093G 60257	DIODE SB1060FCT ITO-220AB BY PAN JIT
	0M1G1730 8120	SCREW
IC801	056G 379 22	IC TL494IDR SOIC-16
IC901	056G 379 76	IC LD7552BPS SOP-8
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q806	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q807	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q811	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q812	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q804	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q809	057G 759 2	RK7002
Q810	057G 759 2	RK7002
Q808	057G 760 4B	PDTA144WK SOT346
Q805	057G 760 5B	PDTC144WK SOT346
Q802	057G 763 14	AM9945N
Q803	057G 763 14	AM9945N
R827	061G0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R809	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R812	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R818	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W

R821	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R822	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R824	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R926	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R942	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R834	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R833	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R832	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R828	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R817	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R807	061G0603100 2F	RST CHIPR 10 KOHM +-1% 1/10W
R101	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R103	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R104	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R105	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R820	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R102	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R835	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R862	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R816	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R815	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R814	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R801	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R860	061G0603242	RST CHIPR 2.4 KOHM +-5% 1/10W
R930	061G0603243 1F	RST CHIPR 2.43 KOHM +-1% 1/10W
R851	061G0603270 2F	RST CHIPR 27 KOHM +-1% 1/10W
R106	061G0603273	RST CHIPR 27 KOHM +-5% 1/10W
R107	061G0603273	RST CHIPR 27 KOHM +-5% 1/10W
R940	061G0603330 2F	RST CHIPR 33 KOHM +-1% 1/10W
R861	061G0603360 3F	RST CHIPR 360KOHM +-1% 1/10W
R927	061G0603430 1F	RST CHIPR 4.3 KOHM +-1% 1/10W
R823	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R863	061G0603470 2F	RST CHIPR 47 KOHM +-1% 1/10W
R859	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R803	061G0603564	RST CHIPR 560 KOHM +-5% 1/10W
R841	061G0603680 2F	RST CHIPR 68 KOHM +-1% 1/10W
R853	061G0603683	RST CHIPR 68 KOHM +-5% 1/10W
R854	061G0603683	RST CHIPR 68 KOHM +-5% 1/10W
JR806	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
JR801	061G0805000	RST CHIPR 0 OHM +-5% 1/8W

R808	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R831	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R915	061G0805100 3F	RST CHIPR 100KOHM +-1% 1/8W
R804	061G0805101	RST CHIPR 100 OHM +-5% 1/8W
R826	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R925	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R943	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R938	061G0805103	10 KOHM 1/10W
R924	061G0805151	RST CHIPR 150 OHM +-5% 1/8W
R825	061G0805220	22&8 1/10W
R829	061G0805220	22&8 1/10W
R839	061G0805220	22&8 1/10W
R850	061G0805220	22&8 1/10W
R837	061G0805473	RST CHIPR 47 KOHM +-5% 1/8W
R810	061G0805510 2F	RST CHIPR 51 KOHM +-1% 1/8W
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR804	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR901	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR902	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
F801	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R910	061G1206100	RST CHIP 10R 1/4W 5%
R918	061G1206101	100 1206
R919	061G1206101	100 1206
R920	061G1206101	100 1206
R935	061G1206101	100 1206
R961	061G1206101	100 1206
R962	061G1206101	100 1206
R946	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R945	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R944	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R941	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R855	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R856	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R857	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R858	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R912	061G1206221	RST CHIPR 220 OHM +-5% 1/4W
R904	061G1206304	RST CHIPR 300 KOHM +-5% 1/4W
R932	061G1206304	RST CHIPR 300 KOHM +-5% 1/4W
R933	061G1206304	RST CHIPR 300 KOHM +-5% 1/4W

R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R903	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
C110	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C111	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C807	065G0603104 22	CHIP 0.1UF 25V X7R
C821	065G0603104 22	CHIP 0.1UF 25V X7R
C825	065G0603104 22	CHIP 0.1UF 25V X7R
C834	065G0603104 22	CHIP 0.1UF 25V X7R
C842	065G0603104 22	CHIP 0.1UF 25V X7R
C815	065G0603222 22	CHIP 2200PF 25V X7R
C816	065G0603222 22	CHIP 2200PF 25V X7R
C819	065G0603222 22	CHIP 2200PF 25V X7R
C823	065G0603222 22	CHIP 2200PF 25V X7R
C107	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C106	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C105	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C103	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C102	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C101	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C932	065G0805102 32	CHIP 1000P 50VX7R 0805
C928	065G0805102 32	CHIP 1000P 50VX7R 0805
C930	065G0805104 32	CHIP 0.1U 50V X7R
C924	065G0805104 32	CHIP 0.1U 50V X7R
C916	065G0805104 32	CHIP 0.1U 50V X7R
C907	065G0805104 32	CHIP 0.1U 50V X7R
C824	065G0805104 32	CHIP 0.1U 50V X7R
C805	065G0805104 32	CHIP 0.1U 50V X7R
C109	065G0805105 22	CHIP 1UF 25V X7R 0805
C822	065G0805105 22	CHIP 1UF 25V X7R 0805
C838	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C839	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C840	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C841	065G080515231Y	MLCC 0805 1500PF J 50V NPO
C820	065G0805221 31	220PF 50V NPO
C845	065G0805225 12	CHIP 2.2UF 16V X7R 0805
C909	065G0805471 21	CHIP 470PF 25V NPO
C912	065G1206102 72	CHIP 1000PF 500V X7R
C929	065G1206102 72	CHIP 1000PF 500V X7R

D801	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D803	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D804	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D813	093G 6432S	IN4148W
ZD801	093G 39S 10 T	RLZ6.8B BY ROHM
ZD906	093G 39S 20 T	RLZ22B LLDS
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD905	093G 39S 44 T	RLZ18B LLDS
ZD902	093G 39S 61 T	DIODE RLZ16B ROHM
ZD921	093G 39S 61 T	DIODE RLZ16B ROHM
D805	093G 64S511SEM	IN4148W
D806	093G 64S511SEM	IN4148W
D807	093G 64S511SEM	IN4148W
D808	093G 64S511SEM	IN4148W
D809	093G 64S511SEM	IN4148W
D812	093G 64S511SEM	IN4148W
D814	093G 64S511SEM	IN4148W
D916	093G 64S511SEM	IN4148W
D915	093G 64S511SEM	IN4148W
D903	093G 64S511SEM	IN4148W
D817	093G 64S511SEM	IN4148W
CN901	006G 31500	EYELET
T901	006G 31502	1.5MM RIVET
NR901	006G 31502	1.5MM RIVET
IC904	056G 158 12	KIA431A-AT/P TO-92
C938	065G 1K152 1T	1.5NF/1KV Z5F+-10%
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%
C108	067G 2151097NT	KMY50VB1M-TP5 5*11.5
C908	067G 2152207NT	KY50VB22M-TP5 5*11
C104	067G215Y1014KT	EC CAP.105 度
J810	071G 55 9 T	FERRITE BEAD
FB102	071G 55 9 T	FERRITE BEAD
FB901	071G 55 29	FERRITE BEAD
F903	084G 56 4W	FUSE 4.0A 250V
F901	084G 56 4W	FUSE 4.0A 250V
D900	093G 6026T52T	RECTIFIER DIODE FR107
D901	093G 6038T52T	FR103
	715G2510 2	POWER BOARD PCB
HS1	Q85G0002 1	SHIELD_MAIN

HS5	Q90G6295 3	HEAT SINK
L904	S73G25391V1	CHOKE COIL ASS'Y
L903	S73G25391V1	CHOKE COIL ASS'Y
	Q34FPE19P06	CASE EEL19
	Q34FPE19P06	CASE EEL19
	Q07G 8 3 19	COMPOUND PALLET
	Q07G 8 3 20	COMPOUND PALLET
	Q40G 22N972 6A	RATING LABEL
	Q40G0001624 4A	PALLET LABEL
	Q40G0002972 1C	BOX SEALING LABEL
	Q40G000297212A	ENERGY STAR LABEL BLACK
	Q44G6002121118	PAPER BOARD
	Q44G6002CP129A	PAPER CAP
	Q44G6002CP177A	PAPER CAP
	Q44GC015 1	EPS(L)
	Q44GC015 2	EPS(R)
	Q44GC015972 3A	22 LCD TG CARTON
	Q45G 88607 34	PE BAG FOR BASE
	Q45G 88626 8 R	PE BAG FOR MONITOR
	Q52G6020 30	PROTECT FILM
	045G 76 28 RN	PE BAG FOR MANUAL
	089G 17356G554	AUDIO CABLE
	A33G0173 GM 1L 32	CABLE CLAMP
	Q41G2201972 5A	MANUAL
	040G 58162435A	P/N LABEL
	Q40G0001972 1A	CARTON LABEL