

Service
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Service Manual

Horizontal Frequency
30kHz – 60kHz

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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]

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

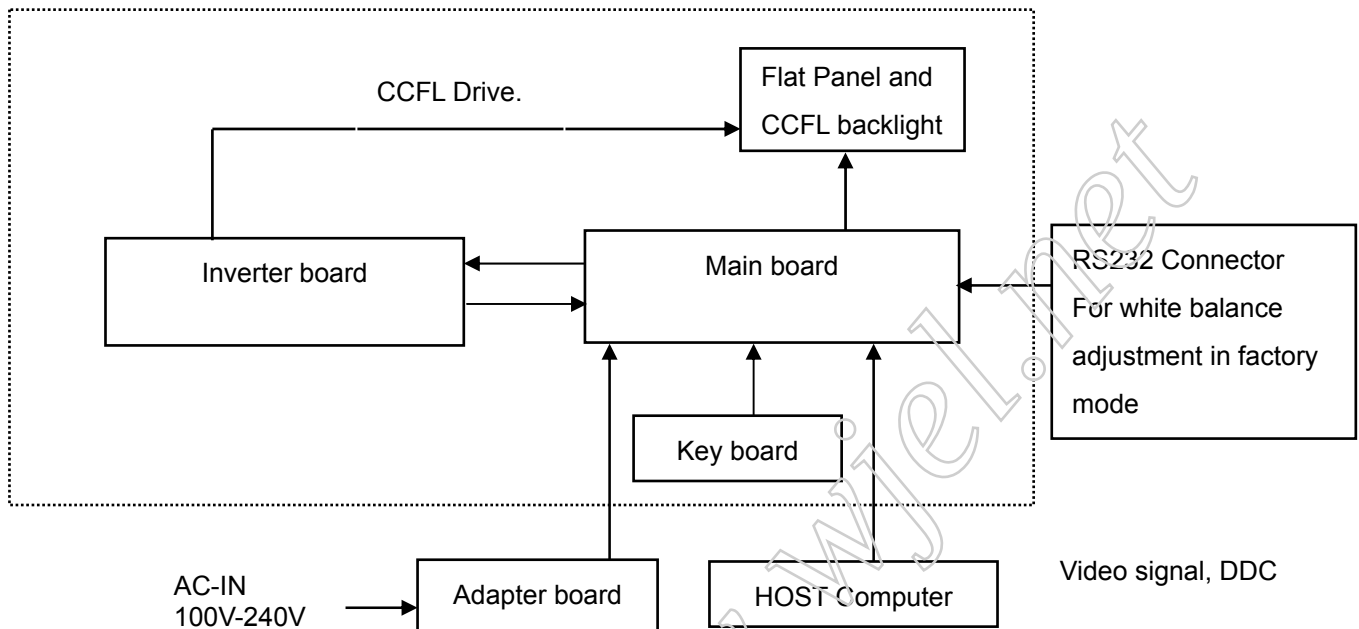
LCD Panel	Model number	511Vwb
	Driving system	TFT Color LCD
	Size	15.4" 16:10
	Pixel pitch	0.258mm(H) × 0.258mm(V)
	Video	R,G,B Analog Interface
	Separate Sync.	H/V TTL
	Display Color	262k
	Dot Clock	74.7MKz
Resolution	Horizontal scan range	30kHz – 63kHz
	Horizontal scan range(Maximum)	331.2mm
	Vertical scan range	55Hz-60Hz
	Vertical scan range(Maximum)	207mm
	Optimal preset resolution	1280 x 800 (60 Hz)
	Highest preset resolution	1280 x 800 (60 Hz)
	Plug & Play	VESA DDC2B™ / DDC-CI
	Input Connector	D-Sub 15-pin
	Input Video Signal	Analog:0.7Vp-p(standard), 75 OHM, Positive
	Power Source	DC12V, 3.5A
	Power Consumption	Power on: < 15W
		Standby: ≤ 1W
Physical Characteristics	Connector Type	15-pin Mini D-Sub
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	329.2mm
	Width	365mm
	Depth	146mm
	Weight (monitor only)	1.6Kg
	Weight (with packaging)	2.9Kg
Environmental	Temperature:	
	Operating	0° - +50°
	Non-Operating	-20° - 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)
Regulations	CCC, FCC, CE, RoHS	

2. LCD Monitor Description

The LCD MONITOR will contain a main board, an inverter board, a keypad board and internal adapter which house the flat panel control logic, brightness control logic and DDC.

The Inverter board will drive the backlight of panel and the 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.
- Press the power button to turn on the monitor position. The power indicator will light up.

3.2 Control Buttons

- **Power Indicator:**

Green — Full Power Mode

Orange — Active-off Mode

- **Power Button:**

Press this button to turn the monitor ON or OFF.

- **Auto Config / Exit:**

1. When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).
2. When OSD menu is in off status, press this button for 2 seconds to activate the Auto Adjustment function. The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

- **Eco Mode / - :**

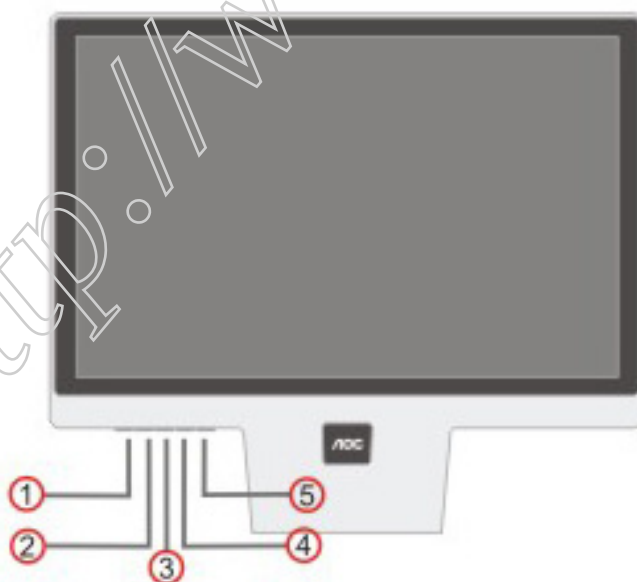
Select the display model or adjust the value.

- **+ :**

Move the cursor or adjust the value.

- **Menu / Enter :**

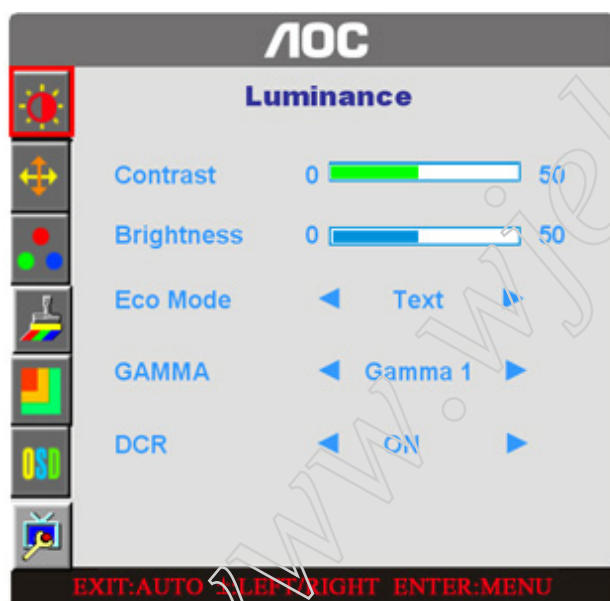
Activate OSD menu when OSD is OFF or activate/de-activate adjustment function when OSD is ON or Exit OSD menu when in Brightness /Contrast Adjust OSD status.



1.	Power Button/ LED	2.	Auto Adjust button / Exit
3.	Eco Mode / -	4.	+
5.	Menu / Enter		

3.3 Adjusting the Picture

1. Press the MENU-button to activate the OSD window.
2. 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.
3. 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.
4. 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.
5. Press Auto key continually for 7 sec. to turn on or off DDC-CI.



	Luminance	Adjust Range	Description
	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard	Standard Mode
		Text	Text Mode
		Internet	Internet Mode
		Game	Game Mode
		Movie	Movie Mode
		Sports	Sports Mode
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off	Disable dynamic contrast ratio
		On	Enable dynamic contrast ratio
	Image Setup		
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Focus	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	H. Position	0-100	Adjust the vertical position of the picture.
	V. Position	0-100	Adjust the horizontal position of the picture.
	Color Temp.		
	Warm		Recall Warm Color Temperature from EEPROM.
	Normal		Recall Normal Color Temperature from EEPROM.
	Cool		Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
	User	User-B	Blue Gain from Digital-register

		User-G	Green Gain Digital-register.
		User-R	Red Gain from Digital-register
		User-Y	Yellow Gain from Digital-register
		User-C	Cyan Gain from Digital-register
		User-M	Magenta Gain from Digital-register
	Color Boost		
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
	AutoDetect	on or off	Disable or Enable AutoDetect Mode
	Demo	on or off	Disable or Enable Demo
	Picture Boost		
	Frame Size	0-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	Hue	0-100	Adjust Frame Hue
	Saturation	0-100	Adjust Frame Saturation
	Position	H. position V. position	Adjust Frame horizontal Position Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame
	OSD Setup		
	H. Position	0-100	Adjust the vertical position of OSD
	V. Position	0-100	Adjust the horizontal position of OSD
	Timeout	0-100	Adjust the OSD Timeout
	Language		Select the OSD language
	Extra		
	Auto Config	yes or no	Auto adjust the picture to default
	DDC/CI	yes or no	Turn ON/OFF DDC/CI Support
	Reset	yes or no	Reset the menu to default
	Information		Show the information of the main image and sub-image source

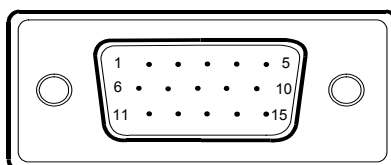
4. Input/Output Specification

4.1 Input Signal Connector

D-SUB connector

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

Analog Connector



4.2 Factory Preset Display Modes

Standard	Resolution	Horizontal Frequency (kHz)	Vertical Frequency(Hz)
VGA	640 x 480	31.47kHz	60. 0Hz
SVGA	800 x 600	35.156 kHz	56. 0Hz
	800 x 600	37.879 kHz	60. 0Hz
XGA	1024 x 768	48.363 kHz	60. 0Hz
WXGA	1280 x 720	44.679 kHz	60. 0Hz
	1280 x 768	47.776 kHz	60. 0Hz
	1280 x 800	49.306 kHz	60. 0Hz

4.3 Power Supply

The power supply should be integrated to the monitor housing.

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
Power line surge	: No advance effects (no loss of information or defect) With a maximum of 1 half-wave missing per second
Adapter Output Voltage	12VDC± 5%
Current	3.50 Amp (max)

4.4 Panel Specification

4.4.1 Display Characteristics

ITEM	SPECIFICATION
Display Area (mm)	331.2 (H)×207.0 (V) (15.4-inch diagonal)
Number of Pixels	1280 ×3(H)×800(V)
Pixel Pitch (mm)	0.25875(H)×0.25875(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	Normally white
Number of Colors	262,144(6bits)(RSDS)
Gamut	50%(typ) ; 45%(min)
Optimum Viewing Angle	6 o'clock
Response Time (ms)	16ms
Viewing Angle	45°、45° /15°、35°(Typ.)
Brightness (cd/m ²)	200 cd/m ² (5point)/6 mA (Typ.)
Uniformity	5point : 80%
Consumption of Power (W)	7W (Max)
Module Size (mm)	344.5(W)×222.5(H)×6.2(D) (Max)
Module Weight (g)	585 (max)
Surface coating	Glare

4.4.2 Optical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	REMARK
Contrast Ratio	CR	$\theta = \psi = 0^\circ$	350	500		--	*1)
Luminance (5P)	L	$\theta = \psi = 0^\circ$	180	200		cd/m ²	*2)
Uniformity(5P)	ΔL	$\theta = \psi = 0^\circ$		80		%	*2)
Response Time	Tr	$\theta = \psi = 0^\circ$		6	9	ms	*4)
	Tf	$\theta = \psi = 0^\circ$		10	16	ms	*4)
Cross talk	CT	$\theta = \phi = 0^\circ$			1	%	*5)
View angle	Horizontal	ψ	CR ≥ 10	40/-40	45/-45		*3)
	Vertical	θ		10/-30	15/-35		*3)
Color Temperature Coordinate	W	X	$\theta = \psi = 0^\circ$	0.283	0.313	0.343	*2)
		Y		0.299	0.329	0.359	
	R	X		0.584	0.614	0.644	
		Y		0.306	0.336	0.366	
	G	X		0.281	0.311	0.341	
		Y		0.534	0.564	0.594	
	B	X		0.123	0.153	0.183	
		Y		0.100	0.130	0.160	
Gamut		$\theta = \psi = 0^\circ$	45%	50%		%	*6)

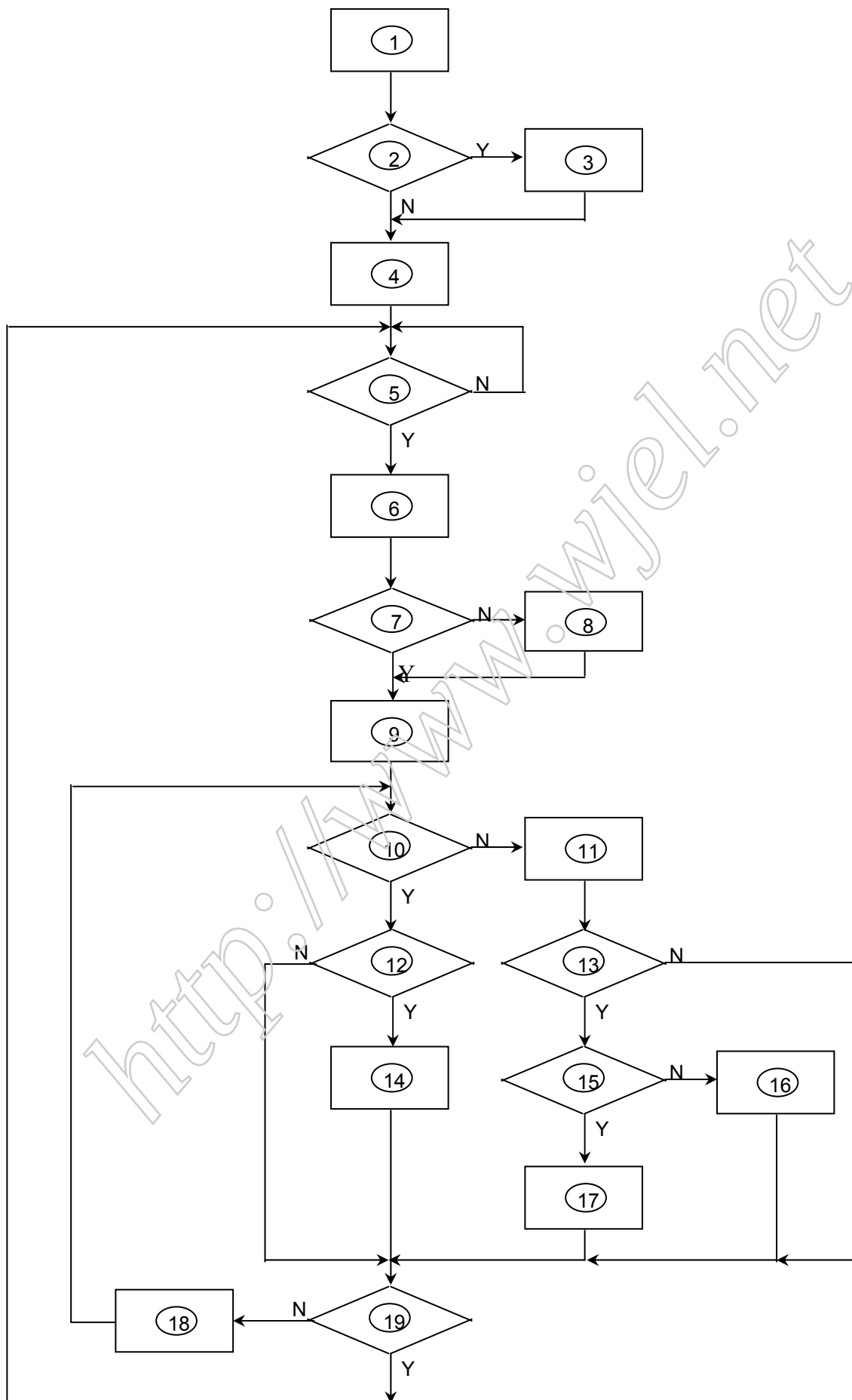
4.4.3 Parameter guide line for CCFL Inverter

TFT LCD Module:

ITEM	SYMBOL	MIN.	MAX.	UNIT	REMARK
Power Supply Voltage for LCD	VCC	0	4.0	V	
Lamp voltage	VL	700	900	Vrms	
Lamp current	IL	2	6.5	mA	*1), 2)
Lamp frequency	FL	50	80	kHz	
Operation Temperature	Top	0	50	°C	*3), 4), 5), 6)
Storage Temperature	Tstg	-25	65	°C	*3), 4), 5)
Delayed Discharge Time	TDD	--	1	sec	*7)

Back Light Unit:

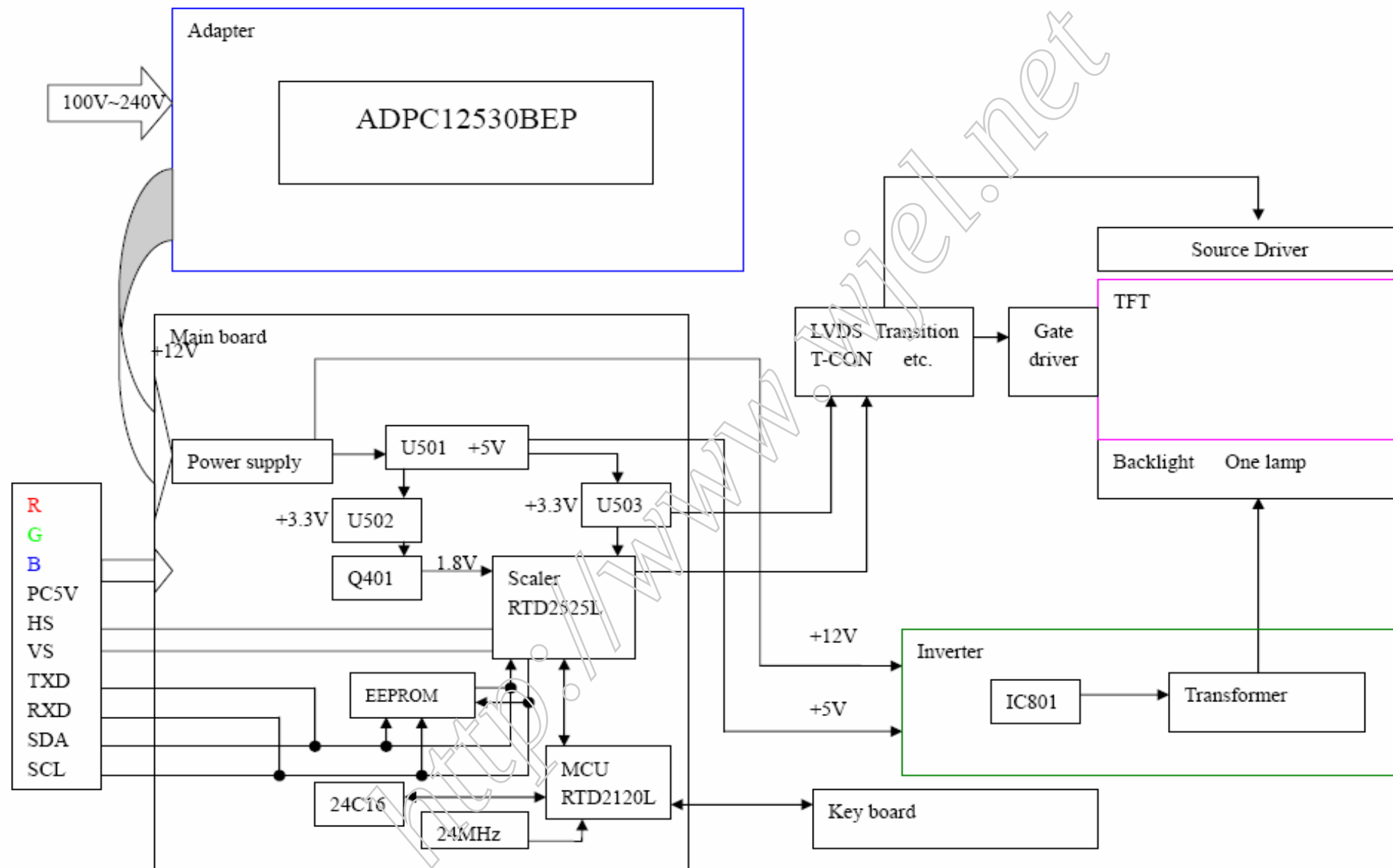
ITEM	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Lamp Voltage(IL=6.0mA)	VL	657	700	770	Vrms	IL=6.0mA
Lamp Current	IL	5.5	6.0	6.5	mA	*1)
Inverter Frequency	FI	50	--	60	kHz	*2)
Lamp Initial Voltage	VS	1460	--		Vrms	Ta=25°C
		1730	--		Vrms	Ta=0°C

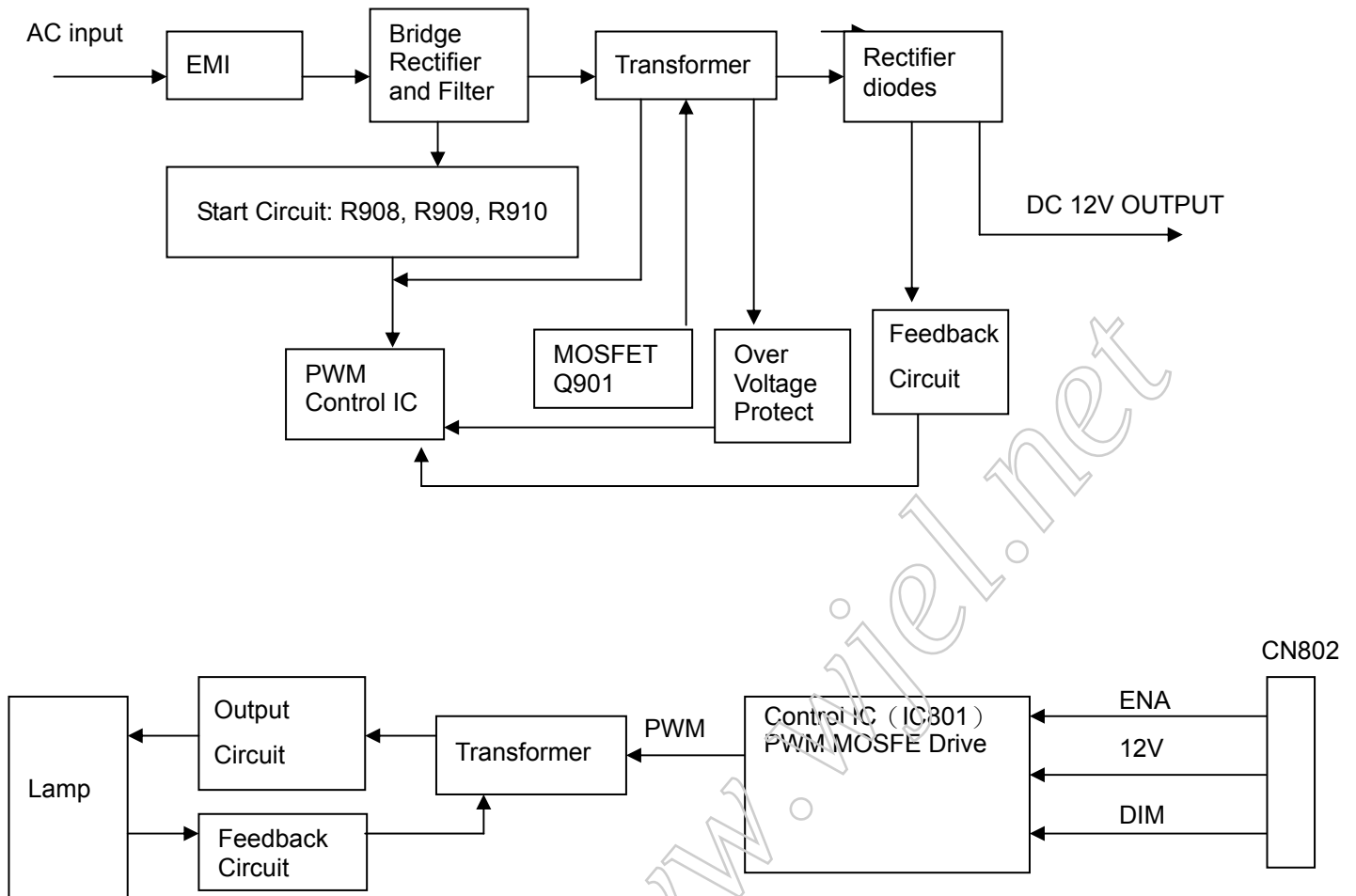
5. Block Diagram**5.1 Software Flow Chart**

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

5.2 Electrical Block Diagram

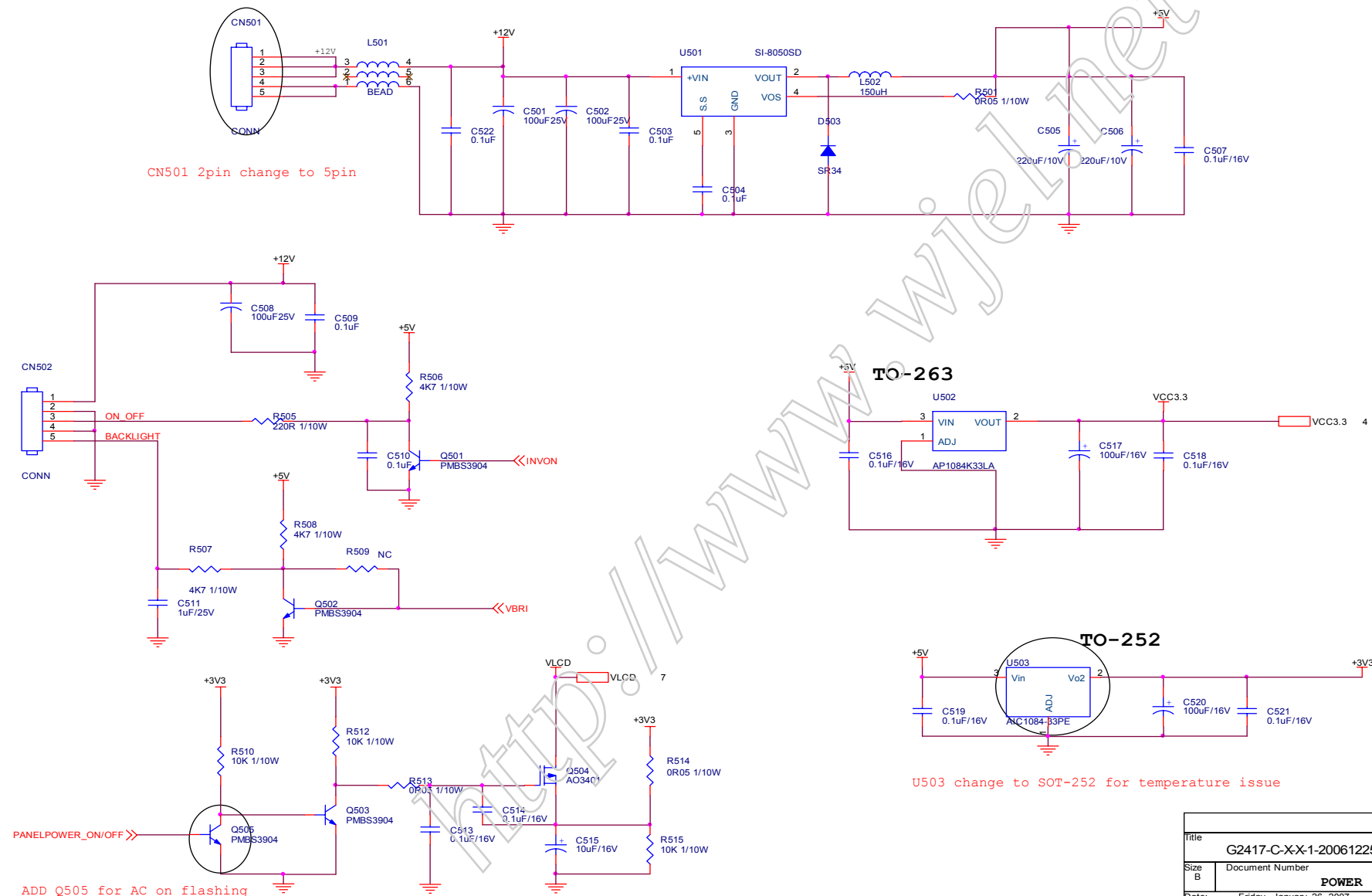
5.2.1 Main Board



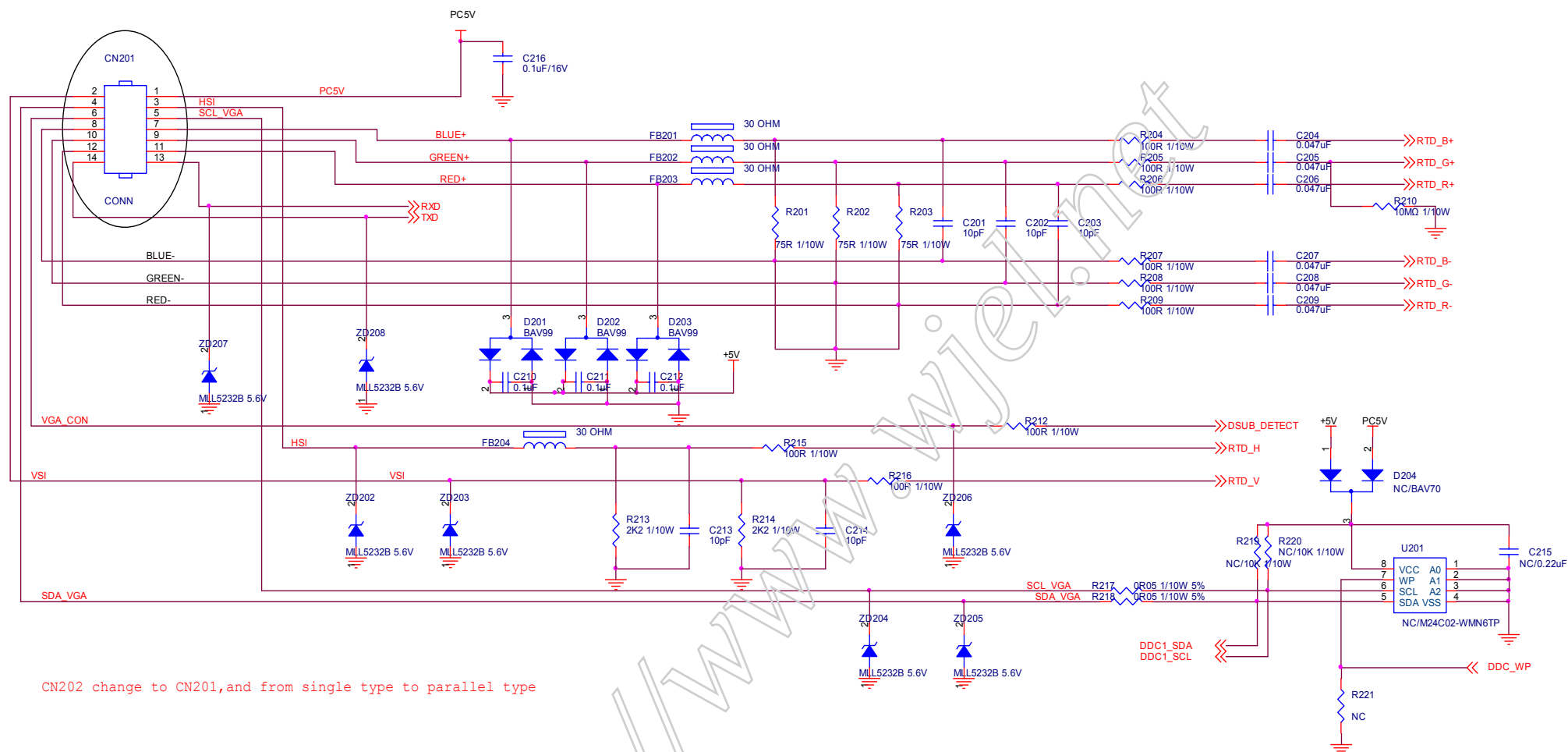
5.2.2 Inverter/Adapter

6. Schematic

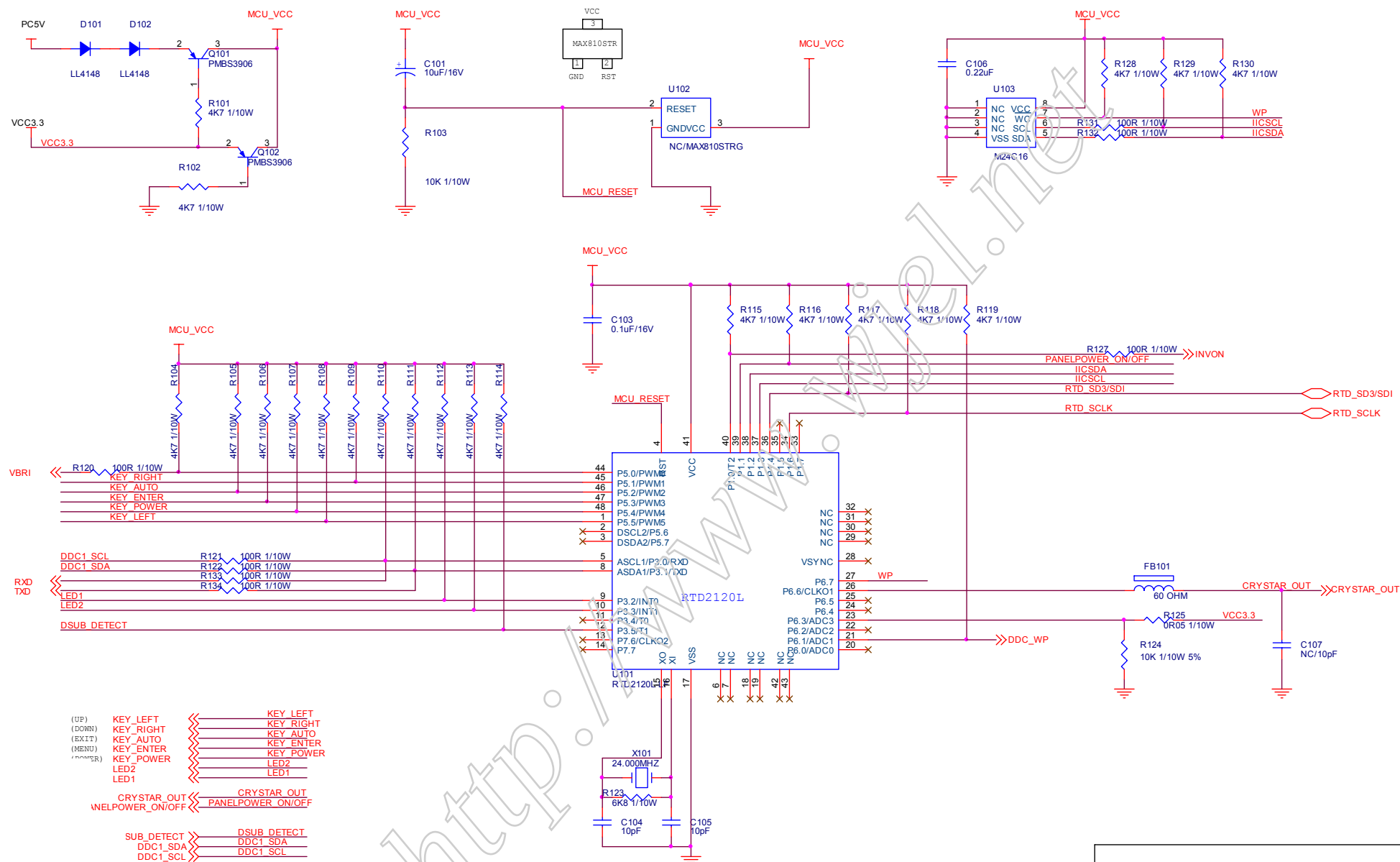
6.1 Main Board



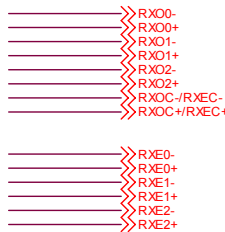
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Date:	Friday, January 26, 2007	Sheet 2 of 7

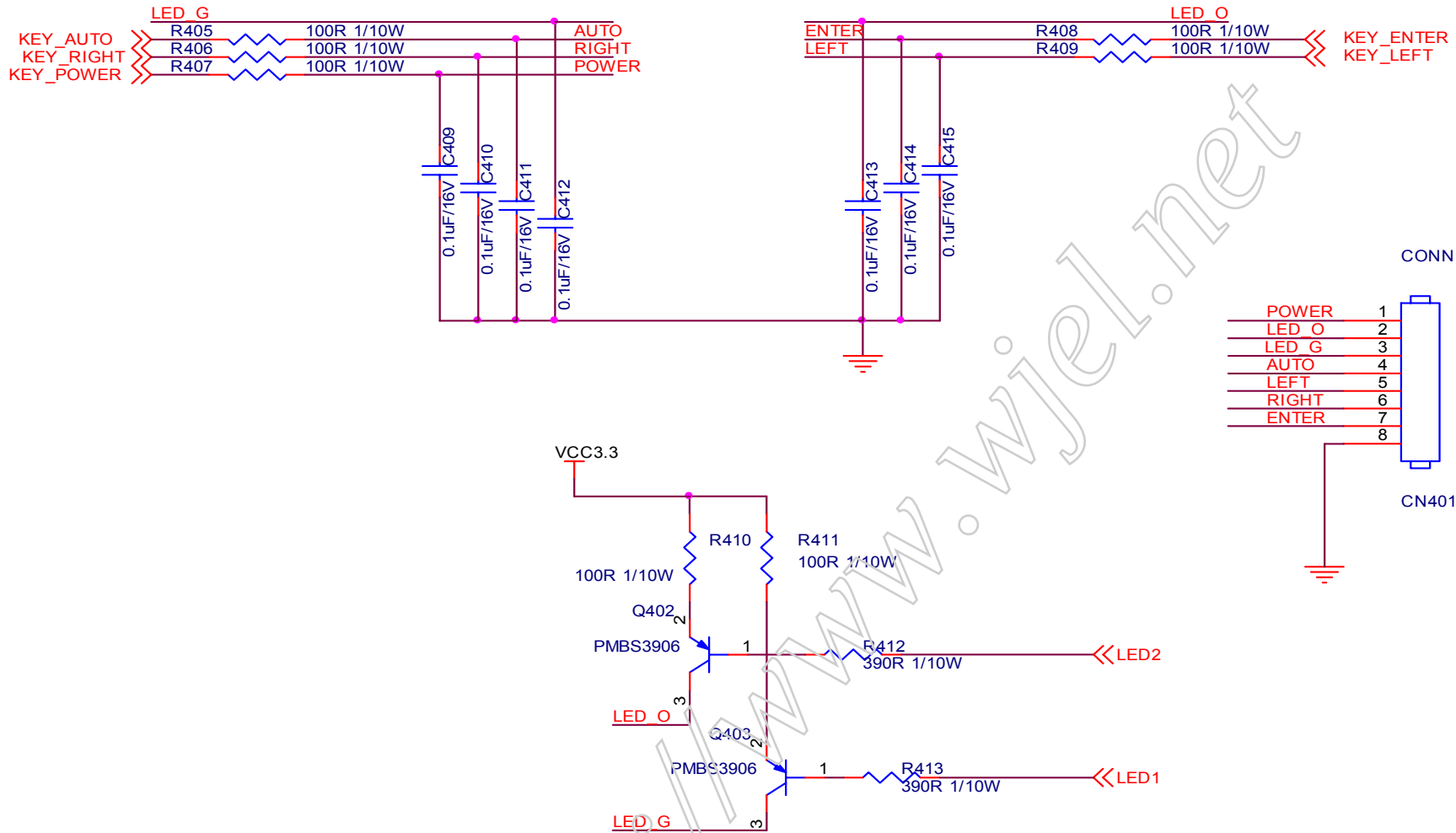


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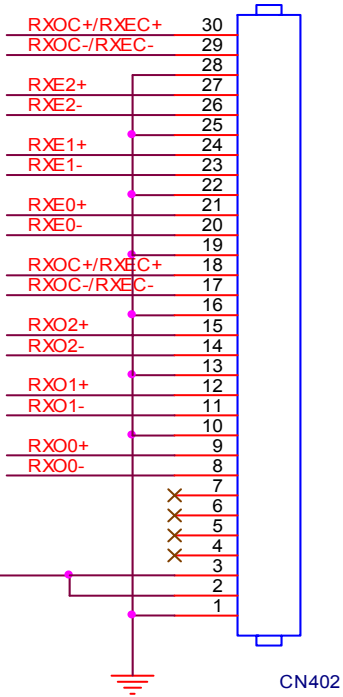
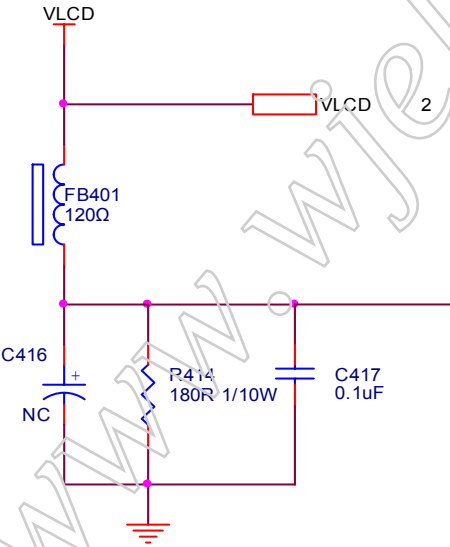
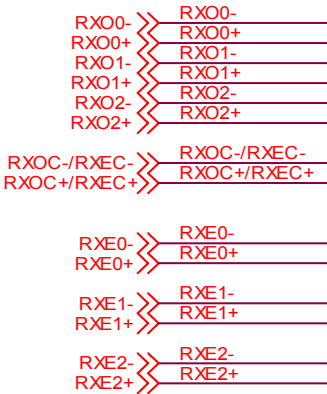


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TPV

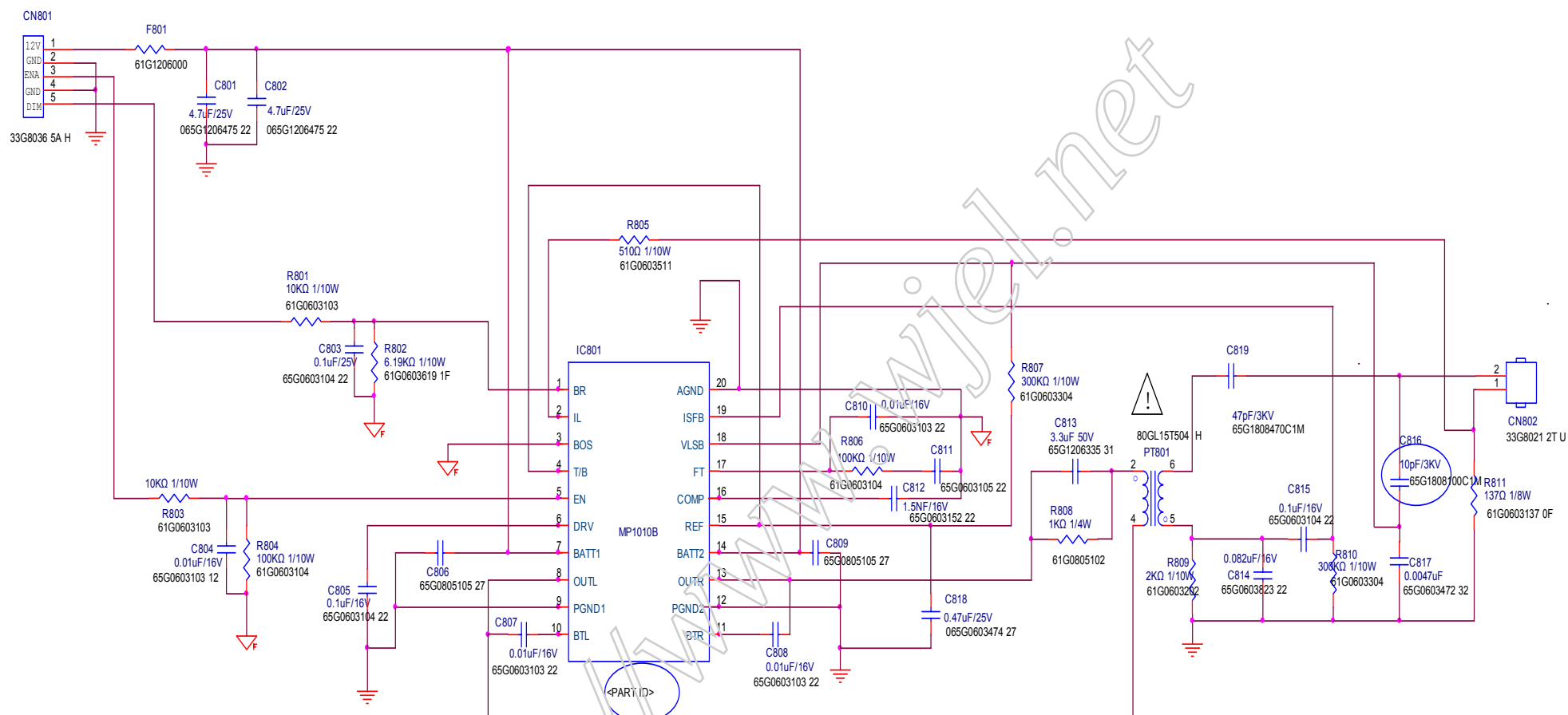


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G2417-C-X-X-1-20061225		
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key		
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Title		
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INTERFACE		
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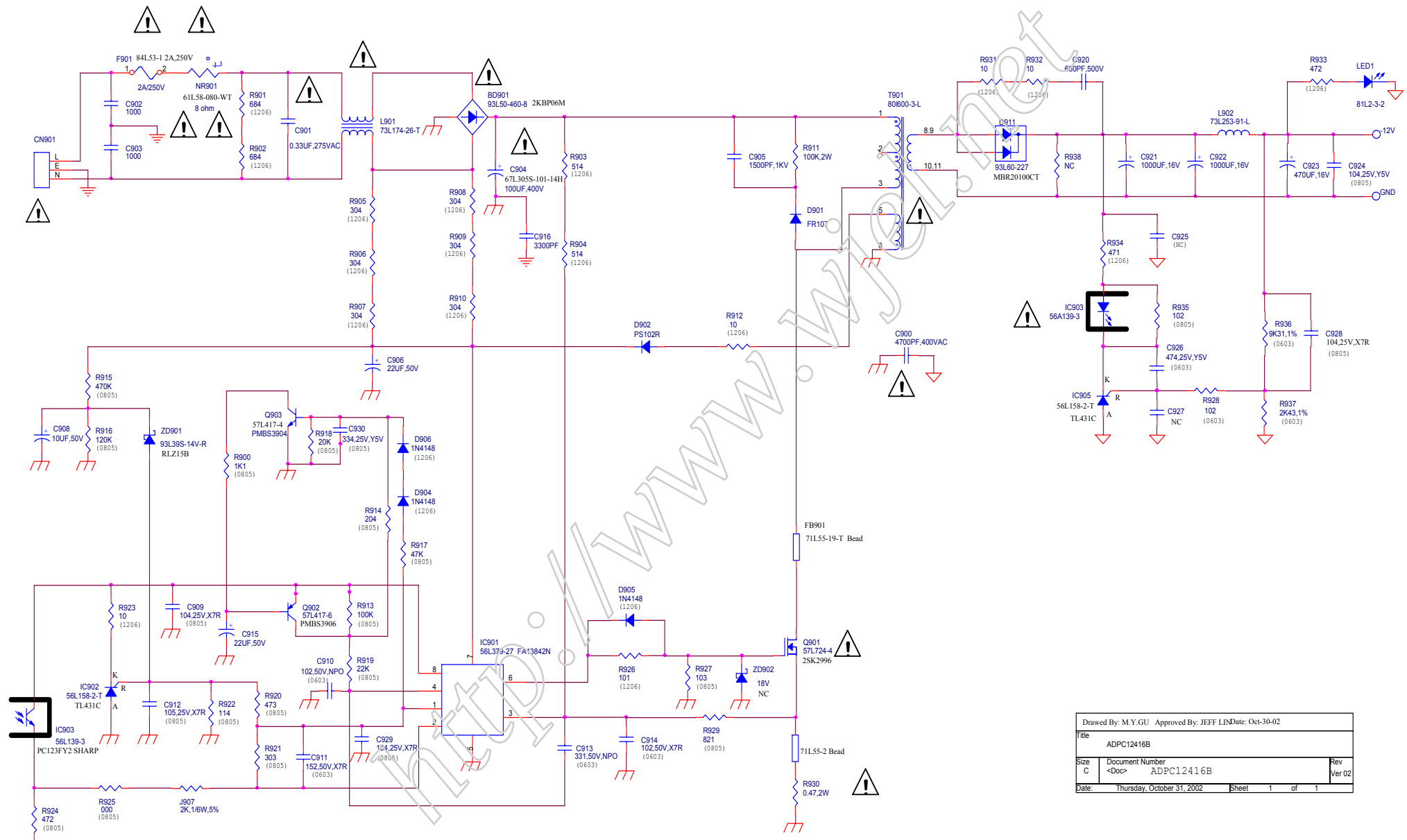
6.2 Inverter Board



is power GND is signal GND

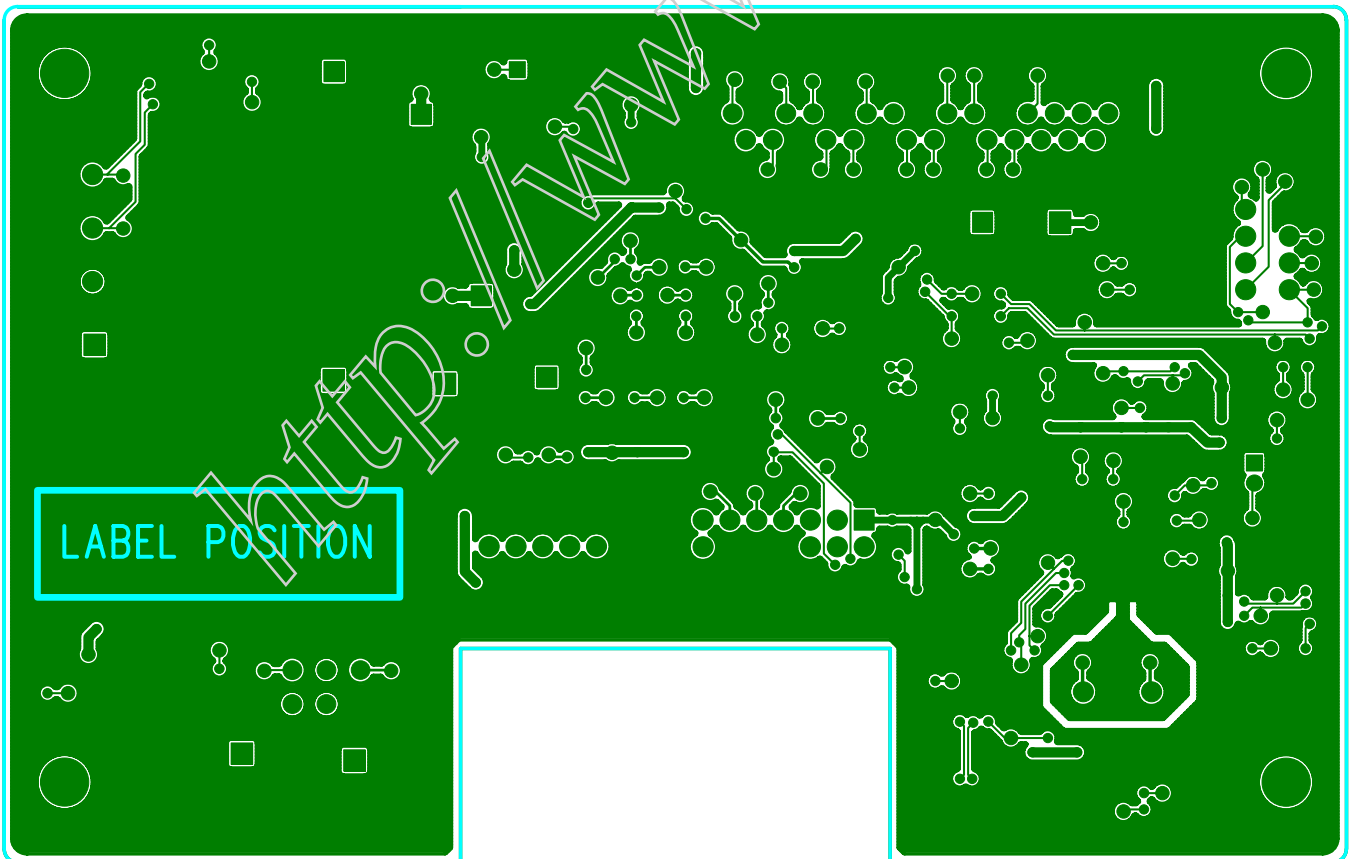
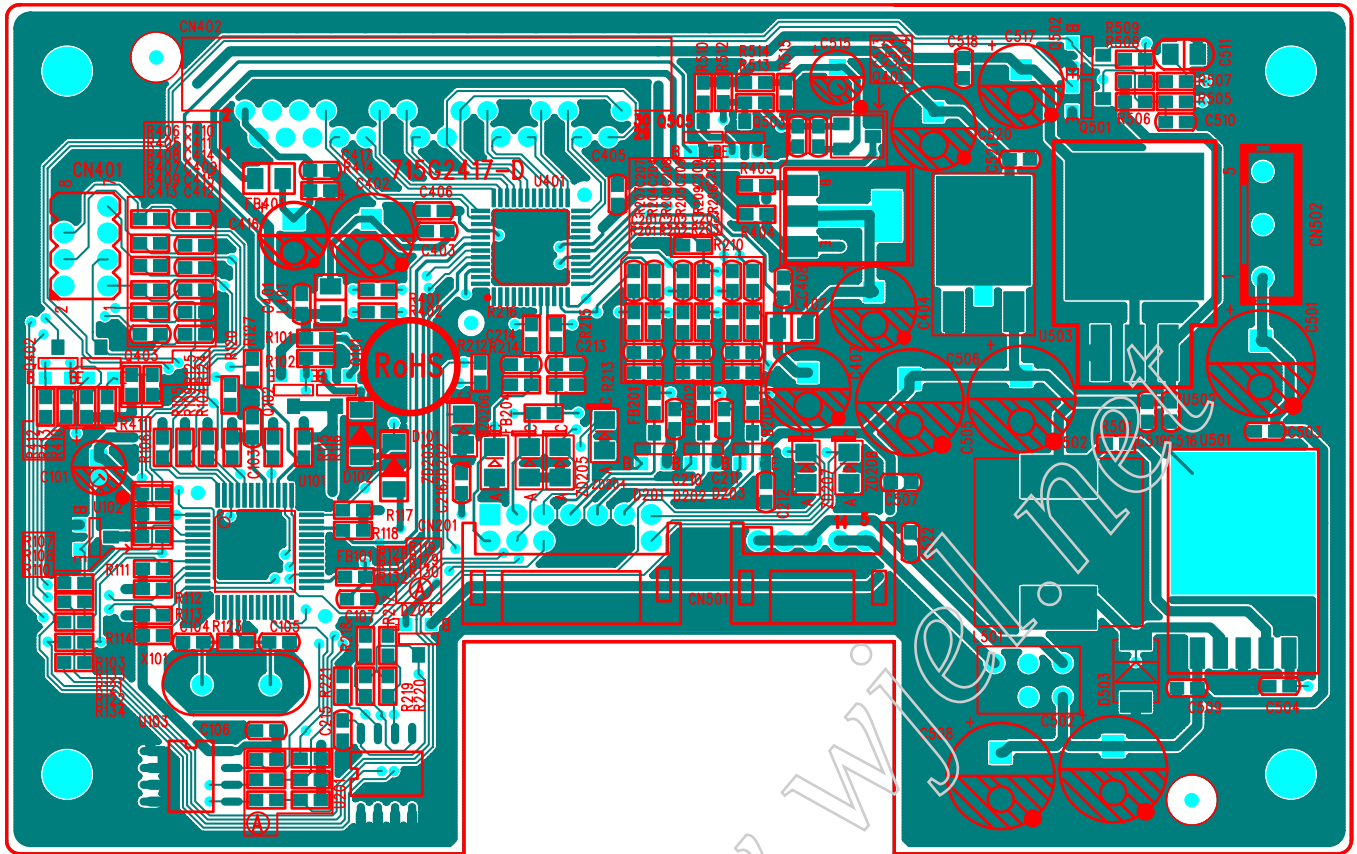
AOC (Top Victory) Electronics Co., Ltd.			
Title inverter			
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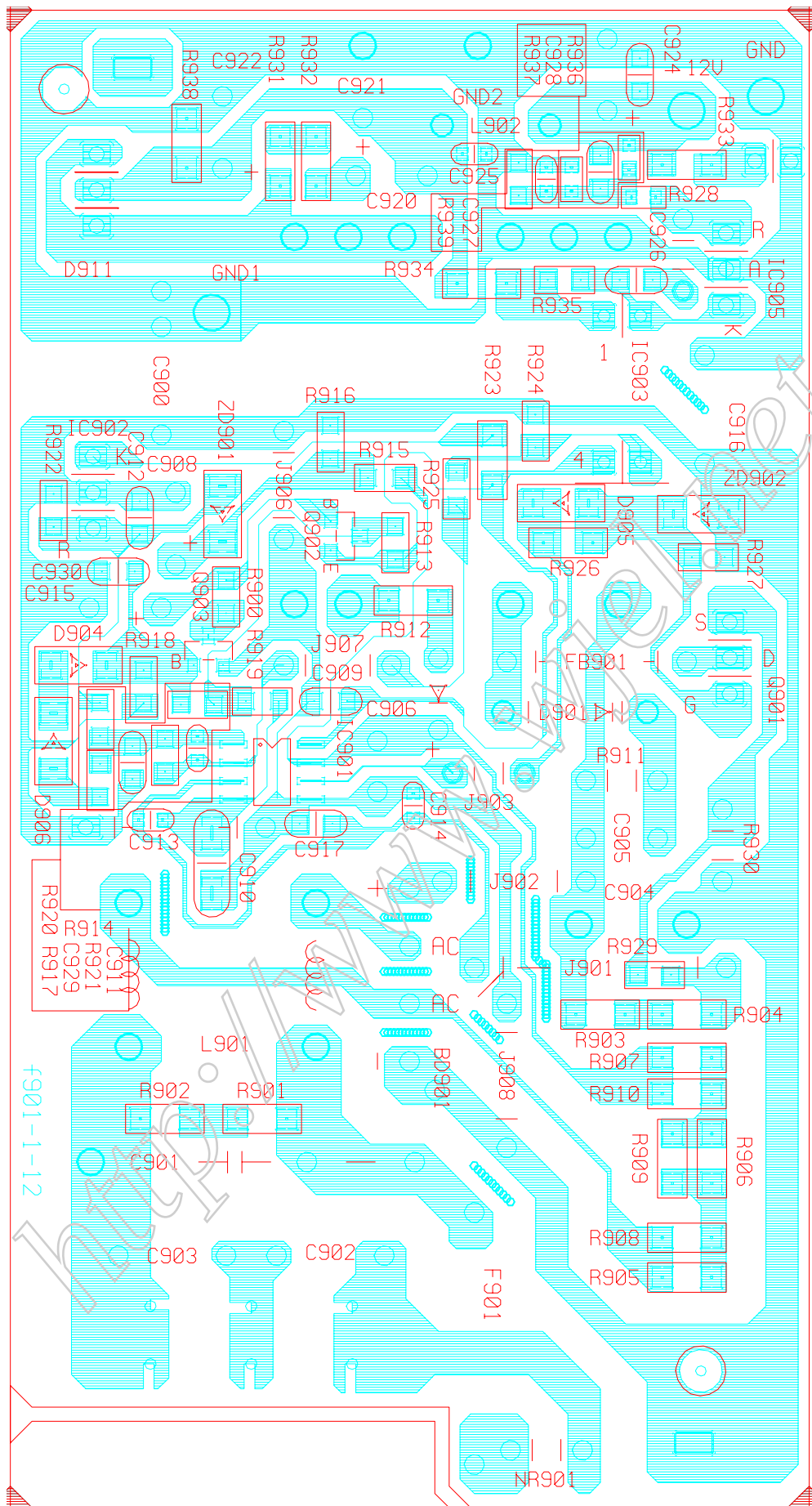
6.3 Adapter Board



7. PCB Layout

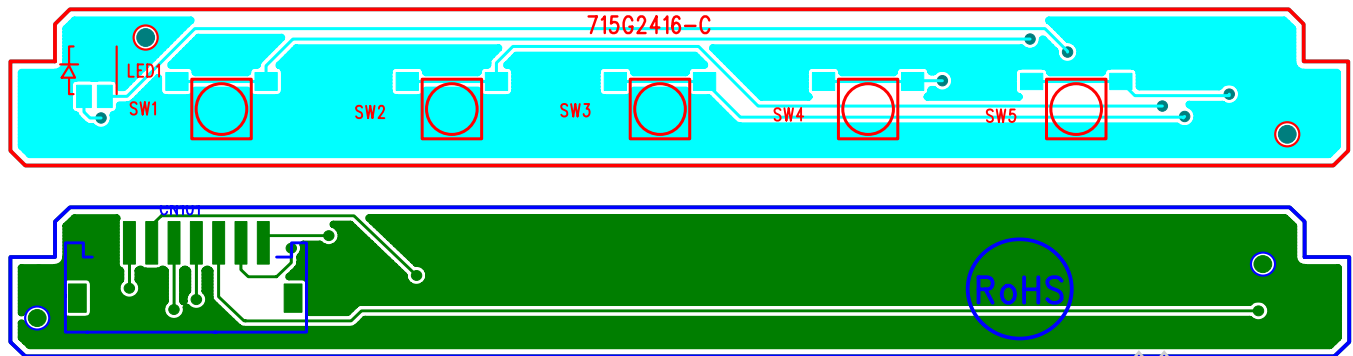
7.1 Main Board





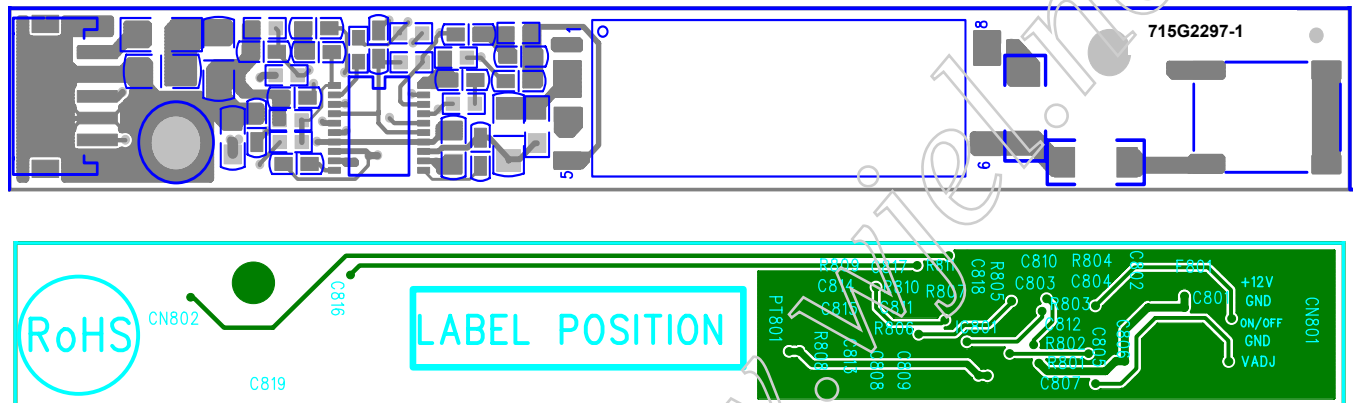
7.3 Key Board

715G2416-C



7.4 Inverter Board

715G2297-1



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.

8.2.1 MAIN BOARD

Measured CN501 pin1、2、3 = 12 V?
Measured U501 pin 2= 5V?
Measured U503 pin 2= 3.3V?

NG

Check Correspondent component.

Is there any shortage or cold solder?

Yes .there have OSD show

Led Green

Disconnected the Signal cable(Loose the Signal cable),Is the screen show “Cable Not Connected” ?

Connected the Signal cable again,
Check LED status.

No, nothing is

Led Orange

Connected the Signal cable
again

Check Power switch is in Power-on status , and check if Power switch had been stuck ?

Led orange

Led Green

OK, Keyboard no stuck

Check the Wire-Harness from CN401

OK, Wire tight enough

Check **Panel-Power Circuit** Block

OK ,Panel Power OK

Check **U401 Data-output** Block

OK, U401 data OK

Replace **Power board** and Check
Inverter **control relative circuit**

Re-do White balance adjust

Measured RGB (R405, R406, R407)
H,V Input at U401 pin 8,9 ,was there
have signal ?
Check digital signal from CN201

Check Correspondent
component short/open
(Protection Diode)

NG

OK, input Normal

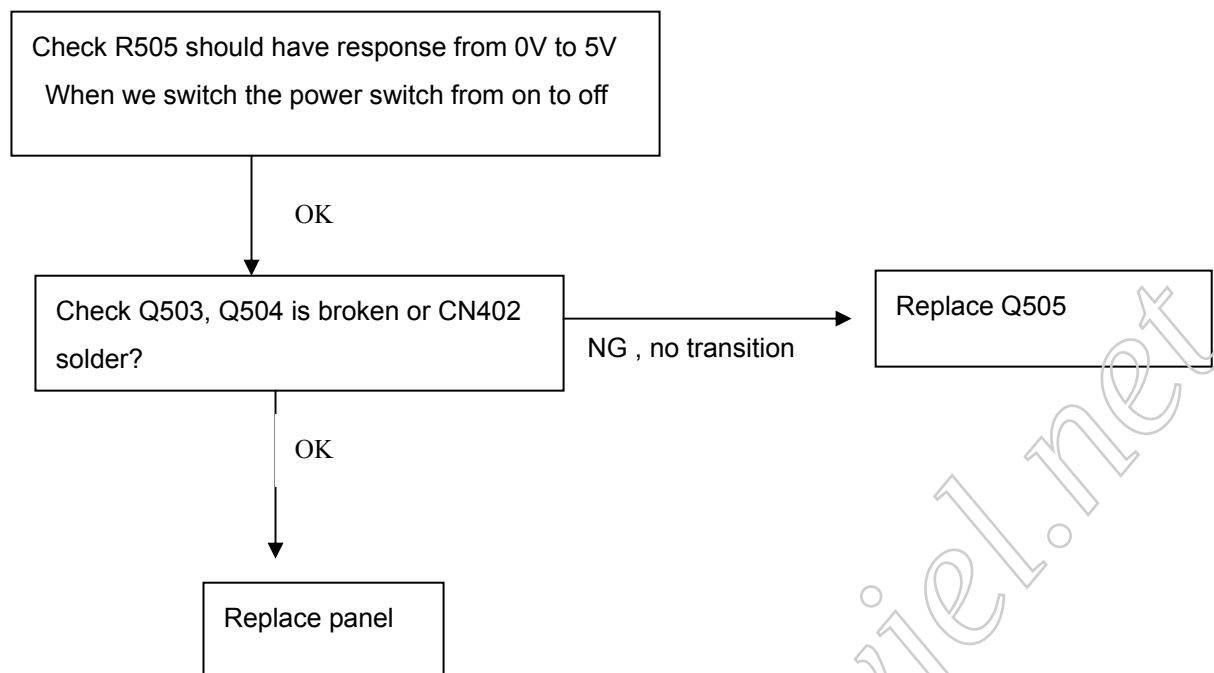
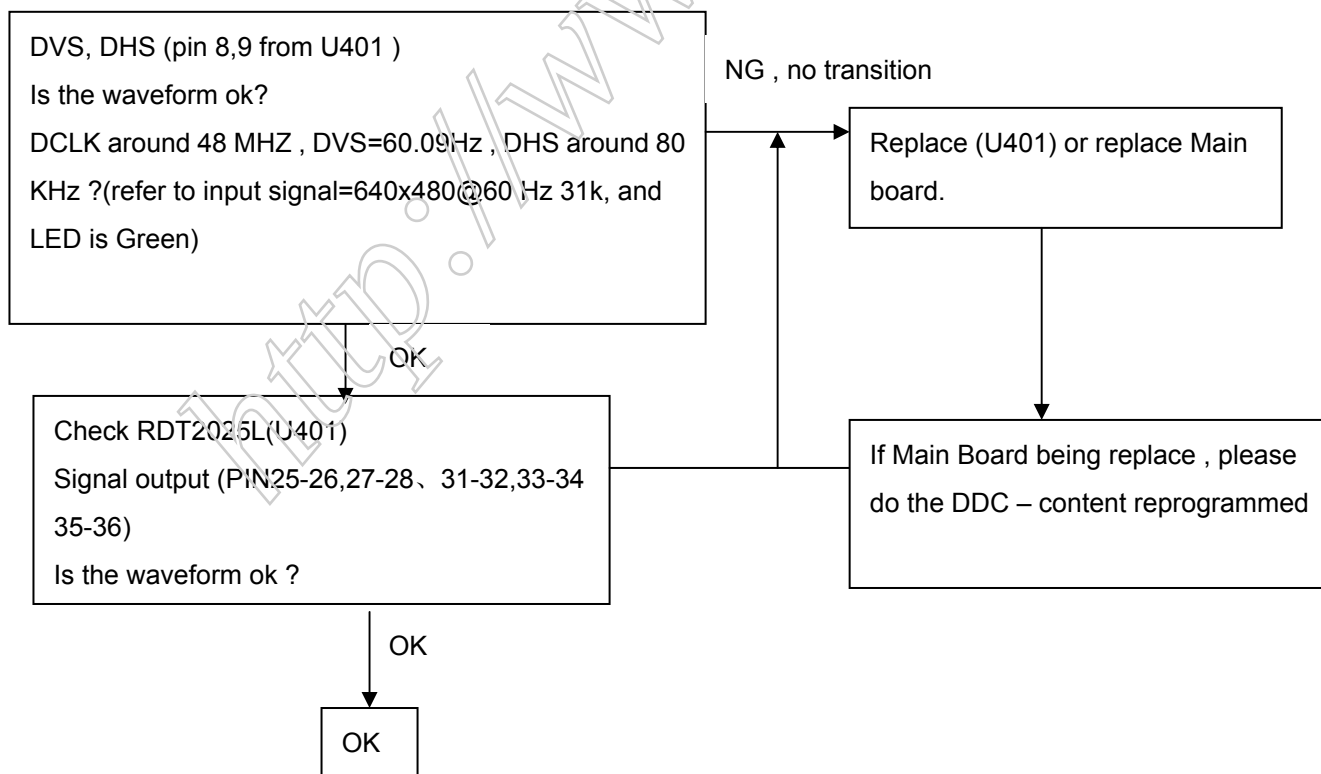
NG, still no screen

OK, clock

Replace **U401** ((RTD2025L)

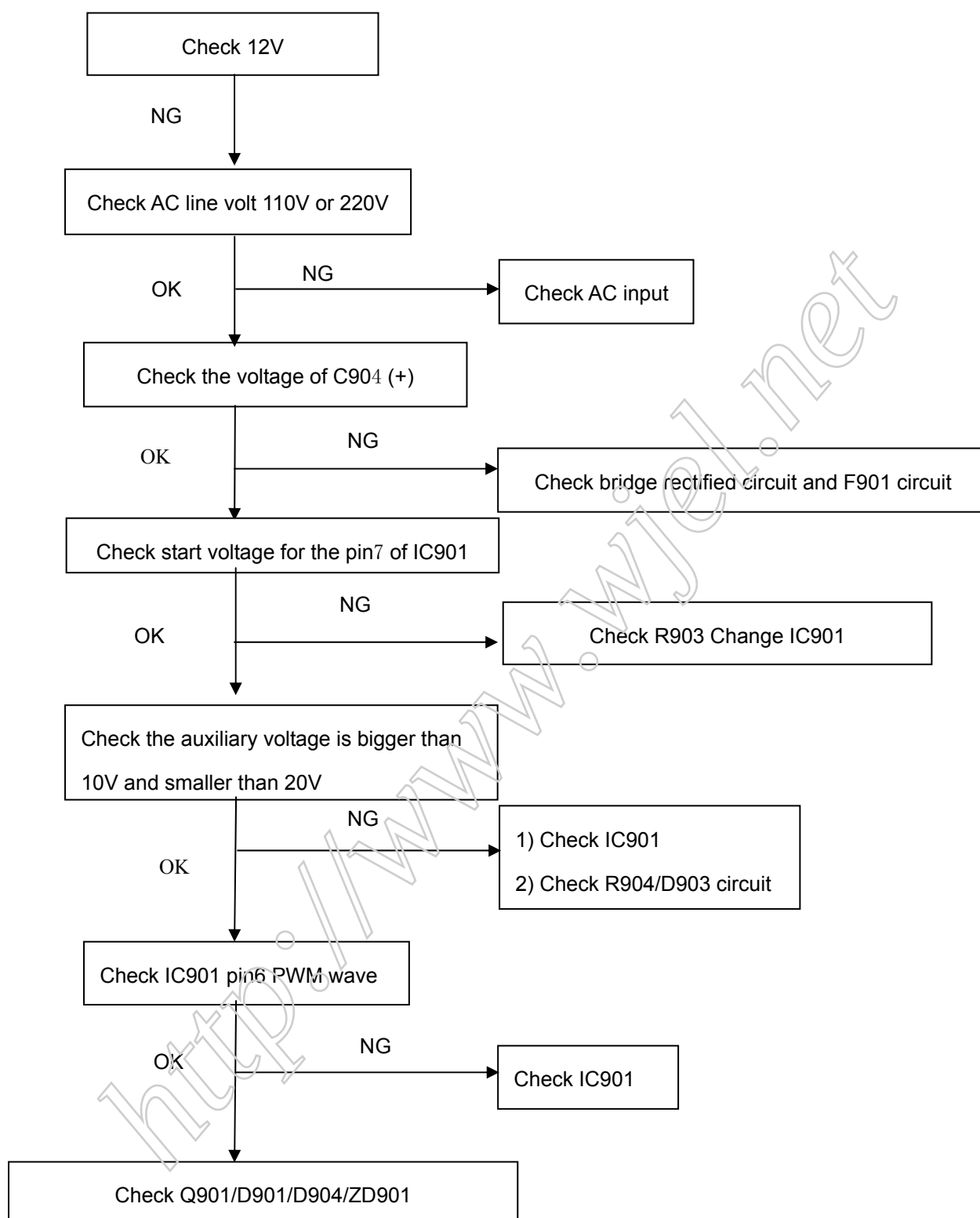
OK

Note:1. If replace “**MAIN-BOARD**”, Please re-do “DDC-content” programmed & “WHITE-Balance”.

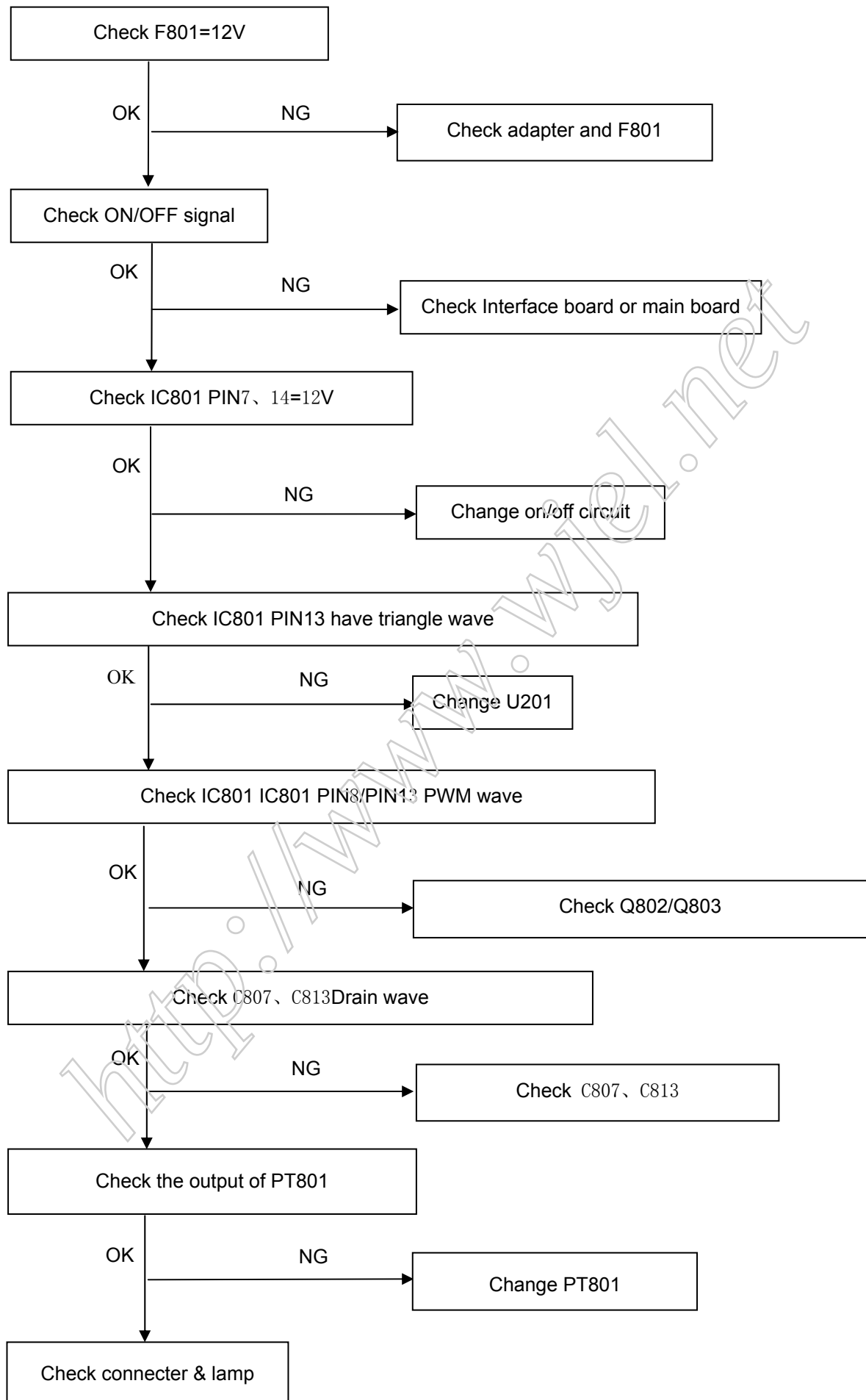
2.PANEL POWER CIRCUIT**4. U4-DATA OUTPUT**

8.2.1 Power/Inverter Board

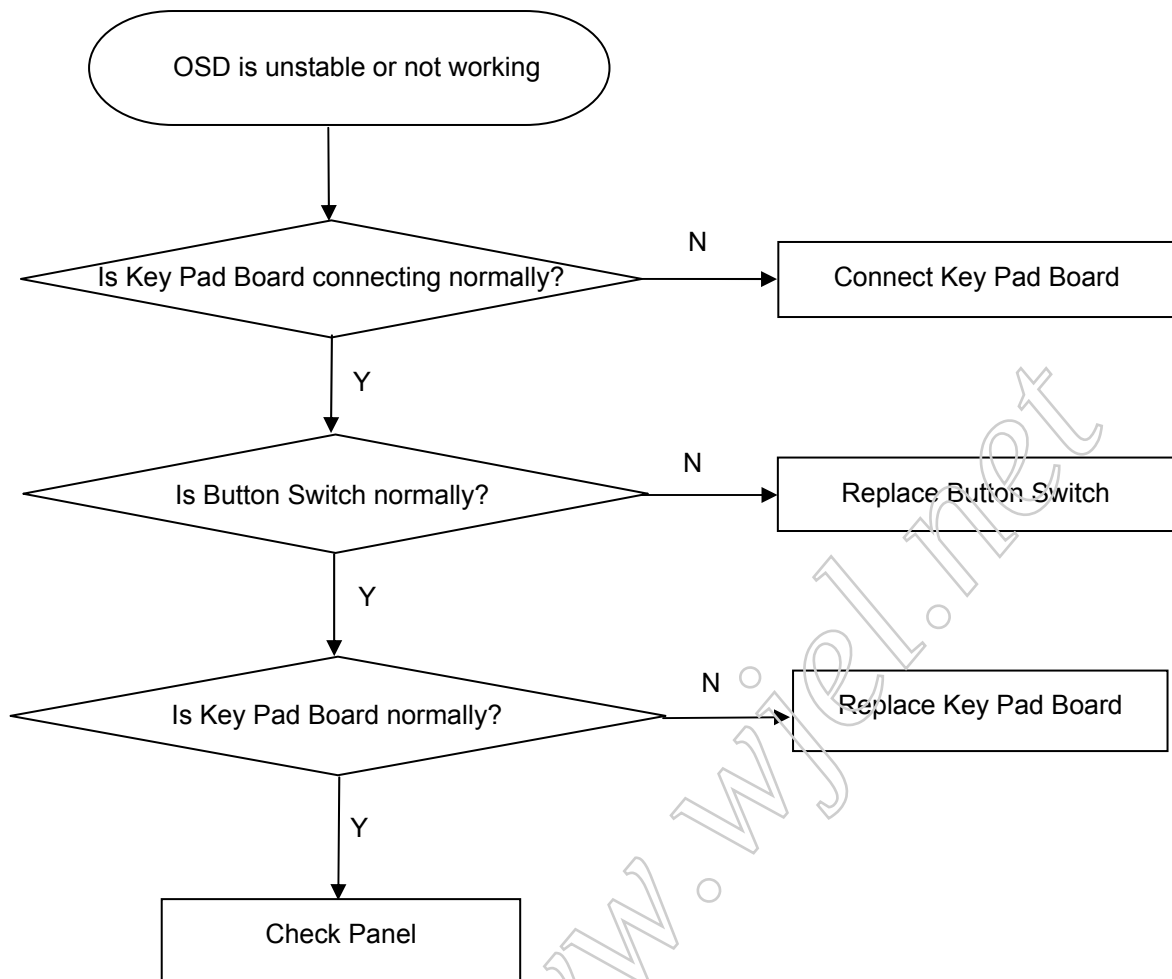
1) No power



2.) No Backlight



8.2.2 Keypad 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-C210 MEM. Channel setting

A. Reference to Chroma C210 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 1 (9300K color):

9300K color temp. parameter is $x = 283 \pm 20$, $y = 297 \pm 20$, $Y \geq 170 \pm 20 \text{ cd/m}^2$

B. MEM.CHANNEL 1 (7800K color):

7800K color temp. parameter is $x = 296 \pm 20$, $y = 311 \pm 20$, $Y \geq 170 \text{ cd/m}^2$

C. MEM.CHANNEL 1 (6500K color):

6500K color temp. parameter is $x = 313 \pm 30$, $y = 329 \pm 30$, $Y \geq 180 \text{ cd/m}^2$

D. MEM.CHANNEL 1(SRGB color)

SRGB color temp. parameter is $x = 313 \pm 30$, $y = 329 \pm 30$, $Y \geq 180 \text{ cd/m}^2$

3. Into factory mode of AOC 511Vwb

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 70; Adjust the **Brightness**  to 90.

5. Gain adjustment:

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

A. Adjust 9300K color-temperature

1. Switch the Chroma-C210 to **RGB-Mode** (with press “MODE” button)

2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma C210)

3. The LCD-indicator on chroma C210 will show $x = 283 \pm 20$, $y = 297 \pm 20$, $Y \geq 170 \text{ cd/m}^2$

4. Adjust the RED of color1 on factory window until chroma C210 indicator reached the value $R=100$

5. Adjust the GREEN of color1 on factory window until chroma C210 indicator reached the value $G=100$

6. Adjust the BLUE of color1 on factory window until chroma C210 indicator reached the value $B=100$

7. Repeat above procedure (item 4,5,6) until chroma C210 RGB value meet the tolerance $=100 \pm 2$

B. Adjust 7800K color-temperature

1. Switch the Chroma- C210 to **RGB-Mode** (with press “MODE” button)

2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma C210)

3. The LCD-indicator on chroma C210 will show $x = 296 \pm 20$, $y = 311 \pm 20$, $Y \geq 170 \text{ cd/m}^2$

4. Adjust the RED of color1 on factory window until chroma C210 indicator reached the value $R=100$

5. Adjust the GREEN of color1 on factory window until chroma C210 indicator reached the value $G=100$

6. Adjust the BLUE of color1 on factory window until chroma C210 indicator reached the value $B=100$

7. Repeat above procedure (item 4,5,6) until chroma C210 RGB value meet the tolerance $=100 \pm 2$

C. Adjust 6500K color-temperature

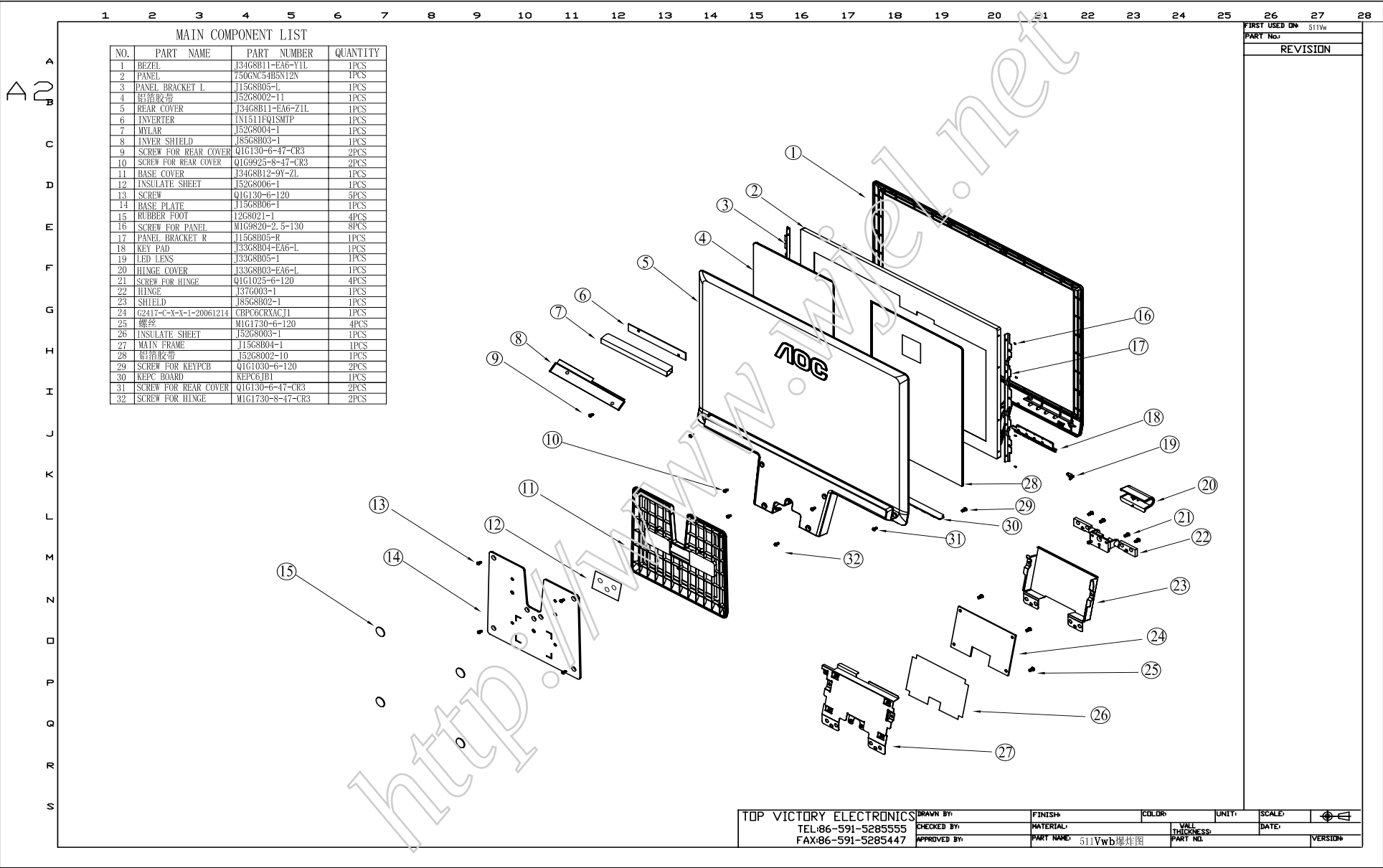
1. Switch the chroma- C210 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma C210)
3. The LCD-indicator on chroma C210 will show $x = 313 \pm 30$, $y = 329 \pm 30$, $Y \geq 170 \text{ cd/m}^2$
4. Adjust the RED of color3 on factory window until chroma C210 indicator reached the value $R=100$
5. Adjust the GREEN of color3 on factory window until chroma C210 indicator reached the value $G=100$
6. Adjust the BLUE of color3 on factory window until chroma C210 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma C210 RGB value meet the tolerance $=100 \pm 2$

D. Adjust SRGB color-temperature

1. Switch the chroma- C210 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma C210)
3. The LCD-indicator on chroma C210 will show $x = 313 \pm 30$, $y = 329 \pm 30$, $Y \geq 170 \text{ cd/m}^2$
4. Adjust the RED of color3 on factory window until chroma C210 indicator reached the value $R=100$
5. Adjust the GREEN of color3 on factory window until chroma C210 indicator reached the value $G=100$
6. Adjust the BLUE of color3 on factory window until chroma C210 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma C210 RGB value meet the tolerance $=100 \pm 2$

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

10. Monitor Exploded View



11. BOM List

T56CRXNQWYACNJ

Location	Part No.	Description
	ADPC12350BEP	LCD ADAPTER
	CBPC6CRXACJ2	MAIN BOARD
	IN1511FQ1SMTP	INVERTER
	KEPC6JB1	KEPC BOARD
	11G6054 1	PIN CONNECTOR
	12G8021 1	RUBBER FOOT
	26G 800504 6	BARCODE
	40G 58162435A	MANUAL P/N LABEL
	41G780061532C	SA SERVICE CENTER LIST
	45G 77 3	TRANSPARENT SHEET
	52G 1208 A	ALUMINUM TYPE
	52G 1210 A	AL Foil Adhesive tape
	52G 1211519	AL Foil Adhesive tape
	85G 583524 GP	CONDUCTIVE FABRIC
	89G 725HAA D1	SIGNAL CABLE
	89G 72BHAA701	SIGNAL CABLE+DC CABLE
	89G179E30B703	LYDS FFC
	89G402A15NIS1	POWER CORD
XN01A	M1G 130 5125	SCREW
XN01A	M1G 330 5120	SCREW
XN01A	M1G1730 6120	M3*6
XN01A	M1G1730 8 47 CR3	SCREW
XN01A	M1G98202.5130	SCREW
XN01A	Q1G 130 6 47 CR3	SCREW
XN01A	Q1G 130 6120	SCREW
XN01A	Q1G1025 6120	SCREW
XN01A	Q1G1030 6120	SCREW
XN01A	Q1G9925 8 47 CR3	SCREW
	750GNC54WB522N	PANEL CLAA154WB05AN-110
	J15G8B04 1	MAIN FRAME
	J15G8B05 L	PANEL BRACKET L
	J15G8B05 R	PANEL BRACKET R
	J15G8B06 1	BASE PLATE
	J33G8B03EA6 L	HINGE COVER
	J33G8B04EA6 L	KEY PAD
	J33G8B05 1	LED LENS
	J34G8B10 9YY1T	BEZEL

	J34G8B11EA6Z1L	REAR COVER
	J34G8B12 9Y ZL	BASE COVER
	J37G 003 1	HINGE
	J40G 100615 1A	POP LABEL
	J40G 15T615 4A	ID 511Vwb
	J40GVSTB757 1A	VISTA BASIC LABEL
	J41G7801615 1A	QSG
	J44G1511 1	CONDUCTIVE FABRIC 45*25mm
	J44G5003 1	EPS
	J44G5003615 3A	CARTON
	J45G 76 28RNA	PE BAG FOR MANUAL-CARD
	J45G 88609 L	EPE COVER
	J45G1511 A	无铅布袋
	J50G 600 9	BLACK HANDEL 1
	J50G 600 10	BLACK HANDEL 2
	J52G 1185 A2	MIDDLE TAPE FOR CARTON
	J52G8002 10	AL Foil Adhesive tape
	J52G8002 11	AL Foil Adhesive tape
	J52G8003 1	INSULATE SHEET
	J52G8004 1	MYLAR
	J52G8006 1	INSULATE SHEET
	J70G150161510A	CD MANUAL
	J85G8B02 1	SHIELD
	J85G8B03 1	INVER SHIELD
	ADPC12350BEP	LCD ADAPTER
	ADPC12350BB6P	ADAPTER ASS'Y
GND1	9G6002 1	PIN
	40G 45762412B	CBPC LABEL
	52G 1213600	AL Foil Adhesive tape
IC903	56G 139 3A	PC123Y22FZ0F
J907	61G 60220252T	CFR 2K OHM +-5% 1/6W
C901	63G107K334 U	MPX 0.33UF 275VAC +-10%
C902	65G305M1022EM	1000pF Y2 250V 20% BY MU
C903	65G305M1022EM	1000pF Y2 250V 20% BY MU
C916	65G306M3322F2	Y1, 3300PF, +/-20%, 400VAC
C900	65G306M4722BP	4700PF+-20% 400VAC
C906	67G 2152207NT	22UF/50V
C921	67G215S1023KV	EC 105°C CAP 1000UF M 16
C922	67G215S1023KV	EC 105°C CAP 1000UF M 16
C904	67G305S10115K	100UF +-20% 450V

FB901	71G 55 19 T	FERRITE BEAD
L902	73G 253 91 S	LOOP
L901	73L 174 26T1G	LOOP
T901	80L 600 3 TF	ADAPTE
LED1	81G 2 3 2J	LED
CN901	87G 501 10	AC SOCKET
	89G 171511	DC CABLE
BD901	93G 50460502	BRIDGE KBP206G 2A 800V
D901	93G 6026T52T	FR107-DO-41 1000V/1A
D902	93G 6038P52T	PS102R DO-41 200V/1A
XJ908	95G 90 23	TINCOATEDCOPPER
	705G 560 57 03	Q901 ASS'Y
	705G 560 61 03	R930 ASS'Y
	705G 560 61 04	NR901 ASS'Y
	705G 560 93 05	D911 ASS'Y
	705GAD17 61 02	R911 ASS'Y
	705GJ9K0 84001	F901 ASS'Y
	715G 901 1 4	ADAPTER PCB(EMI)
P051	Q51G 6 4508	RTV GLUE
	ADPC12350BB6P	ADAPTER ASS'Y
	33G6007 1	LENS
	40G 154501 1	HI-POT GND LABEL FOR MON
	45G 88525 E	PE BAG
	J40G350B615 3E	ADAPTER ID
	W33G4477 B T	TOP COVER
	W33G4478 B T	BOTTOM COVER
IC901	56G 379 27	FA13843N SOP-8
Q903	57G 417 4	PMBS3904/PLILIPS
Q902	57G 417 6	PMBS3906 PNP
R928	61G0603102	CHIPR 1KOHM +-5% 1/10W
R937	61G0603243 1F	RST CHIPR 2.43 KOHM +-1%
R936	61G0603931 1F	RST CHIPR 9.31 KOHM +-1%
R925	61G0805000	RST CHIP MAX 0R05 1/8W
R915	61G0805101	RST CHIP 100R 1/8W 5%
R935	61G0805102	CHIPR 1K OHM +-5% 1/10W
R927	61G0805103	CHIP 10KOHM 1/10W
R913	61G0805104	RST CHIP 100K 1/8W 5%
R939	61G0805104	RST CHIP 100K 1/8W 5%
R900	61G0805112	RST CHIPR 1.1 KOHM +-5%
R922	61G0805114	RST CHIPR 110 KOHM +-5%

R918	61G0805133	RST CHIPR 13 KOHM +-5% 1
R919	61G0805200 2F	RST CHIPR 20 KOHM +-1% 1
R914	61G0805204	RST CHIPR 200 KOHM +-5%
R921	61G0805303	RST CHIP 30K 1/8W 5%
R924	61G0805472	RST CHIP 4K7 1/8W 5%
R917	61G0805473	RST CHIP 47K 1/8W 5%
R920	61G0805473	RST CHIP 47K 1/8W 5%
R929	61G0805821	RST CHIP 820R 1/8W 5%
D904	61G1206000	CHIP resistors 1/3W
R912	61G1206100	RST CHIP 10R 1/4W 5%
R923	61G1206100	RST CHIP 10R 1/4W 5%
R931	61G1206100	RST CHIP 10R 1/4W 5%
R932	61G1206100	RST CHIP 10R 1/4W 5%
R926	61G1206101	CHIP 100OHM 5% 1/8W
R905	61G1206304	RST CHIPR 300 KOHM +-5%
R906	61G1206304	RST CHIPR 300 KOHM +-5%
R907	61G1206304	RST CHIPR 300 KOHM +-5%
R908	61G1206304	RST CHIPR 300 KOHM +-5%
R909	61G1206304	RST CHIPR 300 KOHM +-5%
R910	61G1206304	RST CHIPR 300 KOHM +-5%
R934	61G1206471	RST CHIP 470R 1/4W 5%
R933	61G1206472	CHIP 4.7KOHM 5% 18W
R903	61G1206514	RST CHIPR 510 KOHM +-5%
R904	61G1206514	RST CHIPR 510 KOHM +-5%
R901	61G1206684	CHIPR 680KOHM +-5% 1/8W
R902	61G1206684	CHIPR 680KOHM +-5% 1/8W
C914	65G0603102 32	CHIP 1000PF 50 V7R
C911	65G0603152 32	CHIP 1500PF 50V X7R
C913	65G0603331 31	CHIP 1000PF 50V NPO
C909	65G0805104 22	CHIP 0.1UF 25VX7R 0805
C928	65G0805104 22	CHIP 0.1UF 25VX7R 0805
C929	65G0805104 22	CHIP 0.1UF 25VX7R 0805
C924	65G0805104 27	CHIP CAP 0.1UF 25V Y5V
C912	65G0805105 12	CHIP CAPACITOR 1UF 16V X
C917	65G0805221 31	CHIP 220PF 50V NPO
C930	65G0805334 27	0.33UF 1/5V
C926	65G0805474 27	CHIP 0.47UF 25V Y5V
C910	65G1206102 31	CHIP 1000PF
R938	65G1206102 32	CHIP 100PF/X7R +-5%
ZD901	93G 39S 15 T	RLZ15B BY ROHM

D905	93G 64S511SEM	1N4148W
D906	93G 64S511SEM	1N4148W
C904	6G 31502	1.5MM RIVET
L901	6G 31502	1.5MM RIVET
T901	6G 31502	1.5MM RIVET
IC902	56G 158 4 T	H431BA
IC905	56G 158 4 T	H431BA
C905	65G 1K152 1T6052	1.5NF/1KV Z5F +-10%
C920	65G517K681 2T6921	680PF 500V +-10% 25P
C908	67G 305100 7T	105°C 10UF+-20% 50
C915	67G 305220 7T	22UF +---20% 50V
C923	67G 305471 3T	105°C 470UF +-20% 1
J901	95G 90 23	TINCOATEDCOPPER
J902	95G 90 23	TINCOATEDCOPPER
J903	95G 90 23	TINCOATEDCOPPER
J904	95G 90 23	TINCOATEDCOPPER
J905	95G 90 23	TINCOATEDCOPPER
J906	95G 90 23	TINCOATEDCOPPER
	715G 901 1 12	ADAPTER BOARD PCB
	705G 560 57 03	Q901 ASS'Y
Q901	57G 667 21	Transistor STP10NK70ZFP
	90G 396502 Q	HEAT SINK
XN01A	M1G1730 7128 CR3	SCREW
	705G 560 61 03	R930 ASS'Y
R930	61G 2J47858G	WIRE WOUND 0.47 OHM 2W
	96G 29 8	TUBE
	705G 560 61 04	NR901 ASS'Y
NR901	61G 58080 WT	NTCR
	705G 560 93 05	D911 ASS'Y
	90G 396503 D	HEAT SINK
D911	93G 60217	DIODE FMB29L
	M1G1730 7128 CR3	SCREW
	705GAD17 61 02	R911 ASS'Y
R911	61G152M10457F	MOFR 100K OHM +-5% 2W
	96G 29 6	SHRINK TUBE UL/CSA
	705GJ9K0 84001	F901 ASS'Y
F901	84G 7H3151SL	250V/3.15A FUSE
	96G 29 8	TUBE
	CBPC6CRXACJ2	MAIN BOARD
CN501	33G3802 5H	WAFER&PLUG

CN402	33G801930D H	FPC CONN 2.00M 30P
CN201	33G8027 14 H	Wafer & plug
C501	67G215M1014AV	100UF, 25V
C502	67G215M1014AV	100UF, 25V
C508	67G215M1014AV	100UF, 25V
C505	67G305M2212AV	220UF/10V
C506	67G305M2212AV	220UF/10V
C101	67G305S100 3H	EC 10UF 16V 4*7mm SH SER
C515	67G305S100 3H	EC 10UF 16V 4*7mm SH SER
C402	67G305S1013HV	CAP 105°C 100UF M 16V
C404	67G305S1013HV	CAP 105°C 100UF M 16V
C407	67G305S1013HV	CAP 105°C 100UF M 16V
C517	67G305S1013HV	CAP 105°C 100UF M 16V
C520	67G305S1013HV	CAP 105°C 100UF M 16V
X101	93G 22 45 J	OSC 24MHz/30PF/49U/S
CN502	95G8013 5709 X	WIRE HARNESS
CN401	95G8014 8703 X	WIRE HARNESS
U401	56G 562701	RTD2025L-LF
U501	56G 563 11	IC SI-8050SD
U502	56G 563 21	IC AP1084K33LA
U503	56G 563 25	AIC1084-33PE TO-252
U101	56G1125701 X	RTD2120L-LF
U103	56G1133 56	IC M24C16-WMN6TP
Q501	57G 417 4	PMBS3904/PLILIPS
Q502	57G 417 4	PMBS3904/PLILIPS
Q503	57G 417 4	PMBS3904/PLILIPS
Q505	57G 417 4	PMBS3904/PLILIPS
Q101	57G 417 6	PMBS3906 PNP
Q102	57G 417 6	PMBS3906 PNP
Q402	57G 417 6	PMBS3906 PNP
Q403	57G 417 6	PMBS3906 PNP
Q401	57G 417 17 T	PZT2907A SOT-223
Q504	57G 763 1	A03401L
R125	61G0603000	CHIPR 00HM +-5% 1/10W
R217	61G0603000	CHIPR 00HM +-5% 1/10W
R218	61G0603000	CHIPR 00HM +-5% 1/10W
R403	61G0603000	CHIPR 00HM +-5% 1/10W
R501	61G0603000	CHIPR 00HM +-5% 1/10W
R513	61G0603000	CHIPR 00HM +-5% 1/10W
R514	61G0603000	CHIPR 00HM +-5% 1/10W

R120	61G0603101	CHIPR 1000HM +-5% 1/10W
R121	61G0603101	CHIPR 1000HM +-5% 1/10W
R122	61G0603101	CHIPR 1000HM +-5% 1/10W
R127	61G0603101	CHIPR 1000HM +-5% 1/10W
R131	61G0603101	CHIPR 1000HM +-5% 1/10W
R132	61G0603101	CHIPR 1000HM +-5% 1/10W
R133	61G0603101	CHIPR 1000HM +-5% 1/10W
R134	61G0603101	CHIPR 1000HM +-5% 1/10W
R204	61G0603101	CHIPR 1000HM +-5% 1/10W
R205	61G0603101	CHIPR 1000HM +-5% 1/10W
R206	61G0603101	CHIPR 1000HM +-5% 1/10W
R207	61G0603101	CHIPR 1000HM +-5% 1/10W
R208	61G0603101	CHIPR 1000HM +-5% 1/10W
R209	61G0603101	CHIPR 1000HM +-5% 1/10W
R212	61G0603101	CHIPR 1000HM +-5% 1/10W
R215	61G0603101	CHIPR 1000HM +-5% 1/10W
R216	61G0603101	CHIPR 1000HM +-5% 1/10W
R405	61G0603101	CHIPR 1000HM +-5% 1/10W
R406	61G0603101	CHIPR 1000HM +-5% 1/10W
R407	61G0603101	CHIPR 1000HM +-5% 1/10W
R408	61G0603101	CHIPR 1000HM +-5% 1/10W
R409	61G0603101	CHIPR 1000HM +-5% 1/10W
R410	61G0603101	CHIPR 1000HM +-5% 1/10W
R411	61G0603101	CHIPR 1000HM +-5% 1/10W
R103	61G0603103	CHIPR 10KOHM+-5% 1/10W
R124	61G0603103	CHIPR 10KOHM+-5% 1/10W
R510	61G0603103	CHIPR 10KOHM+-5% 1/10W
R512	61G0603103	CHIPR 10KOHM+-5% 1/10W
R515	61G0603103	CHIPR 10KOHM+-5% 1/10W
R210	61G0603106	RST CHIPR 10 MOHM +-5% 1
R414	61G0603181	RST CHIP 180R 1/10W 5%
R505	61G0603221	CHIPR 2200HM +-5% 1/10W
R213	61G0603222	CHIPR 2.2KOHM+-5% 1/10W
R214	61G0603222	CHIPR 2.2KOHM+-5% 1/10W
R412	61G0603391	RST CHIP 390R 1/10W 5%
R413	61G0603391	RST CHIP 390R 1/10W 5%
R101	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R102	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R104	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R105	61G0603472	CHIP 4.7KOHM +-5% 1/10W

R106	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R107	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R108	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R109	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R110	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R111	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R112	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R113	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R114	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R115	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R116	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R117	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R118	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R119	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R128	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R129	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R130	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R506	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R507	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R508	61G0603472	CHIP 4.7KOHM +-5% 1/10W
R123	61G0603682	CHIP 6.8K OHM 1/10W
R201	61G0603750	CHIPR 750HM+-5%1/10W
R202	61G0603750	CHIPR 750HM+-5%1/10W
R203	61G0603750	CHIPR 750HM+-5%1/10W
C104	65G0603100 31	CHIP 10PF 50V NPO
C105	65G0603100 31	CHIP 10PF 50V NPO
C201	65G0603100 31	CHIP 10PF 50V NPO
C202	65G0603100 31	CHIP 10PF 50V NPO
C203	65G0603100 31	CHIP 10PF 50V NPO
C213	65G0603100 31	CHIP 10PF 50V NPO
C214	65G0603100 31	CHIP 10PF 50V NPO
C103	65G0603104 12	MLCC
C216	65G0603104 12	MLCC
C401	65G0603104 12	MLCC
C403	65G0603104 12	MLCC
C405	65G0603104 12	MLCC
C406	65G0603104 12	MLCC
C408	65G0603104 12	MLCC
C409	65G0603104 12	MLCC
C410	65G0603104 12	MLCC

C411	65G0603104 12	MLCC
C412	65G0603104 12	MLCC
C413	65G0603104 12	MLCC
C414	65G0603104 12	MLCC
C415	65G0603104 12	MLCC
C507	65G0603104 12	MLCC
C210	65G0603104 32	CHIP 0.1UF 50V X7R
C211	65G0603104 32	CHIP 0.1UF 50V X7R
C212	65G0603104 32	CHIP 0.1UF 50V X7R
C417	65G0603104 32	CHIP 0.1UF 50V X7R
C503	65G0603104 32	CHIP 0.1UF 50V X7R
C504	65G0603104 32	CHIP 0.1UF 50V X7R
C509	65G0603104 32	CHIP 0.1UF 50V X7R
C510	65G0603104 32	CHIP 0.1UF 50V X7R
C513	65G0603104 32	CHIP 0.1UF 50V X7R
C514	65G0603104 32	CHIP 0.1UF 50V X7R
C516	65G0603104 32	CHIP 0.1UF 50V X7R
C518	65G0603104 32	CHIP 0.1UF 50V X7R
C519	65G0603104 32	CHIP 0.1UF 50V X7R
C521	65G0603104 32	CHIP 0.1UF 50V X7R
C522	65G0603104 32	CHIP 0.1UF 50V X7R
C106	65G0603224 22	CHIP 0.22uF 25V X7R
C204	65G0603473 32	CHIP 47NF 50V X7R
C205	65G0603473 32	CHIP 47NF 50V X7R
C206	65G0603473 32	CHIP 47NF 50V X7R
C207	65G0603473 32	CHIP 47NF 50V X7R
C208	65G0603473 32	CHIP 47NF 50V X7R
C209	65G0603473 32	CHIP 47NF 50V X7R
C511	65G0805105 22	CHIP 1UF 25V X7R 0805
FB401	71G 56K121 M GP	CHIP BEAD 120OHM T
L401	71G 56Z601	2.0X1.2 100M=600OHM
L402	71G 56Z601	2.0X1.2 100M=600OHM
FB201	71G 59C300	0.8X1.6 100M=300OHM
FB202	71G 59C300	0.8X1.6 100M=300OHM
FB203	71G 59C300	0.8X1.6 100M=300OHM
FB204	71G 59C300	0.8X1.6 100M=300OHM
FB101	71G 59C600	CHIP BEAD 60 OHM 1608 BU
L502	73G M5615110H	SMD CHOKE
D204	93G 64 42 P	BAV70 DIODE
D101	93G 6432P	LL4148 MINI-MELF/LL-34

D102	93G 6432P	LL4148 MINI-MELF/LL-34
D201	93G 6433P	BAV99 SOT-23
D202	93G 6433P	BAV99 SOT-23
D203	93G 6433P	BAV99 SOT-23
ZD202	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD203	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD204	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD205	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD206	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD207	93G 39S 34 T	ZENER DIODE UDZS5.6B
ZD208	93G 39S 34 T	ZENER DIODE UDZS5.6B
D503	93G3004 2	SR34 DO-214AA
	715G2417 D	MAIN PCB
CN802	33G8021 2T U	SMT 2PIN 3.5MM
CN801	33G8036 5A H	CONNECTOR
IC801	56G 608501	MP1010B
R801	61G0603103	CHIPR 10KOHM+-5% 1/10W
R803	61G0603103	CHIPR 10KOHM+-5% 1/10W
R804	61G0603104	CHIPR 100KOHM +-5% 1/10W
R806	61G0603104	CHIPR 100KOHM +-5% 1/10W
R811	61G0603120 0F	RST CHIPR 120 OHM +-1% 1
R802	61G0603120 2F	RST CHIP 12K 1/10W 1%
R809	61G0603202	RST CHIP 2K 1/10W 5%
R807	61G0603304	RST CHIPR 300 KOHM +-5%
R810	61G0603304	RST CHIPR 300 KOHM +-5%
R805	61G0603511	CHIPR 510OHM+-5%1/10W
R808	61G0805102	CHIPR 1K OHM +-5% 1/10W
F801	61G1206000	CHIP resistors 1/3W
C804	65G0603103 12	CHIP 0.01UF 16V X7R
C807	65G0603103 12	CHIP 0.01UF 16V X7R
C808	65G0603103 12	CHIP 0.01UF 16V X7R
C810	65G0603103 22	0.01UF 25V
C803	65G0603104 22	CAP: CER 0.1UF 10% 25V
C805	65G0603104 22	CAP: CER 0.1UF 10% 25V
C815	65G0603104 22	CAP: CER 0.1UF 10% 25V
C811	65G0603105 22	1UF 25V X7R
C812	65G0603152 22	CHIP 1.5NF 25V X7R
C817	65G0603472 32	CHIP 4700PF 50V X7R
C818	65G0603474 22	CHIP 0.47UF 25V X7R
C814	65G0603823 22	CHIP 0.082UF 25V X7R

C806	65G0805105 22	CHIP 1UF 25V X7R 0805
C809	65G0805105 22	CHIP 1UF 25V X7R 0805
C813	65G1206225 22	2. 2UF 25V X7R 1206
C801	65G1206475 22	CHIP 4. 7UF 25V X7R 1206
C802	65G1206475 22	CHIP 4. 7UF 25V X7R 1206
C816	65G1808100C1W	SMT 10PF 3KV
C819	65G1808820C1W	SMT 82PF 3KV
PT801	80GL15T504 DN	X' FMR
	715G2297 1	INVERTER PCB
	KEPC6JB1	KEPC BOARD
SW1	77G 604 2 CJ	TACT SWITCH
SW2	77G 604 2 CJ	TACT SWITCH
SW3	77G 604 2 CJ	TACT SWITCH
SW4	77G 604 2 CJ	TACT SWITCH
SW5	77G 604 2 CJ	TACT SWITCH
LED1	81G 14501 GP	LED GPTD1210YGC3-HB
	715G2416 1	KEPC PCB
CN101	33G8036 8A H	WAFE