

SERVICE MANUAL

19" LCD MONITOR

MM19S



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Revision List

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1. Monitor Specifications

Items	Description	
LCD Panel	Driving system	TFT Color LCD
	Type	HSD190ME13
	Size	48.0cm(19.0")
	Pixel pitch	0.294mm (H) x 0.294mm (V)
	Viewable angle	160(H) 160(V)(CR>5)
	Response time	8 ms
Input	Sync. Type	H/V TTL
	Input Signal	15Pin Analog
	H-Frequency	30kHz – 80kHz
	V-Frequency	55-75Hz
Power Consumption	ON Mode	<55W
	OFF Mode	<2W
Display Color	16.2M (6-bits+FRC)	
Contrast Ratio	700:1	
Dot Clock	135MHz	
White Luminance	300cd/m ²	
Max. Resolution	1280 x1024	
Plug & Play	VESA DDC2B™	
Power Source	100~240VAC,47~63Hz	
Maximum Screen Size	Horizontal : 376.32mm Vertical: 301.056mm	
Environmental Conditions	Operating Temp: 0°C to 35°C Storage Temp: -20°C to 60°C Operating Humidity: 45% to 85%	

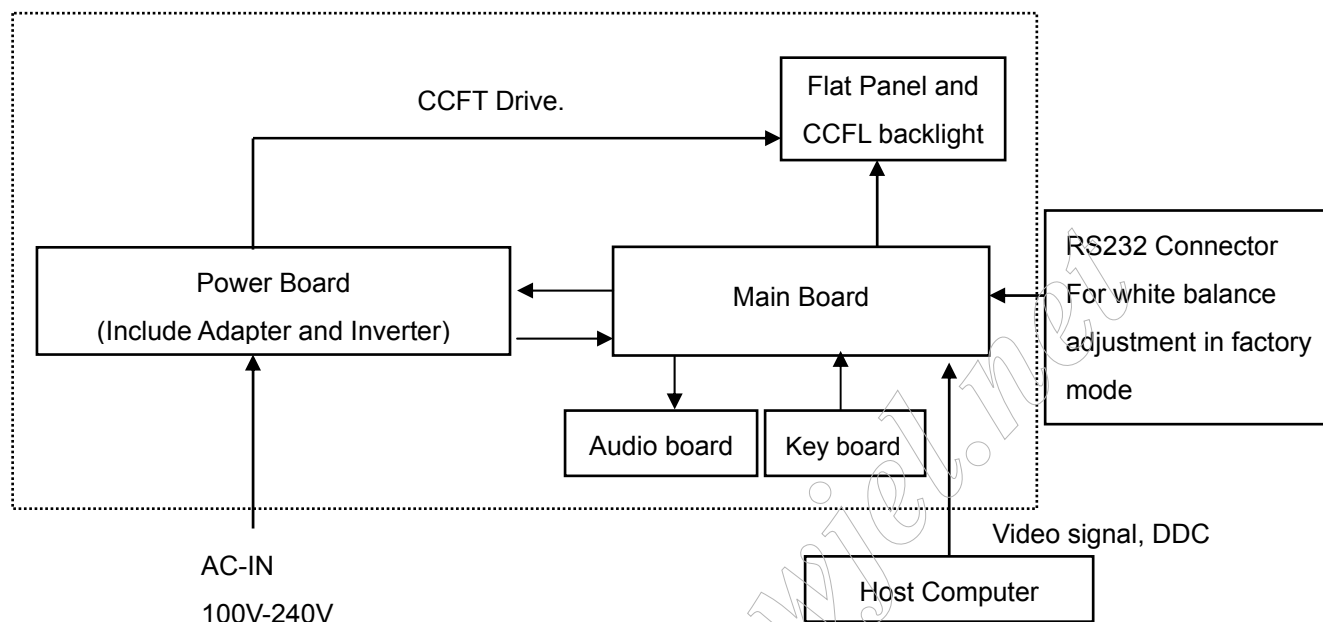
2. LCD Monitor Description

The LCD monitor will contain a main board, a power board, a keypad board and an audio board which house the flat

panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

Monitor Block Diagram



3. Operating Instructions

3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located in 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

- Power Button:

When pressed, the monitor enters the off mode, and the LED turns blank. Press again to restore normal status.

- Left / Right Button:

The Left/Right Button is used to control the monitor functions. Press to switch functions or adjust settings.

- Auto Adjust Key:

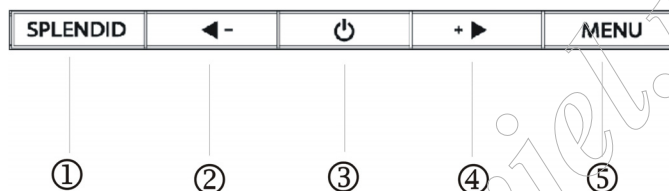
The Auto Adjust Key is used to automatically set the H Position, V Position, Clock and Phase.

- Power Indicator:

Blue — Power On mode.

Amber — Power Saving mode.

Dark —Power Off Mode.



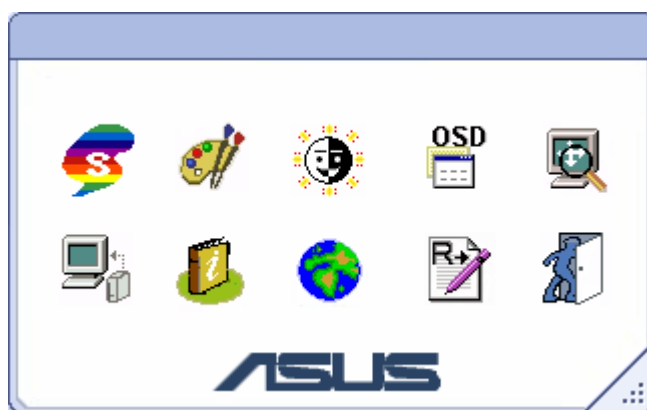
NO.	Name	Within OSD	Without OSD
①	Splendid Button	Exit OSD or back to previous menu	1. Activate Scenario selection menu. 2. Automatically adjust the image to its optimized position, clock, and phase by pressing the button for 2 seconds.
②	- / ◀ Button	Decrease the level of the function select or move to the previous function.	Activate Volume adjustment menu
③	Power Button	Switch the LCD monitor on or off. Blue: normal operation mode. Amber: power saving mode. Dark: power off mode	Switch the LCD monitor on or off. Blue: normal operation mode. Amber: power saving mode. Dark: power off mode
④	+ / ▶ Button	Increase the level of the function select or move to the next function.	Activate Brightness adjustment menu.
⑤	Menu Button	Enter/select the icon highlighted.	Activate the OSD main menu.

3.3 Adjusting The Picture

Adjustment steps:





















1. Press the MENU-button to activate the OSD window.
2. Press < or > to select the desired function.
3. Press the MENU-button to select the function that you want to adjust.

4. Press < or > to change the settings of the current function.
5. To exit and save, select the exit function, or leave the monitor alone for 10 seconds. If you want to adjust any other function, repeat steps 2-4.



OSD TABLE:

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description		
Scenario		Scenery Mode		Advance for scenery use with Splendid™ Video Enhancement		
		Text Mode		Advance for generic Windows use (Splendid™ Off)		
		Theater Mode		Advance for movie use with Splendid™ Video Enhancement		
		Game Mode		Advance for game use with Splendid™ Video Enhancement		
		Night Mode		Advance for dark-display use with Splendid™ Video Enhancement		
Color		RGB		R		Adjust red gain
				G		Adjust green gain
				B		Adjust blue gain
		Skin Tone		Reddish		Select reddish skin tone
				Natural		Select natural skin tone
				Yellowish		Select yellowish skin tone
		Color Temperature		Cool		The image appears bluer. (9300° K)
				Normal		Normal image color. (7500° K)

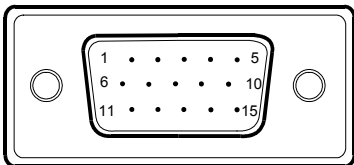
				Warm		The image appears redder. (6500° K)
Luminance		Brightness		Adjust the brightness level		
		Contrast		Adjust the contrast level		
OSD Setup		H-Position		Adjust the horizontal position of the OSD		
		V-Position		Adjust the vertical position of the OSD		
		OSD Timeout		Adjust the OSD timeout		
Image Setup		Focus		Phase		Adjust the image Phase to reduce Horizontal-line noise of the image
				Clock		Adjust the image Clock to reduce Vertical-line noise of the image
		Image Position		H-Position		Adjust the horizontal position of the image
				V-Position		Adjust the vertical position of the image
		Auto		Auto adjust the horizontal/vertical positions, phase and clock of the image		
Information		Show the resolution, H/V frequency and input port of current input timing				
Language		Select the language you like				
Reset		Recall factory setting				
Exit		Exit OSD				

4. Input/Output Specification

4.1 Input Signal Connector

Analog Connector

Pin No.	Description	Pin No.	Description
1.	Red	9.	+5V
2.	Green	10.	Logic Ground
3.	Blue	11.	Monitor Ground

4.	Monitor Ground	12.	DDC-Serial Data
5.	DDC-Return	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		
VGA connector layout			
			

4.2 Power Supply Requirement

A/C Line voltage range	: 100 V ~ 240 V
A/C Line frequency range	: 50 ± 3Hz, 60 ± 3Hz
Input Current	: 1.5A max at 100V; 0.8A max at 240 V
Peak surge current	: < 60A peak at 240 VAC and cold starting < 30A peak at 120VAC 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

4.3 Factory Preset Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)

VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
	1024x768@72Hz	1304x798	57.7	P	72	P	78.4
SXGA	1152x864@75Hz	1600x900	67.5	P	75	P	108
	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
	1280x1024@75Hz	1688x1066	79.976	P	75.025	P	135.000
	1280x960@60Hz	1800x1000	60	P	60	P	108
	1280x1024@70Hz		74.4	P	70	P	124.9
	1280x1024@72Hz		77.9	P	72	P	134.6
IBM MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
DOS*	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175
MAC MODES							
VGA	640x480@67Hz	864x525	35.000	N	66.667	N	30.240
SVGA	832x624@75Hz	1152x667	49.725	N	74.551	N	57.2832

4.4 Panel Specification

4.4.1 General Description

- 19" SXGA TFT LCD Panel
- 4 CCFLs Backlight System
- Supported SXGA (V:1024 lines, H:1280 pixels) Resolution
- Supported to 75Hz Refresh Rate
- LCD Timing Controller

- RoHS Compliance
- VESA Compatible

4.4.2 Display Characteristics

Item	Specification		Unit
Outline dimension	396*324 *17.5(Typ)		mm
Display area	376.32 (H) x301.056 (V) (19.0" diagonal)		mm
Number of Pixel	1280(H) x 1024(V)		Pixels
Pixel pitch	0.294(H) x 0.294(V)		mm
Pixel arrangement	RGB Vertical Stripe		
Display color	16.2M (6-bits+FRC)		
Display mode	Normally white		
Surface treatment	Antiglare, Hard-Coating(3H)		
Weight	2600g(Typ.)		g
Back-light	4-CCFLs, Top & bottom edge side		
Input signal	2-ch LVDS		
Power consumption	System	3.05	W
	B/L	20	
Optimum viewing direction	6 o'clock		

4.4.3 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast		CR	$\Theta=0^{\circ}$ $\phi=0^{\circ}$ Normal viewing angle	450	700	--		(1)(2)
Response time	Rising	TR +TF		--	2	4	msec	(1)(3)
	Falling			--	6	8		
White luminance (center of screen)		Y_L		240	300	--	cd/m ²	(1)(4) (IL=7.5mA)
Color chromaticity (CIE1931)	Red	R _x		0.614	0.644	0.674		(1)(4)
		R _y		0.298	0.328	0.358		
	Green	G _x		0.260	0.290	0.320		
		G _y		0.584	0.614	0.644		
	Blue	B _x		0.112	0.142	0.172		
		B _y		0.049	0.079	0.109		
	White	W _x	0.280	0.310	0.340			
		W _y	0.300	0.330	0.360			
Viewing angle	Hor.	Θ_L	CR>10	65	75	--		
		Θ_R		65	75	--		
	Ver.	Θ_H		60	70	--		
		Θ_L		55	65	--		
Viewing angle	Hor.	Θ_L	CR>5	--	80	--		
		Θ_R		--	80	--		
	Ver.	Θ_H		--	80	--		
		Θ_L		--	80	--		
Brightness uniformity		B _{UNI}	$\Theta=0^{\circ}$ $\phi=0^{\circ}$	75	--	--	%	(6)

4.4.4 Electrical Characteristics

1. TFT LCD Module

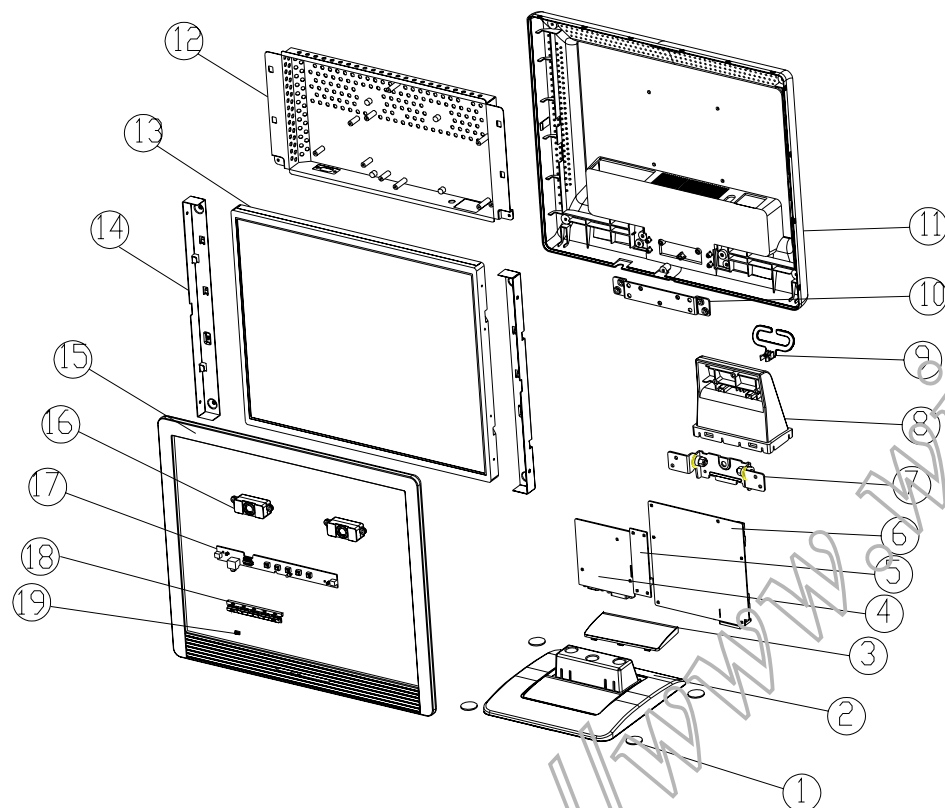
Item		Symbol	Min.	Typ.	Max.	Unit	Note
Voltage of power supply		V _{DD}	4.5	5.0	5.5	V	
Current of power supply	White	I _{DD0}	430	530	630	mA	(1)
	V-Color	I _{DD1}	510	610	710	mA	(1)
	Mosaic	I _{DD2}	660	760	860	mA	(1)
Vsync frequency		f _V	56	60	76	Hz	(2)
Hsync frequency		f _H	64	64	80	KHz	
Frequency		f _{DCLK}	50	54	67.5	MHz	
Input rush current		I _{RUSH}	--	--	3.0	A	(3)

2. Backlight Unit

Item	Symbol	Min.	Typ.	Max.	Unit	Note
Lamp current	IL	3.0	7.5	9.0	mA(rms)	(1)
Lamp voltage	VL	603	670	737	V(rms)	$I_L=7.5mA$
Frequency	fL	40	50	80	KHz	(2)
Operating Lifetime	Hr	50,000	--	--	Hour	6.5mA(3)
	Hr	40,000	--	50,000	Hour	7.5mA(3)
Startup voltage	Vs	1595	--	--	V(rms)	at 25°C
		1870				at 0°C

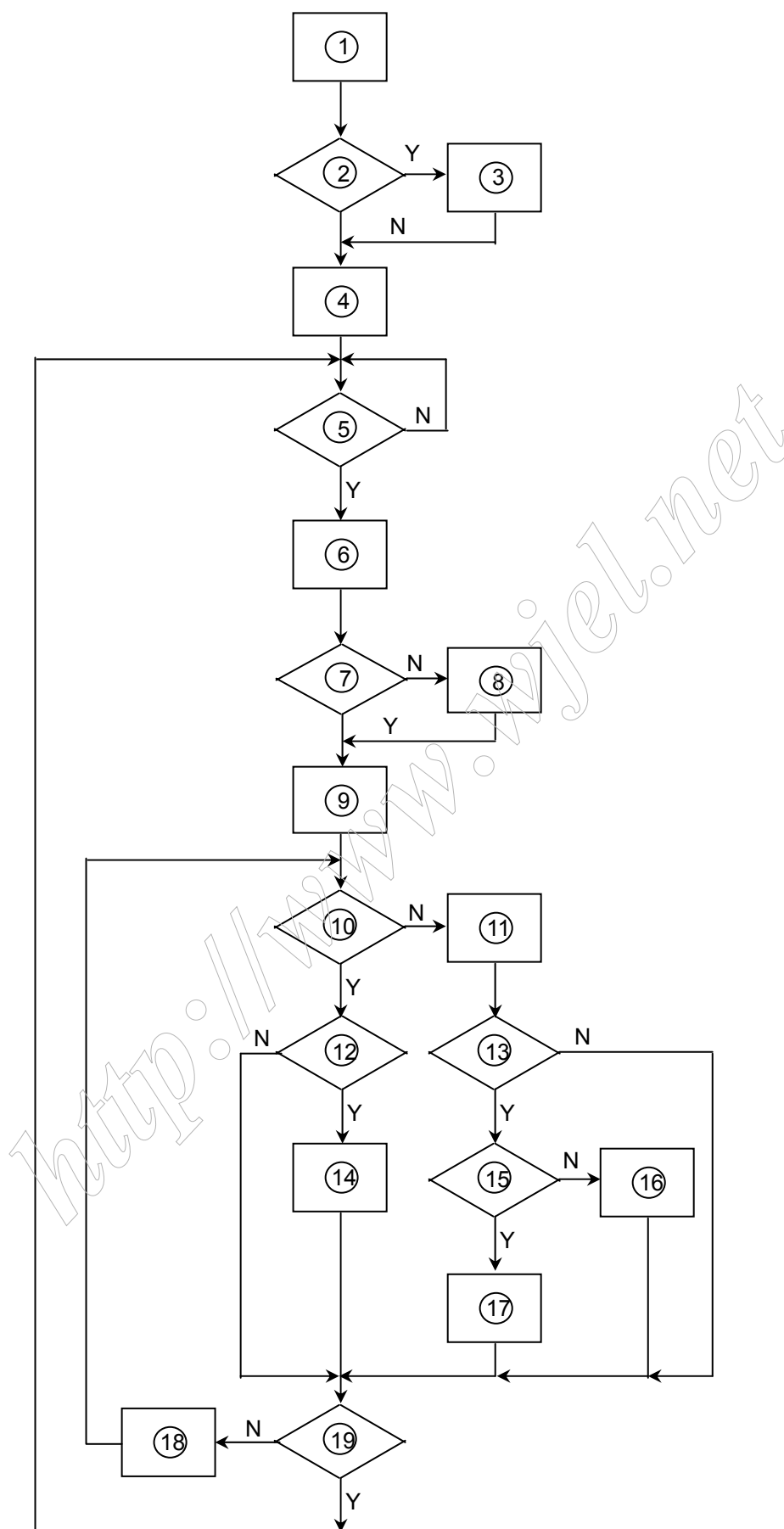
5. Block Diagram

5.1 Monitor Exploded View



ITEM	NAME	TYPE
1	RUBBER FOOT	PART
2	BASE DOWN	PART
3	BASE UP	PART
4	MAIN BOARD	ASSEMBLE
5	AUDIO BOARD	ASSEMBLE
6	POWER BOARD	ASSEMBLE
7	HINGE	PART
8	STAND	PART
9	CLAMP	PART
10	HINGE BKT	PART
11	REARCOVER	PART
12	SHIELDING	PART
13	PANEL	PART
14	PANEL BKT	PART
15	BEZEL	PART
16	SPEAKER	PART
17	KEY BOARD	ASSEMBLE
18	KEY PAD	PART
19	LENS	PART

5.2 Software Flowing Chart

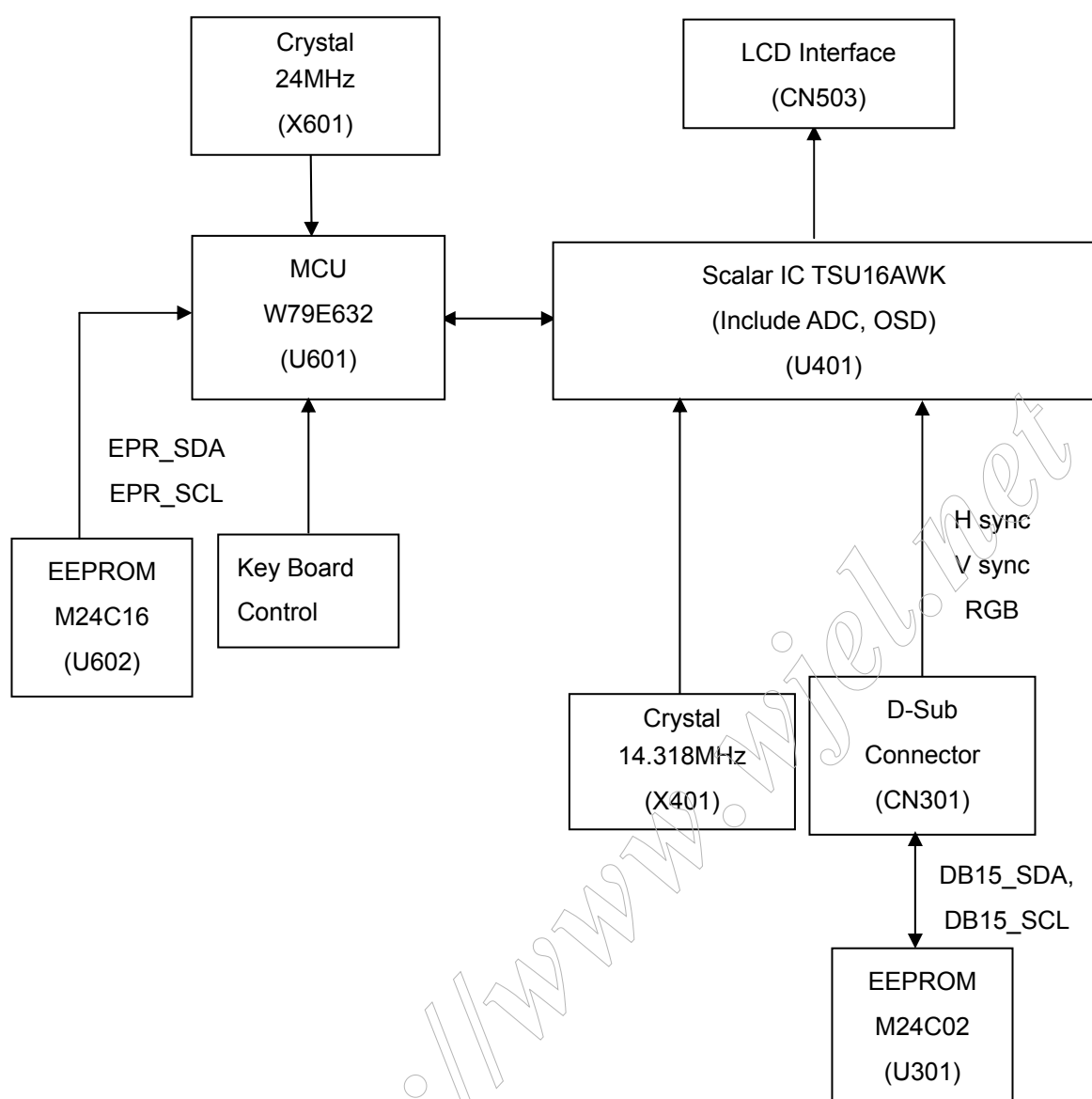


REMARK:

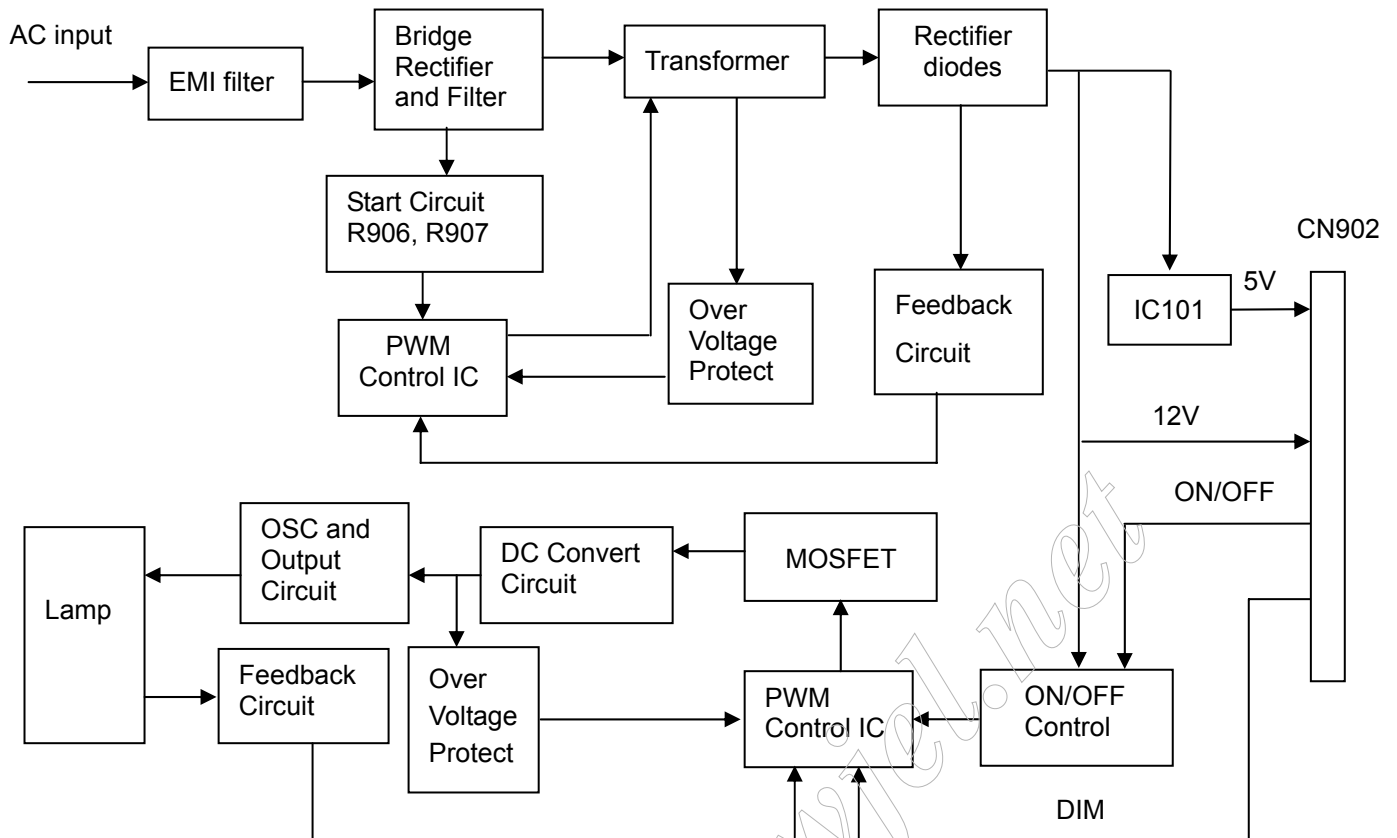
1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom. Turn on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

5.3 Electrical Block Diagram

5.3.1 Main Board



5.3.2 Inverter/Power Board



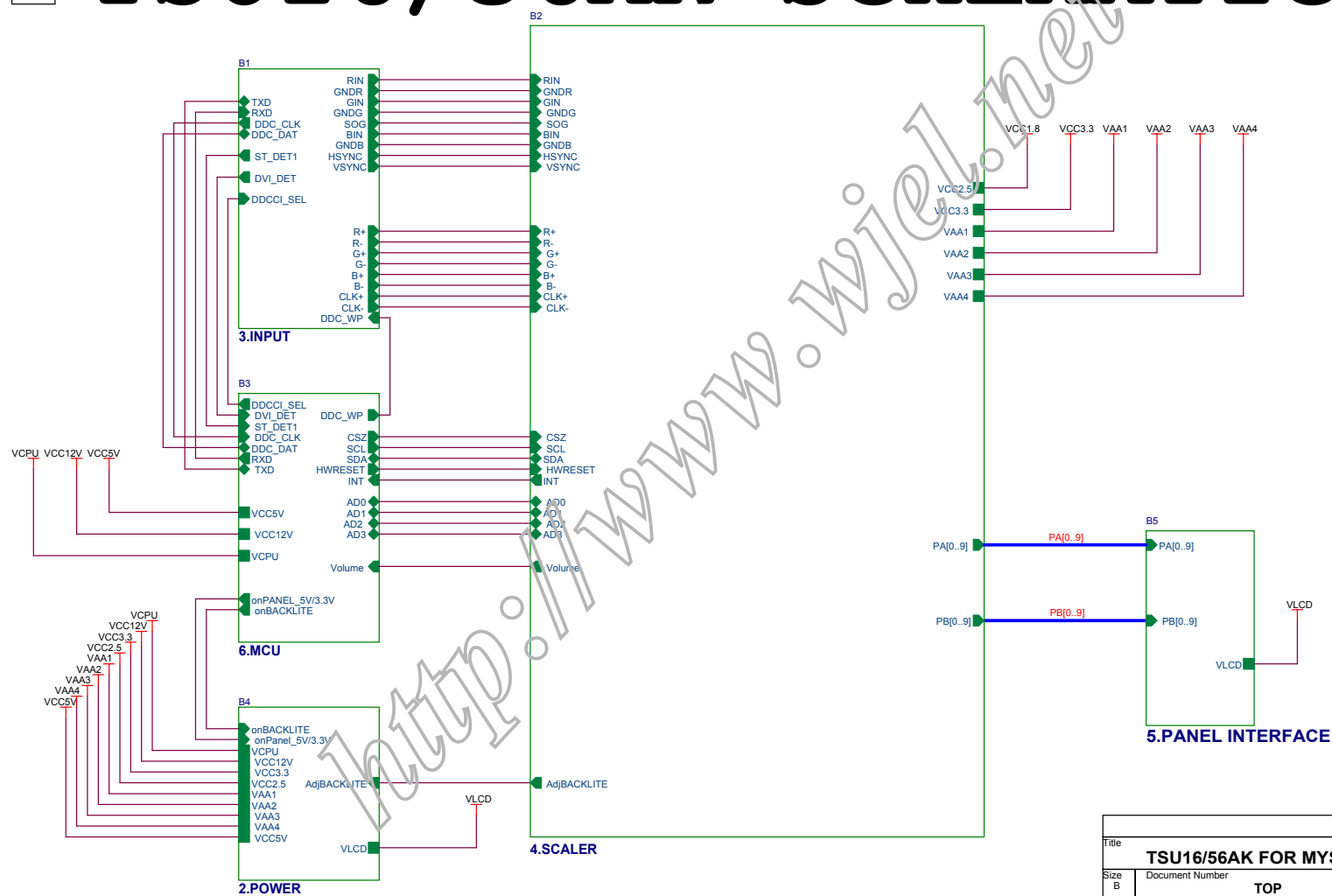
6. Schematic

6.1 Main Board

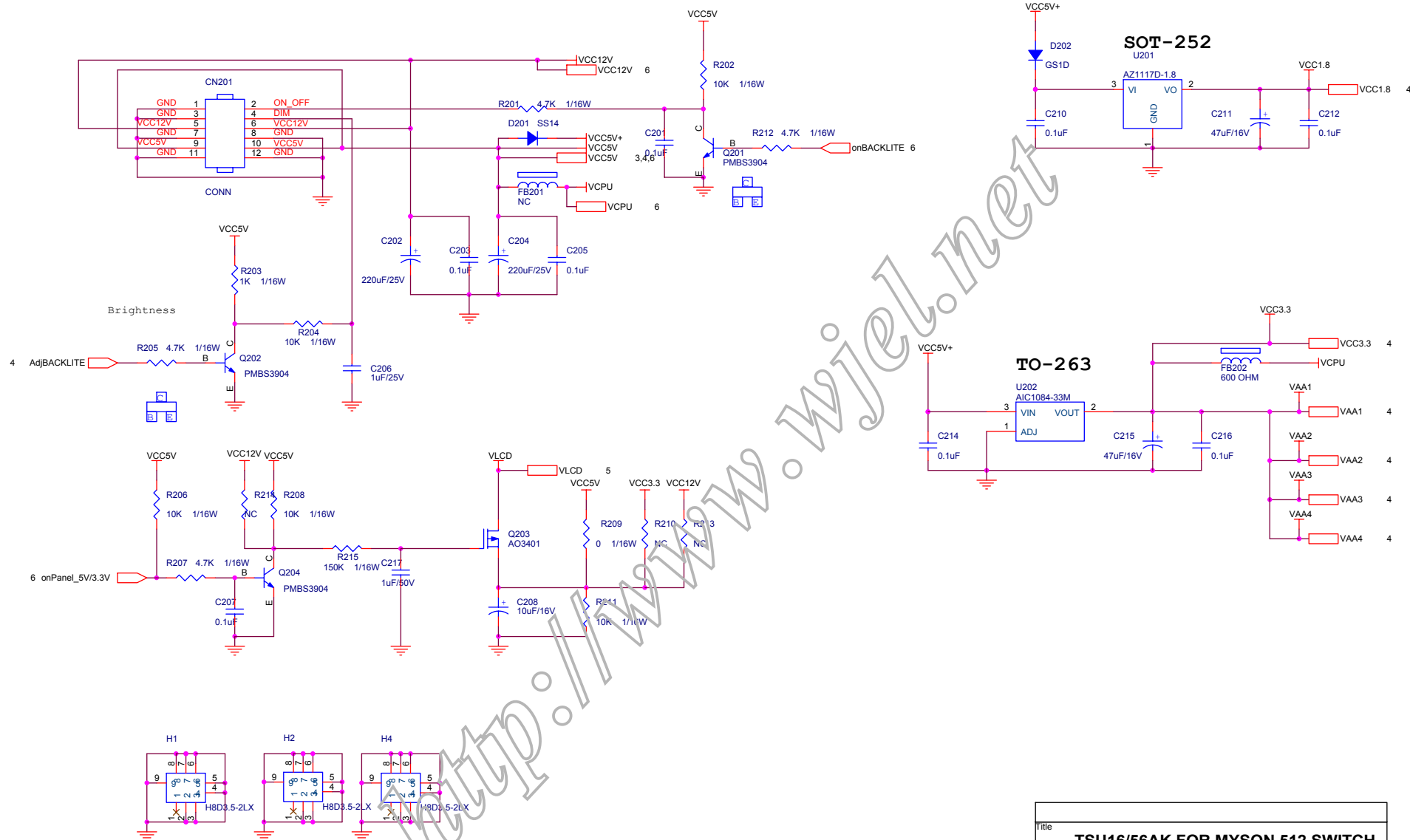
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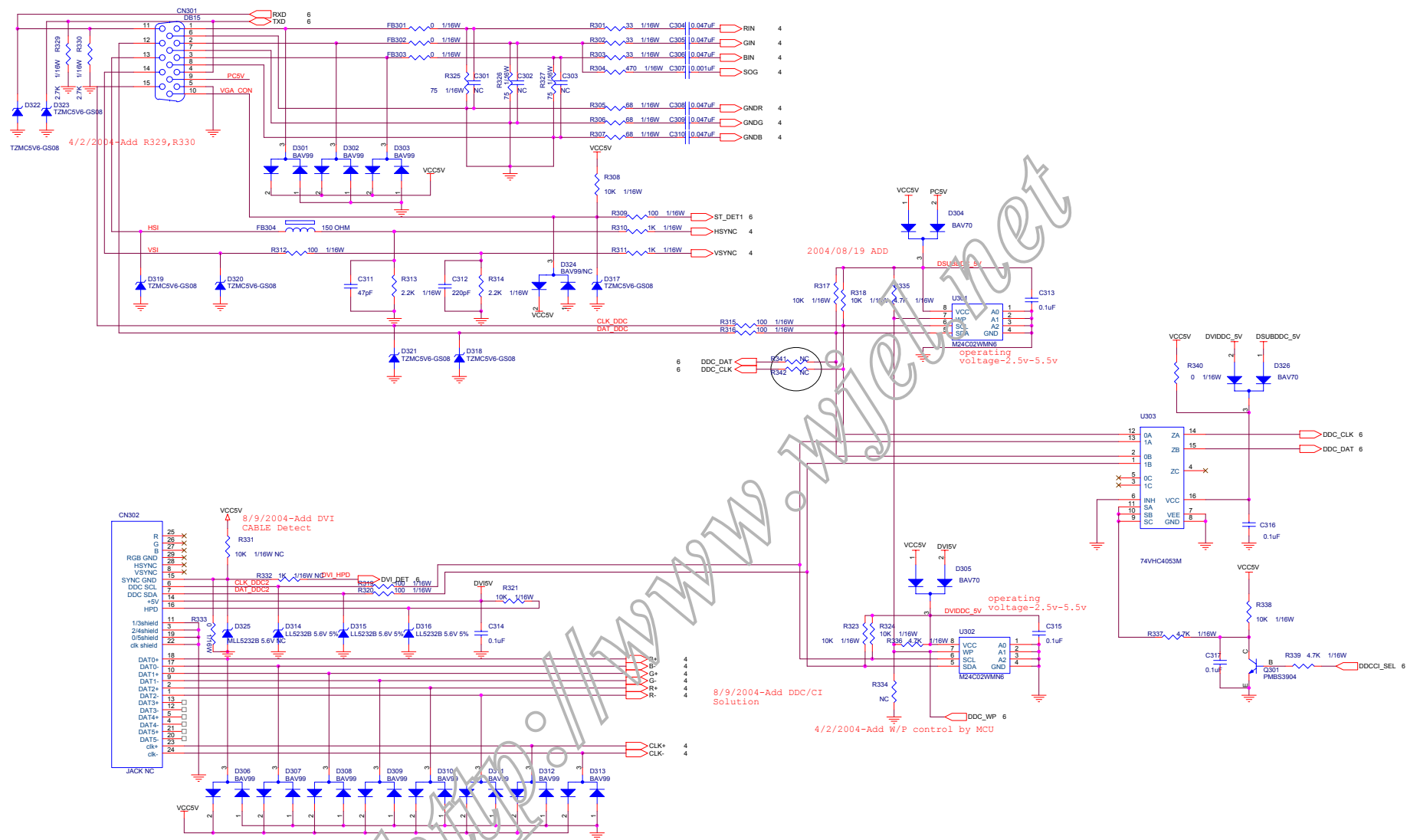
TSU16/56AK SCHEMATIC



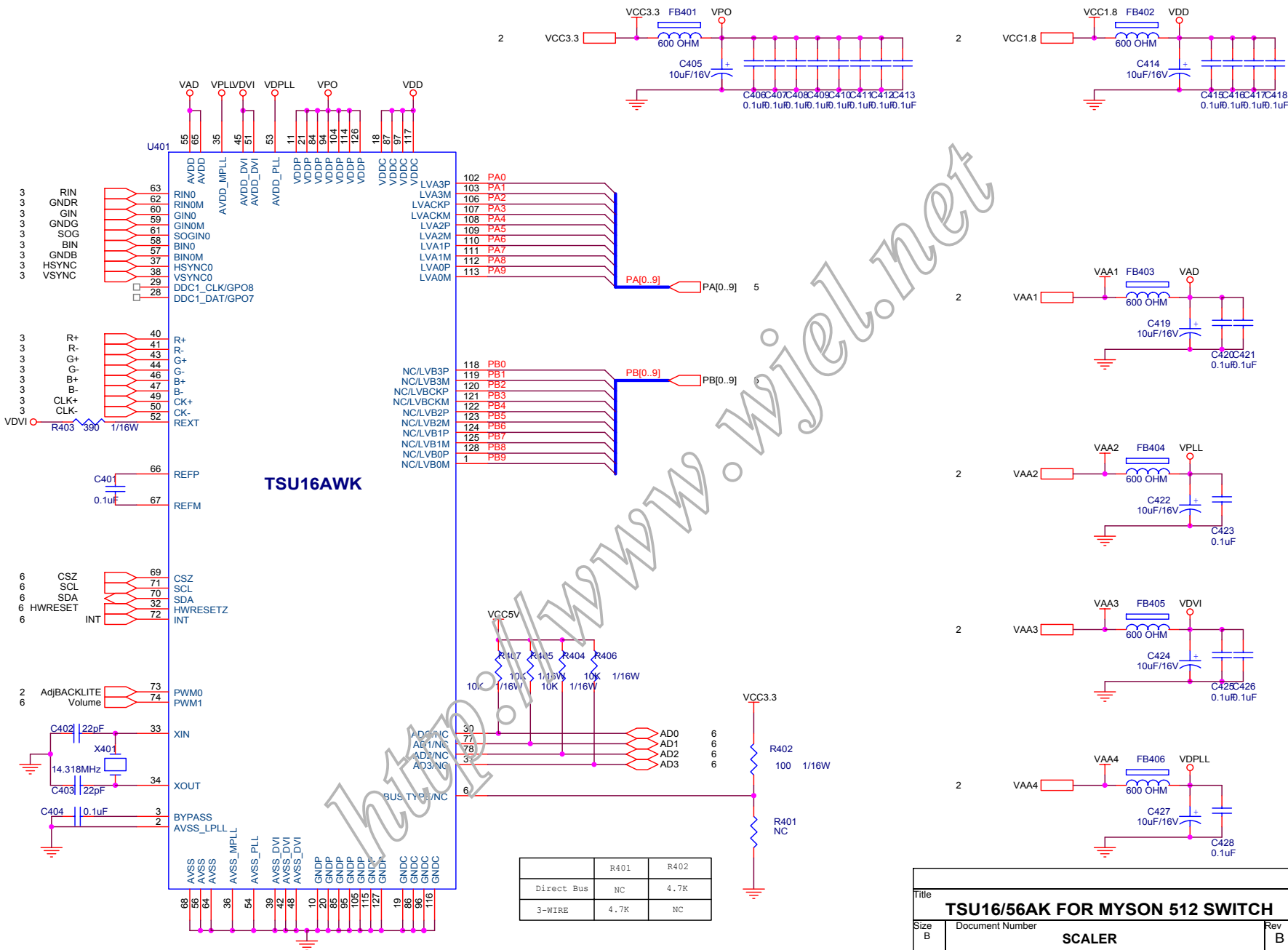
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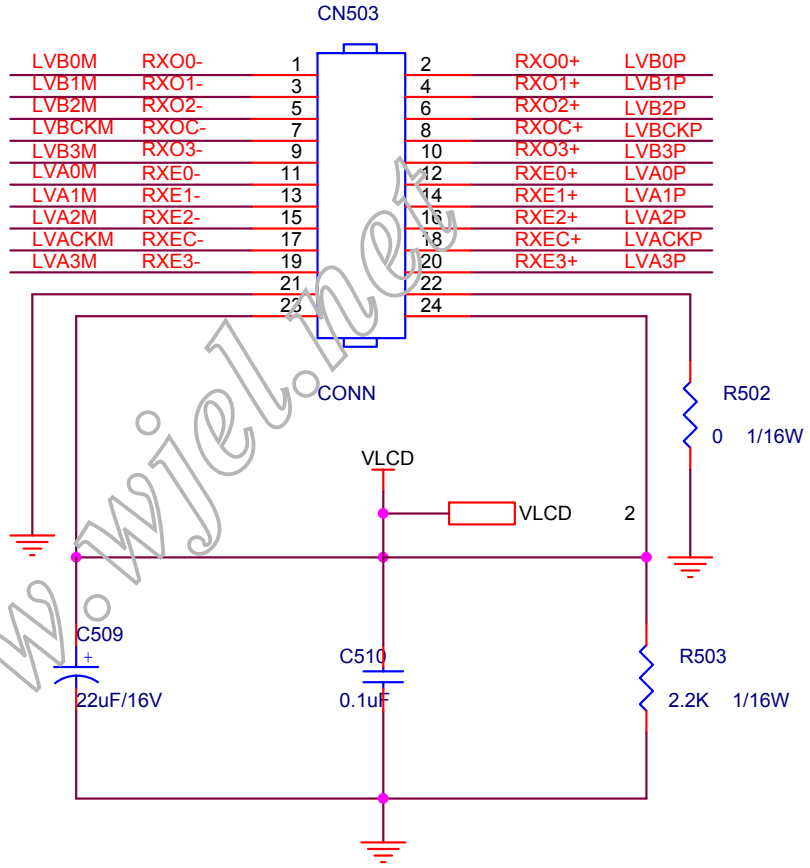
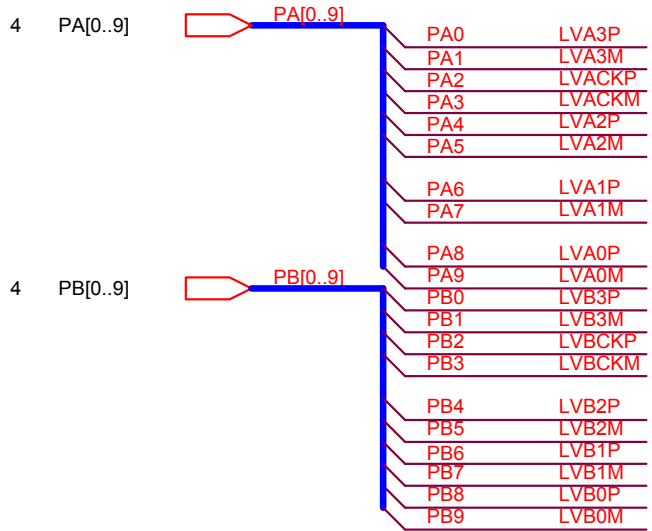


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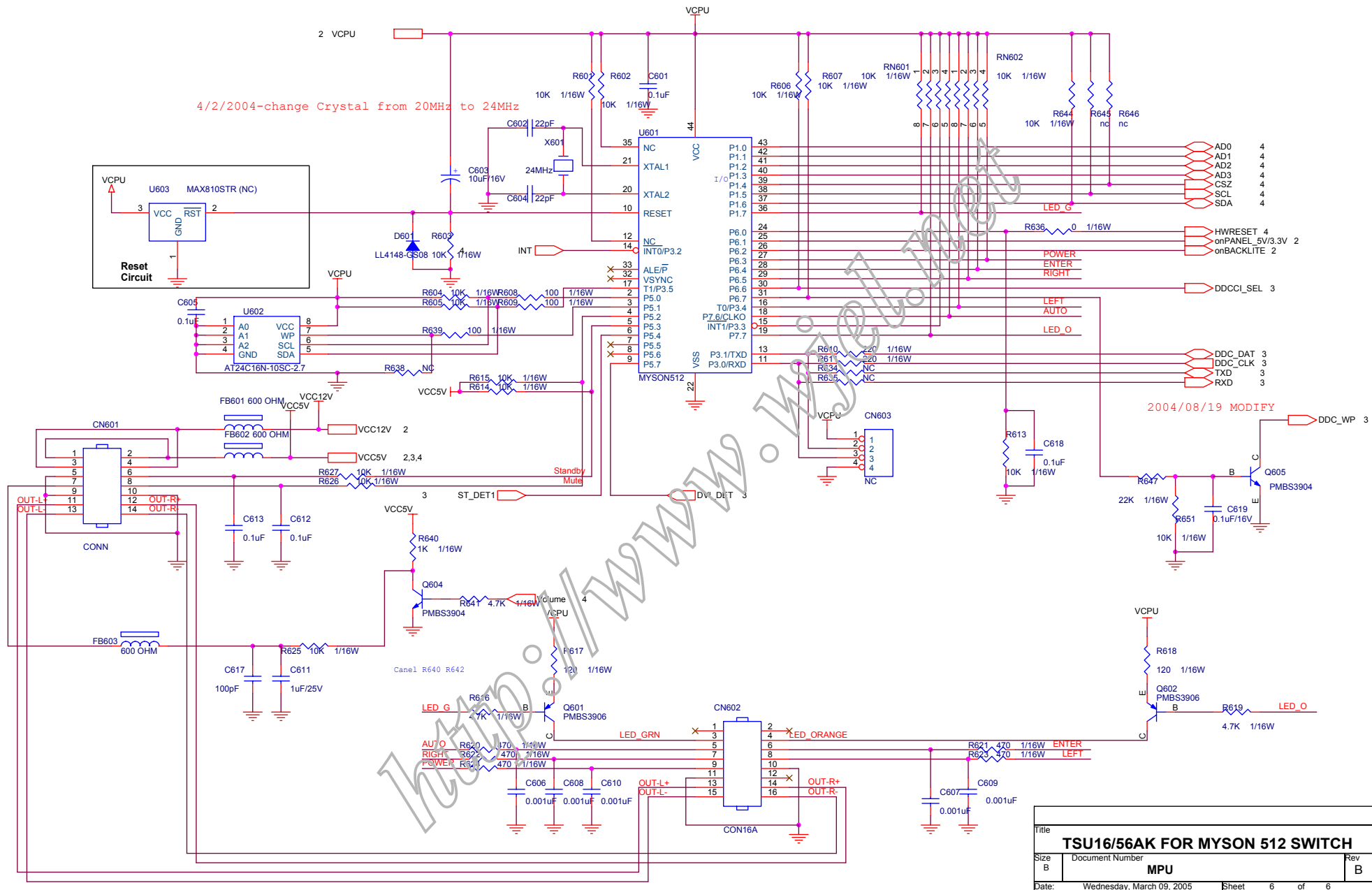


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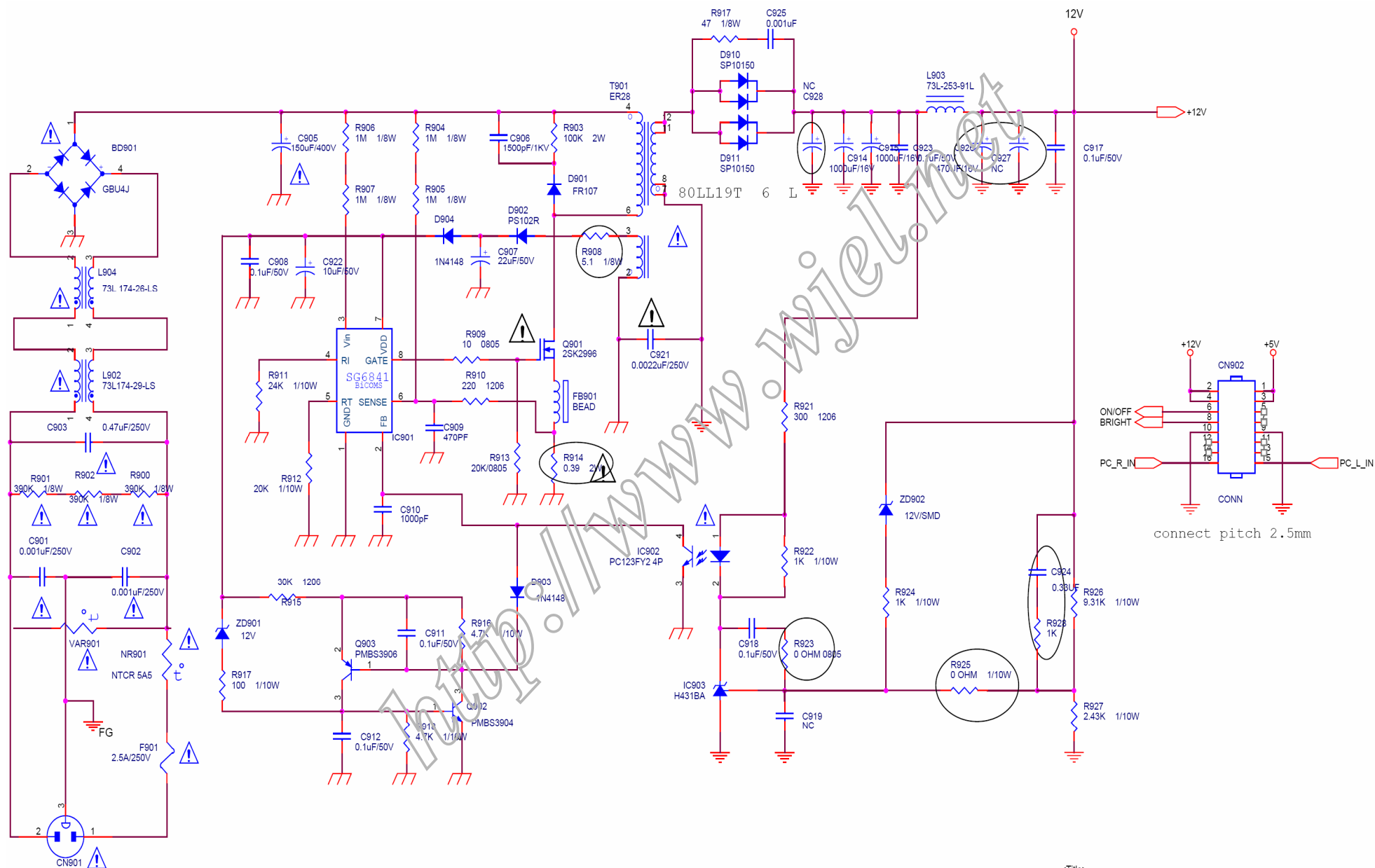


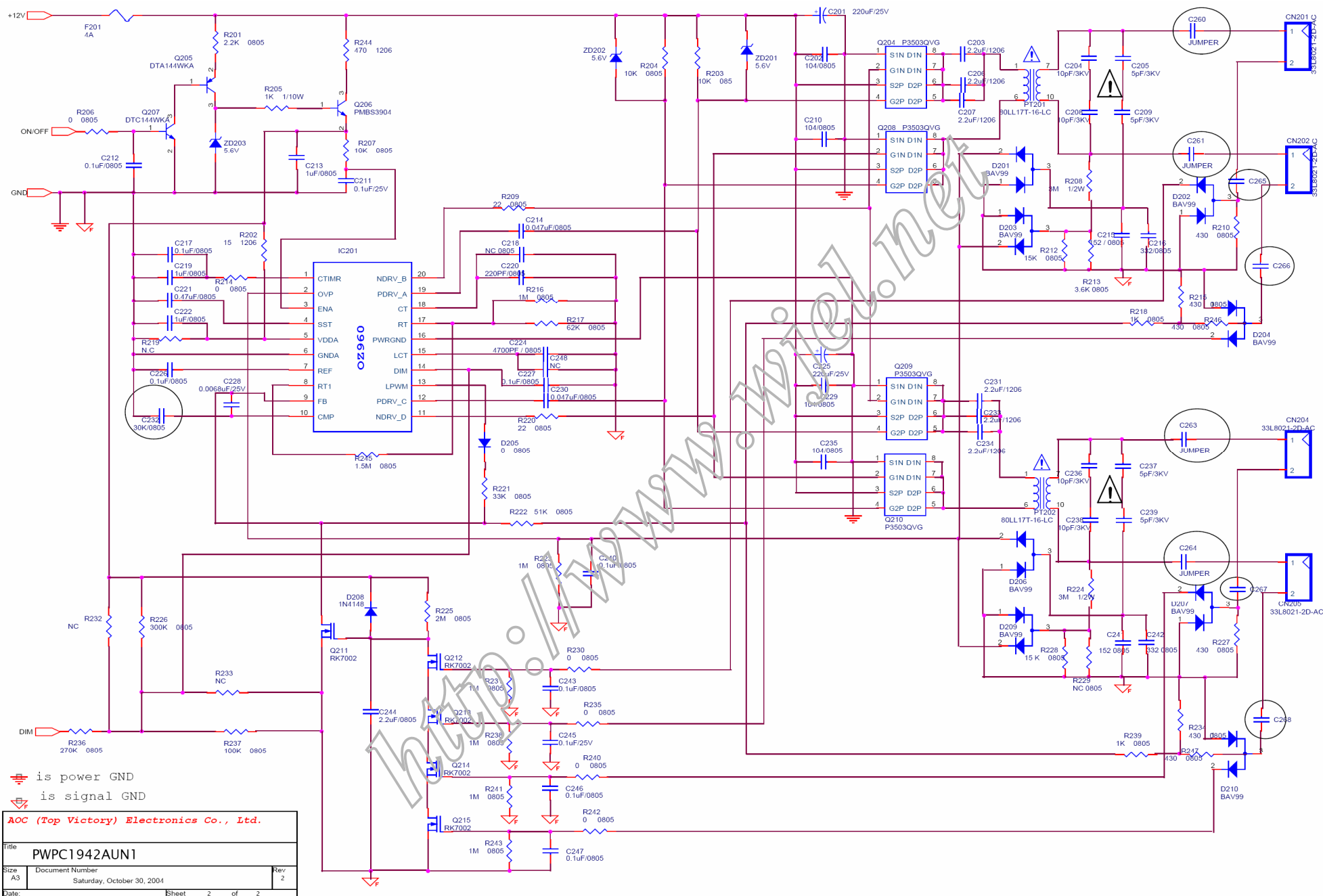
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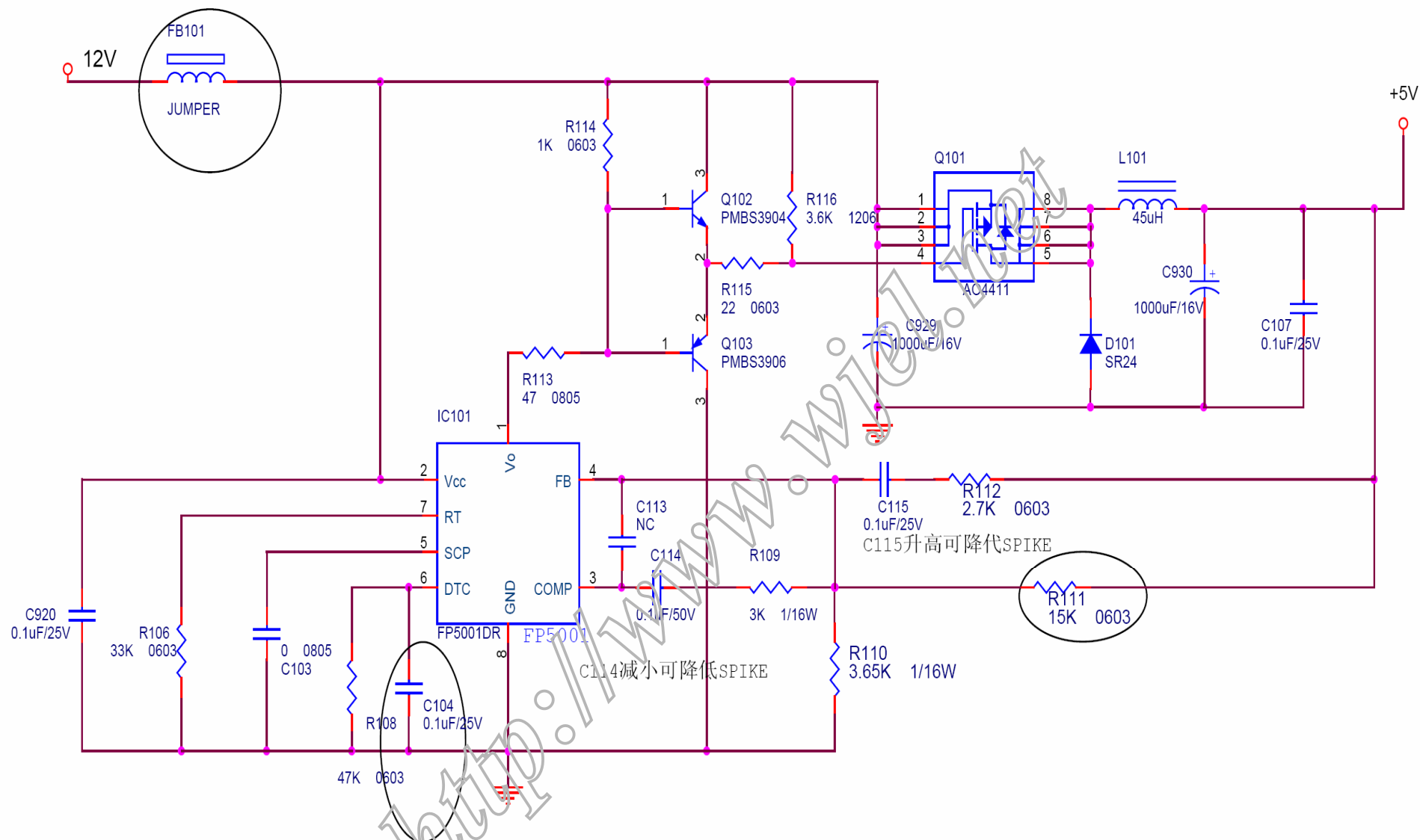


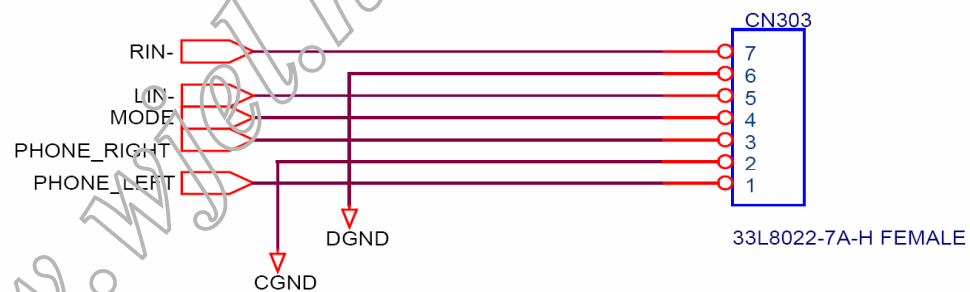
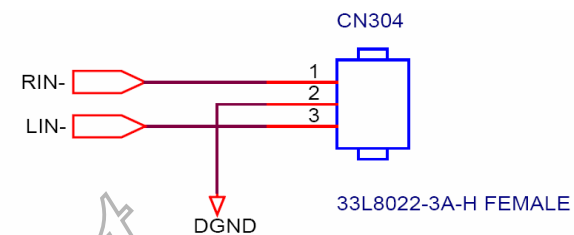
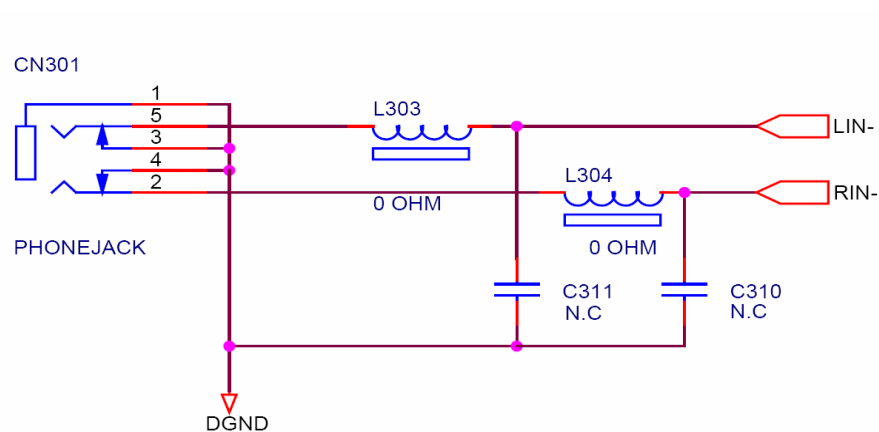
6.2 Power Board

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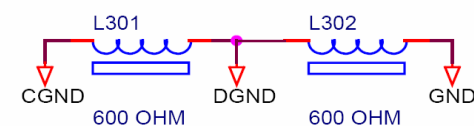
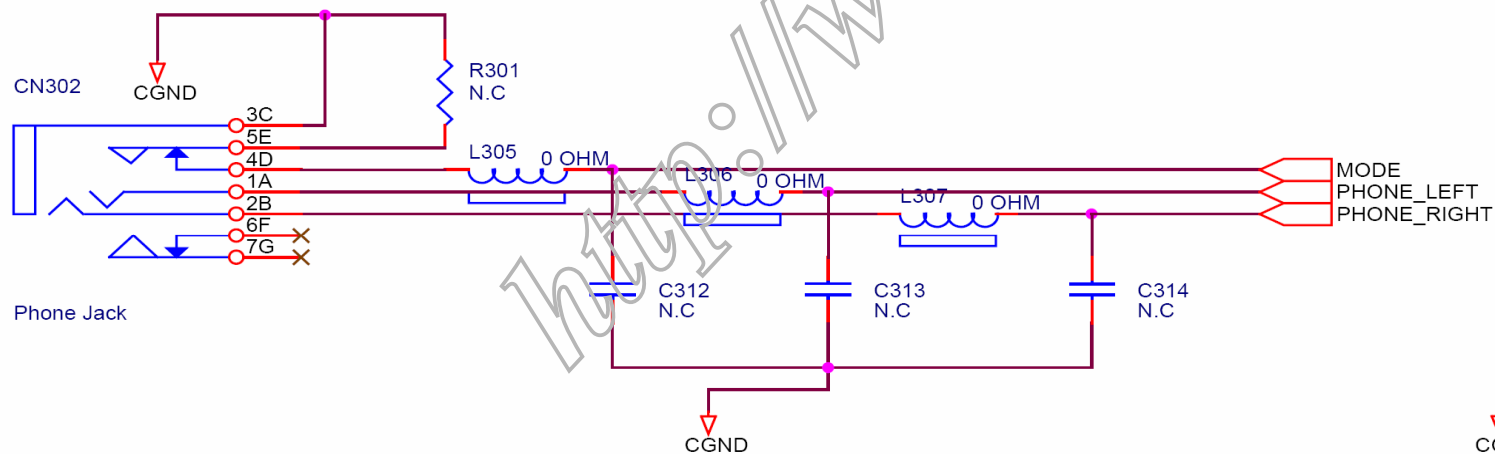






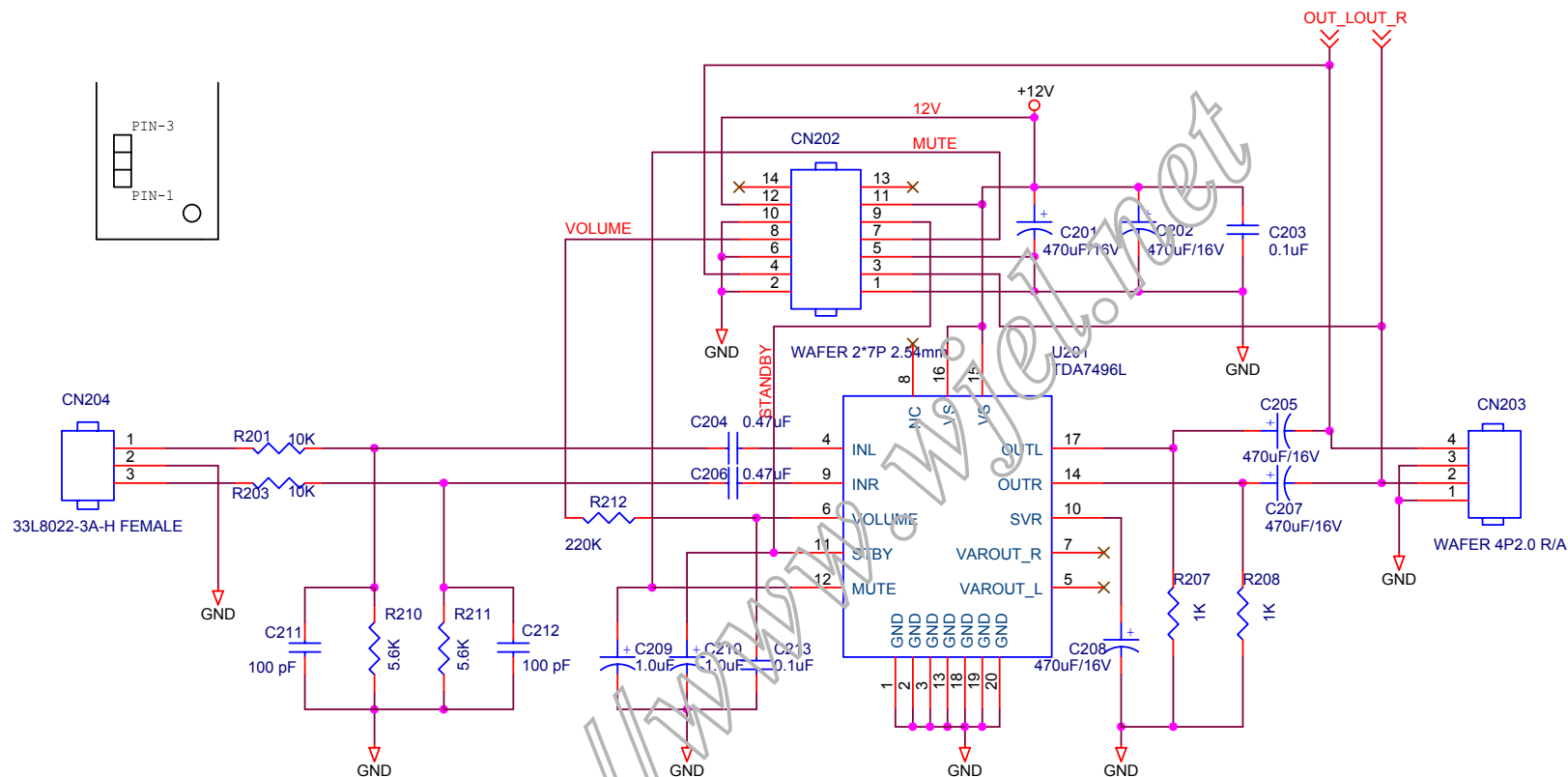
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6.3 Audio Board

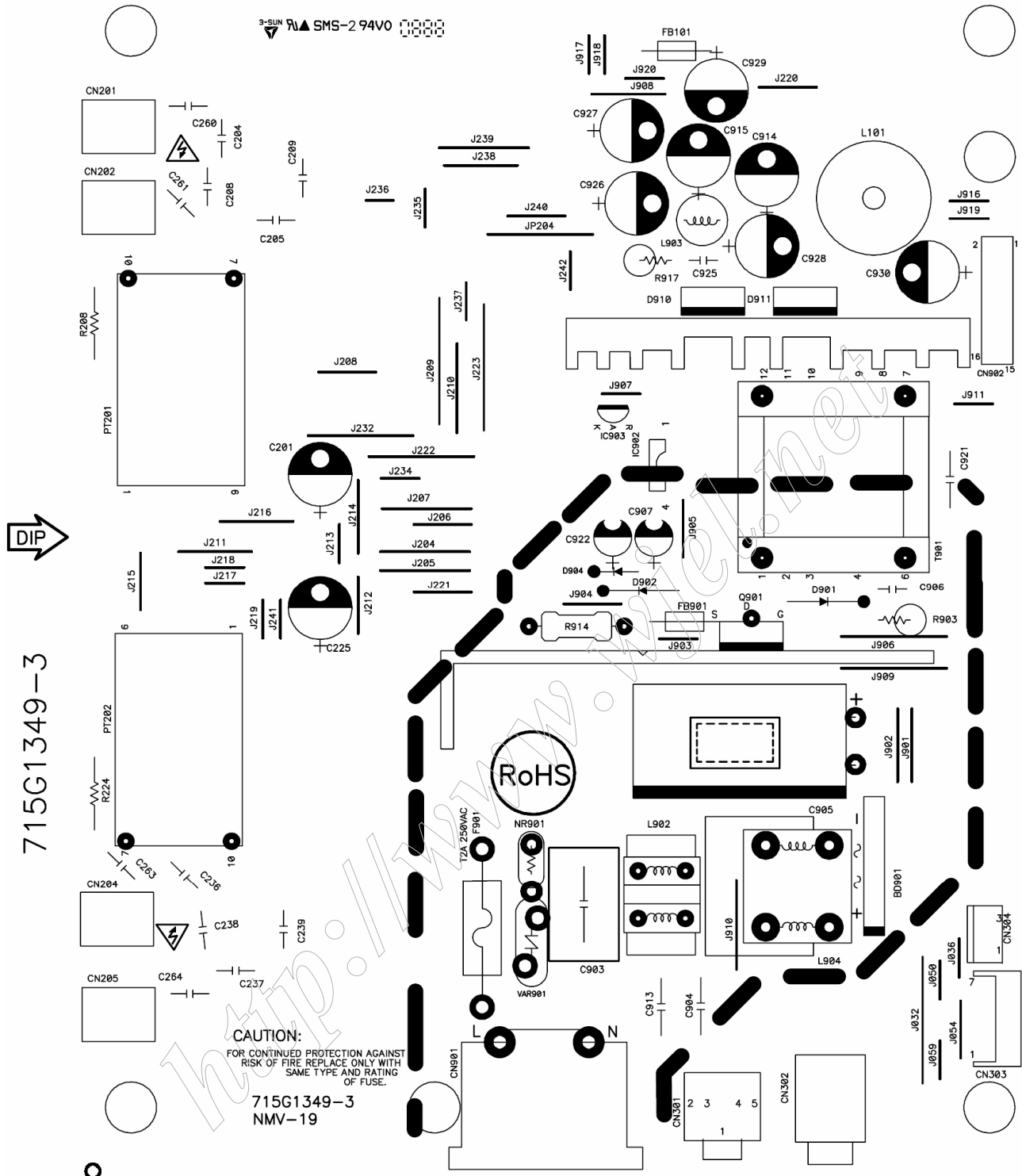
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7.2 Power Board

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8. Maintainability

8.1 Equipments And Tools Requirement

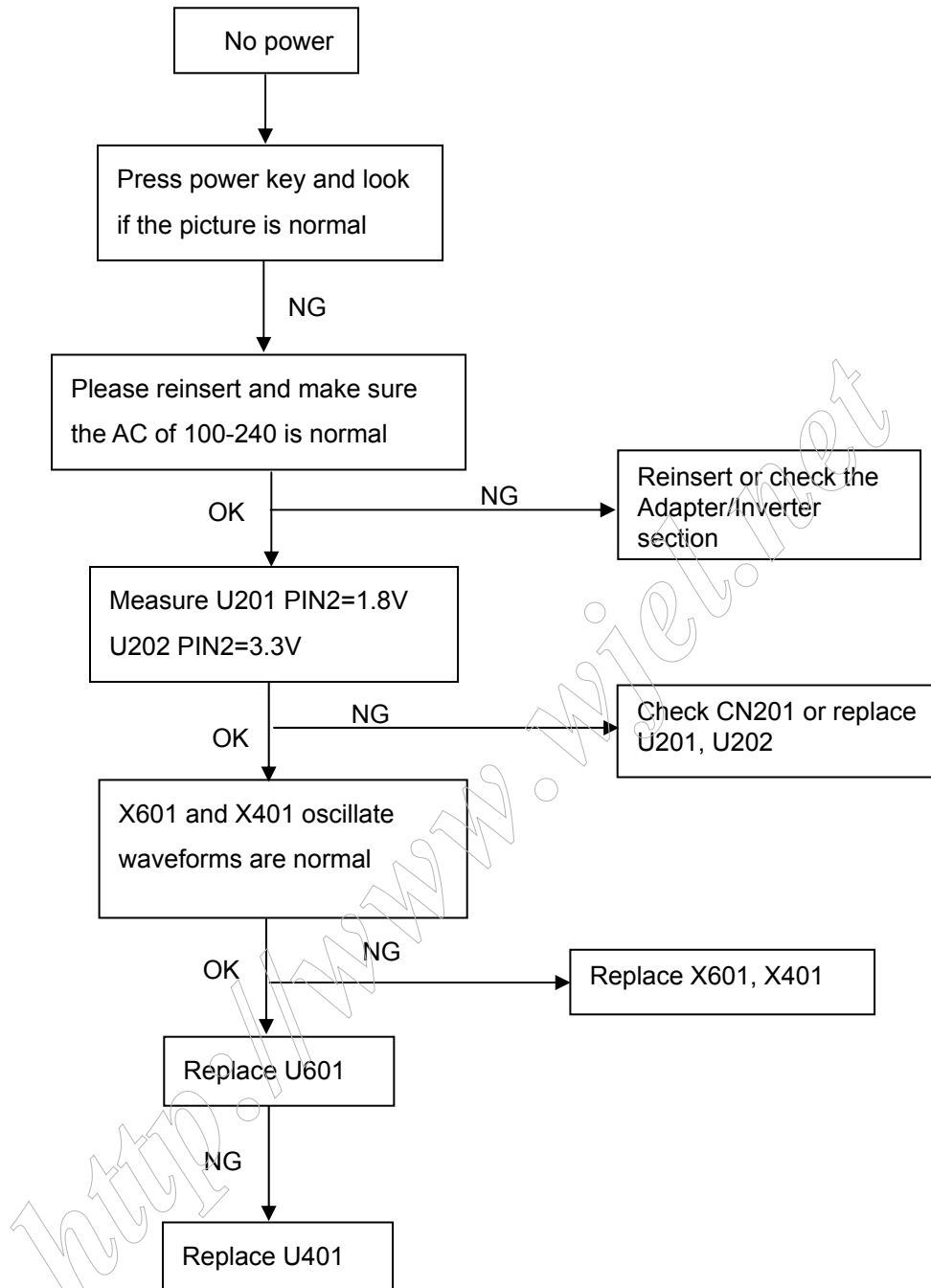
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

<http://www.wjel.net>

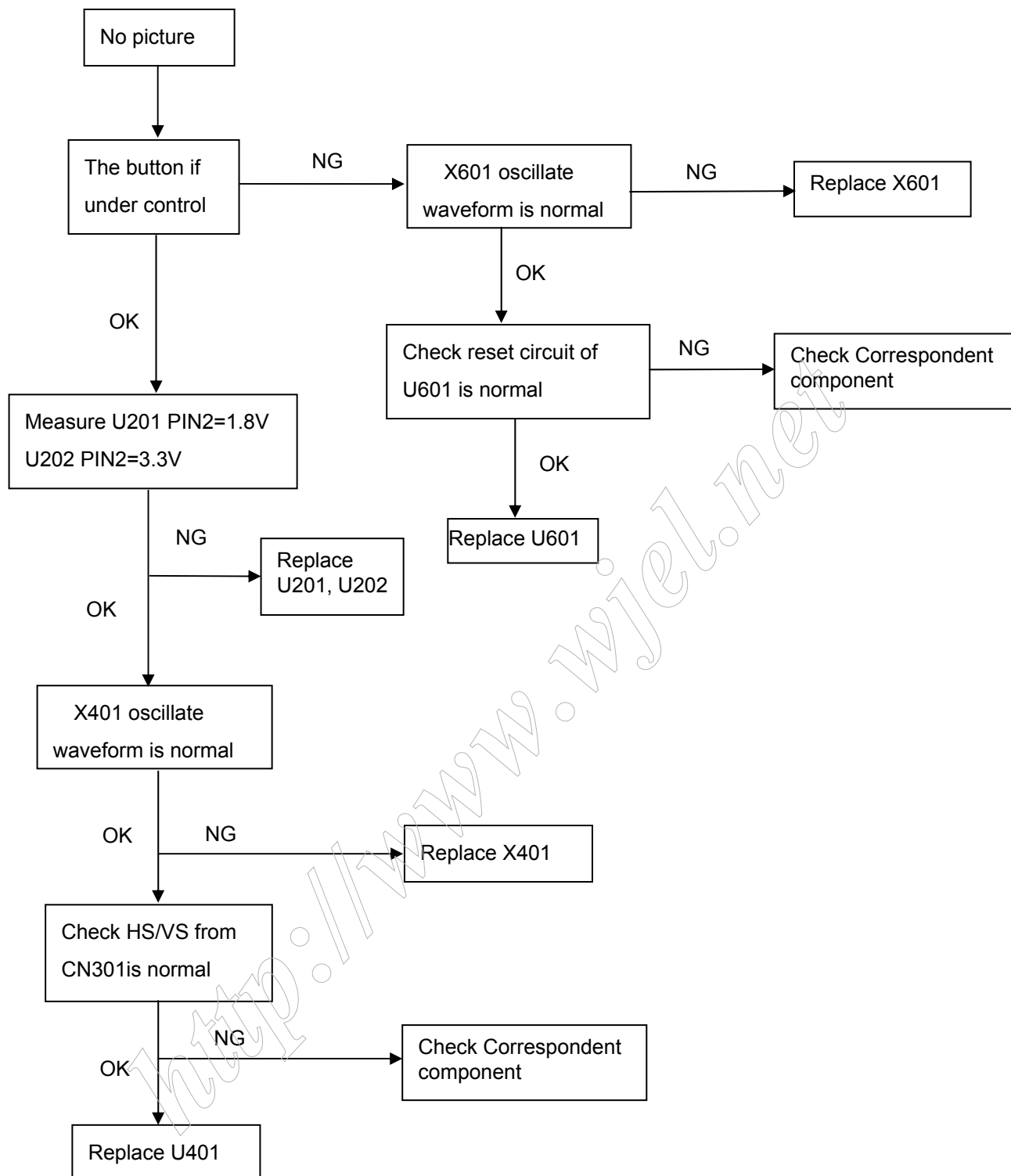
8.2 Trouble Shooting

8.2.1 Main Board

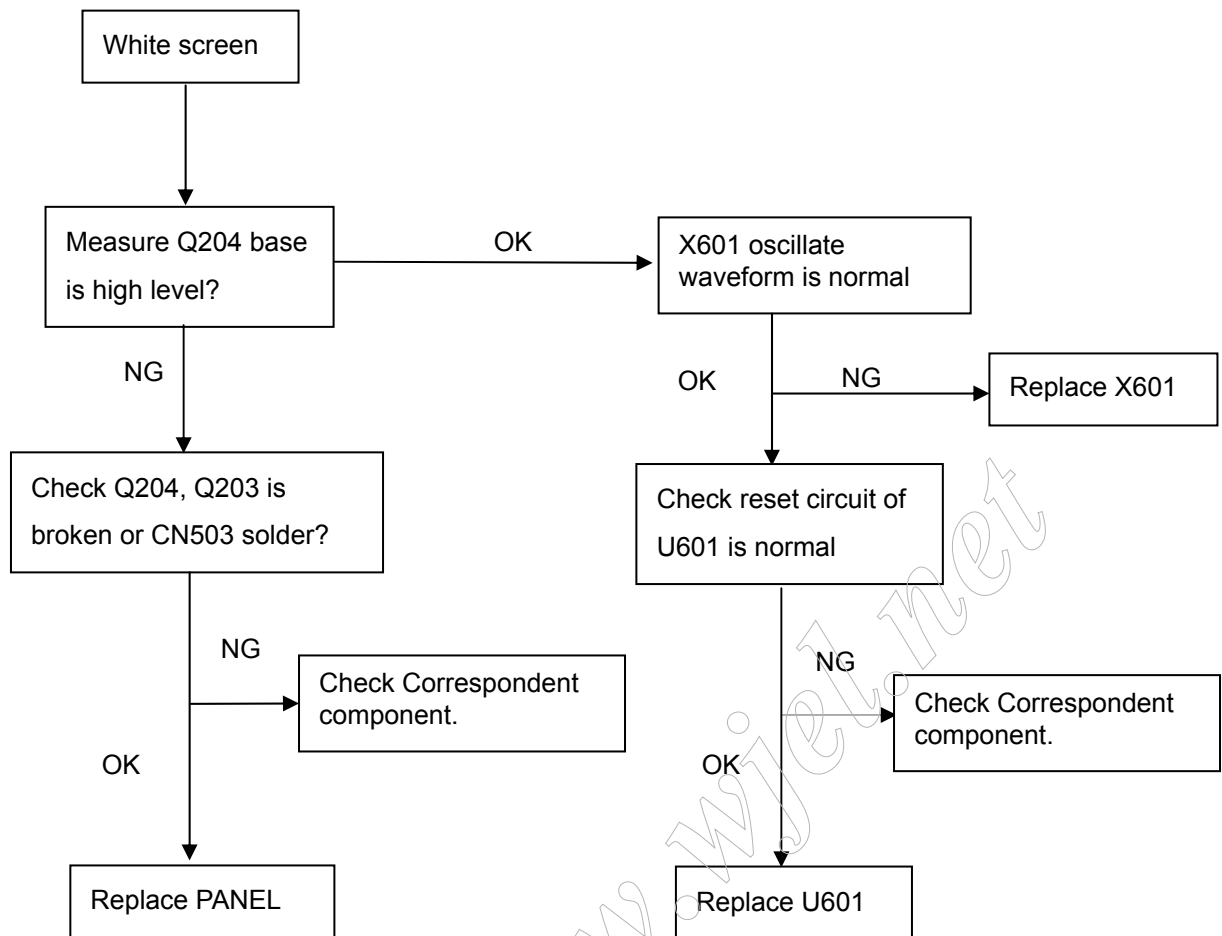
No power



No picture (LED orange)

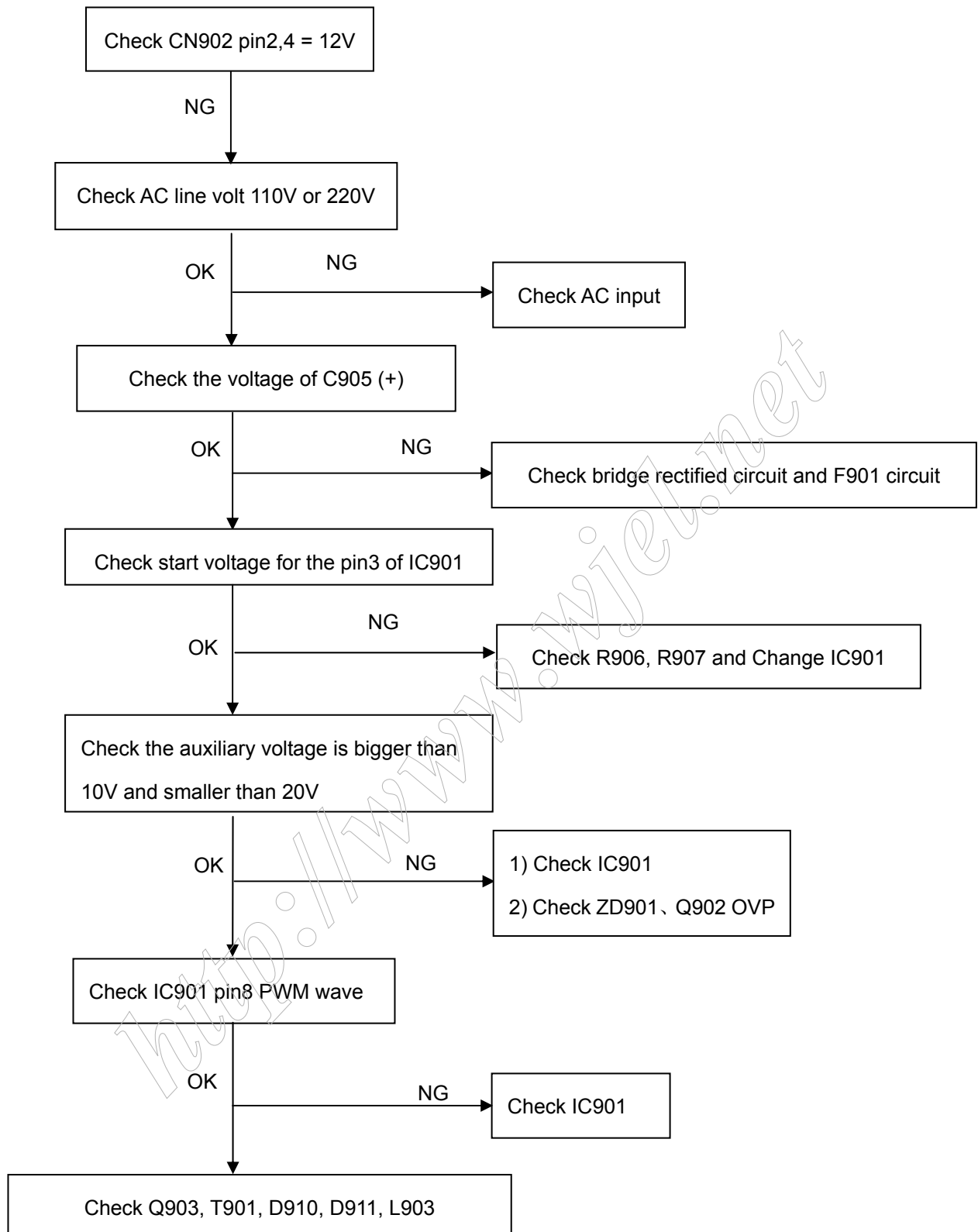


White screen

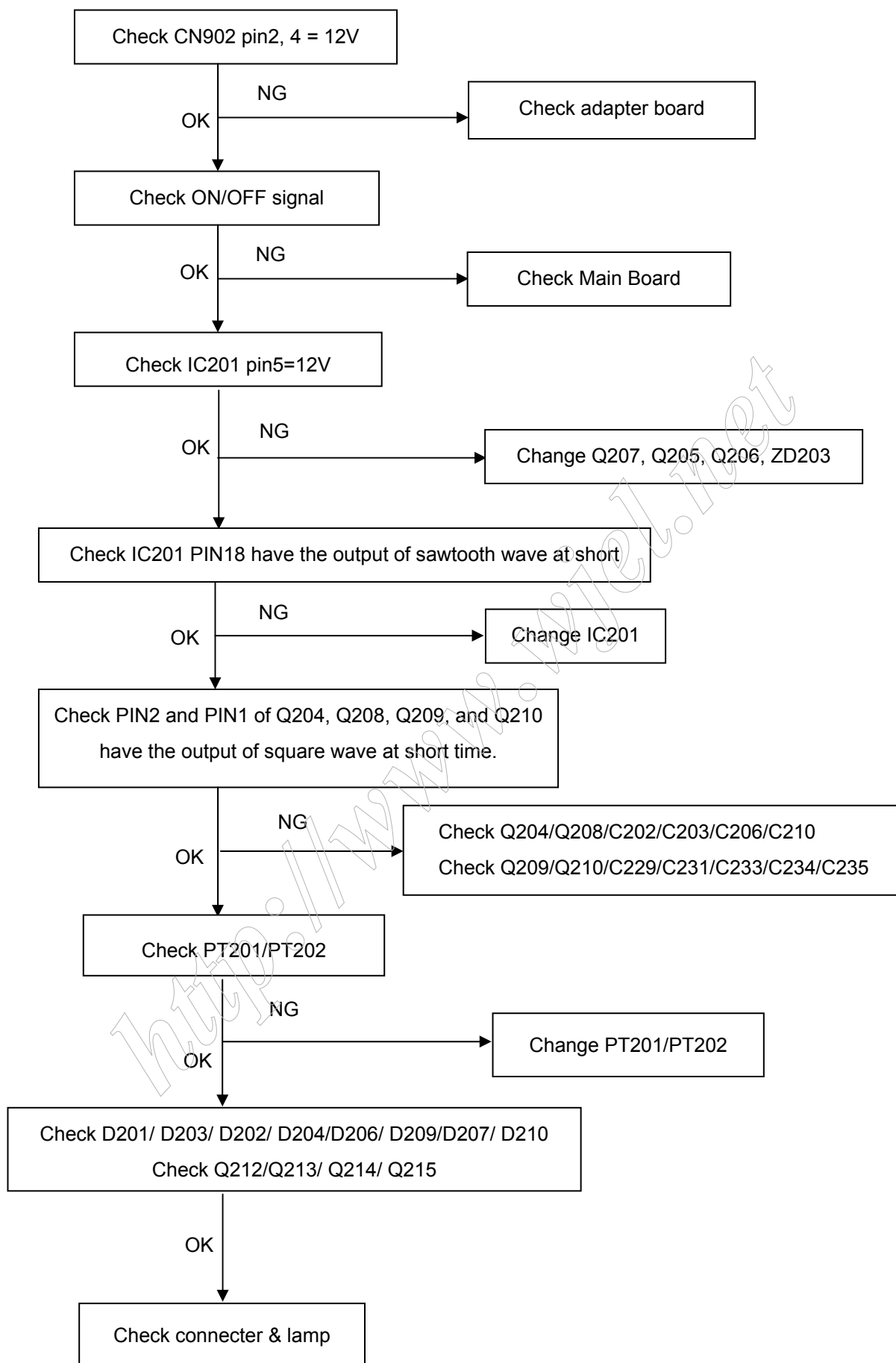


8.2.2 Power/Inverter Board

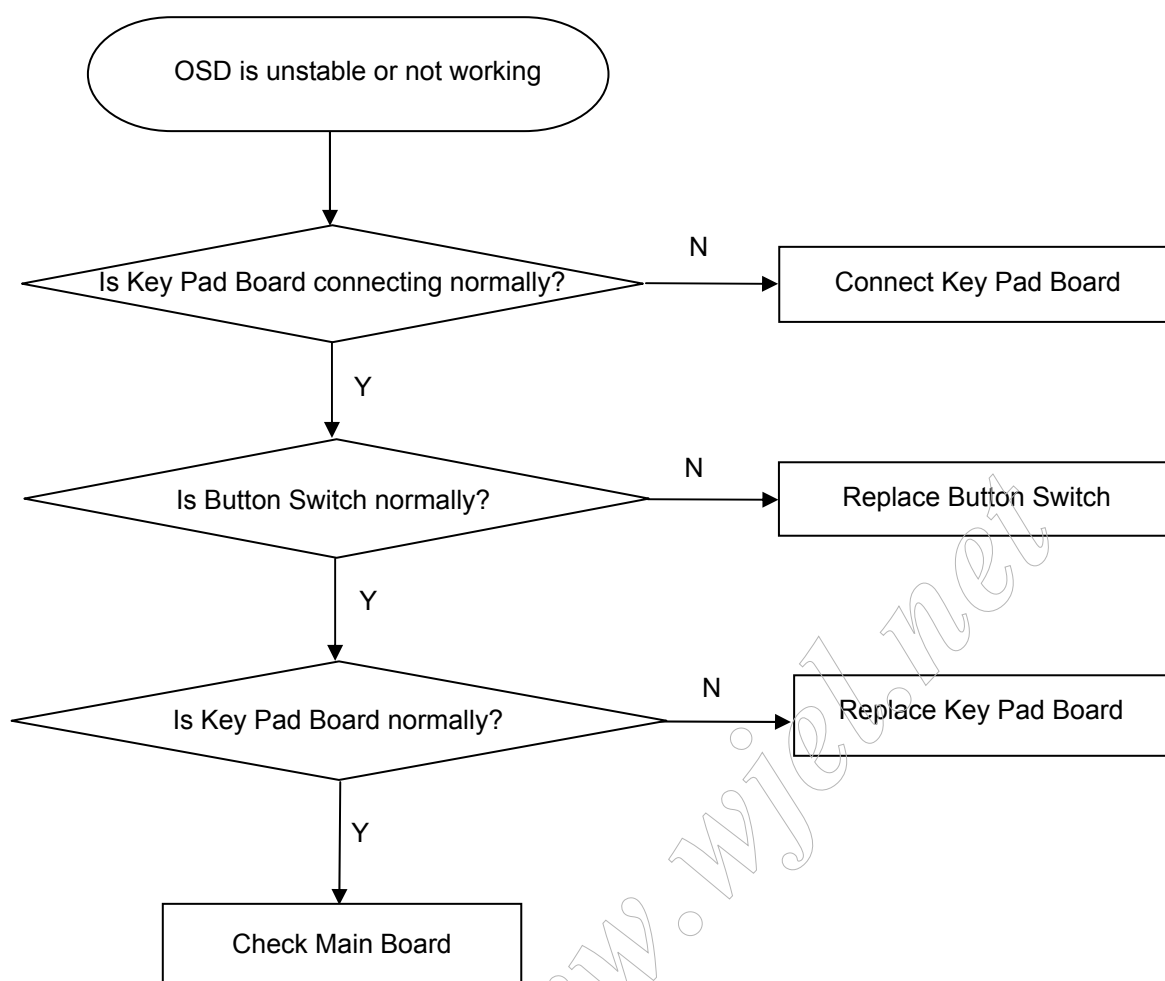
1) No power



2.) W / LED, No Backlight



8.2.3 Keypad 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 9 to 9300 color,

MEM Channel 10 to 7500 color, and MEM Channel 11 to 6500 color (our 9300 parameter is

$x = 283 \pm 20$, $y = 297 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$; 7500 parameter is $x = 299 \pm 20$, $y = 315 \pm 20$,

$Y = 180 \pm 10 \text{ cd/ m}^2$; 6500 parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$)

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 (9300 color):

9300 color temp. parameter is $x = 283 \pm 20$, $y = 297 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$

B. MEM.CHANNEL 4 (7500 color):

7500 color temp. parameter is $x = 299 \pm 20$, $y = 315 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$

C. MEM.CHANNEL 5 (6500 color):

6500 color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$

3. Into Factory mode of ASUS MM19S:

- ① 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.
- ② Turn off the power, press MENU button and SPLENDID button, then press power button. 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:

A. Adjust 9300 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 $x = 283 \pm 20$, $y = 297 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$
4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

B. Adjust 7500 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 $x = 299 \pm 20$, $y = 315 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$
4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100

7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

C. Adjust 6500 color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 5 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y = 180 \pm 10 \text{ cd/ m}^2$
4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

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

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10. EDID Content

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0:	00	FF	FF	FF	FF	FF	FF	00	04	69	E3	19	D3	C2	00	00
16:	06	10	01	03	68	26	1E	78	2A	E4	44	A4	5B	4C	9D	24
32:	14	4F	57	BF	EF	00	81	80	01	01	01	01	01	01	01	01
48:	01	01	01	01	01	01	BC	34	00	98	51	00	2A	40	10	90
64:	13	00	54	0E	11	00	00	1E	00	00	00	FF	00	33	32	31
80:	36	35	34	39	38	37	35	0A	20	20	00	00	00	FD	00	37
96:	4B	1E	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
112:	00	41	53	55	53	20	4D	4D	31	39	53	0A	20	20	00	52

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11. BOM List

T980KH4DBAUSAP

Location	Part No. for TPV	Description
	007G 5 L 65	COMPOUND PALLET
	015G6207 L 3	PANEL BRACKET
	015G6207 R 3	PANEL BRACKET
	040G 457834 4A GP	S/N LABEL FOR ID
	040G 457842 2B	PALLET LABEL
	040G 58162435A	LABEL
	040G 581680 1A	WARRANTY LABEL
	040G 581680 3A	SPLENDID LABEL
	040G 581680 4A	TRY ME LABEL
	040G 58169016A	TCO'03 LABEL
	040G 582680 3A	PALLET LABEL
	040G 582680 4A	CARTON LABEL
	041G780061537A	TCO'03 CARD
	044G3928 1	EPS
	044G3928 2	EPS
	044G6000 4 6B	PAPER BOARD
	044G6002120106	PAPER BOARD
	044G6002CP202A	PAPER CAP
	044G9003202	CORNER PAPER
	045G 76 28 RN	PE BAG FO MANUAL/BASE
	045G 88606	PE BAG FOR BASE
	045G 88609 C	EPE COVER
	045G 88626 1	PE BAG FOR MONITOR
	050G 600 2	HANDLE1
	050G 600 3	HANDLE2
	052G 1185 49	ASUS TAPE
	052G 1186	SMALL TAPE
	052G 1209 A	200MINIUM TAPE
	052G 1211513	AL TAPE
	052G6020 5	PROTECT FILM
	052G6025 11989	MYLAR
	085G6119 A 3	SHIELD
	089G 718HAA D2	SIGNAL CABLE
	089G404A18N LS	POWER CORD
	095G 900590	WIRE HARNESS

	095G8014 16599	WIRE HARNESS
E095	095G8018 30634	LVDS
	0M1G 330 5128	SREW
	0M1G 330 5128	SREW
	0M1G1140 6128	SCREW 4X6
	0M1G1730 6128	SCREW M3x6
	0M1G3030 6 47	SCREW
	0Q1G 330 6128	SCREW
	0Q1G 330 8 47	SCREW 3X8mm
	705G980KF34082	19" LCD BEZEL ASS'Y
	705G980KP34029	19"LCD STAND ASS'Y
	705L980KB34191	19" LCD COVER ASS'Y
E750L	750GLH9013A 11	HSD 19" A10 PANEL
	AM1G1740 12 47	SCREW
	AUPC980KA9P	AUDIO BOARD
	CBPC980KH4UAP	CONVERSION BOARD
	KEPC980KUSAP	KEPC BOARD
	PWPC1942HSU3P	POWER BOARD
	Q40G 19N680 3B	RATING LABEL
	Q44G3910680 1B	CARTON
	041G780068011A	Warranty-CB
	045G 76 28V13	PE BAG FOR MANUAL
	089G 173 56522	AUDIO CABLE
	Q41G780068013A	QSG FOR WEST
	Q70G1900680 1A	CD MANUAL
	052G 1185	MIDDLE TAPE FOR CARTON
	033G4891 1	LENS
	033G6433 SS L	KEY PAD
	034G6398ASS 1B	BEZEL
E078L	078G 322501 LK	SPK 8OHM 1.5W KUAIDA
E078R	078G 322504 RK	SPEAKER
	0Q1G1030 8128	SCREW
	012G 394 3	RUBBER FOOT
	034G1546 GM B	STAND
	037G 510 2	HINGE
	0Q1G1040 10128	TAP 4X8 FOR SP
	Q33G4695 GM 1C	CLAMP
	Q34G6400 SS B 20	BASE DOWN

	015G6206 1	HINGE BRACKET
	034G6202 GM19B	REAR COVER
	052G6025 11925	MYLAR
	0Q1G 140 8128	SCREW
CN204	033G3278 3	3P PLUG B3B-XHA/JST
CN202	033G802414C H	2*7PIN DUAL ROW RIGHT ANGLE H
	040G 581 26605	LABEL-P/N
U201	056G 616 1	TDA7496
C208	067G215B471 3N GP	KY16VB470M-L 8*15MM
C205	067G215B471 3N GP	KY16VB470M-L 8*15MM
C201	067G215B471 3N GP	KY16VB470M-L 8*15MM
C202	067G215B471 3N GP	KY16VB470M-L 8*15MM
C207	067G215B471 3N GP	KY16VB470M-L 8*15MM
	AUPC980KA9SMTP	AUDIO BOARD FOR SMT
CN601	033G801714A H	PIN HEADER 2*7 R/A
CN201	033G8027 12	WAFER 2*6P 2.0MM R/A
CN602	033G8027 16	WAFER 16PIN 2.0mm DIP
CN503	033G802724B H	WAFER
	040G 45762412B	CBPC LABEL
C204	067G215B221 4H	LOW E.S.R 220UF +-20% 25V
C202	067G215B221 4H	LOW E.S.R 220UF +-20% 25V
CN301	088G 35315F H	D-SUB 15PIN
X601	093G 22 45 H	24MHZ/30PF/49US
X401	093G 22 53	CRYSTAL 14.318MHzHC-49US
	AIC980KH4UAP	MAIN BOARD
CN104	033G3802 2H	WAFER 2P RIGHT ANGLE
CN103	033G3802 2H	WAFER 2P RIGHT ANGLE
CN101	033G8027 12 H	PIN HEADER 2*6 R/A
SW105	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW104	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW103	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW101	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW102	077G 600 1GCJ	TACT SWITCH TSPB-2 -NP
CN102	088G 30211K	PHONE JACK 5PIN
	AIK980KUSASMT	KEY BOARD FOR SMT
CN205	033G8021 2D U	3.5mm WAFER
CN204	033G8021 2D U	3.5mm WAFER
CN202	033G8021 2D U	3.5mm WAFER

CN201	033G8021 2D U	3.5mm WAFER
	040G 45762420A	LABEL 25x6mm
IC902	056G 139 3A	PC123Y22FZOF
NR901	061G 58050 WT	NTC 5 OHM 5A
R917	061G 20747052T	47 OHM 1/2W
R914	061G152M398 64	0.39 OHM 2W
C238	065G 3J1006ET	10PF,J,3KV,SL
C236	065G 3J1006ET	10PF,J,3KV,SL
C208	065G 3J1006ET	10PF,J,3KV,SL
C204	065G 3J1006ET	10PF,J,3KV,SL
C239	065G 3J5096ET	5PF 5% SL 3KV
C237	065G 3J5096ET	5PF 5% SL 3KV
C209	065G 3J5096ET	5PF 5% SL 3KV
C205	065G 3J5096ET	5PF 5% SL 3KV
C913	065G306M1022BP	1000PF Y1.CAP
C904	065G306M1022BP	1000PF Y1.CAP
C921	065G306M2222BP	2200PF +/-20% 400VAC
C926	067G215D471 4K	ED 470UF 25V
C225	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C201	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C915	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C929	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C930	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C914	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C905	067G215S10115K	100UF 450V
L903	073G 253 91 L	CHOKE BY LI TA
L101	073G 253152 T	CHOKE COIL TDK LSHAO03C-002
L904	073L 174 26T1G	LINE LILT 0.45MM
L902	073L 174 53 LG GP	CHOKE
PT202	080LL17T 16DNG	TRANSFORMER
PT201	080LL17T 16DNG	TRANSFORMER
T901	080LL19T 6 LG	X'FMR
F901	084G 7H200 SL	250V/2A LIHEL FUSE
CN301	088G 30229C	PHINE JACL
BD901	093G 50460 16	U4KB80R
CN304	095G8013 3 31	WIRE HARNESS
CN902	095G8021 12518	WIRE HARNESS
	705L 560 61 06	R903 ASS'Y

	705L 780 57 51	Q901 ASS'Y
	705L 980 87 05	CN901 ASS'Y
	705L 980 93 04	D910/D911 ASS'Y
	PW1942HSU3SMTP	POWER BOARD FOR SMT
R208	061L0603102	CHIPR 1K OHM +-5% 1/16W
R207	061L0603102	CHIPR 1K OHM +-5% 1/16W
R203	061L0603183	CHIP 18K OHM 1/10W
R201	061L0603183	CHIP 18K OHM 1/10W
R210	061L0603203	CHIPR 20K OHM+-5% 1/10W
R211	061L0603203	CHIPR 20K OHM+-5% 1/10W
C214	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C215	065G0603101 31	CER1 0603 NP0 50V 100P PM5 R
C211	065G0805101 31	CHIP 100PF 50V NPD 0805
C212	065G0805101 31	CHIP 100PF 50V NPD 0805
C203	065G0805104 32	CHIP 0.1U 50V X7R
C213	065G0805104 32	CHIP 0.1U 50V X7R
C204	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C206	065G0805474 22	CHIP 0.47UF 25V X7R 0805
	AUPC980KA9AIP	AUDIO BOARD FOR AI
	040G 457624 1B	LABEL-CPU
U401	056G 562104	TSU16AWK-LF
U202	056G 563 7	AIC1084-33PM
U201	056G 563 31	AI1117D-1.8-EI
U603	056G 643 5A	MAX810 STRG
U601	056G1125170 X	W79E632 BY WINBOND
U301	056G1133 34	M24C02-WMN6TP
U602	056G1133 56	M24C16-WMN6TP
Q605	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q604	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q204	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q202	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q201	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q602	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q601	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q203	057G 763 1	A03401 SOT23 BY AOS(A1)
RN602	061L 125103 8	CHIP AR 8P4R 10KOHM +-5% 1/16W
RN601	061L 125103 8	CHIP AR 8P4R 10KOHM +-5% 1/16W
R502	061L0603000	RST SM 0603 JUMP MAX 0R05 R

R209	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R204	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB303	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB302	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB301	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R307	061L0603101	CHIPR 100 OHM +-5% 1/16W
R608	061L0603101	CHIPR 100 OHM +-5% 1/16W
R609	061L0603101	CHIPR 100 OHM +-5% 1/16W
R312	061L0603101	CHIPR 100 OHM +-5% 1/16W
R309	061L0603101	CHIPR 100 OHM +-5% 1/16W
R315	061L0603101	CHIPR 100 OHM +-5% 1/16W
R316	061L0603101	CHIPR 100 OHM +-5% 1/16W
R341	061L0603101	CHIPR 100 OHM +-5% 1/16W
R342	061L0603101	CHIPR 100 OHM +-5% 1/16W
R402	061L0603101	CHIPR 100 OHM +-5% 1/16W
R639	061L0603101	CHIPR 100 OHM +-5% 1/16W
R636	061L0603101	CHIPR 100 OHM +-5% 1/16W
R306	061L0603101	CHIPR 100 OHM +-5% 1/16W
R305	061L0603101	CHIPR 100 OHM +-5% 1/16W
R640	061L0603102	CHIPR 1K OHM +-5% 1/16W
R624	061L0603102	CHIPR 1K OHM +-5% 1/16W
R311	061L0603102	CHIPR 1K OHM +-5% 1/16W
R310	061L0603102	CHIPR 1K OHM +-5% 1/16W
R203	061L0603102	CHIPR 1K OHM +-5% 1/16W
R405	061L0603103	CHIPR 10K OHM +-5% 1/16W
R406	061L0603103	CHIPR 10K OHM +-5% 1/16W
R407	061L0603103	CHIPR 10K OHM +-5% 1/16W
R601	061L0603103	CHIPR 10K OHM +-5% 1/16W
R602	061L0603103	CHIPR 10K OHM +-5% 1/16W
R604	061L0603103	CHIPR 10K OHM +-5% 1/16W
R605	061L0603103	CHIPR 10K OHM +-5% 1/16W
R606	061L0603103	CHIPR 10K OHM +-5% 1/16W
R652	061L0603103	CHIPR 10K OHM +-5% 1/16W
R646	061L0603103	CHIPR 10K OHM +-5% 1/16W
R645	061L0603103	CHIPR 10K OHM +-5% 1/16W
R644	061L0603103	CHIPR 10K OHM +-5% 1/16W
R627	061L0603103	CHIPR 10K OHM +-5% 1/16W
R607	061L0603103	CHIPR 10K OHM +-5% 1/16W

R613	061L0603103	CHIPR 10K OHM +-5% 1/16W
R614	061L0603103	CHIPR 10K OHM +-5% 1/16W
R615	061L0603103	CHIPR 10K OHM +-5% 1/16W
R625	061L0603103	CHIPR 10K OHM +-5% 1/16W
R626	061L0603103	CHIPR 10K OHM +-5% 1/16W
R404	061L0603103	CHIPR 10K OHM +-5% 1/16W
R335	061L0603103	CHIPR 10K OHM +-5% 1/16W
R318	061L0603103	CHIPR 10K OHM +-5% 1/16W
R317	061L0603103	CHIPR 10K OHM +-5% 1/16W
R308	061L0603103	CHIPR 10K OHM +-5% 1/16W
R211	061L0603103	CHIPR 10K OHM +-5% 1/16W
R208	061L0603103	CHIPR 10K OHM +-5% 1/16W
R202	061L0603103	CHIPR 10K OHM +-5% 1/16W
R617	061L0603121	CHIPR 120 OHM 1/10W
R201	061L0603203	CHIPR 20K OHM+-5% 1/10W
R610	061L0603221	CHIPR 220 OHM+-5% 1/16W
R611	061L0603221	CHIPR 220 OHM+-5% 1/16W
R503	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R314	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R313	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R647	061L0603223	CHIPR 22K OHM +-5% 1/16W
R618	061L0603302	CHIPR 3K OHM +-5% 1/10W
R301	061L0603330	CHIPR 33 OHM +-5% 1/10W
R302	061L0603330	CHIPR 33 OHM +-5% 1/10W
R303	061L0603330	CHIPR 33 OHM +-5% 1/10W
R403	061L0603390 0F	CHIP 390 OHM 1/10W 1%
R304	061L0603471	CHIPR 470 OHM+-5% 1/16W
R620	061L0603471	CHIPR 470 OHM+-5% 1/16W
R621	061L0603471	CHIPR 470 OHM+-5% 1/16W
R622	061L0603471	CHIPR 470 OHM+-5% 1/16W
R623	061L0603471	CHIPR 470 OHM+-5% 1/16W
R205	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R207	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R212	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R616	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R619	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R641	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R215	061L0603513	CHIP 51K OHM

R327	061L0603750	CHIPR 75 OHM+-5% 1/16W
R326	061L0603750	CHIPR 75 OHM+-5% 1/16W
R325	061L0603750	CHIPR 75 OHM+-5% 1/16W
R651	061L0603912	CHIPR 9.1KOHM +-5% 1/10W
C617	065G0603101 32	100PF +-10% 50V X7R
C220	065G0603102 32	1000PF +-10% 50V X7R
C221	065G0603102 32	1000PF +-10% 50V X7R
C307	065G0603102 32	1000PF +-10% 50V X7R
C326	065G0603102 32	1000PF +-10% 50V X7R
C606	065G0603102 32	1000PF +-10% 50V X7R
C607	065G0603102 32	1000PF +-10% 50V X7R
C608	065G0603102 32	1000PF +-10% 50V X7R
C609	065G0603102 32	1000PF +-10% 50V X7R
C610	065G0603102 32	1000PF +-10% 50V X7R
C620	065G0603102 32	1000PF +-10% 50V X7R
C621	065G0603102 32	1000PF +-10% 50V X7R
C407	065G0603104 32	CHIP 0.1UF 50V X7R
C408	065G0603104 32	CHIP 0.1UF 50V X7R
C409	065G0603104 32	CHIP 0.1UF 50V X7R
C410	065G0603104 32	CHIP 0.1UF 50V X7R
C411	065G0603104 32	CHIP 0.1UF 50V X7R
C412	065G0603104 32	CHIP 0.1UF 50V X7R
C413	065G0603104 32	CHIP 0.1UF 50V X7R
C415	065G0603104 32	CHIP 0.1UF 50V X7R
C416	065G0603104 32	CHIP 0.1UF 50V X7R
C417	065G0603104 32	CHIP 0.1UF 50V X7R
C418	065G0603104 32	CHIP 0.1UF 50V X7R
C420	065G0603104 32	CHIP 0.1UF 50V X7R
C619	065G0603104 32	CHIP 0.1UF 50V X7R
C618	065G0603104 32	CHIP 0.1UF 50V X7R
C613	065G0603104 32	CHIP 0.1UF 50V X7R
C612	065G0603104 32	CHIP 0.1UF 50V X7R
C601	065G0603104 32	CHIP 0.1UF 50V X7R
C510	065G0603104 32	CHIP 0.1UF 50V X7R
C428	065G0603104 32	CHIP 0.1UF 50V X7R
C426	065G0603104 32	CHIP 0.1UF 50V X7R
C425	065G0603104 32	CHIP 0.1UF 50V X7R
C423	065G0603104 32	CHIP 0.1UF 50V X7R

C421	065G0603104 32	CHIP 0.1UF 50V X7R
C201	065G0603104 32	CHIP 0.1UF 50V X7R
C203	065G0603104 32	CHIP 0.1UF 50V X7R
C205	065G0603104 32	CHIP 0.1UF 50V X7R
C207	065G0603104 32	CHIP 0.1UF 50V X7R
C210	065G0603104 32	CHIP 0.1UF 50V X7R
C212	065G0603104 32	CHIP 0.1UF 50V X7R
C214	065G0603104 32	CHIP 0.1UF 50V X7R
C216	065G0603104 32	CHIP 0.1UF 50V X7R
C313	065G0603104 32	CHIP 0.1UF 50V X7R
C401	065G0603104 32	CHIP 0.1UF 50V X7R
C404	065G0603104 32	CHIP 0.1UF 50V X7R
C406	065G0603104 32	CHIP 0.1UF 50V X7R
C217	065G0603105 17	1UF 16V Y5V
C602	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R
C403	065G0603220 31	CER1 0603 NP0 50V 22P PM5 R
C312	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R
C605	065G0603224 17	CAP: CER 0.22UF-20%-80% 10V SM
C604	065G0603270 31	27PF 50V NPO
C311	065G0603330 31	CER1 0603 NP0 50V 33P PM5 R
C402	065G0603390 31	CHIP 39PF 50V NPO
C304	065G0603473 32	CHIP 0.047UF 50V X7R
C305	065G0603473 32	CHIP 0.047UF 50V X7R
C306	065G0603473 32	CHIP 0.047UF 50V X7R
C308	065G0603473 32	CHIP 0.047UF 50V X7R
C309	065G0603473 32	CHIP 0.047UF 50V X7R
C310	065G0603473 32	CHIP 0.047UF 50V X7R
C611	065G0805105 22	CHIP 1UF 25V X7R 0805
FB601	071G 56K121	CHIP BEAD
FB402	071G 56K121	CHIP BEAD
FB403	071G 56Z601	CHIP BEAD 600 OHM 0805
FB401	071G 56Z601	CHIP BEAD 600 OHM 0805
FB201	071G 56Z601	CHIP BEAD 600 OHM 0805
FB404	071G 56Z601	CHIP BEAD 600 OHM 0805
FB405	071G 56Z601	CHIP BEAD 600 OHM 0805
FB406	071G 56Z601	CHIP BEAD 600 OHM 0805
FB603	071G 56Z601	CHIP BEAD 600 OHM 0805
FB304	071G 59B431	BK1608 HW 431

D323	093G 39147	TZMC5V6
D322	093G 39147	TZMC5V6
D321	093G 39147	TZMC5V6
D320	093G 39147	TZMC5V6
D319	093G 39147	TZMC5V6
D318	093G 39147	TZMC5V6
D304	093G 64 42 P	BAV70 SOT-23
D601	093G 6432V	LL4148-GS08
D324	093G 6433P	BAV99
D303	093G 6433P	BAV99
D302	093G 6433P	BAV99
D301	093G 6433P	BAV99
D201	093G1004 3	SS14
D202	093G1020 1 S	GS1D
	715G1423 3512	PCB
L1	071G 59B601 EA	CHIP BEAD 600 OHM
ZD02	093G 39147	TZMC5V6
ZD01	093G 39147	TZMC5V6
	AIK980KUSAP	MAIN BOARD
R903	061G152M10458F	100K OHM 5% 2W
	096G 29 6	SHRINK TUBE UL/CSA
Q901	057G 600 35	STP8NK80ZFP
	090G 415505	HEATSHINK
	0M1G1730 8128	SCREW M3x8
	087G 501 12 CJ	AC SOCKET
	095G 900 43	SIGNAL CABLE
	096G 29 6	SHRINK TUBE UL/CSA
	090G6081 1	HEATSHINK FOR U301
D911	093G 60242	SRF20150C T0-220
D910	093G 60242	SRF20150C T0-220
	0M1G1730 8128	SCREW M3x8
IC901	056G 379 33 1	IC SG6841SZ3 SOP-8 SYSTEM GENERAL
IC101	056G 379 37	FP5001DR
IC201	056G 608 7	OZT1060GN SOIC-20
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q206	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q102	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 6	PMBS3906/PHILIPS-SMT(06)

Q103	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q210	057G 60040A	AM4512C-T1-PF SO-8
Q209	057G 60040A	AM4512C-T1-PF SO-8
Q208	057G 60040A	AM4512C-T1-PF SO-8
Q204	057G 60040A	AM4512C-T1-PF SO-8
Q213	057G 759 2	RK7002
Q212	057G 759 2	RK7002
Q211	057G 759 2	RK7002
Q215	057G 759 2	RK7002
Q214	057G 759 2	RK7002
Q205	057G 760 4B	PDTA144WK SOT346
Q207	057G 760 5B	PDTC144WK SOT346
Q101	057G 763 3	AO4411 SO-8
R248	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R242	061L0805000	CHIPR 00HM +-5% 1/10W
R240	061L0805000	CHIPR 00HM +-5% 1/10W
R235	061L0805000	CHIPR 00HM +-5% 1/10W
R230	061L0805000	CHIPR 00HM +-5% 1/10W
R214	061L0805000	CHIPR 00HM +-5% 1/10W
R206	061L0805000	CHIPR 00HM +-5% 1/10W
C103	061L0805000	CHIPR 00HM +-5% 1/10W
R923	061L0805000	CHIPR 00HM +-5% 1/10W
R925	061L0805000	CHIPR 00HM +-5% 1/10W
R909	061L0805100	CHIPR 10 OHM+-5% 1/10W
R216	061L0805100 4F	CHIPR 1M OHM +-1% 1/8W
R114	061L0805102	CHIPR 1K OHM +-5% 1/10W
R205	061L0805102	CHIPR 1K OHM +-5% 1/10W
R218	061L0805102	CHIPR 1K OHM +-5% 1/10W
R239	061L0805102	CHIPR 1K OHM +-5% 1/10W
R922	061L0805102	CHIPR 1K OHM +-5% 1/10W
R924	061L0805102	CHIPR 1K OHM +-5% 1/10W
R928	061L0805102	CHIPR 1K OHM +-5% 1/10W
R207	061L0805103	CHIPR 10K OHM +-5% 1/10W
R204	061L0805103	CHIPR 10K OHM +-5% 1/10W
R203	061L0805103	CHIPR 10K OHM +-5% 1/10W
R243	061L0805105	CHIP 1M OHM 5% 1/8W
R241	061L0805105	CHIP 1M OHM 5% 1/8W
R238	061L0805105	CHIP 1M OHM 5% 1/8W

R231	061L0805105	CHIP 1M OHM 5% 1/8W
R223	061L0805105	CHIP 1M OHM 5% 1/8W
R228	061L0805153	CHIPR 15K OHM+-5% 1/8W
R212	061L0805153	CHIPR 15K OHM+-5% 1/8W
R111	061L0805153	CHIPR 15K OHM+-5% 1/8W
R245	061L0805155	CHIP 1.5M OHM 5% 1/8W
R912	061L0805203	CHIPR 20KOHM +-5% 1/8W
R225	061L0805205	CHIP 2M OHM 5% 1/8W
R115	061L0805220	CHIP 22 OHM 5% 0805 1/8W
R209	061L0805220	CHIP 22 OHM 5% 0805 1/8W
R220	061L0805220	CHIP 22 OHM 5% 0805 1/8W
R201	061L0805222	CHIP 2.2KOHM 5% 0805 1/8W
R911	061L0805240 2F	CHIP 24KOHM 1% 1/8W
R927	061L0805243 1F	CHIP 2.43K OHM 1/8W 1%
R112	061L0805272	CHIP 2.7K OHM 1/8W
R109	061L0805302	CHIP 3KOHM+-5% 1/8W
C232	061L0805303	CHIP 30K OHM 1/8W
R116	061L0805332	CHIP 3.3K OHM +-5% 1/8W
R106	061L0805333	CHIP 33KOHM 1% 1/8W
R229	061L0805362	CHIP 306KOHM 1/8W
R213	061L0805362	CHIP 306KOHM 1/8W
R110	061L0805365 1F	SMD 3.65KOHM/0805/+1%
R247	061L0805431	CHIP 430OHM 5% 0805 1/8W
R246	061L0805431	CHIP 430OHM 5% 0805 1/8W
R234	061L0805431	CHIP 430OHM 5% 0805 1/8W
R227	061L0805431	CHIP 430OHM 5% 0805 1/8W
R215	061L0805431	CHIP 430OHM 5% 0805 1/8W
R210	061L0805431	CHIP 430OHM 5% 0805 1/8W
R113	061L0805470	CHIP 47 OHM 1/10W
R918	061L0805472	CHIPR 4.7K OHM +-5% 1/10W
R916	061L0805472	CHIPR 4.7K OHM +-5% 1/10W
R108	061L0805473	CHIPR 47K OHM +-5% 1/8W
R222	061L0805513	CHIP 51KOHM 1/8W
R217	061L0805623	CHIPR 62K OHM +-5% 1/10W
R236	061L0805823	chip 82kohm 1/8w
R926	061L0805931 1F	CHIP 9.31K OHM 1/8W 1%
R919	061L1206000	CHIPR 0 OHM +-5% 1/8W
R202	061L1206000	CHIPR 0 OHM +-5% 1/8W

D205	061L1206000	CHIPR 0 OHM +-5% 1/8W
F201	061L1206000 4	0 OHM 4A 1/4W
R929	061L1206101	CHIP 100 OHM 5% 1/8W
R907	061L1206105	CHIP 1MOHM 5% 1/4W
R913	061L1206203	20K OHM 5% 1/4W
R906	061L1206205	CHIP 2M OHM 5% 1/4W
R910	061L1206221	CHIP 220 OHM 1/4W
R921	061L1206301	CHIP 300OHM 1/4W
R915	061L1206303	CHIP 30K OHM 1% 1/4W
R902	061L1206394	CHIPR 390KOHM+-5% 1/4W
R901	061L1206394	CHIPR 390KOHM+-5% 1/4W
R900	061L1206394	CHIPR 390KOHM+-5% 1/4W
R244	061L1206471	CHIPR 470 OHM+-5% 1/8W
R908	061L1206519	CHIPR 5.1OHM +-5% 1/4W
C931	065G0603102 31	CHIP 1000PF 50V NPO
C910	065G0805102 31	1000PF 50V NPO
C104	065G0805104 22	0.1UF +-10% 25V X7R 080
C212	065G0805104 32	CHIP 0.1U 50V X7R
C217	065G0805104 32	CHIP 0.1U 50V X7R
C226	065G0805104 32	CHIP 0.1U 50V X7R
C229	065G0805104 32	CHIP 0.1U 50V X7R
C235	065G0805104 32	CHIP 0.1U 50V X7R
C917	065G0805104 32	CHIP 0.1U 50V X7R
C918	065G0805104 32	CHIP 0.1U 50V X7R
C920	065G0805104 32	CHIP 0.1U 50V X7R
C908	065G0805104 32	CHIP 0.1U 50V X7R
C911	065G0805104 32	CHIP 0.1U 50V X7R
C912	065G0805104 32	CHIP 0.1U 50V X7R
C240	065G0805104 32	CHIP 0.1U 50V X7R
C243	065G0805104 32	CHIP 0.1U 50V X7R
C245	065G0805104 32	CHIP 0.1U 50V X7R
C246	065G0805104 32	CHIP 0.1U 50V X7R
C247	065G0805104 32	CHIP 0.1U 50V X7R
C211	065G0805104 32	CHIP 0.1U 50V X7R
C210	065G0805104 32	CHIP 0.1U 50V X7R
C202	065G0805104 32	CHIP 0.1U 50V X7R
C115	065G0805104 32	CHIP 0.1U 50V X7R
C114	065G0805104 32	CHIP 0.1U 50V X7R

C213	065G0805105 37	CHIP 1UF 50V Y5V
C219	065G0805105 37	CHIP 1UF 50V Y5V
C222	065G0805105 37	CHIP 1UF 50V Y5V
C215	065G0805152 22	CHIP 0.005UF 25V X7R 0805
C241	065G0805152 22	CHIP 0.005UF 25V X7R 0805
C220	065G0805221 21	220PF 25V 5%
C244	065G0805225 12	CHIP 2.2UF 15V X7R 0805
C242	065G0805332 32	3200PF/25V/X7R
C216	065G0805332 32	3200PF/25V/X7R
C924	065G0805334 22	0.33UF+-10% 25V X7R 0805
C909	065G0805471 21	CHIP 470PF 25V NPO
C214	065G0805473 22	SMD 47nf +-10%25V XTR
C230	065G0805473 22	SMD 47nf +-10%25V XTR
C221	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C228	065G0805682 32	CHIP 6.8UF 50V X7R 0805
C268	065G1206105 32	CHIP 1UF 50V X7R 1206
C267	065G1206105 32	CHIP 1UF 50V X7R 1206
C266	065G1206105 32	CHIP 1UF 50V X7R 1206
C265	065G1206105 32	CHIP 1UF 50V X7R 1206
C234	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
C233	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
C231	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
C207	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
C206	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
C203	065G1206225 17	1206 2.2UF -20%~+80% 16V Y5V
D903	093G 6432V	LL4148-GS08
D213	093G 6432V	LL4148-GS08
D208	093G 6432V	LL4148-GS08
D210	093G 6433P	BAV99
D209	093G 6433P	BAV99
D207	093G 6433P	BAV99
D206	093G 6433P	BAV99
D204	093G 6433P	BAV99
D203	093G 6433P	BAV99
D202	093G 6433P	BAV99
D201	093G 6433P	BAV99
ZD902	093G 39S 17 T	RLZ12B LLDS
ZD901	093G 39S 20 T	RLZ22B LLDS

ZD203	093G 39S 24 T	RLZ 5.6B LLDS
ZD202	093G 39S 24 T	RLZ 5.6B LLDS
ZD201	093G 39S 24 T	RLZ 5.6B LLDS
D101	093G3004 2	SR34 PAN JIT
	PW1942HSU3AIP	POWER BOARD FOR AI
R212	061G 60220152T	CFR 200 OHM +-5% 1/6W
C210	067G 2151007NT	KY50VB10M-TP5 5*11.5
C209	067G 2151007NT	KY50VB10M-TP5 5*11.5
	715G1144 4NMV	PCB
R102	061G 60275052T	75OHM 5% 1/6W
R101	061G 60275052T	75OHM 5% 1/6W
	715G1820 2	KEY BOARD PCB
NR901	006G 31502	1.5MM RIVET
L904	006G 31502	1.5MM RIVET
L902	006G 31502	1.5MM RIVET
F901	006G 31502	1.5MM RIVET
C905	006G 31502	1.5MM RIVET
PT201	006G 31502	1.5MM RIVET
PT202	006G 31502	1.5MM RIVET
Q901	006G 31502	1.5MM RIVET
T901	006G 31502	1.5MM RIVET
IC903	056G 158 4 T	H431BA
R208	061G212Y305 KT	MGFR 3M OHM +-5% 1/2W
R224	061G212Y305 KT	MGFR 3M OHM +-5% 1/2W
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%
C925	065G517K102 5T	1000PF 10% Y5P 500V
JP204	071G 55 19 T	FERRITE BEAD D9X3. 5X0.8
FB901	071G 55 29	FERRITE BEAD
D901	093G 6026W52T	FR107
D902	093G 6038P52T	PS102R
D904	093G 64 1152T	1N4148
	715G1349 3	POWER BOARD PCB

12. Different Parts List

Diversity of T980KH4DKAUSAP compared with T980KH4DBAUSAP		
Location	Part No. for TPV	Description
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	089G 718GAA D	SIGNAL CABLE
	089G402A18N LS	POWER CORD
E750L	750GLH9013A 12	HSD 19" A10 PANEL
E750L	750GLH9013A41N	PANEL LCD 19" ME13 A10 REV.2 HSD
E750L	750GLH9013A42N	PANEL LCD 19" ME13 A10 REV.2 HSD
	Q41G780068015A	WARRANTY COSTDOWN FOR NA
E095	S95G801830634	LVDS
E078L	S78G322501LY	SPEAKER ASS'Y
E078R	S78G322504RY	SPEAKER ASS'Y
	034G6399 GM B	BASE UP
C205	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
C207	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
C202	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
C201	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
C208	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
CN301	088G 35315F HJ	SOC SUBD H 15P F
DP101	081G 12 2D GP	LED
CN201	033G8021 2D AC	CONN.2P R/A 87210-0236 D
CN202	033G8021 2D AC	CONN.2P R/A 87210-0236 D
CN205	033G8021 2D AC	CONN.2P R/A 87210-0236 D
CN204	033G8021 2D AC	CONN.2P R/A 87210-0236 D
IC902	056G 139 3B	PC123 Y82FZ0F
C903	063G107K474 US	0.47UF +-10%
C926	067G215D4714KV	EC 105°C CAP 470UF M 25V
C915	067G215L102 3N	KY16VB1000M-L 10*16
C914	067G215L102 3N	KY16VB1000M-L 10*16
C225	067G215L102 3N	KY16VB1000M-L 10*16
C201	067G215L102 3N	KY16VB1000M-L 10*16
C929	067G215L102 3N	KY16VB1000M-L 10*16
C930	067G215L102 3N	KY16VB1000M-L 10*16
C225	067G215S102 3K	ED1000UF 16V
C201	067G215S102 3K	ED1000UF 16V
C914	067G215S102 3K	ED1000UF 16V
C915	067G215S102 3K	ED1000UF 16V
C929	067G215S102 3K	ED1000UF 16V

C930	067G215S102 3K	ED1000UF 16V
C905	067G215Z10115K	ELCAP 100UF M 450V
C905	067G305T10115H	ELCAP 105°C 100UF M 450V
L903	073G 253 91 T	CHOKE
L903	073G 253 91 LS	CHOKE BY LI SHIN
L904	073L 174 26LSG	COMMON CHOKE
L902	073L 174 53LSG GP	CHOKE BY LISHIN
PT202	080LL17T 16 HG	TRANSFORMER
PT201	080LL17T 16 HG	TRANSFORMER
T901	080LL19T 6 NG	XFMR FOR POWER YUVA
T901	080LL19T 6 TG	X'FMR
CN301	088G 30229T	AUDIO IN JACK
BD901	093G 50460900	BRIDGE DIODE GBU408 LITEON
	705G 780 57 63	Q901 ASS'Y
	033F 206 24	DF11-24DS-2C
	033F 303 30TD1	TD00-30H P2407P30
	033F206T 24	DF11-2428SCF
	033F303TTD1	TD00-T 2407PS-00
	S95FS14S2WB3	LVDS ASS'Y
	S95FS14S2WB4	LVDS ASS'Y
	095F S14 S2WB4	WERE HARNESS
U202	056G 563 21	AP1084K33LA
U301	056G113334A	24LC02B/SNG SOIC-8PIN
U602	056G113356A	24LC16B/SNG SOIC-8PIN
FB601	071G 56K121 M	CHIP BEAD
FB402	071G 56K121 M	CHIP BEAD
FB201	071G 56Z601 M	CHIP BEAD 600OHM
FB401	071G 56Z601 M	CHIP BEAD 600OHM
FB403	071G 56Z601 M	CHIP BEAD 600OHM
FB404	071G 56Z601 M	CHIP BEAD 600OHM
FB405	071G 56Z601 M	CHIP BEAD 600OHM
FB406	071G 56Z601 M	CHIP BEAD 600OHM
FB603	071G 56Z601 M	CHIP BEAD 600OHM
D323	093G 39149	MLL5232B BY FULL POWER SMT
D322	093G 39149	MLL5232B BY FULL POWER SMT
D321	093G 39149	MLL5232B BY FULL POWER SMT
D320	093G 39149	MLL5232B BY FULL POWER SMT
D319	093G 39149	MLL5232B BY FULL POWER SMT
D318	093G 39149	MLL5232B BY FULL POWER SMT
Q901	057G 667 20	AP2761I-A TO-220CFM

Q206	057G 417 12 T	KEC 2N3904S-RTK/PS
Q902	057G 417 12 T	KEC 2N3904S-RTK/PS
Q102	057G 417 12 T	KEC 2N3904S-RTK/PS
Q903	057G 417 13 T	KEC 2N3906S-RTK/PS
Q103	057G 417 13 T	KEC 2N3906S-RTK/PS
Q210	057G 600 40	SP8M3FTB SOP-8
Q209	057G 600 40	SP8M3FTB SOP-8
Q208	057G 600 40	SP8M3FTB SOP-8
Q204	057G 600 40	SP8M3FTB SOP-8
Q205	057G 760 4	DTA144WKA BY ROHM SMT
Q207	057G 760 5	DTC144WKA BY ROHM SMT
Q101	057G 763 3B	AM9435P.T1-PF SO-8
ZD901	093G 39S 23 T	GLZ22B
D101	093G3004 4	RB050L-40
	034FPE19P03	CASE EEL19
	034FPE19P03	CASE EEL19
	033F303T020 PH	PH-T
	033F303H02P H	PH-2
	033F303T020 PH	PH-T
	033F303H02P H	PH-2
C209	067G 2151007RT	LOW E.S.R 10UF +/-20% 50V
C210	067G 2151007RT	LOW E.S.R 10UF +/-20% 50V
C209	067G215Y1007NT	10UF +/-20% 50V NCC
C210	067G215Y1007NT	10UF +/-20% 50V NCC
IC903	056G 158 10 T	IC AZ431AZ-AE1 TO-92 BY AAC