

Service Manual

ViewSonic VX715
Model No VS10057
17" Color TFT LCD Display



Manufacture Date: Jan-10-05

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Revision History

Revision	Date	Description of changes	Approval
A00	Jan-10-05	Initial Release	

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1.Precautions and Safety Notices

1.1 SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

WARNINGS

- This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult you local dealer or power company.
- Use only the special power adapter that comes with this monitor for power input.
- Do not try to repair the monitor yourself as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- Do not remove the monitor cabinet. There is a high-voltage part inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- Do not place heavy objects on the monitor or power cord.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

1.3 SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
3. Keep wires away from high voltage, high temperature components and sharp edges.
4. Keep wires in their original position so as to reduce interference.
5. Usage of this product please refers to also user's manual.

2. Specification

2.1 PRODUCT SPECIFICATIONS

LCD Panel	17.0" TFT
Power Management	Energy Star compliant VESA DPMS compatible <1 W
Recommend Resolution	1280 x1024@60Hz
Pixel Dimension	0.264(H) x 0.264(V) mm
LCD Display Color	16.2M Colors (6+2FRC bit)
Viewing Angle	Horizontal: 140 deg Vertical: 130 deg
Contrast Ratio	450: 1 (Typ.)
Brightness	300 cd/m ² (Typ.)
Response Time	Tr: 6ms Tf: 10ms(Typ.)
Active Display Area	337.920(H) x 270.336(V)
Temperature	Operating: 0°C to +40°C Storage: -20°C to +60°C
Power	Input Voltage: 90V~264V Consumption: 35 Watts (Max.) 32 Watts(Typ.)

2.2 FACTORY SUPPORTING MODES

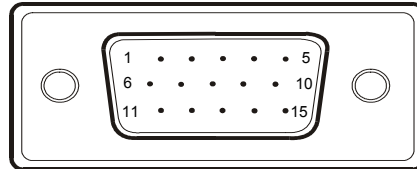
Primary Preset: VESA: 1280 x1024@60Hz

Timing Table:

1. 640 x 350 @ 70Hz, 31.5kHz
2. 640 x 400 @ 60Hz, 31.5kHz
3. 640 x 400 @ 70Hz, 31.5kHz
4. 640 x 480 @ 50Hz, 24.7kHz
5. 640 x 480 @ 60Hz, 31.5kHz
6. 640 x 480 @ 67Hz, 35.0kHz
7. 640 x 480 @ 72Hz, 37.9kHz
8. 640 x 480 @ 75Hz, 37.5kHz
9. 640 x 480 @ 85Hz, 43.27kHz
10. 720 x 400 @ 70Hz, 31.5kHz
11. 800 x 600 @ 56Hz, 35.1kHz
12. 800 x 600 @ 60Hz, 37.9kHz
13. 800 x 600 @ 75Hz, 46.9kHz
14. 800 x 600 @ 72Hz, 48.1kHz
15. 800 x 600 @ 85Hz, 53.7kHz
16. 832 x 624 @ 75Hz, 49.7kHz
17. 1024 x 768 @ 60Hz, 48.4kHz
18. 1024 x 768 @ 70Hz, 56.5kHz
19. 1024 x 768 @ 72Hz, 58.1kHz
20. 1024 x 768 @ 75Hz, 60.0kHz
21. 1024 x 768 @ 85Hz, 68.67kHz

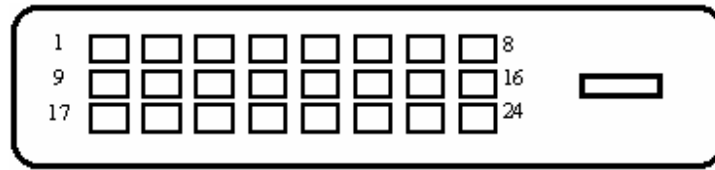
22. 1152 x 864 @ 75Hz, 67.5kHz
23. 1152 x 870 @ 75Hz, 68.7kHz
24. 1280 x 1024 @ 60Hz, 63.4kHz
25. 1280 x 1024 @ 75Hz, 79.97kHz
26. 1280x 720 @ 60Hz, 45kHz (HDTV)

2.3 D-SUB CONNECTOR



D-SUB 15 PIN CONNECTOR

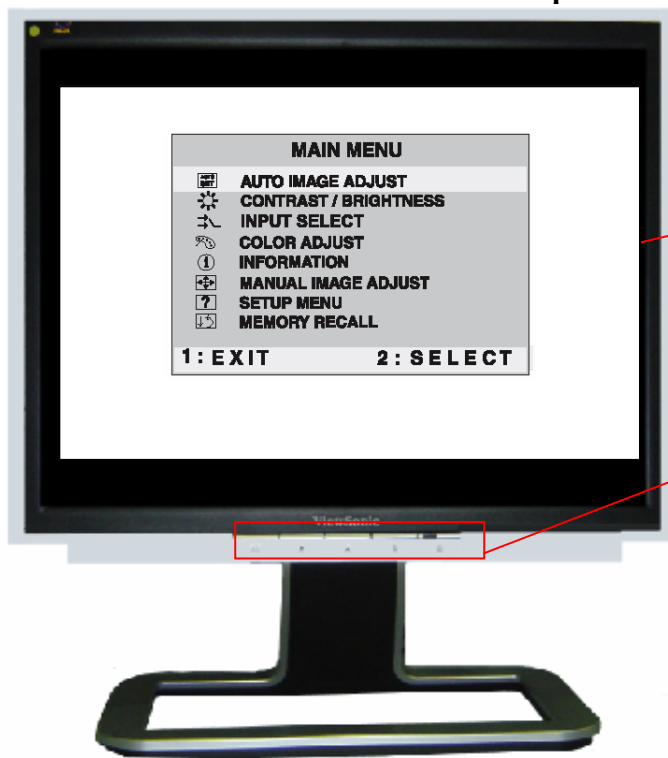
Pin Number	Pin Function
1	Red video input
2	Green video input
3	Blue video input
4	No Connection
5	Ground
6	Red video ground
7	Green video ground
8	Blue video ground
9	+5V
10	H/V sync ground
11	No connection
12	(SDA)
13	Horizontal sync (Composite sync)
14	Vertical sync
15	(SCL)



DVI 24 PIN CONNECTOR

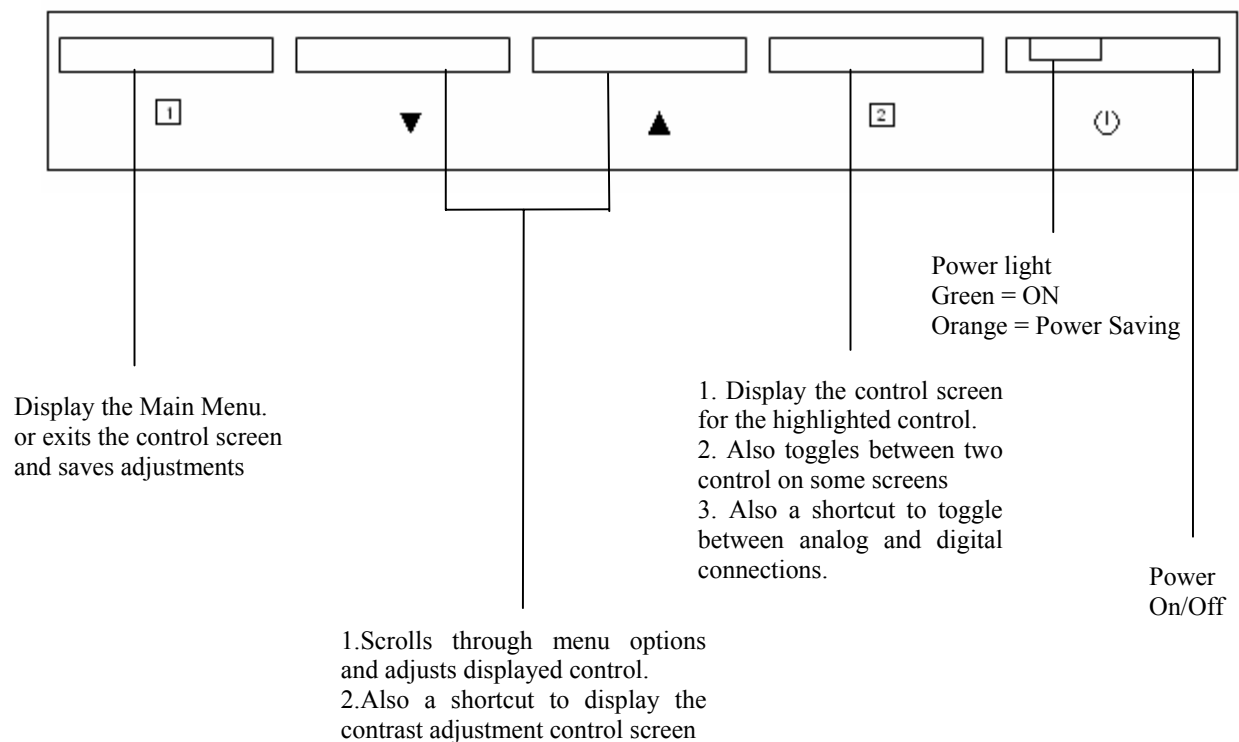
Pin No.	Signal Name	Description
1	RX2-	TMDS negative differential input, channel 2
2	RX2+	TMDS positive differential input, channel 2
3	GND	Logic Ground
4	Reserved 4	Reserved. No connection
5	Reserved 5	Reserved. No connection
6	DDC-CLK	DDC2B Clock
7	DDC-DAT	DDC2B Data
8	Reserved 8	Reserved. No connection
9	RX1-	TMDS negative differential input, channel 1
10	RX1+	TMDS positive differential input, channel 1
11	GND	Logic Ground
12	Reserved 12	Reserved. No connection
13	Reserved 13	Reserved. No connection
14	VCCX	Power
15	GND	Logic Ground
16	SENS	SENSE Pin, Pull High
17	RX0-	TMDS negative differential input, channel 0
18	RX0+	TMDS positive differential input, channel 0
19	GND	Logic Ground
20	Reserved 20	Reserved. No connection
21	Reserved 21	Reserved. No connection
22	GND	Logic Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock

3. Front Panel Function Control Descriptions



**Main Menu
With On View controls**

**Front Control Panel
Shown below in detail**



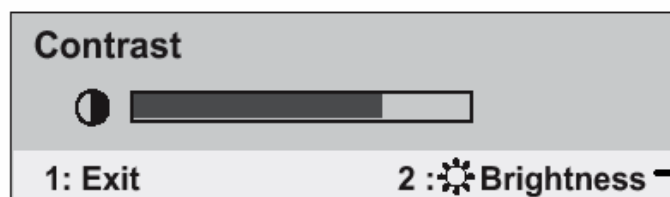
Do the following to adjust the screen image:

1. To display the Main Menu, press button: [1]



NOTE: All On View menus and adjustment screens disappear automatically after about 30 seconds.

2. To select a control you want to adjust, press ▲ or ▼ to scroll up or down the Main Menu.
3. After the control is selected, press button [2]. A control screen like the one shown below appears.



The line at the bottom of the screen tells you what you can do next: Exit or select the Brightness control.

4. To adjust the control press the up ▲ or down ▼ buttons.
5. To save the adjustments and exit the menu, press button [1] twice.

The following tips may help you optimize your display:

- Adjust your computer's graphic card so that it outputs a video signal 1280×1024@60Hz to the LCD display.
- If necessary, make small adjustments using H-Position and V-Position until the screen image is completely visible. (The black border around the edge of the screen should barely touch is illuminated "active area" of the LCD display.)

Main Menu Control

Adjust the menu items shown below by using up ▲ or down ▼ buttons.

Control explanation:



Auto Image Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion.

Press the [2] button to obtain a sharper image.

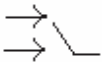
Note: 1. Auto Image Adjust works with most common video card. If this function does not work on your LCD display, then lower the video refresh rate to 60 Hz and set the resolution to its pre-set value.
2. The Auto Image Adjust and most Manual image Adjust functions are not available for DVI input



Contrast adjusts the difference between the image background (black level) and the foreground (white level).



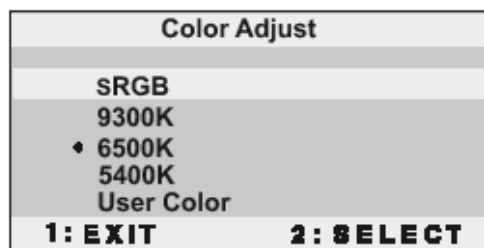
Brightness adjusts background black level of the screen image.



Input Select allow you to toggle between an analog and a digital signal.



Color Adjust provides several color adjustment modes: preset color temperature and RGB which allow you to adjust red (R), green (G), blue (B) separately. The factory setting for this product is 6500K (6500 Kelvin).



sRGB — sRGB is quickly becoming the industry standard for color management, with support being included in many of the latest applications. Enabling this setting allows the LCD display to more accurately display colors the way they were originally intended. Enabling the sRGB setting will cause the Contrast and Brightness adjustments to be disabled.

9300K — Adds blue to the screen image for cooler white (used in most office setting with fluorescent lighting).

6500K — Adds red to the screen image for warmer white (used in most office setting with fluorescent lighting).

5400K — Adds green to the screen image for a darker color.

5000K — Adds blue and green to the screen image for a darker.

User Color — Individual adjustments for red (R), green (G), blue (B).

1. To select color (R, G or B) press button [2].
2. To adjust selected color, press ▲ or ▼.

Important: If you select **RECALL** from the Main Menu when the product is set to a Preset Timing Mode, colors return to the 6500K factory preset.



Information displays the timing mode (video signal input) coming from the graphics cards in your computer.

NOTE: VESA 1280×1024@60Hz (recommended) means that the resolution is 1280×1024 and the refresh rate is 60Hz.

Information		
H. Frequency:	31.47	KHz
V. Frequency:	31.47	Hz
Pixel Clock:	24.80	MHz
Resolution:	640 x 480	
Model No. :		
Serial No. :		
www.viewsonic.com		
1: Exit		



Manual Image Adjust controls are explained below:

Horizontal Position moves the screen image left or right.

Vertical Position moves the screen image up or down.

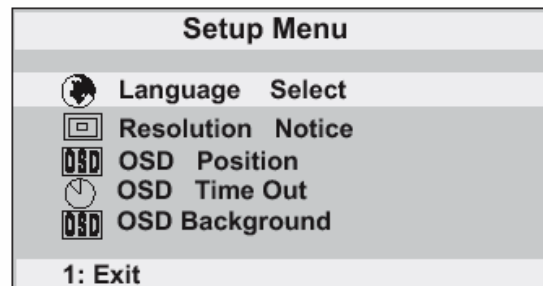
Horizontal Size adjusts the width of the screen image.

Fine Tune sharpens focus by aligning the illuminated text and or graphic characters.

Sharpness adjusts the clarity and focus of the screen image.



Setup Menu displays the menu shown below.



The **Setup Menu** controls are explained below:

Language allows you to choose the language used in the menus and control screens.

Resolution Notice displays the Resolution Notice menu, advises the optimal resolution to use.

OSD Position allows you to move the on-screen display menus and control screens.

OSD Timeout sets the length of time an on-screen display screen is displayed. For example, with a “15 second” setting, if a control is not pushed within 15 seconds, the display screen disappears.

OSD Background allows you to turn the On-Screen-Display background on or off.



Memory Recall returns adjustments to the original factory settings if the display is operating in a factory Preset Timing Mode listed in this user guide.

Exception: This control does not affect changes made with the User Color control, Language and Power Lock setting.

Short Cut Key

Function key: 5 keys [1] [▼] [▲] [2] [⏻]

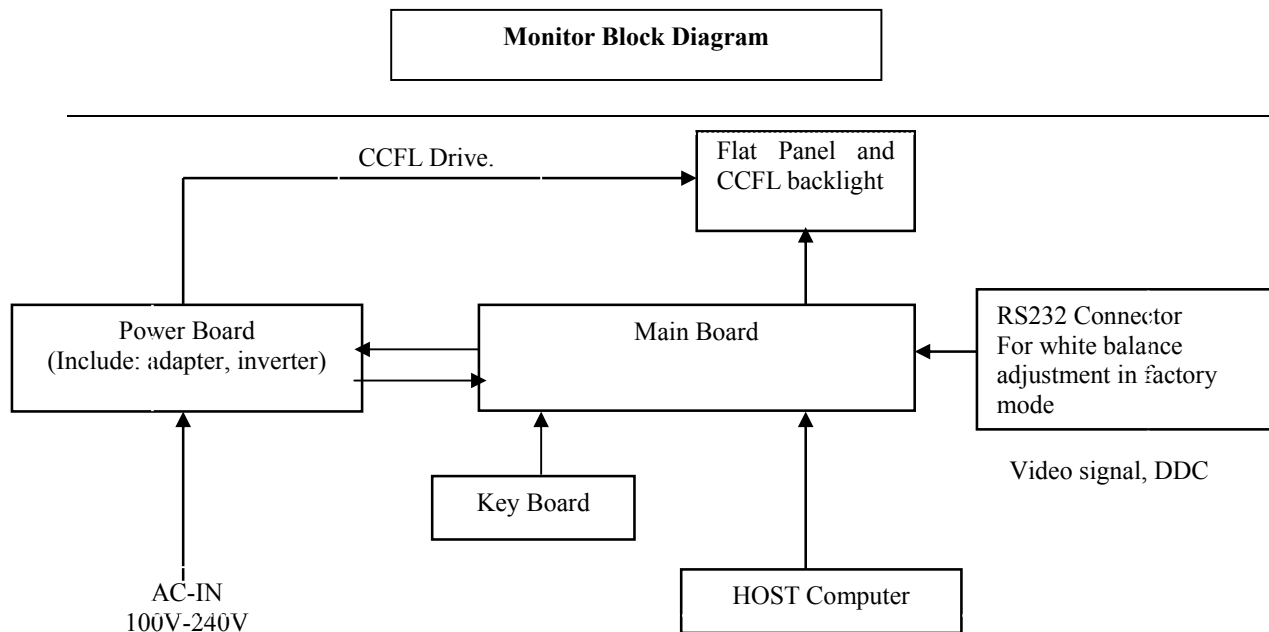
[1]	Main Menu
[2]	Input toggle (Analog or Digital) or Auto Image Adjust.
[▼] or [▲]	to immediately activate Contrast menu. It should be change to Brightness OSD by push button [2]
[▼]+[▲]	recall both of Contrast and Brightness to default
[1] + [2]	toggle 720x400 and 640x400 mode when input 720x400 or 640x400 mode
[1] + [▼] + [▲]	White Balance. (Not shown on user's guide)
[1] + [▼]	Power Lock
[1] + [▲]	OSD Lock
[2] + [⏻]	Factory Mode
Remark: All the short cuts function are only available while OSD off	

4.Function Module Description

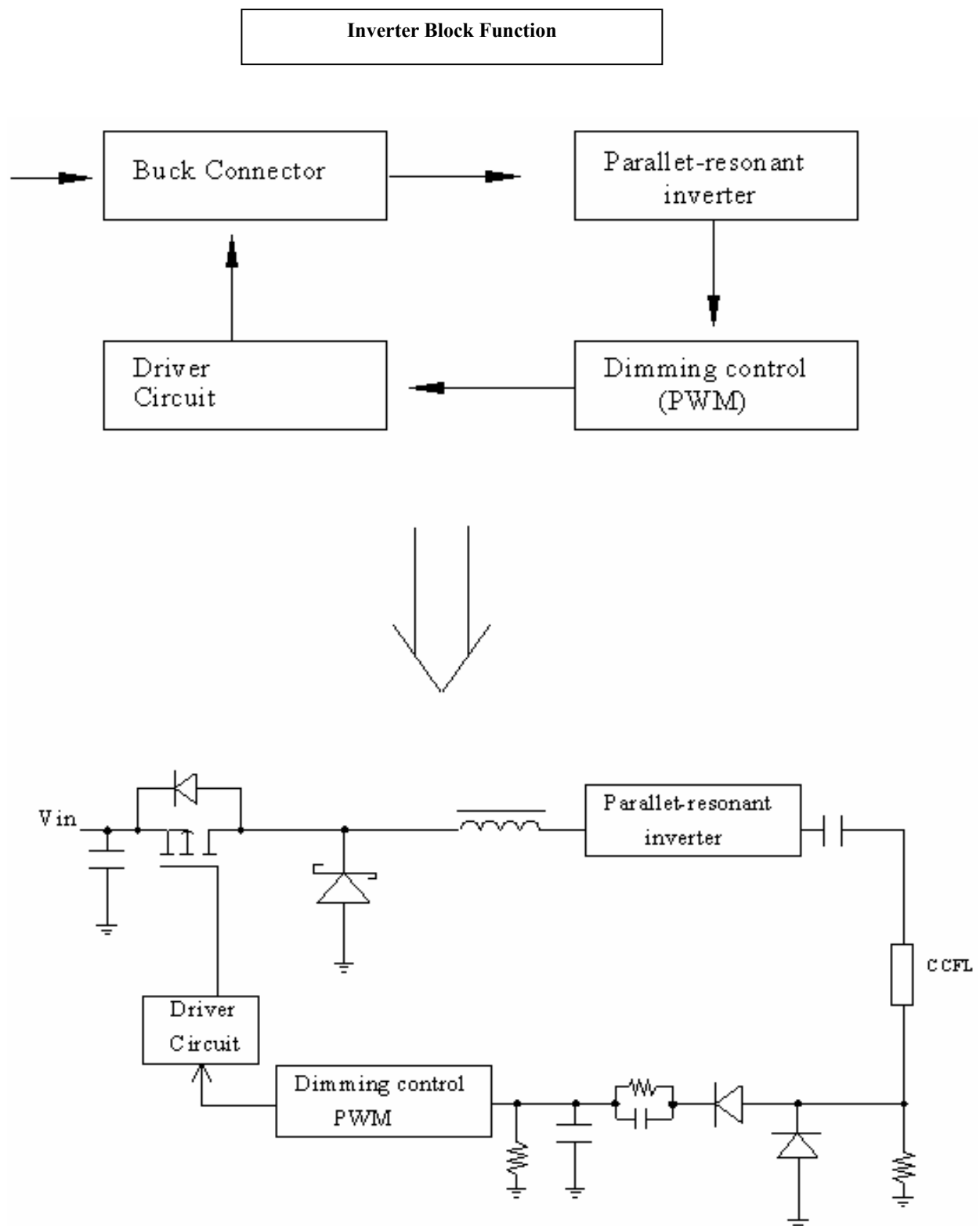
4.1 LCD MONITOR DESCRIPTION

The LCD MONITOR will contain a Main Board, a Power Board, and Key Board which house the flat panel control logic, brightness control logic and DDC.

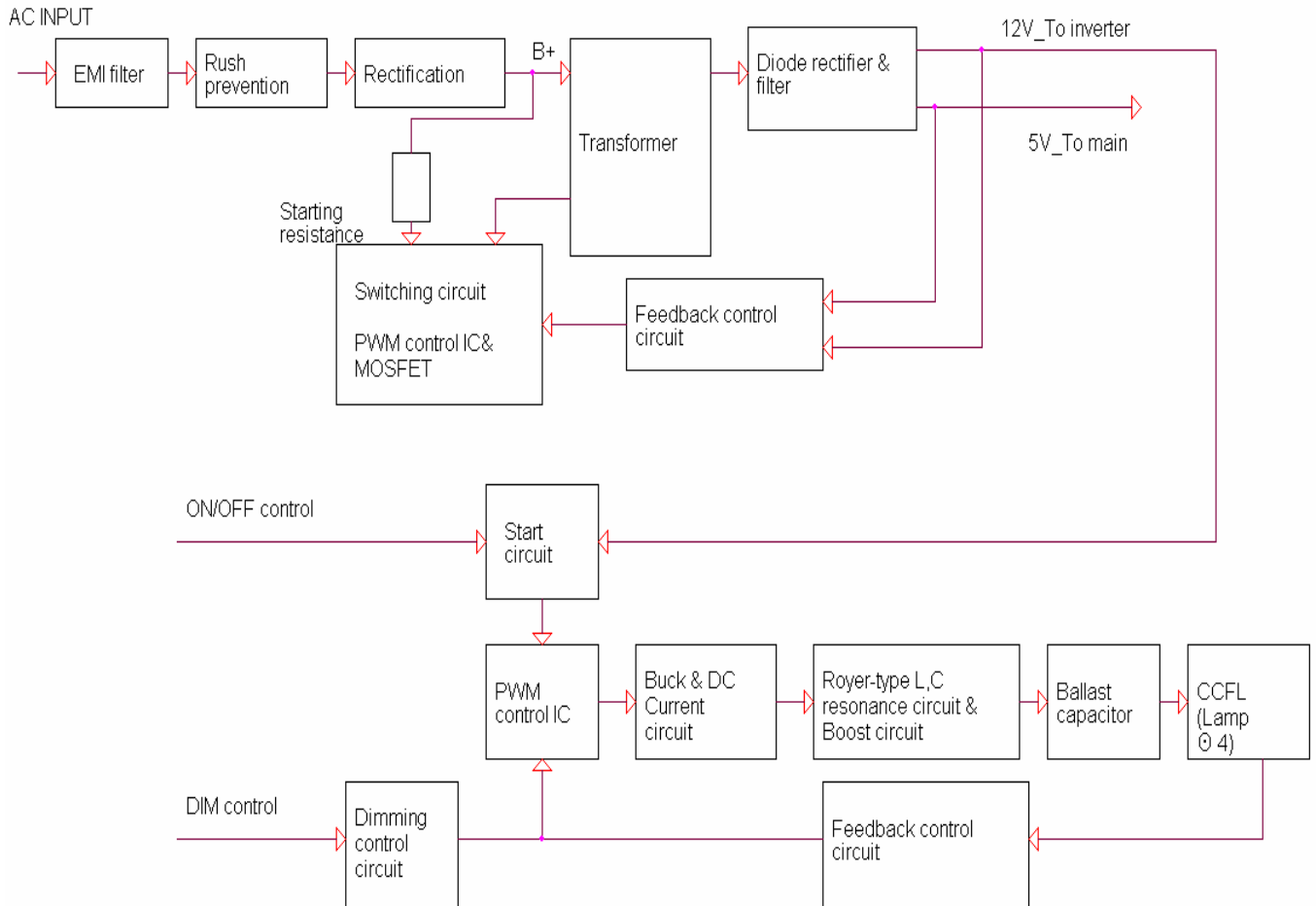
The Power Board will provide AC to DC Inverter voltage to drive the backlight of panel and the Main Board chips each voltage.



4.2 POWER BLOCK FUNCTION DESCRIPTION



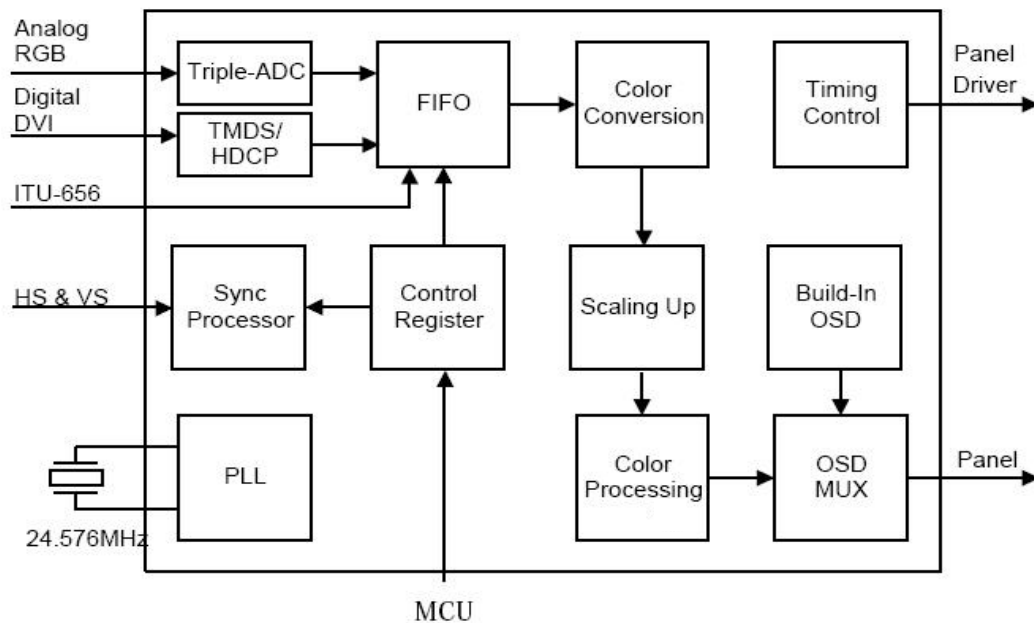
Power Block Function



4.3 Description of Main Chips

MCU: main function is power control, OSD control, frequency calculation, RS232 communication and so on.

RTD2523: integrate ADC, OSD, SCALER, TCON, RSDS, LVDS, convert analog RGB into digital and room and shrink scaling output to LCD panel.



AP1084: DC power convert, used to 5v convert 3.3v.

RT9164: DC power convert, used to 3.3v convert 2.5v.

24C02: EEPROM, is used to save DDC data which contains the basic parameter of facility, supplier, product name, maximum H-frequency, support resolution and so on.

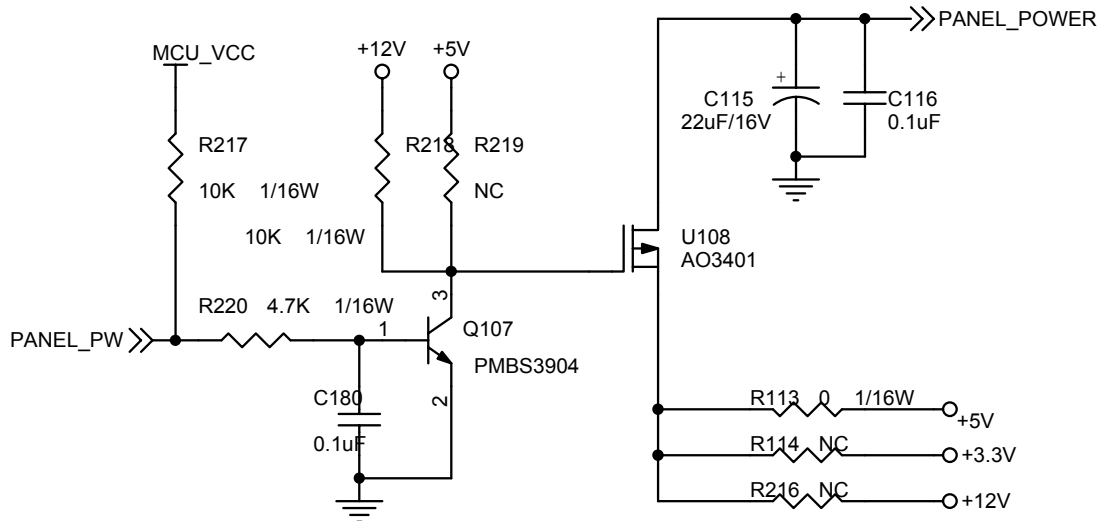
M24C16: EEPROM, is used to save Auto config data, white balance data, the state of power key and power on counting data.

BA9741F: PWM control, voltage range for working: 3.6~35V, Has such functions as short-voltage protection, Over-voltage protection, over-current protection and etc. The function of each pin is as follows:

PIN	NAME	FUNCTION	PIN	NAME	FUNCTION
1	CT	External timing capacitor	9	VCC	Power supply
2	RT	External timing resistor	10	2OUT	Output 2
3	1IN+	Positive input for error amplifier 1	11	2DTC	Output 2 dead time/soft start setting
4	1IN-	Positive input for error amplifier 2	12	2FBK	Error amplifier 2 output
5	1FBK	Error amplifier 1 output	13	2IN+	Positive input for error amplifier
6	1DTC	Output 1 dead time/soft start setting	14	2IN-	Positive input for error amplifier
7	1OUT	Output 1	15	SCP	Timing latch setting
8	GND	Ground	16	REF	Reference voltage output (2.5v)

4.4 Panel Control Circuit

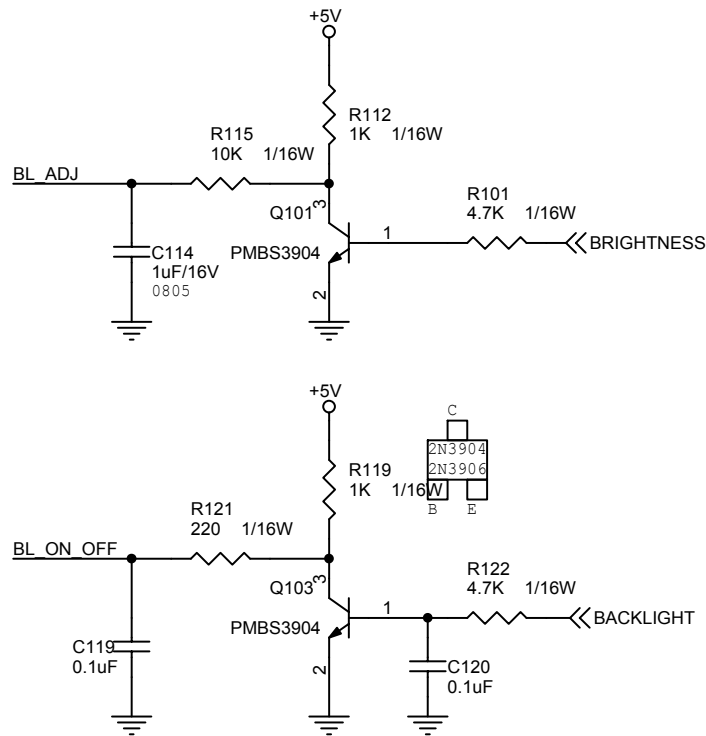
The high level output from U104 makes Q107, Q108 break through, and offer 5V to panel when work well. The output is low level when it's saving energy state and Q107, Q108 break off, so the panel doesn't work



4.5 On/Off/Brightness control circuit

ON/OFF control: When it works well, the outputs are low level, and high in saving energy state.

Brightness control: When it works well, the output PWM pulse from PIN55 of IC101 adjusts the brightness, the smaller the duty, and the higher the brightness.



5. Adjust Procedures

5.1 ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

5.2 MAIN ADJUSTMENTS

NO.	FUNCTIONS	DESIGNATION
1.	White Balance	Function Key
2.	GEOMETRY	Function Key

5.3 ALIGNMENT PROCEDURES

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. Adjust of White Balance

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 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.CHANNEL9 (9300 color):

9300 color temp. parameter is $W_x = 0.283 \pm 0.03$; $W_y = 0.298 \pm 0.03$;

$$Y = 250 \pm 20 \text{ cd/m}^2$$

B. MEM.CHANNEL10 (6500 color):

6500 color temp. parameter is $W_x = 0.313 \pm 0.03$; $W_y = 0.329 \pm 0.03$;

$$Y = 250 \pm 20 \text{ cd/m}^2$$

C. MEM.CHANNEL 11 (5400 color):

5400 color temp. parameter is $W_x = 0.335 \pm 0.03$; $W_y = 0.350 \pm 0.03$;

$$Y = 250 \pm 20 \text{ cd/m}^2$$

3). Into factory mode of VX715

A. First Power off, then press Switch 2 button along with press Power button will activate the factory mode, and then MCU will do AUTO LEVEL automatically. Meanwhile press MENU the OSD screen will locate at **LEFT TOP OF PANEL**.

4). Bias adjustment:

Set the **Contrast**  to 70

Adjust the **Brightness**  to 100.

5). Gain adjustment:

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

A. Adjust 9300 color-temperature

- (1). Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
- (2). Switch the MEM. channel to Channel 9 (with up or down arrow on chroma 7120)
- (3). The LCD-indicator on chroma 7120 will show $x = 0.283 \pm 0.03$, $y = 0.298 \pm 0.03$, $Y = 250 \pm 20 \text{ cd/m}^2$
- (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 $=100 \pm 5$

B. Adjust 6500 color-temperature

- (1). Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
- (2). Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
- (3). The LCD-indicator on chroma 7120 will show $x = 0.313 \pm 0.03$, $y = 0.329 \pm 0.03$, $Y = 250 \pm 20 \text{ cd/m}^2$
- (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 $=100 \pm 5$

C. Adjust 5400 color-temperature

- (1) Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
- (2). Switch the MEM.channel to Channel 11 (with up or down arrow on chroma 7120)
- (3). The LCD-indicator on chroma 7120 will show $x = 0.335 \pm 0.03$, $y = 0.350 \pm 0.03$, $Y = 250 \pm 20 \text{ cd/m}^2$
- (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 ± 5

D. Press reset key and Turn the Power-button “off to on” to quit from factory mode.

2. Geometry

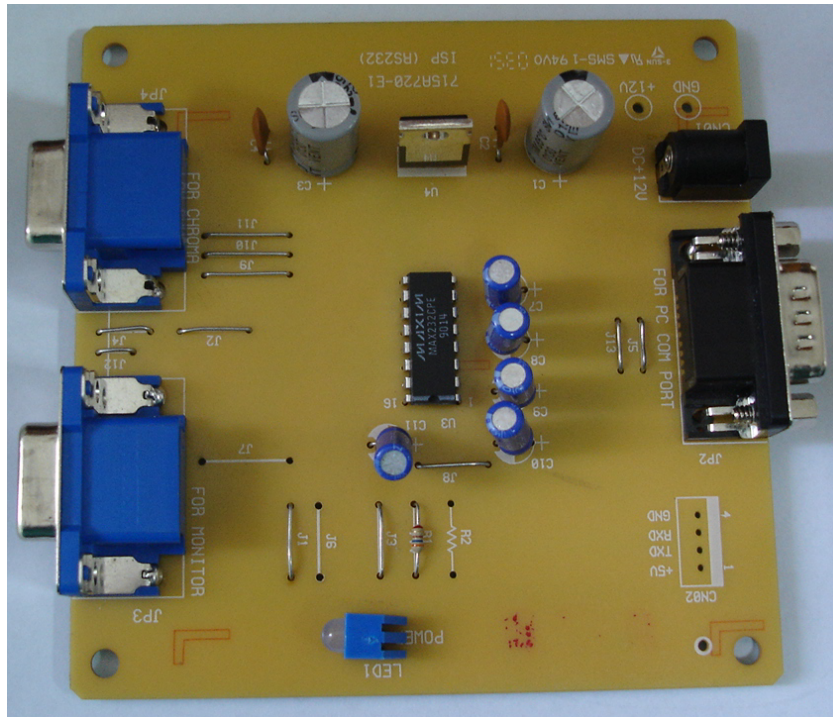
- 1). Set cross-hatch pattern and preset timing as timing table listed.
- 2). Change to each mode in turn and wait for the monitor finish auto-alignment and save press before change to next mode.
- 3). Until all of modes are adjusted, exit OSD menu and press PWR OFF to exit factory mode.

5.4 Firmware update procedure

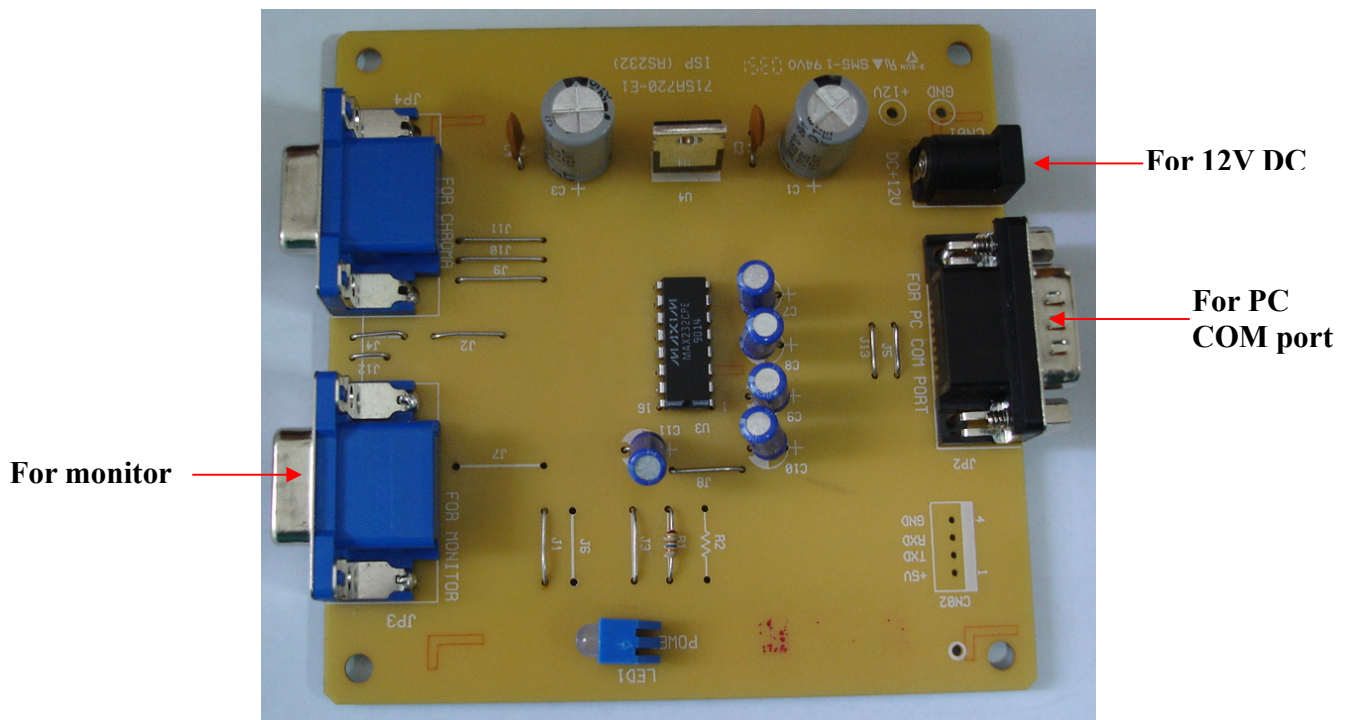
1. Equipment needed:

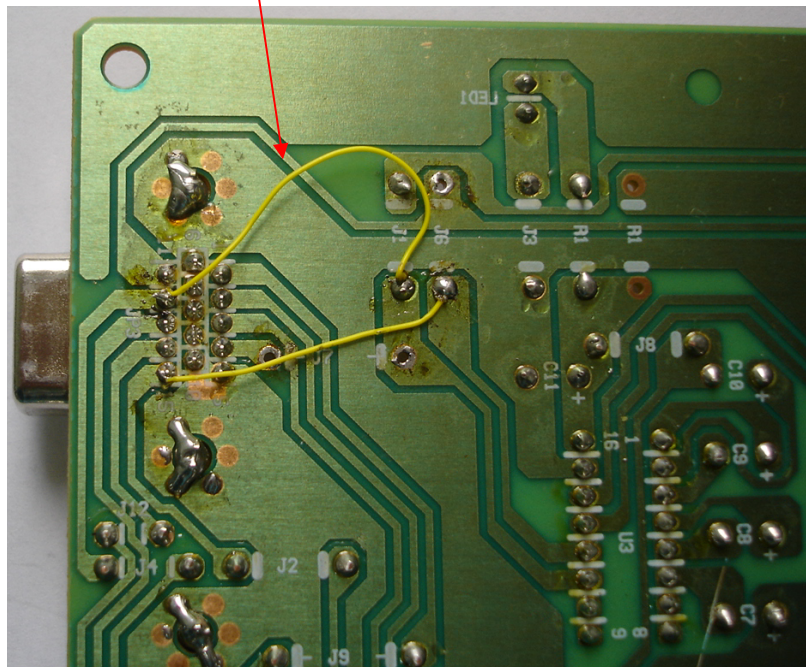
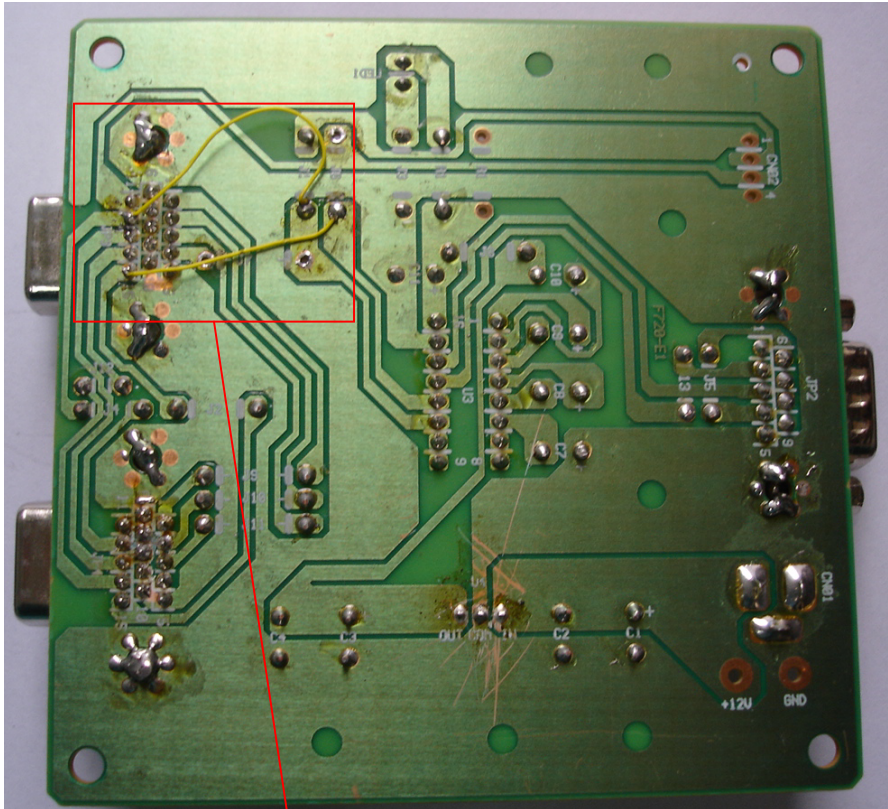
- VX715
- PC (Personal computer)
- LPT cable
- 12V DC
- Firmware upgrade program





2. Connection





- Remark: 1.Cancel J6 and J7.**
2. Connect Pin11 of U3 to Pin12 of D-SUB, and Pin12 of U3 to Pin 15 of D-SUB.

3. Operation Steps

a. Preparing Action

1. Connect the PC, ISP writer board and Monitor with signal cable, Ensure supplying normal power to PC, ISP Writer Board and monitor
2. All along press key [▼], [2] of the monitor, which will be written (the second key and fourth key count from left to right), and pull out and insert the 220V AC plug of power cable to make the monitor entering ISP Write mode at the same time, until 'ISP' appeared;



3. Open “8051IspWriter.exe” program in PC, click ”Select Chip” to select the type of the MCU:”W78E65” (see figure 1), then click “Select Bank0” to select the relevant firmware: vsc-8131b-CPT17EA03-v015.hex, and select the right file format “inte He” (see figure 2).

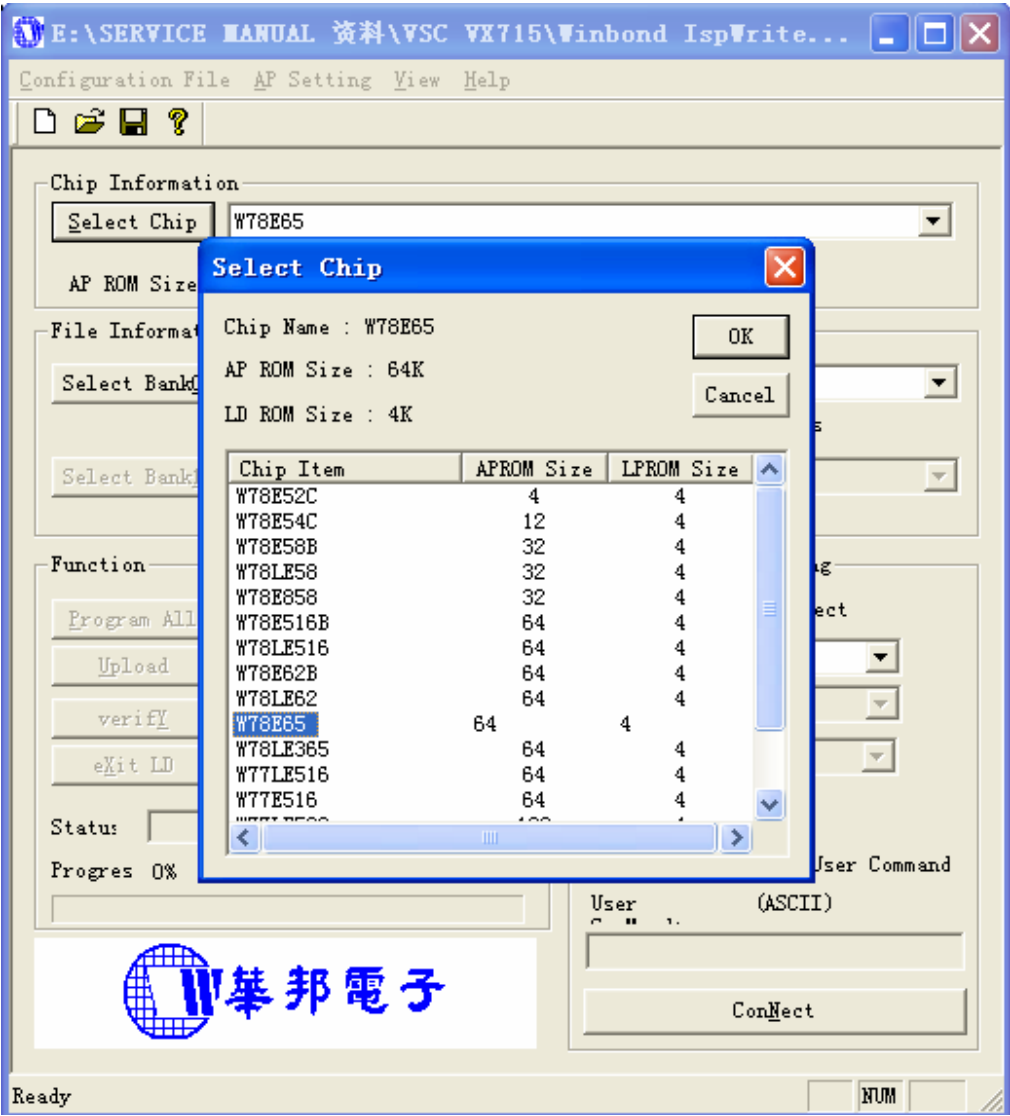


Figure 1

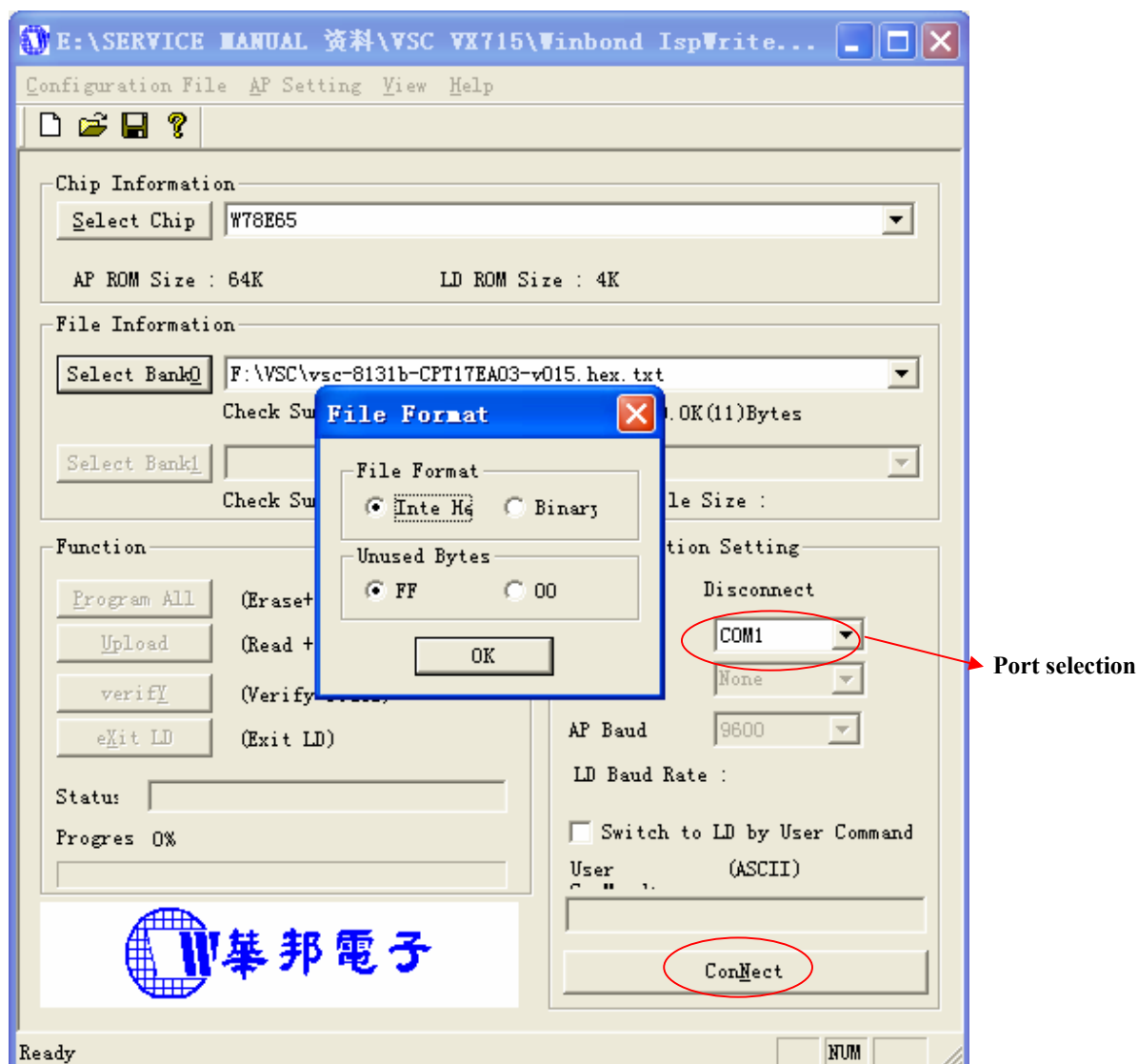


Figure 2

4. If PC has more than two COM ports, you must select the right COM port to make sure the normal communication

b. ISP Writer

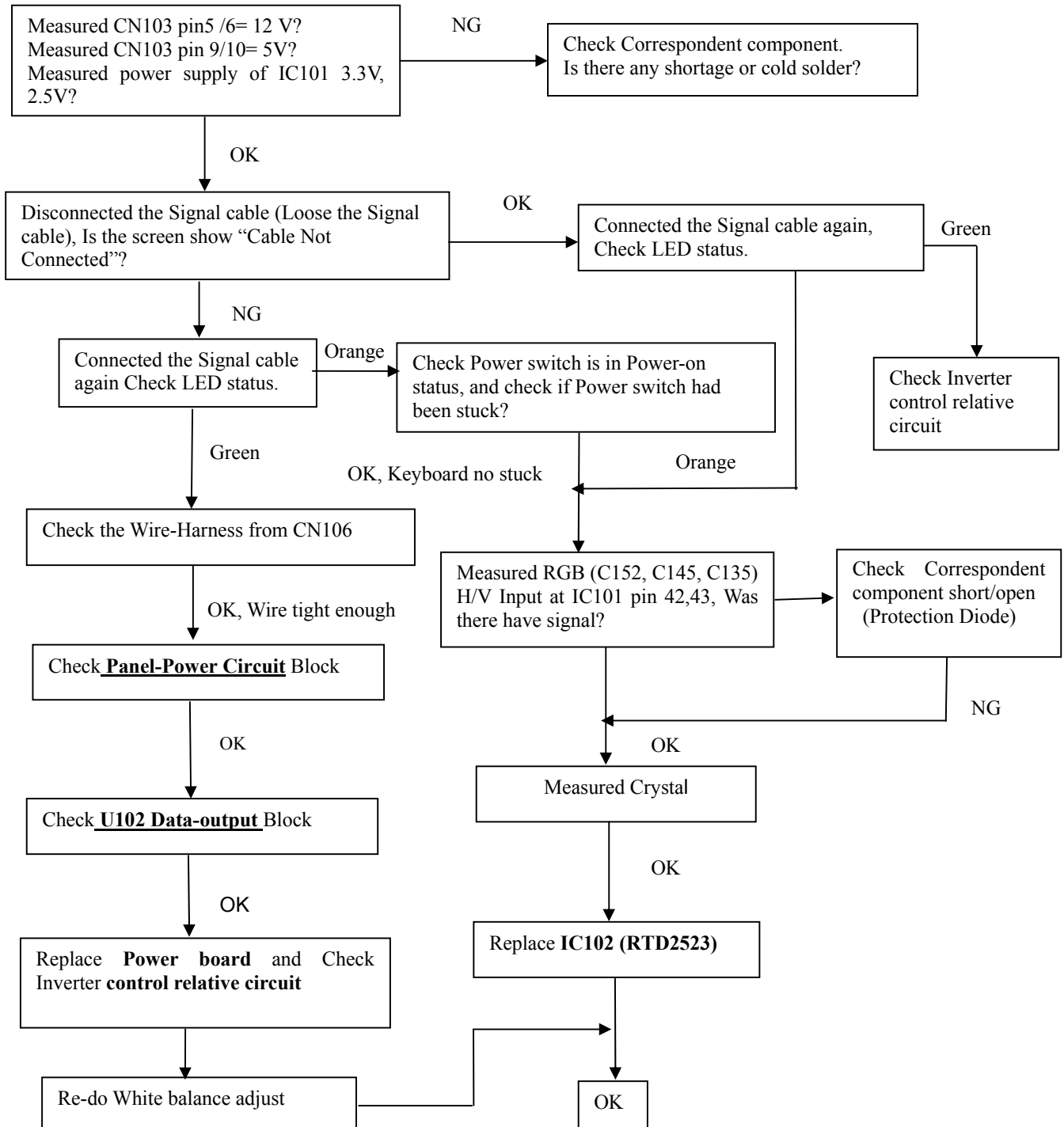
1. Click ConNect on the 8051IspWriter.exe interface, then click "Program All" to Write ISP program; or "Program All" is gray, which is unused. In the time, please check whether the signal cable is connected OK, then check whether the Monitor had entered ISP mode, and make it right;
2. After the ISP written OK, click button "OK", then click "eXit LD" to make the Monitor out of ISP writer mode, to get into user Mode;
3. Repeat the above steps for the next monitor.

c. Attention

- 1.Ensure supplying normal power to PC, ISP Writer Board and monitor, during ISP Writing.
- 2.If ISP Write fail, change the MCU

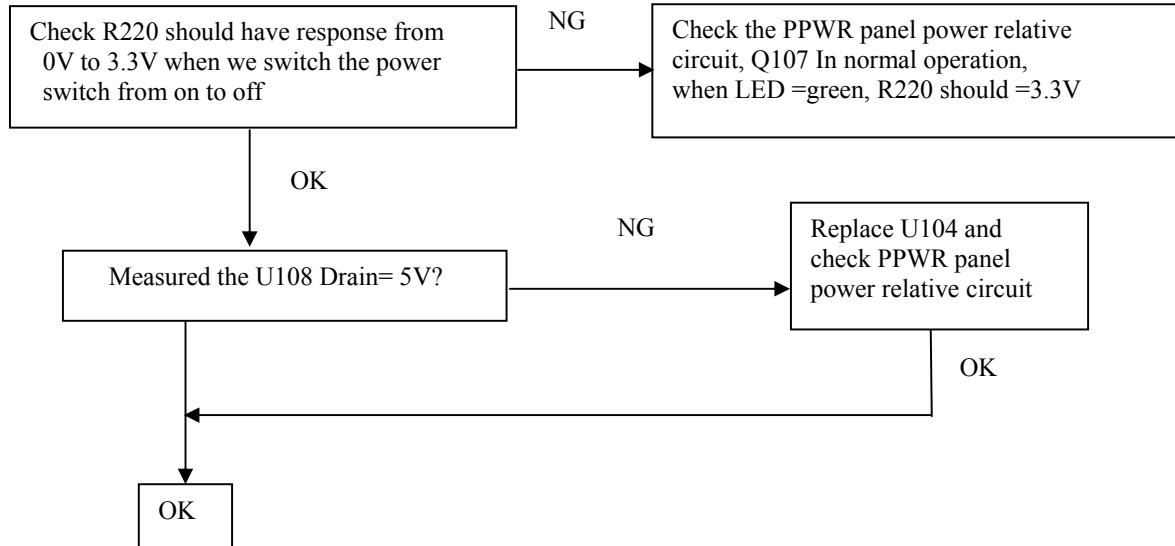
6. Trouble Shooting Flow Chart

6.1 No Display On Screen

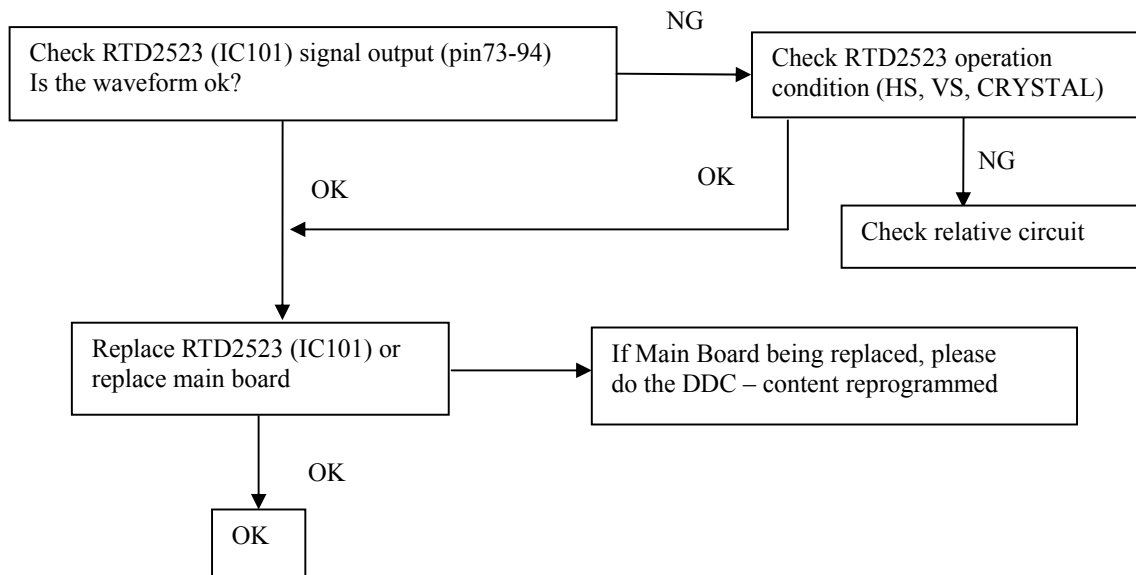


Note: 1. If replace “**Main-Board**”, Please re-do “DDC-content” programmed & “White-Balance”.
2. If replace “**Power Board**” only, Please re-do “White-Balance”

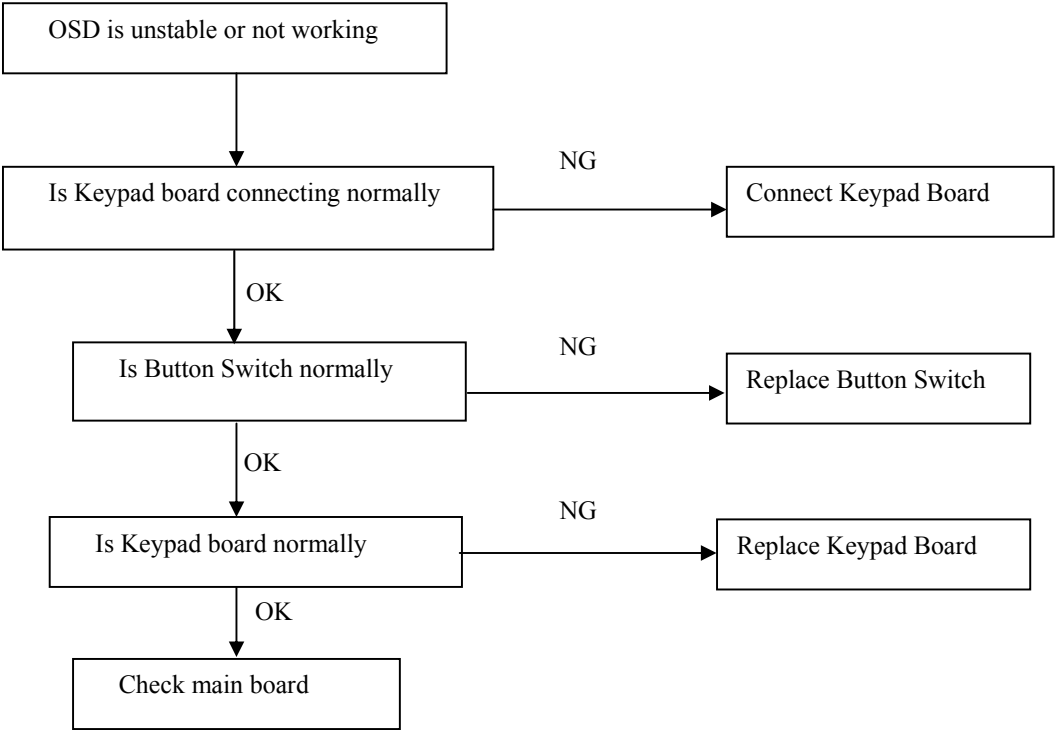
6.1 Panel Power Circuit



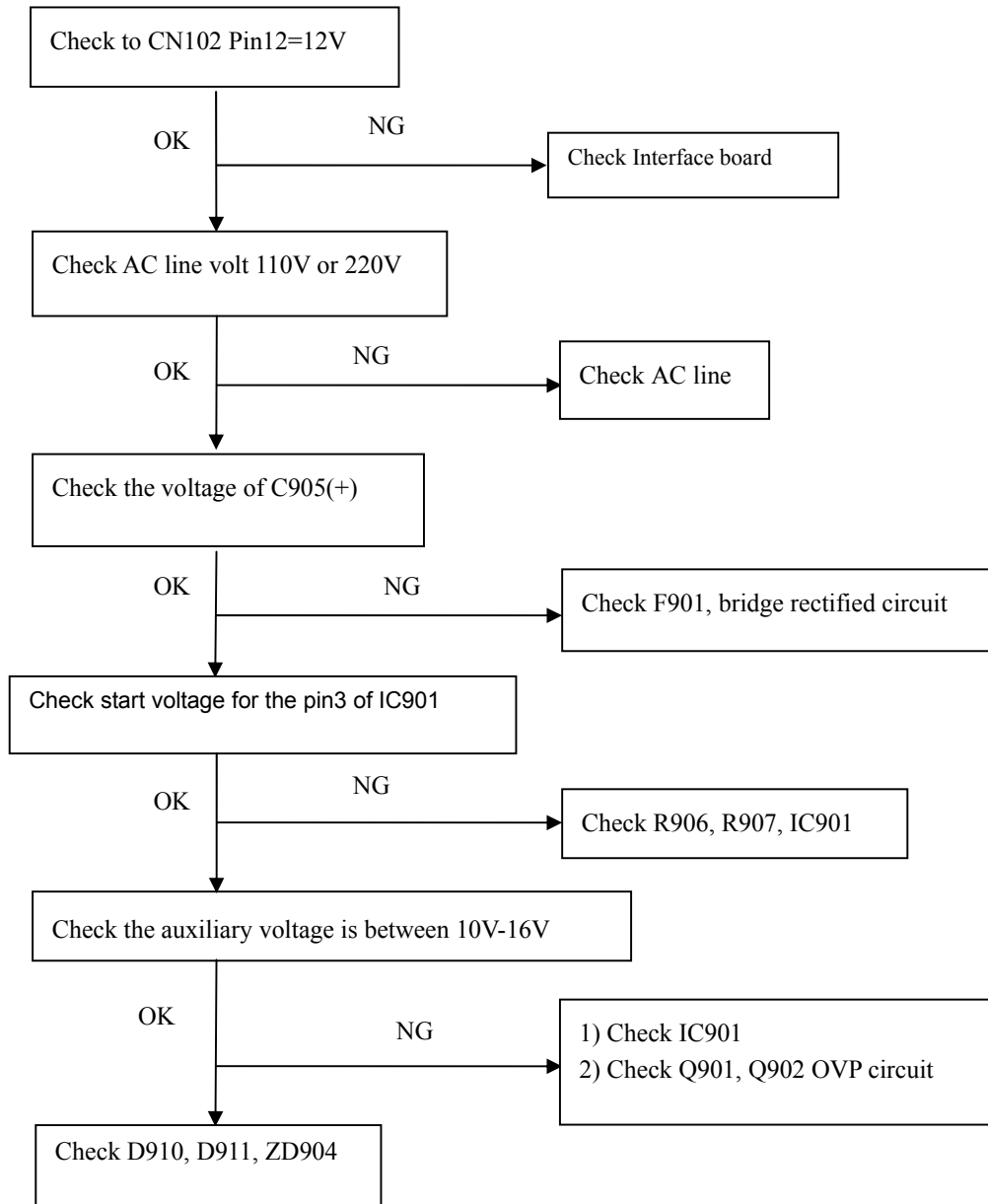
6.2 IC101-Data Output



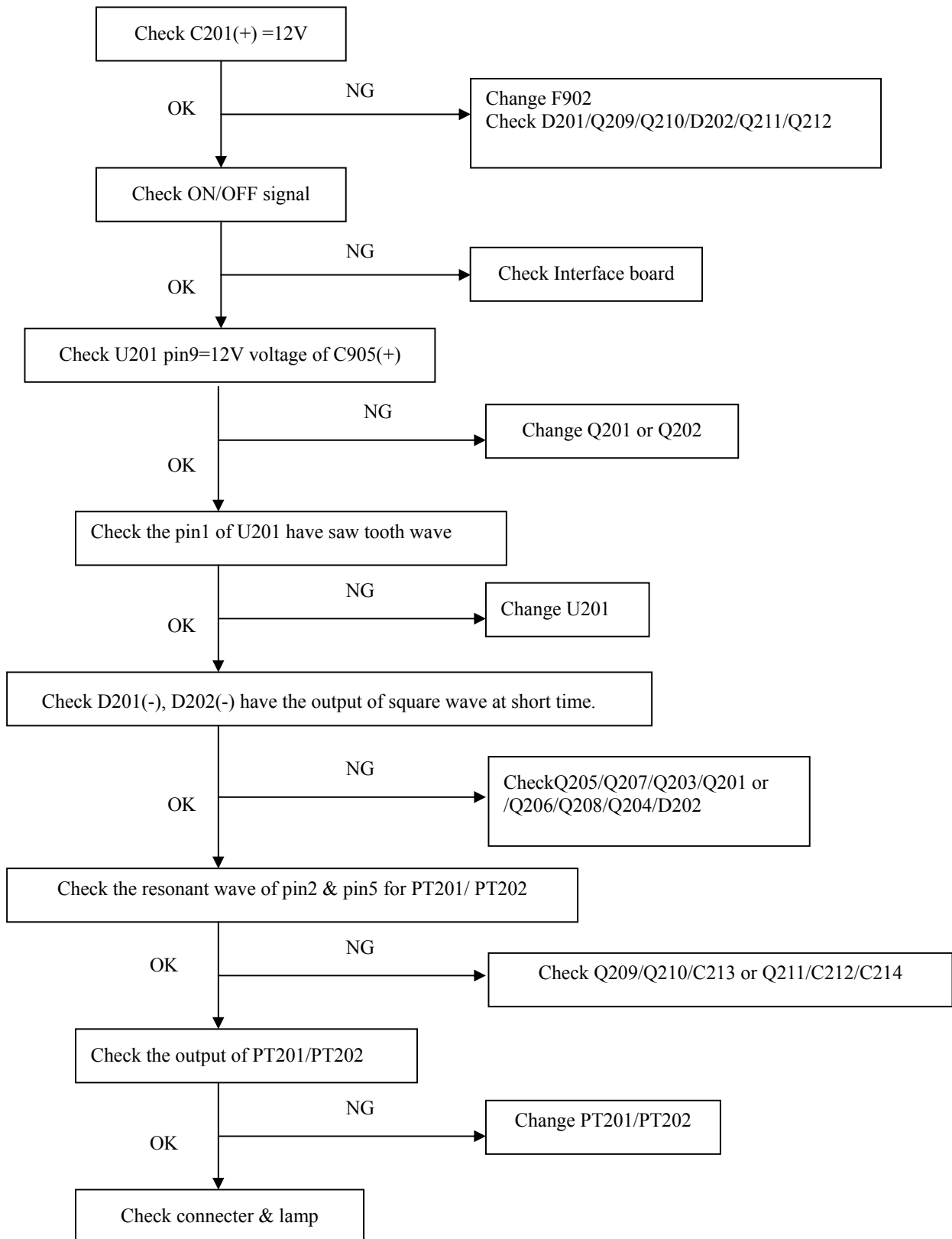
6.4 Keypad Board



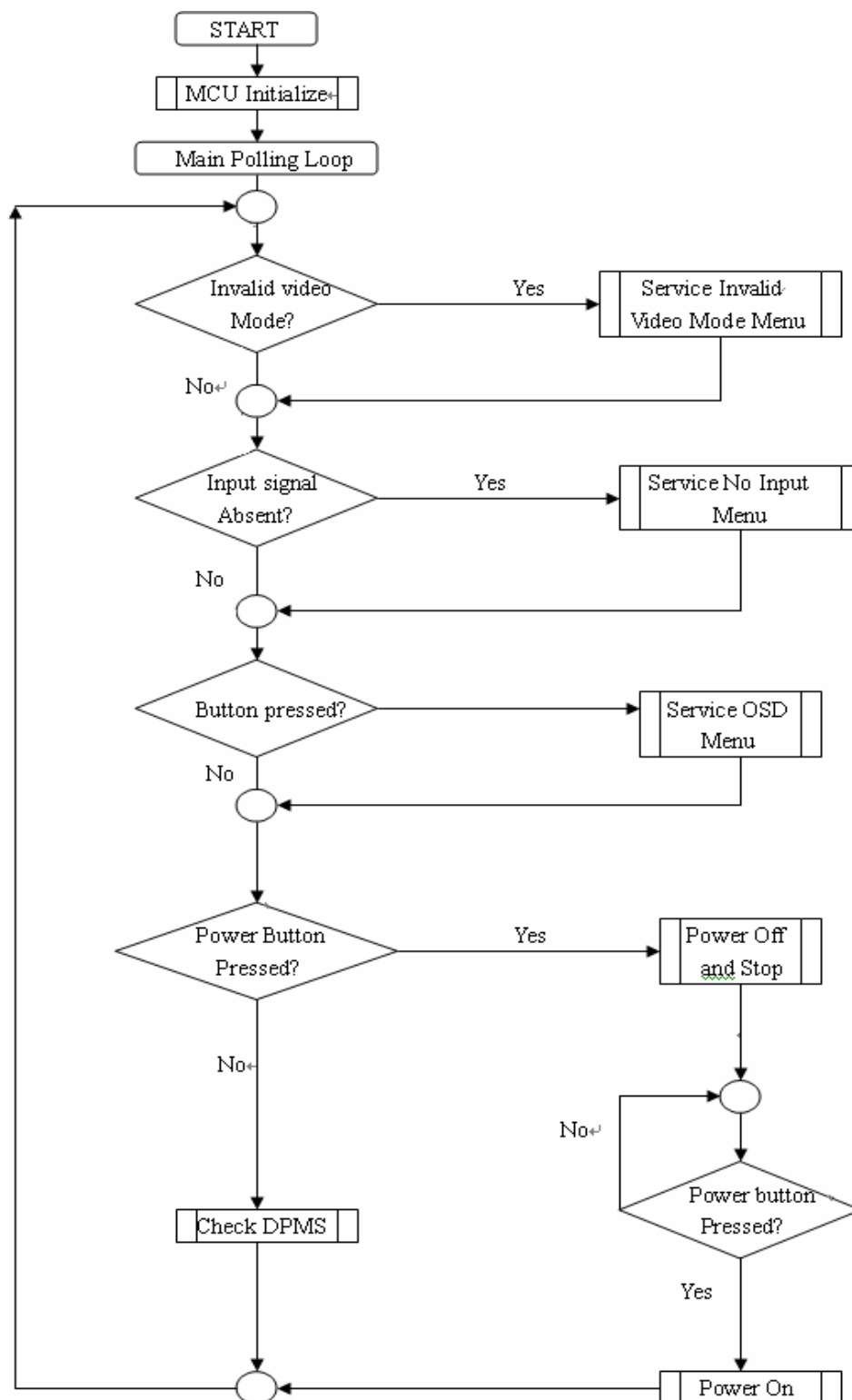
6.5 No Power



6.6 No Backlight



6.7 Software Flow Chart



7. Recommend Spare Part List

VX715 BOM List

Location	Part NO	Description	Quantity	Remark
	52L6020 1	PROTECT FILM	1	
	CBPC780KCWVW	CONVERSION BOARD	1	
	KEPC780KC9	KEY BOARD	1	
	PWPC1742CPV1	POWER BOARD	1	
	15L8012 1	MAIN FRAME	1	
	23L3178709 2A	VSC17-LCD BACKCOVER	1	
	34L1326 KR B	STAND-R-COVER	1	
	34L1327 KS B	BUCKET-R-COVER	1	
	40L 190709 1B	ID LABEL	1	
	40L 459709 1B	CARTON LABEL	1	
	40L 459709 2B	S/N LABEL	1	
	40L 459709 4A	H/V WARNING LABEL	1	
	40L 459709 5A	HI-POT LABEL FOR 17-LCD	1	
	40L 58162435A	LABEL	1	
	41L7800709 4A	QSG	1	
	44L3231 14	EVA WASHER	1	
	44L3231 15	EVA WASHER	1	
	44L3734 1	EPS (L)	1	
	44L3734 2	EPS(R)	1	
	44L3734709 2A	CARTON	1	
	45L 76 28 V3	PE BAG FOR MANUAL	1	
	45L 88607	PE BAG FOR MONITOR	1	
	45L 88609 4	EPE COVER	1	
	45L 88609 B	EPE COVER	1	
	50L 600 2	HANDLE1	1	
	50L 600 3	HANDLE2	1	
	52L 1185 24	VSC TAPE	5	
	52L 1186	SMALL TAPE	8	
	52L6025 11655	MYLAR	1	
	52L6025 11675	MYLAR	1	
	70L1700709 3B	CD MANUAL	1	
	85L 662 1	SHIELD	1	
	89L1738LAA 5	D-SUB	1	
	89L402A18N YH	POWER CORD	1	T782KCWHTDVWN/ T782KCWHKDVWN
	89L404A18N YH	POWER CORD	1	T782KCWHBDVWN
	89L414A18N YH	POWER CORD	1	T782KCWHDDVWN
	95L8014 12 12	POWER LINE 16P-12P	1	
	95L8018 30 33	HARNESS 110MM 24P-30P	1	
	M1L 140 6120	SCREW M4X6	8	

	M1L 330 4128	SCREW M3X4	2	
	M1L 330 6128	SCREW	4	
	M1L1030 6128	SCREW	2	
	M1L1140 6120	SCREW	1	
	M1L1730 6128	SCREW M3x6	8	
	M1L2130 4 47	SCREW	4	
	705L782KB34 59	BEZEL ASS'Y	1	
	750LLC70A2Q	CPT 17" 073 PANEL	1	
	AIC780KKWVW	MAIN BOARD	1	
	40L 457624 1B	CPU LABEL	1	
	40L 45762412B	CBPC LABEL	1	
	33L4728 1	LENS	1	
	34L1320 KS B	BEZEL	1	
	34L1321AKD B	MIDDLE BEZEL	1	
	34L1322 KS B	BUCKET	1	
	34L1323 KD B	STAND	1	
	34L1325 KR B	STAND-F-COVER	1	
	37L 497500	HINGE	1	
	M1L1740 10128	SCREW	4	
	Q1L 330 7120	SCREW	8	
	Q1L1030 12128	SCREW	4	
C109	67L305V221 3	CAPEC 220U/16V	1	
C110	67L309V220 3	22UF +-20% 16V	1	
C113	67L305V101 3	1000UF +-2 16V	1	
C115	67L309V220 3	22UF +-20% 16V	1	
C137	67L305V220 3	22UF 16V	1	
C147	67L305V220 3	22UF 16V	1	
C158	67L305V220 3	22UF 16V	1	
C163	67L305V220 3	22UF 16V	1	
CN102	33L8027 16	WAFER 16PIN 2.0mm DIP	1	
CN103	33L8027 12	WAFER 2*6P 2.0MM R/A	1	
CN104	88L 35424F HS	DVID CONN 24P	1	
CN105	88L 35315F HS	D-SUB 15PIN FEMALE	1	
CN106	33L801724A	PIN HEADER 24P 2.0mm	1	
U104	56L1125543CV2	MTV512MV PLCC-44 MYSON	1	
Y101	93L 22 45 J	24MHZ/30PF/49US	1	
Y102	93L 22 58 H	XTAL 24.576MHZ/30PPM HC	1	
	715L1373 F	PCB	1	
C102	65L0603102 31	CHIP 1000PF 50V NPO	1	
C103	65L0603102 31	CHIP 1000PF 50V NPO	1	
C104	65L0603102 31	CHIP 1000PF 50V NPO	1	
C105	65L0603102 31	CHIP 1000PF 50V NPO	1	
C106	65L0603102 31	CHIP 1000PF 50V NPO	1	
C107	65L0603102 31	CHIP 1000PF 50V NPO	1	
C111	65L0603104 32	CHIP 0.1UF 50V X7R	1	

C112	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C114	65L0603105 17	1UF 16V Y5V	1	
C116	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C119	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C120	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C125	65L0603100 31	CHIP 10PF+-0.5PF 50V NP	1	
C126	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C127	65L0603100 31	CHIP 10PF+-0.5PF 50V NP	1	
C128	65L0603100 31	CHIP 10PF+-0.5PF 50V NP	1	
C129	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
C130	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C131	65L0603509 31	CHIP 5PF+-0.5PF 50V NPO	1	
C132	65L0603509 31	CHIP 5PF+-0.5PF 50V NPO	1	
C135	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C138	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C139	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C140	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C141	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C142	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C143	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C144	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C145	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C148	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C149	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C150	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C151	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C152	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C154	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C155	65L0603473 32	CHIP 0.047UF 50V X7R	1	
C156	65L0603220 31	CHIP 22PF 50V NPO	1	
C157	65L0603120 31	CHIP 12pF 50V NPO	1	
C159	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C160	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C161	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C162	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C164	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C165	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C166	65L0603220 31	CHIP 22PF 50V NPO	1	
C167	65L0603220 31	CHIP 22PF 50V NPO	1	
C168	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C169	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C170	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C171	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C172	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C176	65L0603104 32	CHIP 0.1UF 50V X7R	1	

C177	65L0603105 17	1UF 16V Y5V	1	
C180	65L0603104 32	CHIP 0.1UF 50V X7R	1	
D102	93L 64 42 P	BAV70 SOT-23	1	
D103	93L 60505	BAT54C SOT23	1	
D104	93L 6433P	BAV99	1	
D105	93L 6433P	BAV99	1	
D110	93L 6433P	BAV99	1	
D115	93L1004 3	SS14	1	
D116	93L1020 1 S	GS1D	1	
IC101	56L 562 75	RTD2523 QFP-128	1	
L101	71L 59C300	30 OHM BEAD	1	
L102	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
L103	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
L104	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
L105	71L 59C300	30 OHM BEAD	1	
L106	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
L107	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
L108	71L 59C300	30 OHM BEAD	1	
L109	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
L110	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
L111	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
L112	61L1206000	CHIPR 0 OHM +-5% 1/4W	1	
L115	71L 56Z601	CHIP BEAD 600 OHM 0805	1	
Q101	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	
Q103	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	
Q104	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	
Q105	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	
Q107	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	
R101	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R103	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R104	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R106	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R107	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R109	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R110	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R111	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R112	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	
R113	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R115	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R119	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	
R121	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	
R122	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R123	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R125	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R126	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	

R130	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R131	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R132	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R133	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R134	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R136	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R137	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R140	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
R142	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R143	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R144	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R145	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R146	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R147	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R148	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R149	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R151	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R152	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R153	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R154	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R155	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R156	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R157	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R158	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R159	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R160	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R161	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
R163	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R164	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R165	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R166	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R167	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R168	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R169	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R172	61L0603220	CHIPR 22 OHM+-5% 1/10W	1	
R173	61L0603220	CHIPR 22 OHM+-5% 1/10W	1	
R174	61L0603000	CHIPR 0OHM +-5% 1/10W	1	
R175	61L0603220	CHIPR 22 OHM+-5% 1/10W	1	
R176	61L0603682	CHIP 6.8K OHM 1/10W	1	
R178	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R182	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R183	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	
R184	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R185	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R186	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	

R187	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	
R188	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R189	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R190	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	
R191	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
R192	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R194	73L 60186	BEAD	1	
R195	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R196	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R197	61L0603202	CHIPR 2K OHM+-5% 1/10W	1	
R198	61L0603202	CHIPR 2K OHM+-5% 1/10W	1	
R199	61L0603202	CHIPR 2K OHM+-5% 1/10W	1	
R200	61L0603332	CHIP 3.3K OHM 1/10W	1	
R201	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R202	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R203	61L0603105	CHIPR 1M OHM+-5% 1/10W	1	
R205	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R206	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R207	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R209	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R210	61L0603101	CHIPR 100 OHM +-5% 1/10	1	
R211	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R212	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R217	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R218	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R220	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R221	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R222	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
U101	56L 563 21	AP1084K33	1	
U102	56L 585 7	RT9164-25CL	1	
U104	87L 202 44	PLCC SMT CONN PD41C-441	1	
U105	56L1133 24	AT24C16AN-10SI-2.7	1	
U106	56L113334A	24LC02BT/SN SOIC-8PIN	1	
U107	56L113334A	24LC02BT/SN SOIC-8PIN	1	
U108	57L 763 1	A03401 SOT23 BY AOS(A1)	1	
ZD101	93L 64 36 ST	ESDA5V3L	1	
ZD103	93L 39146	LL5232B SMT	1	
ZD104	93L 39146	LL5232B SMT	1	
ZD105	93L 39146	LL5232B SMT	1	
ZD106	93L 39146	LL5232B SMT	1	
ZD107	93L 39146	LL5232B SMT	1	
ZD108	93L 39146	LL5232B SMT	1	
ZD109	93L 39146	LL5232B SMT	1	
ZD110	93L 39146	LL5232B SMT	1	
	AIK780KC9SMT	KEY BOARD	1	

CN101	95L8014 16 27	KEY BOARD WIRE 390MM	1	
SW101	77L 600 1 CJ	TACT SWITCH	1	
SW102	77L 600 1 CJ	TACT SWITCH	1	
SW103	77L 600 1 CJ	TACT SWITCH	1	
SW104	77L 600 1 CJ	TACT SWITCH	1	
SW105	77L 600 1 CJ	TACT SWITCH	1	
	715L1251 1D	PCB	1	
DP101	81L 14 5 GU	LED	1	
	PW1742CPV1SMT	POWER BOARD FOR SMT	1	
	40L 45762420A	ID LABEL	1	
	705L 560 57 DL	D910/D911 ASS'Y	1	
	705L 560 61 05	R917 ASS'Y	1	
	705L 560 61 06	R903 ASS'Y	1	
	705L 780 57 01	Q903 ASS'Y	1	
	705L 780 87 04	CN901 ASS'Y	1	
C213	63L210J1842A2	PMS 0.18UF 250V	1	
C214	63L210J1842A2	PMS 0.18UF 250V	1	
C215	65L 3J2206ET	22PF 5% 3KV TDK	1	
C216	65L 3J2206ET	22PF 5% 3KV TDK	1	
C217	65L 3J2206ET	22PF 5% 3KV TDK	1	
C218	65L 3J2206ET	22PF 5% 3KV TDK	1	
C901	65L305M1022EM	1000PF +-20% 250VAC/400	1	
C902	65L305M1022EM	1000PF +-20% 250VAC/400	1	
C904	67L215S10115K	100UF 450V	1	
C922	67L215C102 3K	1000UF/16V	1	
C923	67L215C102 3K	1000UF/16V	1	
CON10	2 33L801712A	PIN HEADER	1	
CON20	1 33L8020 4D AC	CONN.4P DIP BY ACES	1	
CON20	2 33L8020 4D AC	CONN.4P DIP BY ACES	1	
DB901	93L 50460 8	BRIDGE 2KBP06M2A600V	1	
IC901	56L 379 32	SG6841D BY SYSTEM	1	
IC902	56L 139 3A	PC123Y22	1	
L201	73L 253139 YL	CHOKE	1	
L202	73L 253139 YL	CHOKE	1	
L902	73L 174 26 T1	LINE LILTER 0.45mm	1	
L903	73L 253 91 LS	CHOKE BY LI SHIN	1	
L904	73L 253 91 LS	CHOKE BY LI SHIN	1	
NR901	61L 58120 WT	NTCR 120HM 20% 2A SCK-1	1	
PT201	80LL15T 7 YS	X'FMR	1	
PT202	80LL15T 7 YS	X'FMR	1	
Q209	57L 761 6	2SC5706 DIP SANYO	1	
Q210	57L 761 6	2SC5706 DIP SANYO	1	
Q211	57L 761 6	2SC5706 DIP SANYO	1	
Q212	57L 761 6	2SC5706 DIP SANYO	1	
T901	80LL17T 2 T	X'FMR	1	

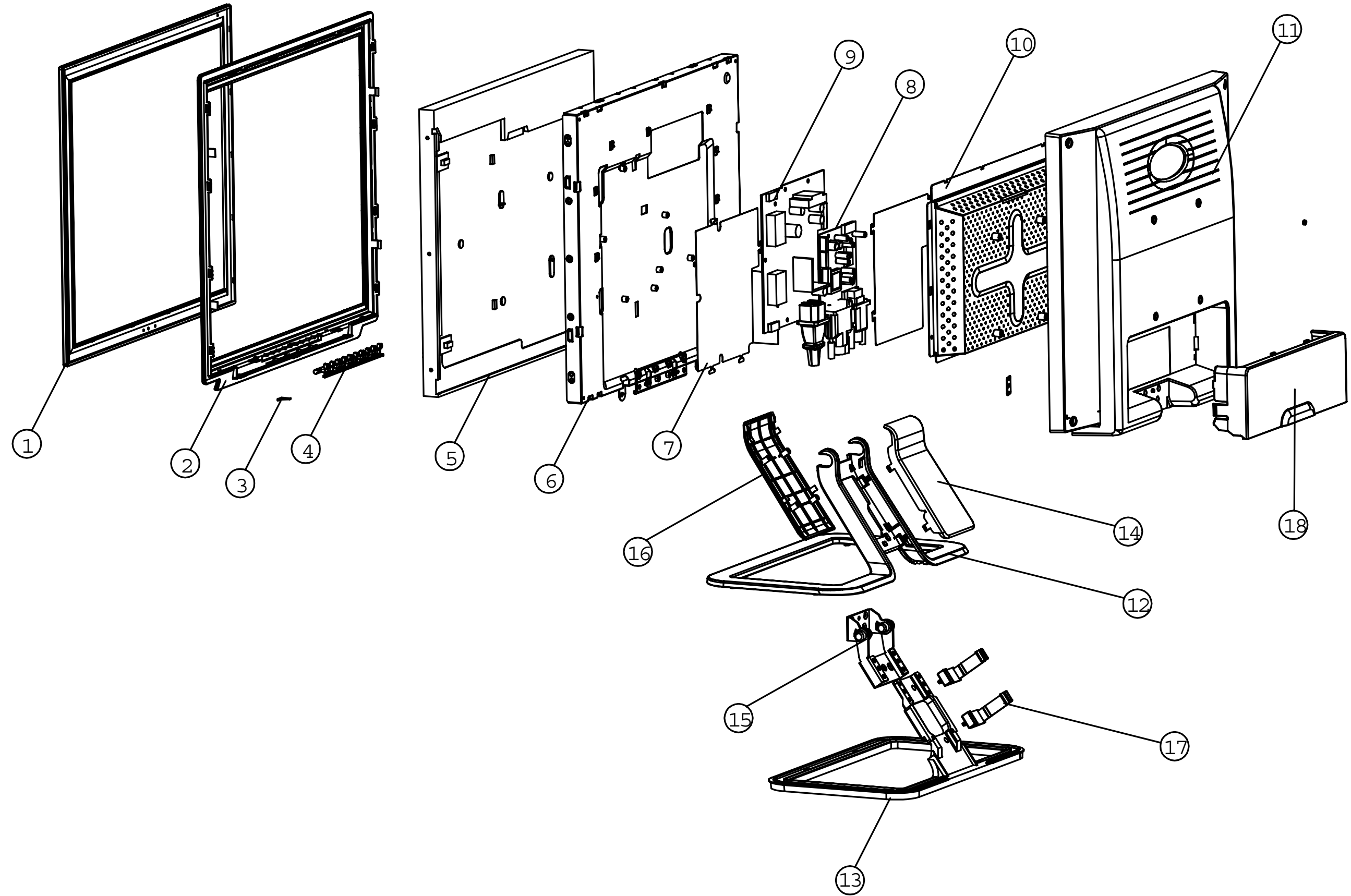
	PW1742CPV1AI	POWER BOARD FOR AI	1	
C202	65L0805104 22	0.1UF +-10% 25V X7R 080	1	
C203	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C204	65L0805104 22	0.1UF +-10% 25V X7R 080	1	
C205	65L0805104 22	0.1UF +-10% 25V X7R 080	1	
C206	65L0805104 22	0.1UF +-10% 25V X7R 080	1	
C208	65L0805331 32	CHIP 330PF 50V X7R 0805	1	
C209	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C210	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C211	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C212	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C219	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C220	65L0805105 27	CHIP 1UF 25V Y5V 0805	1	
C221	65L0805474 27	CHIP 0.47UF 25V Y5V	1	
C222	65L0805474 27	CHIP 0.47UF 25V Y5V	1	
C907	65L0805104 32	CHIP 0.1UF 50V X7R	1	
C908	65L0805104 32	CHIP 0.1UF 50V X7R	1	
C909	65L0805104 32	CHIP 0.1UF 50V X7R	1	
C910	65L0805102 32	CHIP 1000P 50VX7R 0805	1	
C926	65L0603104 32	CHIP 0.1UF 50V X7R	1	
C927	65L0603104 32	CHIP 0.1UF 50V X7R	1	
D201	93L2004 2A	SM240A DO-214AC	1	
D202	93L2004 2A	SM240A DO-214AC	1	
D203	93L 39S 3 T	BZT52-C11	1	
D204	93L 39S 3 T	BZT52-C11	1	
F201	61L1206000 4	0 OHM 4A 1/4W	1	
Q201	57L 760 5B	PDTC144WK SOT346	1	
Q202	57L 760 4B	PDTA144WK SOT 346	1	
Q203	57L 763 3	AO4411 SO-8 BY AOS SMT	1	
Q204	57L 763 3	AO4411 SO-8 BY AOS SMT	1	
Q205	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	
Q206	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	
Q207	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	
Q208	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	
R202	61L0603512	CHIP 5.1K OHM 1/10W	1	
R203	61L0603512	CHIP 5.1K OHM 1/10W	1	
R204	61L0603103	CHIPR 10K OHM +-5% 1/10	1	
R205	61L0603473	CHIP 47K OHM 1/10W	1	
R206	61L0603473	CHIP 47K OHM 1/10W	1	
R208	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R209	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	
R210	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	
R211	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	
R212	61L0603392	CHIP 3.9K OHM 1/10W	1	
R213	61L0603392	CHIP 3.9K OHM 1/10W	1	

R214	61L0603392	CHIP 3.9K OHM 1/10W	1	
R215	61L0603392	CHIP 3.9K OHM 1/10W	1	
R216	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	
R217	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	
R218	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
R219	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	
R220	61L0603123	CHIP 12K OHM 1/10W	1	
R221	61L0603123	CHIP 12K OHM 1/10W	1	
R222	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	
R223	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	
R234	61L0603621	CHIPR 620 OHM+-5% 1/10W	1	
R235	61L0603621	CHIPR 620 OHM+-5% 1/10W	1	
R236	61L0603561	CHIP 560 OHM 1/10W	1	
R237	61L0603561	CHIP 560 OHM 1/10W	1	
R238	61L0603123	CHIP 12K OHM 1/10W	1	
R239	61L0603123	CHIP 12K OHM 1/10W	1	
R901	61L1206105	CHIP 1MOHM 5% 1/4W	1	
R902	61L1206105	CHIP 1MOHM 5% 1/4W	1	
R908	61L1206519	CHIPR 510OHM +-5% 1/4W	1	
R909	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	
R910	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	
R911	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	
R912	61L1206101	CHIP 100 OHM 5% 1/4W	1	
R913	61L1206103	CHIP 10KOHM 5% 1/4W	1	
R914	61L1206243	CHIP 24K OHM 5% 1/4W	1	
R928	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	
U201	56L 622 1	BA9741F-SMT	1	
ZD901	93L 39S 23 T	PLZ22B	1	
ZD904	93L 39S 19 T	PTZ7.5B	1	
	715L1075 2 V	PCB	1	
C201	67L215C1514HT	LOW ESR 150UF 25V 8*7MM	1	
C207	67L 305479 7T	4.7UF 20% 50V 105	1	
C223	67L215C1514HT	LOW ESR 150UF 25V 8*7MM	1	
C904	6L 31502	1.5MM RIVET	2	
C905	65L 2K152 1T6921	1.5NF/2KV Y5P +-10%	1	
C906	67L 305220 7T	22UF +-20% 50V	1	
C920	65L517K102 5T	1000PF 10% Y5P 500V	1	
C921	65L517K102 5T	1000PF 10% Y5P 500V	1	
C924	67L215B4713HT	470UF 16V LTR471M1CF11V	1	
C925	67L215B4713HT	470UF 16V LTR471M1CF11V	1	
C929	64L700J1040AT	0.1UF 50V PEN	1	
CN901	6L 31500	EYELET	2	
D205	93L 64 1152T	1N4148	1	
D206	93L 64 1152T	1N4148	1	
D207	93L 64 1152T	1N4148	1	

D208	93L 64 1152T	1N4148	1	
D209	93L 64 1152T	1N4148	1	
D210	93L 64 1152T	1N4148	1	
D901	93L 6026W52T	FR107	1	
D902	93L 6038P52T	PS102R	1	
D903	93L 64 1152T	1N4148	1	
F901	84G 56 1	FUSE 2A 250V WICKMANN	1	
FB901	71L 55 29	FERRITE BEAD	1	
IC903	56L 158 10 T	AZ431AZ-A TO-92	1	
L902	6L 31502	1.5MM RIVET	4	
PT201	6L 31502	1.5MM RIVET	2	
PT202	6L 31502	1.5MM RIVET	2	
Q901	57L 420 PP T	2PA733P	1	
Q902	57L 419 PP T	2PC945P	1	
R201	61L 60230352T	30KOHM 5% 1/6W	1	
R224	61L 17210252T	1K OHM 5% 1/4W	1	
R225	61L 17210252T	1K OHM 5% 1/4W	1	
R226	61L 17210252T	1K OHM 5% 1/4W	1	
R227	61L 17210252T	1K OHM 5% 1/4W	1	
R228	61L 17210252T	1K OHM 5% 1/4W	1	
R229	61L 17210252T	1K OHM 5% 1/4W	1	
R230	61L 17210252T	1K OHM 5% 1/4W	1	
R231	61L 17210252T	1K OHM 5% 1/4W	1	
R232	61L 17210252T	1K OHM 5% 1/4W	1	
R233	61L 17210252T	1K OHM 5% 1/4W	1	
R240	61L 60251352T	51KOHM +-5% 1/6W	1	
R241	61L 60251352T	51KOHM +-5% 1/6W	1	
R904	61L214Y10552T	1M,1/4W	1	
R905	61L214Y10552T	1M,1/4W	1	
R906	61L214Y10552T	1M,1/4W	1	
R907	61L214Y10552T	1M,1/4W	1	
R915	61L 17210052T	100HM 5% 1/4W	1	
R916	61L 17210352T	CFR 10KOHM +-5% 1/4W	1	
R920	61L175L47052T	47OHM +-5% 1/2W	1	
R921	61L175L47052T	47OHM +-5% 1/2W	1	
R922	61L 20033352T	33KOHM 1% 1/4W	1	
R923	61L 20036252T	3.6KOHM 1% 1/4W	1	
R924	61L 20024252T	2.4KOHM 1% 1/4W	1	
R925	61L 17210252T	1K OHM 5% 1/4W	1	
R926	61L 17210252T	1K OHM 5% 1/4W	1	
R929	61L 17210152T	100 OHM 5% 1/4W	1	
T901	6L 31502	1.5MM RIVET	4	
ZD902	93L 39 5452T	ZENER HZ12B2	1	
ZD903	93L 39 7752T	ZENER HZ5C1	1	

	90L6064 1	HEAT SINK	1	
	M1L1730 8128	SCREW M3x8	2	
D910	93L 60245	SP10150	1	
D911	93L 60217	FMB-29L	1	
	96L 29 6	SHRINK TUBE UL/CSA	1	
R917	61L 2J39858H	0.390OHM 5% 2W	1	
	96L 29 6	SHRINK TUBE UL/CSA	1	
R903	61L152M10458F	100K OHM 5% 2W	1	
	90L 407 2	HEAT SINK	1	
	M1L1730 8128	SCREW M3x8	1	
Q903	57L 724 4A	STP9NK60ZFP	1	
	95L 900567	HARNESS	1	
	96L 29 6	SHRINK TUBE UL/CSA	1	
CN901	87L 501 12 CJ	AC SOCKET	1	
	5L6015 1	RUBBER FOR RESA HOLE	4	
	5L6020 1	EVA WASHER	2	
	5L808D 1	SCREW WASHER	4	
	11L 165 1	CABLE MANAGE MENT	2	
	12L 394600	FOOT FORON	6	
	15L8019 1	LOCK-METAL	1	
	20L 013 1	BASE BRACKET	1	
	23L3178709 3A	VSC17-LCD FRONT LEFT CO	1	
	23L3178709 4A	VSC17-LCD FRONT LOGO	1	
	33L4727 KD L	KEY PAD	1	

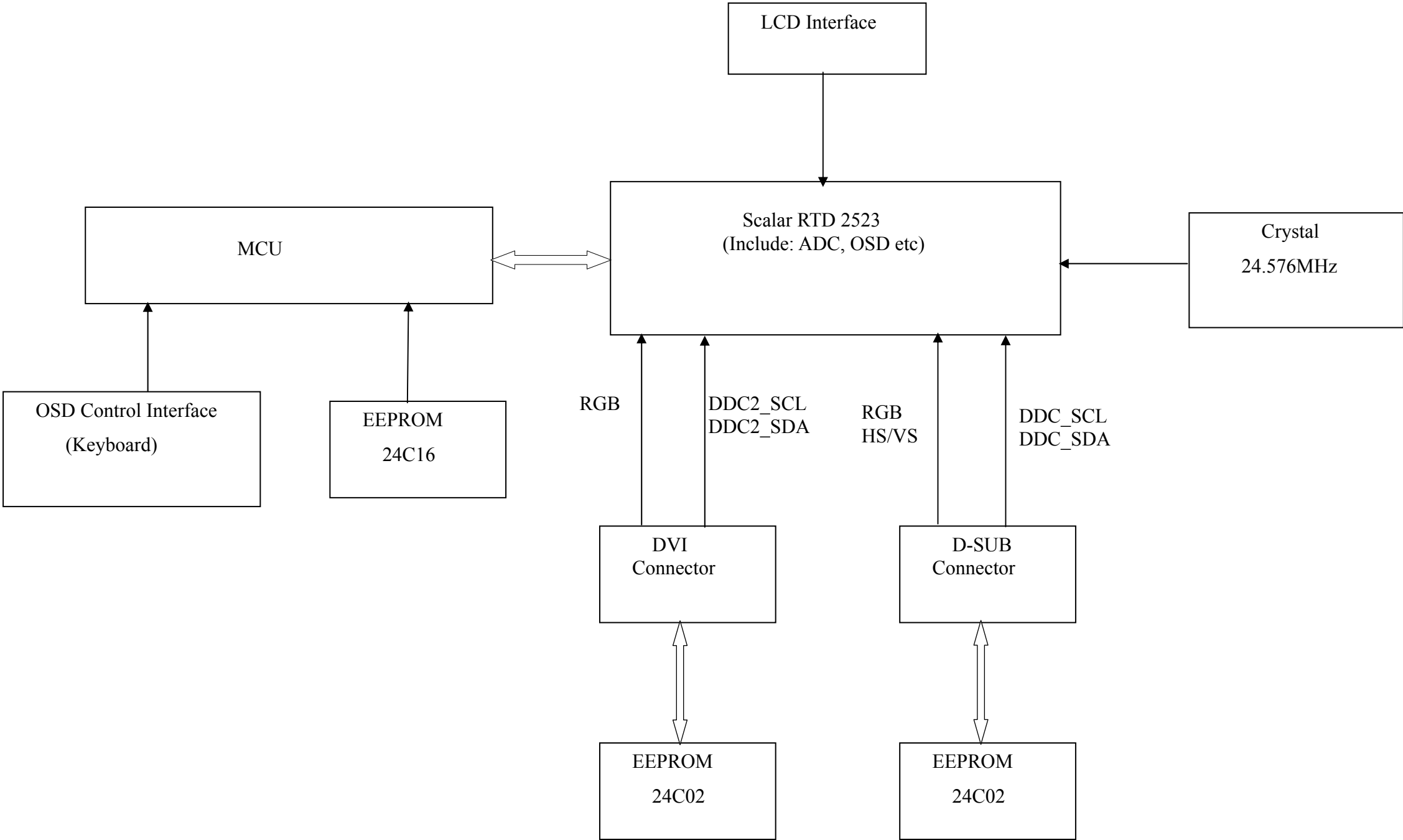
8. Exploded Diagram and Spare Parts List



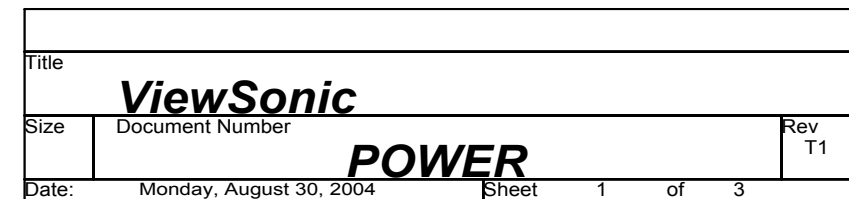
VX715 Exploded Parts list

ITEM	ViewSonic P/N	Description
1	34L1320 KS B	BEZEL
2	34L1321 AKD B	MIDDLE BEZEL
3	33L4728	LENS
4	33L4727	FUNCTION BUTTON
5	17" CPT	PANEL
6	15L8012-1	MAIN FRAME
7	52L6025 11655	MYLAR
8	CBPC780KCWVW	MAIN BOARD
9	PWPC1742CPV1	POWER BOARD
10	85L662-1	SHIELDING COVER
11	34L1322-1	REAR COVER
12	34L1323 KD B	STAND
13	20L013-1	DIECASTING
14	34L1326 KR B	STAND-R-COVER
15	37L497 500	HINGE
16	34L1325 KR B	STAND-F-COVER
17	11L165-1	CABLE MANAGE MENT
18	34L1322 KS B	BUCKET-R-COVER

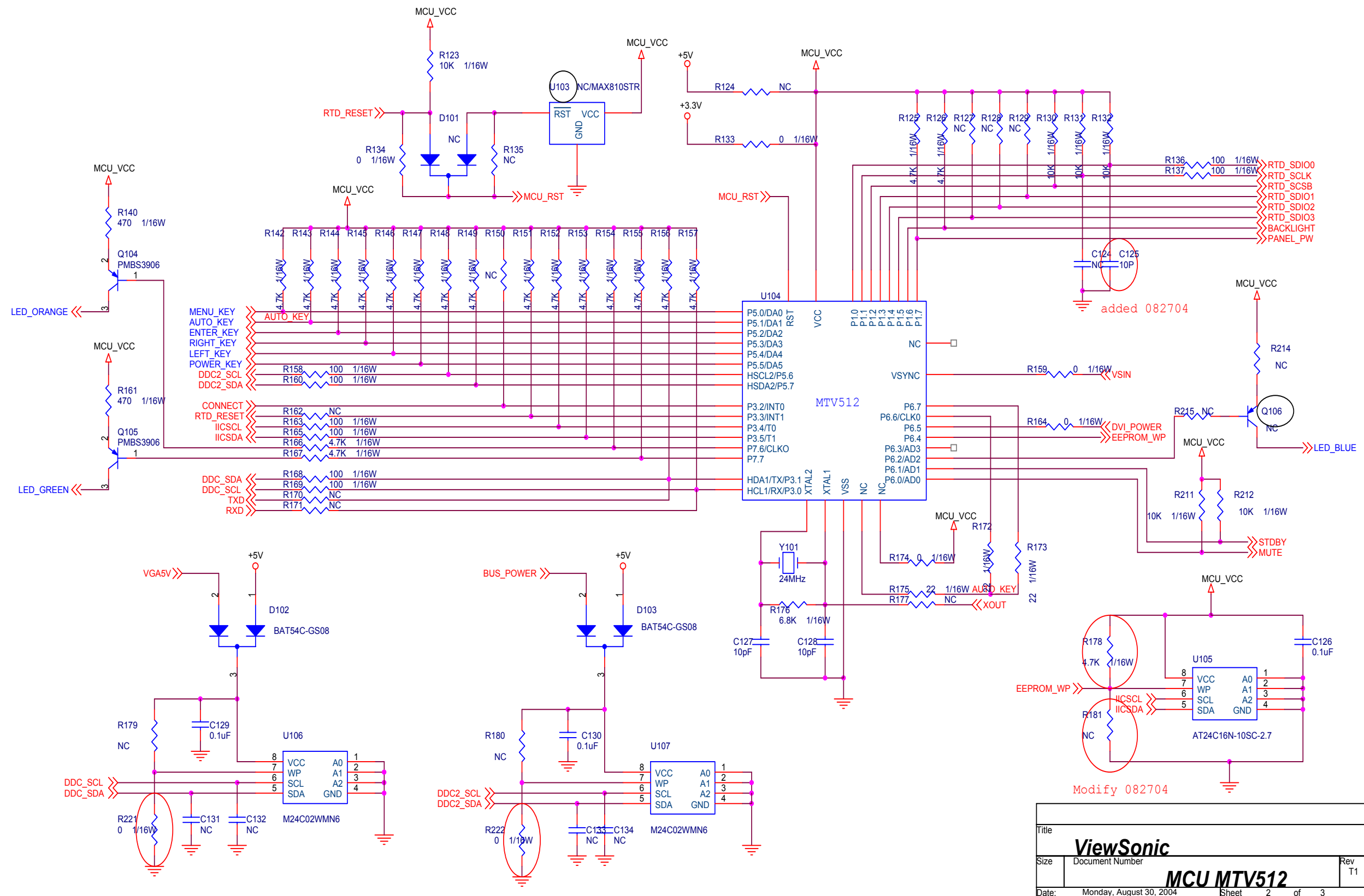
9. Block Diagram



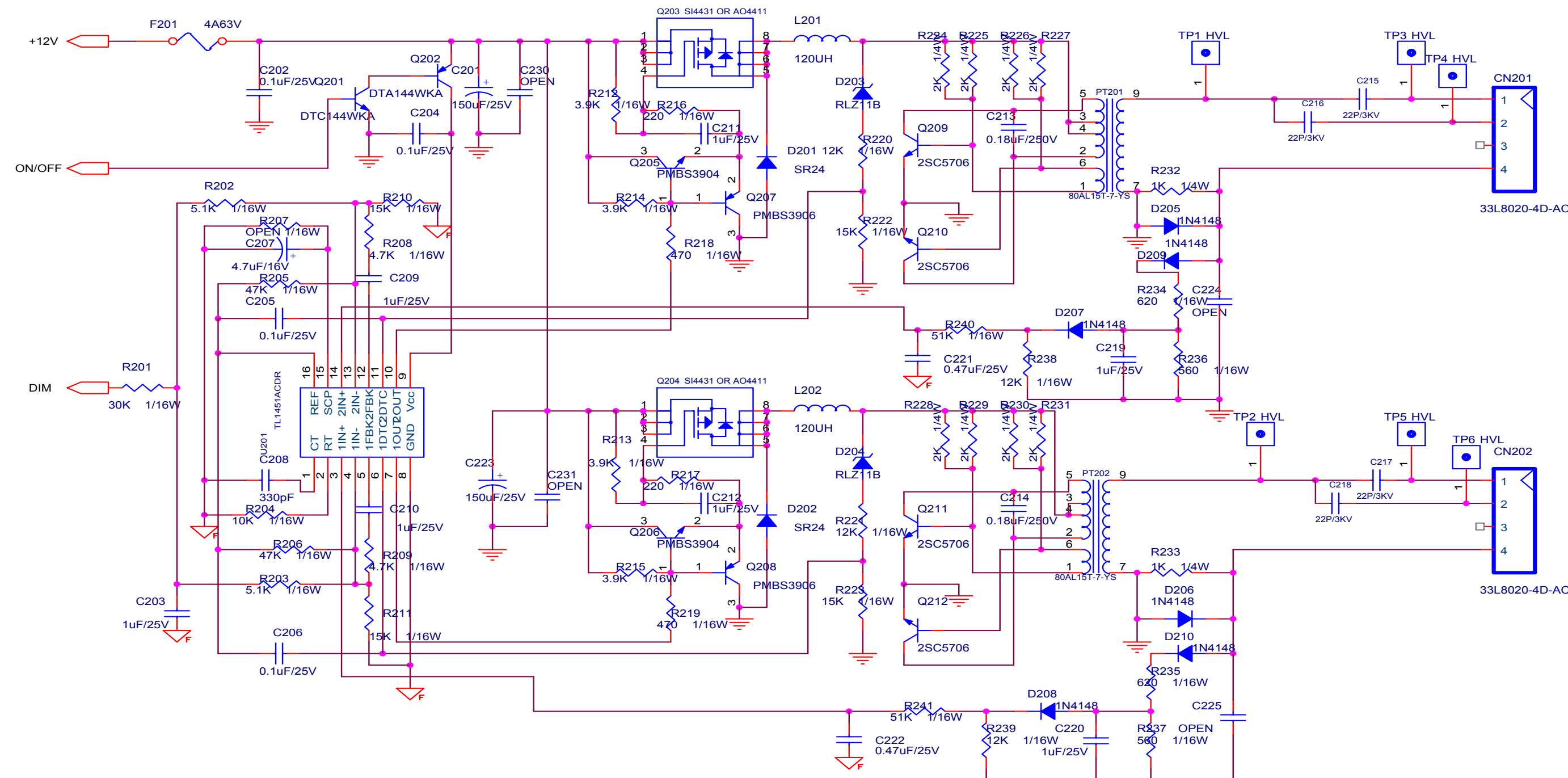
10.1 Power



10.3 MCU AND KEY



10.4 Inverter

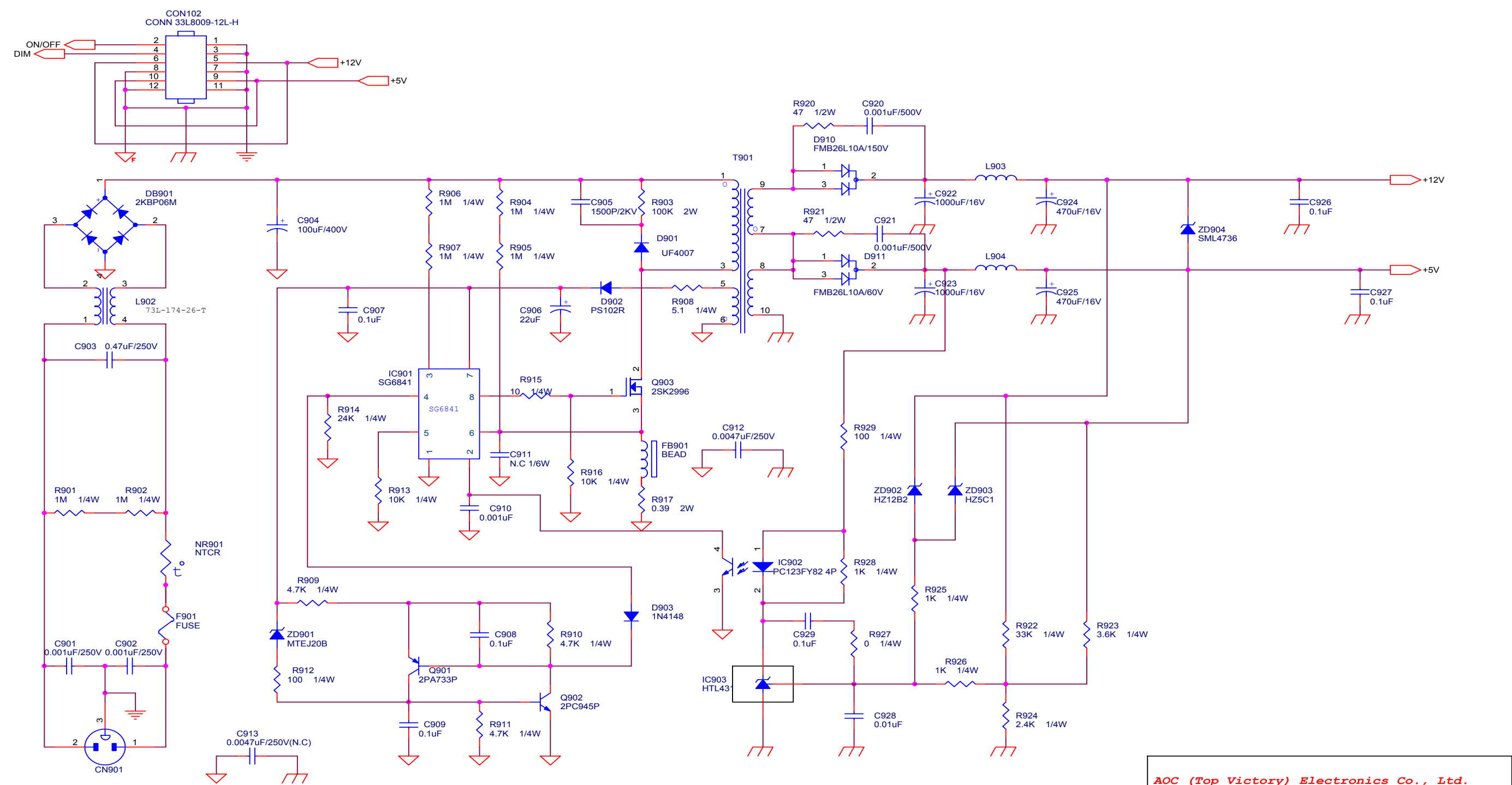


AOC (Top Victory) Electronics Co., Ltd.		
Title		
2. FOR 17"&15" 4 LAMPS INVERTER		
Size	Document Number	Rev
	PWPC1742CPV1(715L1075-1-V)	A
Date:	Thursday, November 20, 2003	Sheet 2 of 2

is power GND

is signal GND

10.5 A-D Power



AOC (Top Victory) Electronics Co., Ltd.		
Title		
1. POWER OUTPUT 12V & 5 V		
Size	Document Number	Rev
B	PWPC1742CPV1(715L1075-1-V)	A
Date:	Thursday, November 20, 2003	Sheet 2 of 1

11.2 KEY BOARD PCB

