

Service Manual

ViewSonic VE710s/b-2 VA721

Model No. VS10047

17" Color TFT LCD Display

(VE710s/b-2_VA721_SM_770_1c Feb. 2005)

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Revision History

Revision	SM Editing Date	Documents Number		Description of Changes	Editor
		DCN Number	ECR Number		
1a	03/11/04	3765		Initial Release	A. Lu
1b	11/02/04	4778	4716	Change Scaler from MST P/N: 2365929896 To RealTek 2023 P/N: 2365930896 Update CPT Panel Response Time 25ms to 16ms	A. Lu
1c	02/16/05	4893	4943	Add Panel CMO M170E5-L05 16ms	A. Lu

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1. Precautions and Safety Notices

1. Appropriate Operation

- (1) Turn off the product before cleaning.
- (2) Use only a dry soft cloth when cleaning the LCD panel surface.
- (3) Use a soft cloth soaked with mild detergent to clean the display housing.
- (4) Use only a high quality, safety approved AC/DC power cord.
- (5) Disconnect the power plug from the AC outlet if the product will not be used for a long period of time.
- (6) If smoke, abnormal noise, or strange odor is present, immediately switch the LCD display off.
- (7) Do not touch the LCD panel surface with sharp or hard objects.
- (8) Do not place heavy objects on the LCD display, video cable, or power cord.
- (9) Do not use abrasive cleaners, waxes or solvents for your cleaning.
- (10) Do not operate the product under the following conditions:
 - Extremely hot, cold or humid environment.
 - Areas containing excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

2. Caution

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

3. Safety Check

Care should be taken while servicing this LCD display. Because of the high voltage used in the inverter circuit, the voltage is exposed in such areas as the associated transformer circuits.

4. LCD Module Handling Precautions

4.1 Handling Precautions

- (1) Since front polarizer is easily damaged, pay attention not to scratch it.
- (2) Be sure to turn off power supply when connecting or disconnecting input connector.
- (3) Wipe off water drops immediately. Long contact with water may cause discoloration or spots.
- (4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- (5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- (6) Since CMOS LSI is used in this module, take care of static electricity and ensure human earth when handling.
- (7) Do not open or modify the Module Assembly.
- (8) Do not press the reflector sheet at the back of the module in any direction.
- (9) In the event that a Module must be put back into the packing container slot after it was taken out of the container, do not press the center of the CCFL Reflector edge. Instead, press at the far ends of the CFL Reflector edge softly. Otherwise the TFT Module may be damaged.
- (10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate or tilt the Interface Connector of the TFT Module.

- (11) After installation of the TFT Module into an enclosure (LCD monitor housing, for example), do not twist or bend the TFT Module even momentarily. When designing the enclosure, it should be taken into consideration that no bending/twisting forces may be applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- (12) The cold cathode fluorescent lamp in the LCD contains a small amount of mercury. Please follow local ordinances or regulations for disposal.
- (13) The LCD module contains a small amount of materials having no flammability grade. The LCD module should be supplied with power that complies with the requirements of Limited Power Source (IEC60950 or UL1950), or an exemption should be applied for.
- (14) The LCD module is designed so that the CCFL in it is supplied by a Limited Current Circuit (IEC60950 or UL1950). Do not connect the CCFL to a Hazardous Voltage Circuit.

2. Specification

2.1. PRODUCT SPECIFICATIONS

LCD Panel	17.0" TFT
Power Management	Energy Star compliant VESA DPMS compatible < 1W
Displayable Resolution	SXGA 1280× 1024 (max.)
Pixel Dimension	0.264(H)× 0.264(V)mm
LCD Display Color	262K Color. (6bit)
Viewing Angle	CR 10 Horizontal: 140 deg Vertical: 120 deg
Contrast Ratio	450 : 1 (typ.) 360:1 (min.)
Brightness	230 cd/ m ² (min.) 280 cd/m ² (typ.)
Response Time	16ms Panel Tr: 5 ms Tf: 11 ms (typ.) 16ms Panel Tr: 7 ms Tf: 14 ms (max.)
Active Display Area	337.9mm(H)× 270.3mm(V)
Temperature	Operating: 0°C ~ +40°C Storage: -20°C ~ +60°C
Compliance	UL, CUL, TÜV, CE, FCC, VCCI, BSMI, CCC, Energy Star.
Power	Input Voltage: 100~240 Vac Consumption: 35 Watts (Max.)

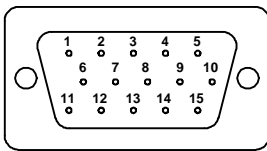
2.2. FACTORY SUPPORTING MODES

Primary Preset:	VESA 1280 x 1024 @ 60Hz
Look up table timing:	1. 640 x 350 @ 70Hz, 31.5kHz 2. 640 x 480 @ 60Hz, 31.5kHz 3. 640 x 480 @ 67Hz, 35.0kHz 4. 640 x 480 @ 75Hz, 37.5kHz 5. 640 x 480 @ 72Hz, 37.9kHz 6. 640 x 480 @ 85Hz, 43.27kHz 7. 720 x 400 @ 70Hz, 31.5kHz 8. 800 x 600 @ 56Hz, 35.1kHz 9. 800 x 600 @ 60Hz, 37.9kHz 10. 800 x 600 @ 75Hz, 46.9kHz 11. 800 x 600 @ 72Hz, 48.1kHz 12. 800 x 600 @ 85Hz, 53.7kHz 13. 832 x 624 @ 75Hz, 49.7kHz 14. 1024 x 768 @ 60Hz, 48.4kHz

- 15. 1024 x 768 @ 70Hz, 56.5kHz
- 17. 1024 x 768 @ 75Hz, 60.0kHz
- 18. 1024 x 768 @ 85Hz, 68.67kHz
- 19. 1280 x 1024 @ 60Hz, 63.4kHz
- 20. 1280 x 1024 @ 75Hz, 79.97kHz
- 21. 1280x720 @ 60Hz, 45kHz

2.3. D-SUB CONNECTOR

D-SUB 15 PIN CONNECTOR

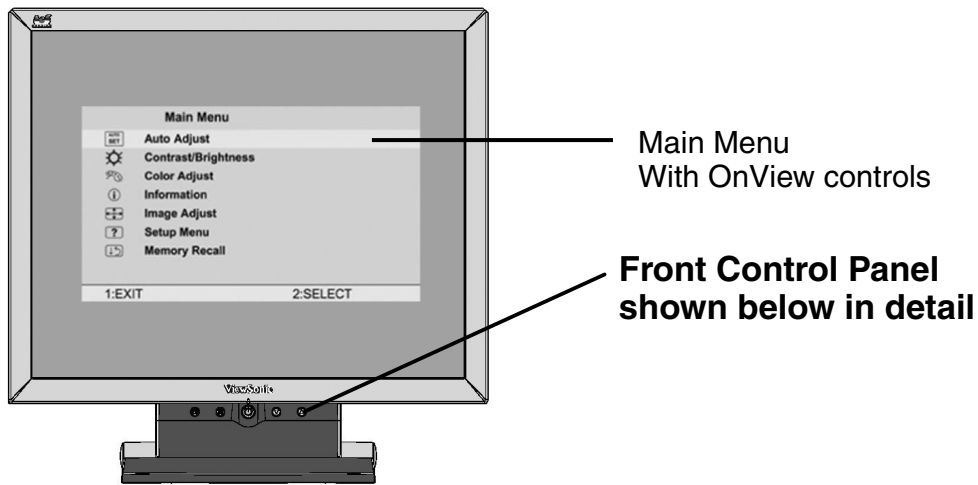


- 1.R 6.GND 11.NC
- 2.G 7.GND 12.SDA
- 3.B 8.GND 13.H.SYNC
- 4.NC 9. +5V 14.V.SYNC
- 5.GND 10.GND 15.SCL

SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
B	BLUE	0.7vp-p(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL

3. Front Panel Function Control Description



Displays the control screen for the highlighted control.

Also toggles between two controls on some screens.

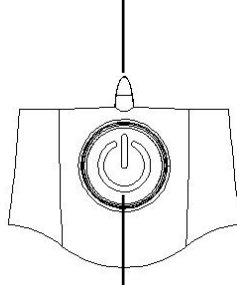
Also a shortcut to Auto Image Adjust.



Displays the Main Menu. or exits the control screen and saves adjustments.



Power light
Green = ON
Orange = Power Saving



Power On/Off

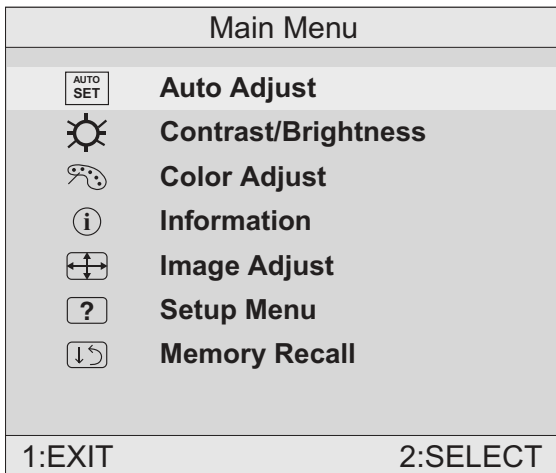
Scrolls through menu options and adjusts the displayed control.

Also a shortcut to display the Contrast adjustment control screen.



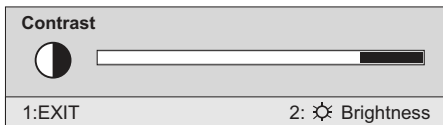
Do the following to adjust the screen image:

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



NOTE: All OnView menus and adjustment screens disappear automatically after about 15 seconds. This time period is adjustable through the Setup menu and the OSD timeout control described on page 11.

- 2 Press ▲ or ▼ to scroll up or down in the Main Menu until the desired control is highlighted.
- 3 To select the highlighted control, press button [2]. A control screen appears as shown below.



The line at the bottom of the screen shows the current functions of buttons 1 and 2: Exit or Select the control that is highlighted.

- 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 x 1024 @ 60 Hz to the LCD display. (Look for instructions on “changing the refresh rate” in your graphic card's user guide.)
- 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 the illuminated “active area” of the LCD display.)

Main Menu Controls

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

Control Explanation



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

Press the [2] button to execute the Auto Adjust function.

NOTE: Auto Adjust works with most common video cards. 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.



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



Brightness adjusts background black level of the screen image.



Color Adjust provides several color options, including preset color temperatures and a user mode which allows the red (R), green (G), and blue (B) levels to be adjusted independently.

The factory setting for this product is 6500K (6500 Kelvin).

Color Adjust	
sRGB	
9300K	
● 6500K	
5400K	
User Color	
1:EXIT	2:SELECT

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 settings with fluorescent lighting).

6500K — Adds red to the screen image for warmer white and richer red.

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

Control Explanation

User — Individual adjustments for red, green, and blue.

- 1 To select color (R, G or B) press button [2].
- 2 To adjust selected color, press ▲ or ▼.
- 3 When you are finished making all color adjustments, press button [1] *twice*.







Information displays the timing mode (video signal input) coming from the graphics card in your computer. See your graphic card's user guide for instructions on changing the resolution and refresh rate (vertical frequency).

VESA 1280 x 1024 @ 60 Hz (recommended) means that the resolution is 1280 x 1024 and the refresh rate is 60 Hertz.

Information	
H. Frequency:	48.60 KHz
V. Frequency:	60.00 Hz
Pixel Clock:	65.00 MHz
Resolution:	1280 x 1024
Model Number:	VS10047
Serial No:	
website : www.viewsonic.com	
1:EXIT	



Image Adjust

Image Adjust	
	H./V. Position
	H. Size
	Fine Tune
	Sharpness
1:EXIT	
2:SELECT	

The Image Adjust controls are explained below:



H./V. Position adjusts horizontal and vertical position of the screen image. You can toggle between Horizontal and Vertical by pressing button [2]. Horizontal moves the screen image to the left or to the right. Vertical moves the screen image up and down.



H. Size (Horizontal Size) adjusts the width of the screen image.

NOTE: Vertical size is automatic with your LCD display.

Control Explanation



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

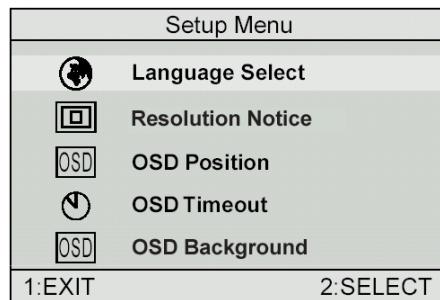
NOTE: Try the **Auto Adjust** (see page 9) before using the **Fine Tune** control.



Sharpness adjusts the clarity and focus of the screen image.



Setup Menu displays the menu shown below.



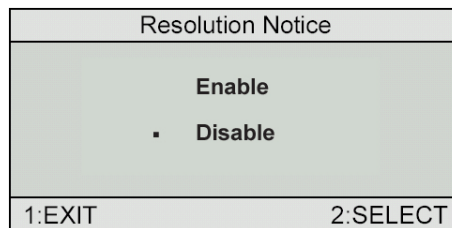
The Setup Menu controls are explained below.



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



Resolution Notice 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.

Control Explanation



OSD Background allows you to turn the On-Screen display background on or off. This means that while making adjustments from the OSD control screens you can also view open software applications, or the Windows desktop.



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.

Short Cut Keys

The five function keys are: 1 2   

[1]	Main Menu
[2]	Auto Image Adjust
[▼] or [▲]	Directly access the Contrast menu. Switch to the Brightness menu by pushing button [2].
[▼] + [▲]	Reset the Contrast or Brightness value while in the Contrast or Brightness adjustment menu, or reset both Contrast and Brightness when the OSD is not open.
[1] + [2]	Toggle between 720x400 and 640x400 modes when the input signal resolution is 720x400 or 640x400.
[1] + [▼] + [▲] (Push and hold for 5 sec)	White Balance.
[1] + [▼]	Power Lock
[1] + [▲]	OSD Lock

4. Circuit Description

A. Scaling controller

General

- Embedded dual DDC supports DDC1, DDC2B, DDC/CI
- Image scaling up and down
- Embedded Pattern Generator
- No external memory required
- Requires only one crystal to generate all timing
- Embedded reset control output
- Embedded crystal output to MICROP
- 3-channel PWM output (8 bits per channel), and selectable PWM clock frequency

PIN DESCRIPTION

(I/O Legend: A= Analog, I=Input, O=Output, P=Power, G=Ground)

ADC: 15 pins

Name	I/O	Pin No	Description	Note
ADC_GND	AG	27	ADC ground	
ADC_REFIO	AP	28	ADC band-gap voltage de-coupling	1.20V
ADC_VDD	AP	29	Analog power	(3.3V)
BLUE+	AI	30	Analog input from BLUE channel	
BLUE-	AI	31	Analog input ground from BLUE channel	
ADC_GND	AG	32	ADC ground	
SOG/ADC_TEST	AIO	33	SOG in/ADC test pin	
GREEN+	AI	34	Analog input from GREEN channel	
GREEN-	AI	35	Analog input ground from GREEN channel	
ADCB_VDD	AP	36	Analog power	(3.3V)
RED+	AI	37	Analog input from RED channel	
RED	AI	38	Analog input ground from RED channel	
ADC_GND	AG	39	Analog ground	
ADC_GND	AG	40	Analog ground	
ADC_VDD	AP	41	Analog power	(3.3V)
AHS	AI	42	Analog HS input	(10), (4), (5)
AVS	AI	43	Analog VS input	(2), (4), (5)

■ PLL:8 pins

Name	I/O	Pin No	Description	Note
XO	AI	1	Reference clock output	
XI	AO	2	Reference clock input	
DPLL_GND	AG	3	Ground for digital PLL	
DPLL_VDD	AP	4	Power for digital PLL	(3.3V)
APLL_VDD	AP	5	Power for multi-phase PLL	(3.3V)
PLL_TEST1	AIO	6	Test Pin 1 / IRQ#	3.3V tolerance
PLL_TEST2	AIO	7	Test Pin 2/Power-on-latch for crystal out Frequency	
APLL_GND	AG	8	Ground for multi-phase PLL	

■ **Control Interface: 7 pins**

Name	I/O	Pin No	Description	Note
SDIO [0]	IO	54	Serial control I/F data in/Parallel port data [0]	(2), (3), / 2mA
SDIO [1] / TCON [4] / BBLU [0]	IO	53	Parallel port data [1] / TCON [4] / TTL BBLU [0]	(1), (2), (3), / 2mA
SDIO [2] / TCON [3] / BBLU [1]	IO	52	Parallel port data [1] / TCON [3] / TTL BBLU [1]	(1), (2), (3), / 2mA
SDIO [3] / PWM2 / TCON [2]	IO	51	Parallel port data [1] / TCON [4] / PWM2	(1), (2), (3), / 2mA
SCLK	I	50	Serial control I/F clock	(2), (3), (5)
SCSB	I	111	Serial control I/F chip select	(2), (3), (5)
RESET	O	56	RESET output for Micron	(2), (5), (6) / 2mA

Display & TCON/VIDEO-8 Port: 54 pins

■ :LVDS+RSDS+TTLO ■ :RSDS+TTLO ■ :RSDS+TTLIO ■ :TTLO ■ :TTLIO

Pin NO	6-bits Dual RSDS	6-bits Single RSDS	8/6 bits Dual/Single LVDS	8 bits Dual/Single TTL	6 bits Dual TTL	6 bits Single TTL	Note
51	S [3] / TCON [2] / PWM2	S [3] / TCON [2] / PWM2	S [3] / TCON [2] / PWM2	S [3] / TCON [2] / PWM2	S [3] / TCON [2] / PWM2	S [3] / TCON [2] / PWM2	(1), (2), (3), / 2mA
52	S [2] / TCON [3]	S [2] / TCON [3]	S [2] / TCON [3]	S [2] / BBLU [1] / TCON [3]	S [2] / TCON [3]	S [2] / TCON [3]	(1), (2), (3), / 2mA
53	S [1] / TCON [4]	S [1] / TCON [4]	S [1] / TCON [4]	S [1] / BBLU [0] / TCON [4]	S [1] / TCON [4]	S [1] / TCON [4]	(1), (2), (3), / 2mA
55	PWM2 / COUT / TCON [13]	PWM2 / COUT / TCON [13]	PWM2 / COUT / TCON [13]	PWM2 / COUT / TCON [13]	PWM2 / COUT / TCON [13]	PWM2 / COUT / TCON [13]	(1), (2), (3), / 2mA
59	BB3P	BB3P	NC	BBLU [7]	BBLU [7]	BBLU [7]	
60	BB3N	BB3N	NC	BBLU [6]	BBLU [6]	BBLU [6]	
61	BB2P	BB2P	NC	BBLU [5]	BBLU [5]	BBLU [5]	
62	BB2N	BB2N	NC	BBLU [4]	BBLU [4]	BBLU [4]	
63	BB1P	BB1P	NC	BBLU [3] / T0	BBLU [3]	BBLU [3]	
64	BB1N	BB1N	NC	BBLU [2] / T1	BBLU [2]	BBLU [2]	
65	BCLKP	BCLKP	NC	BGRN [1] / T2	TCON [6]	TCON [6]	
66	BCLKN	BCLKN	NC	BGRN [0] / T3	TCON [5]	TCON [5]	
67	BG3P	BG3P	NC	BGRN [7]	BGRN [7]	BGRN [7]	
68	BG3N	BG3N	NC	BGRN [6]	BGRN [6]	BGRN [6]	
73	BG2P	BG2P	TODP	BGRN [5] / T4	BGRN [5]	BGRN [5]	
74	BG2N	BG2N	TODN	BGRN [4] / T5	BGRN [4]	BGRN [4]	
75	BG1P	BG1P	TOCLKP	BGRN [3] / T6	BGRN [3]	BGRN [3]	
76	BG1N	BG1N	TOCLKN	BGRN [2] / T7	BGRN [2]	BGRN [2]	
77	BR3P	BR3P	TOCP	BRED [7] / T8	BRED [7]	BRED [7]	
78	BR3N	BR3N	TOCN	BRED [6] / T9	BRED [6]	BRED [6]	
79	BR2P	BR2P	TOBP	BRED [5] / T10	BRED [5]	BRED [5]	

80	BR2N	BR2N	TOBP	BRED [4] / T11	BRED [4]	BRED [4]	
81	BR1P	BR1P	TOAP	BRED [3] / T12	BRED [3]	BRED [3]	
82	BR1N	BR1N	TOAP	BRED [2] / T13	BRED [2]	BRED [2]	
85	AB3P	NC	TEDP	ABLU [7] / T14	ABLU [7]	ABLU [7]	
86	AB3N	NC	TEDN	ABLU [6] / T15	ABLU [6]	ABLU [6]	
87	AB2P	NC	TECLKP	ABLU [5] / T16	ABLU [5]	ABLU [5]	
88	AB2N	NC	TECLKN	ABLU [4] / T17	ABLU [4]	ABLU [4]	
89	AB1P	NC	TECP	ABLU [3] / T18	ABLU [3]	ABLU [3]	
90	BB1N	NC	TECN	ABLU [2] / T19	ABLU [2]	ABLU [2]	
91	ACLKP	NC	TEBP	ABLU [1] / T20	TCON [1]	TCON [1]	
92	ACLKN	NC	TEBN	ABLU [0] / T21	TCON [0]	TCON [0]	
93	AG3P	NC	TEAP	AGRN [7] / T22	AGRN [7]	AGRN [7]	
94	AG3N	NC	TEAN	AGRN [6] / T23	AGRN [6]	AGRN [6]	
99	AG2P	TCON [11]	NC	AGRN [5] / T24	AGRN [5]	AGRN [5]	
100	AG2N	TCON [10]	NC	AGRN [4] / T25	AGRN [4]	AGRN [4]	
101	AG1P	TCON [9]	NC	AGRN [3] / T26	AGRN [3]	AGRN [3]	
102	AG1N	TCON [8]	NC	AGRN [2] / T27	AGRN [2]	AGRN [2]	
103	AR3P	TCON [7]	NC	ARED [7] / T28	ARED [7]	ARED [7]	
104	AR3N	TCON [6]	NC	ARED [6] / T29	ARED [6]	ARED [6]	
105	AR2P	TCON [5]	NC	ARED [5] / TH	ARED [5]	ARED [5]	
106	AR2N	TCON [1]	NC	ARED [4] / TV	ARED [4]	ARED [4]	
107	AR1P	TCON [0]	NC	ARED [3] / TE	ARED [3]	ARED [3]	
108	AR1N	NC	NC	ARED [2] / TK	ARED [2]	ARED [2]	
113	PWM2 / COUT / TCON [12]	PWM2 / COUT / TCON [12]	PWM2 / COUT / TCON [12]	ARED [1]	COUT	PWM2 / COUT / TCON [12]	(9)
114	TCON [11] / V [0]	V [0]	V [0]	ARED [0]		TCON [11]	(1), (7), (8)
115	TCON [10] / V [1]	V [1]	V [1]	BRED [1]		TCON [10]	(1), (7), (8)
116	TCON [9] / V [2]	V [2]	V [2]	BRED [0]		TCON [9]	(1), (7), (8)
117	TCON [8] / V [3]	V [3]	V [3]	AGRN [1]		TCON [8]	(1), (7), (8)
118	TCON [7] / V [4]	V [4]	V [4]	AGRN [0]		TCON [7]	(1), (7), (8)

119	TCON [6] / V [5]	V [5]	V [5]	DHS	DHS	DHS	(1), (7), (8)
122	TCON [5] / V [6]	V [6]	V [6]	DVS	DVS	DVS	(1), (7), (8)
123	TCON [1] / V [7]	V [7]	V [7]	DENA	DENA	DENA	(1), (7), (8)
124	TCON [0] / VCLK	VCLK	VCLK	DCLK	DCLK	DCLK	(1), (7), (8)

*Single RSDS, even/odd swap, data (59~82) output to pin85~108, TCON (99~108) output to pin59~68.

*In 6-bit dual TTL output mode, Video8 cannot output TCON7~TCON11; while video8 can output TCON in 6-bit single TTL mode.

TMDS: 18 pins

Name	I/O	Pin No	Description	Note
TMDS_TST/ PWM1	AIO	9	TMDS_TEST Pin / PWM1 / Power-on-latch for serial / parallel port	
TMDS_GND	G	10		
TMDS_VDD	P	11		(3.3V)
NC	A	12	Impedance Match Reference.	
TMDS_VDD	P	13		(3.3V)
NC	I	14	Differential Data Input	
NC	I	15	Differential Data Input	
TMDS_GND	G	16		
NC	I	17	Differential Data Input	
NC	I	18	Differential Data Input	
TMDS_VDD	P	19		(3.3V)
NC	I	20	Differential Data Input	
NC	I	21	Differential Data Input	
TMDS_GND	G	22		
NC	I	23	Differential Data Input	
NC	I	24	Differential Data Input	
TMDS_GND	G	25		
TMDS_VDD	P	26		(3.3V)

PWM Interface: (PWM1, PWM2 can be selected from 1 of 3 possible pins.)

Name	I/O	Pin No	Description	Note
PWM2 / TCON [2] / S [3]	O	51	PWM2 / TCON [2] / SDIO [3]	(1), (2), (3), (5), (8),
PWM2 / TCON [13] / COUT	O	55	PWM2 / TCON [13] / Crystal out	(2), (8), (9)
PWM2 / TCON [12] / COUT	O	113	PWM2 / TCON [12] / Crystal out	(2), (8), (9) 6bit dual TTL cannot support
PWM1 / TMDS_TST	AIO	9	PWM1/ TMDS_TEST Pin/ Power-on-latch for serial / parallel port	(2), (7), (8)
PWM1 / DDCSDA / TCON [1] / BBLU [0]	IO	47	PWM1 / DDC serial control I/F data input / output / TCON [4]	(1), (2), (3), (5), (8),
PWM1 / TCON [7]	IO	125	PWM1 / TCON [7]	(1), (2), (3), (5), (8),
PWM0 / REFCLK	IO	112	PWM0 / (In / out) test pin for DCLK / Video8 even-odd signal	(2), (9)

DDC Channel:4 pins

Name	I/O	Pin No	Description	Note
DDCSCL/TCON [0] / BBLU [1]	I	46	DDC serial control I/F clock/TCON [0]/TTL BBLU [1]	(2), (3), (5)
DDCSDA/TCON [1] / PWM1/BBLU [0]	IO	47	DDC serial control I/F data input/ output/ TCON [1]/ PWM1/ TTL BBLU [0]	(1), (2), (3), (5), (6), (8)/8mA/no slew
TCON [5]	I	126	TCON [5]	(2), (3), (5)
TCON [7]/PWM1	IO	125	TCON [7]/ PWM1	(1), (2), (3), (5), (6), (8)/8mA/no slew

Power & Ground:22 pins

Name	I/O	Pin No	Description
3.3V Power	P	49,121	VCCIO: 2
3.3V Ground	G	48,120	GNDIO: 2
3.3V Power	P	58,71,83, 95,110	PVCC: 5
3.3V Ground	G	57,72,84,96,109	PGND: 5
2.5V Power	P	45,69,98,127	VCCK: 4
2.5V Ground	G	44,70,97,128	GNDK: 4

- Note: (1) TTL compatible CMOS Input ($V_t=1.7V$); $V_{CC}=3.3V$;
(2) 5V tolerance pad;
(3) Internal 75K Ohms pull high resistor.
(4) Internal 75K Ohms pull low resistor.
(5) Schmitt trigger CMOS Input ($V_t=1.4\sim 2.2V$);
(6) Open-Drain, Output Drive low & Pull-high.
(7) Bi-directional input/output
(8) Programmable driving current (2~10mA)
(9) TTL output 5V & 3.3V
(10) 4V tolerance pad

B. MTV312M64

The MTV312M micro-controller is an 8051 CPU core embedded device especially tailored for CRT/LCD monitor applications. It includes an 8051 CPU core, 1024-byte SRAM, 14 built-in PWM DACs, VESA DDC interface, 4-channel A/D converter, and a 64K-byte internal program Flash-ROM.

Pins specified as “CMOS output pin” can sink and drive at least 4mA current. It is not recommended to use such pins as input pins.

Pins specified as “open drain pin” can sink at least 4mA current but only drive 10~20uA to VDD. They can be used as input or output pins, and require an external pull up resistor.

A “8051 standard pin” is a pseudo open drain pin. It can sink at least 4mA current when the output signal is low, drives at least 4mA current for 160nS when the output signal transits from low to high, then continues driving at 100uA to maintain the pin at the high level. It can be used as an input or output pin. It requires an external pull up resistor when driving a heavy load.

POWER CONFIGURATION

The MTV312M uses a 5V or 3.3V power supply.

In a 5V power system, the VDD pin is connected to the 5V source and VDD3 requires an external capacitor, and all output pins can swing from 0~5V. The input pins can accept an input range of 0~5V, but the X1 and X2 pins must be kept below 3.3V.

Also, the ADC conversion range is 5V.

In a 3.3V power system, VDD and VDD3 are connected to the 3.3V source, and all output pins swing from 0~3.3V. HSYNC, VSYNC and open drain pins can accept an input range of 0~5V, but all other pins must be kept below 3.3V. Also, the ADC conversion range is 3.3V.

C. INVERTER

In order to drive the CCFLs embedded in the panel module, there is a half bridge inverter to convert by the controller.

The input 12V up to hundreds of AC voltage output.

The inverter is formed by symmetric in order to drive the separate lamp modules.

The input stage consists of a PWM controller, half bridge inverter, and switching MOSFET to convert DC input into AC output.

The output stage consists of a tuning capacitor, coupling capacitor, transformer, push-pull MOSFET pair to boost AC output up to hundreds of voltage.

And one resistor is serial to lamp for output voltage feedback.

There are two signals to control the inverter which come from system.

Logic “high” level which send to I901 is turn on the inverter.

BRI signal control brightness by DC level which was integral from PWM signal.

5. Adjusting Procedure

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.	FUNCTION	DESIGNATION
1.	White Balance	Function Key
2.	GEOMETRY	Function Key

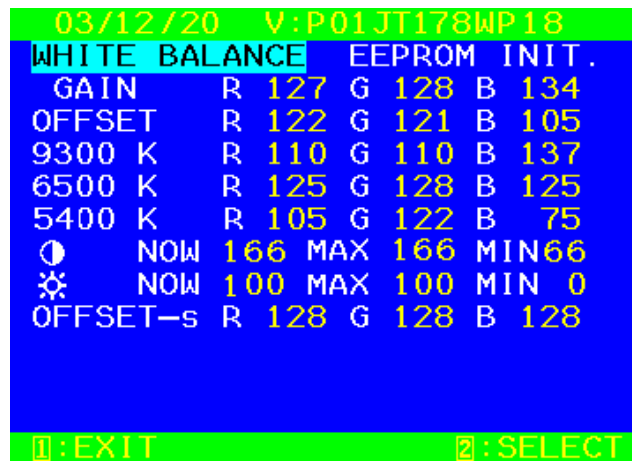
5.3. ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

- (A). Power supply voltage:
AC 110/120V±10% 60 Hz±5%, AC 220/240V±10% 50 Hz ±5%.
- (B). Warm up time:
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.
This is especially critical in color temperature and white balance adjustments.
- (C). Signals: reference the front detail specifications and timing table.
Video: reference the front detail specifications.

1. Adjustment of White Balance:

- A. TIMING: 1280x1024 64KHz/60Hz.
- B. PATTERN: 5 Blocks.
- C. LCD MONITOR set to 1280x1024 80K/75Hz BURN IN and warm up over 30 minutes.
- D. CA110 color analyzer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- E. Power turn off, Press “ ” and “ [2] ” and turn on power at the same time after power LED is on, release “ ” and “ [2] ” key, Then press “ [1] ” key go to factory mode. (Fig.1)



(Fig.1)

F. Adjust Color Temperature:

(1) EEPROM INIT (5 BLOCKS):

Press “ ” key move cursor to EEPROM INIT, Press [2] key then monitor will INIT ADC value.

(2) Press “ ” key move cursor to “White Balance”, Press [2] key do white balance adjustment.

(3) Press “ ” key move cursor to “Color Temperature Adjust”, Press [2] key, Then OSD will display Fig.2



(Fig.2)

- (4) 9300K verify: move cursor to 9300K Press **2** key.
 Press “ ”, “ ” key adjust R.G.B value
 $x=0.283 \pm 0.02$
 $y=0.298 \pm 0.02$
 Press **1** key return to Fig.2
- (5) 6500K verify: Repeat (4) press “ ”, “ ” move cursor to 6500K press **2** key
 $x=0.313 \pm 0.02$
 $y=0.329 \pm 0.02$
 $Y \ 240 \text{ cd/m}^2$
- (6) 5400K verify: Repeat (4) press “ ”, “ ” move cursor to 5400K press **2** key
 $x=0.332 \pm 0.02$
 $y=0.348 \pm 0.02$
- (7) Press **1** key go back to Fig.2, Then press **1** key return to Fig.1, Power key OFF/ON quit factory mode.

G. Color Temperature & Luminance Verify:
 BRIGHTNESS MAX, CONTRAST MAX
 9300K: $x=0.283 \pm 0.02$ $y=0.298 \pm 0.02$
 6500K: $x=0.313 \pm 0.02$ $y=0.329 \pm 0.02$ $Y \ 240 \text{ cd/m}^2$
 5400K: $x=0.332 \pm 0.02$ $y=0.348 \pm 0.02$

2. Geometry:

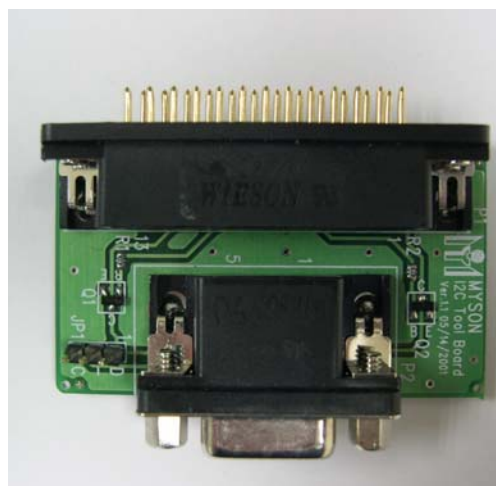
- Set cross-hatch pattern and preset timing as timing table listed.
- Change to each mode in turn and wait for the monitor finish auto-alignment and save process before change to next mode.
- Until all of modes are agjusted, exit OSD menu and press PWR OFF to exit factory mode.

5.4. Firmware update procedure :

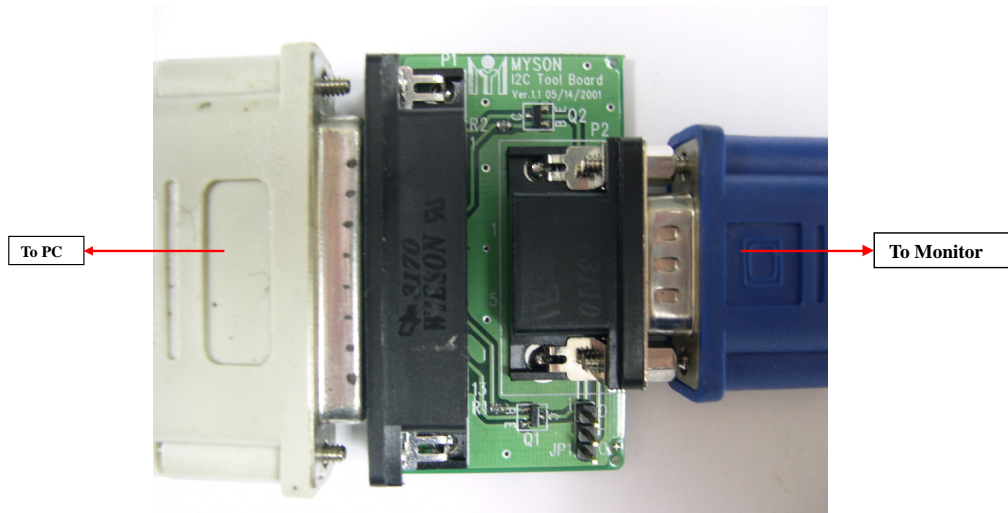
When examining a monitor, please check whether the firmware version is the latest. If not, please follow the procedure below to upgrade to the latest version.

1. Equipment needed :

- VA721/VE510s-2/VE710b-2
- PC (Personal computer)
- LPT cable
- Fixture (LM5ISP)
- Firmware upgrade program



2. Connection :



Appendix A : How to install the software for ISP :

1. To set up ISP environment:

Hardware: PC or notebook, parallel (printer) cable, ISP tooling.

Software: If OS was Win2000 or WinXP , please install “PORT95NT.exe”

In order to ensure that the system can execute the ISP program, please adjust the BIOS settings in the PC or notebook as shown in Fig 0.0.

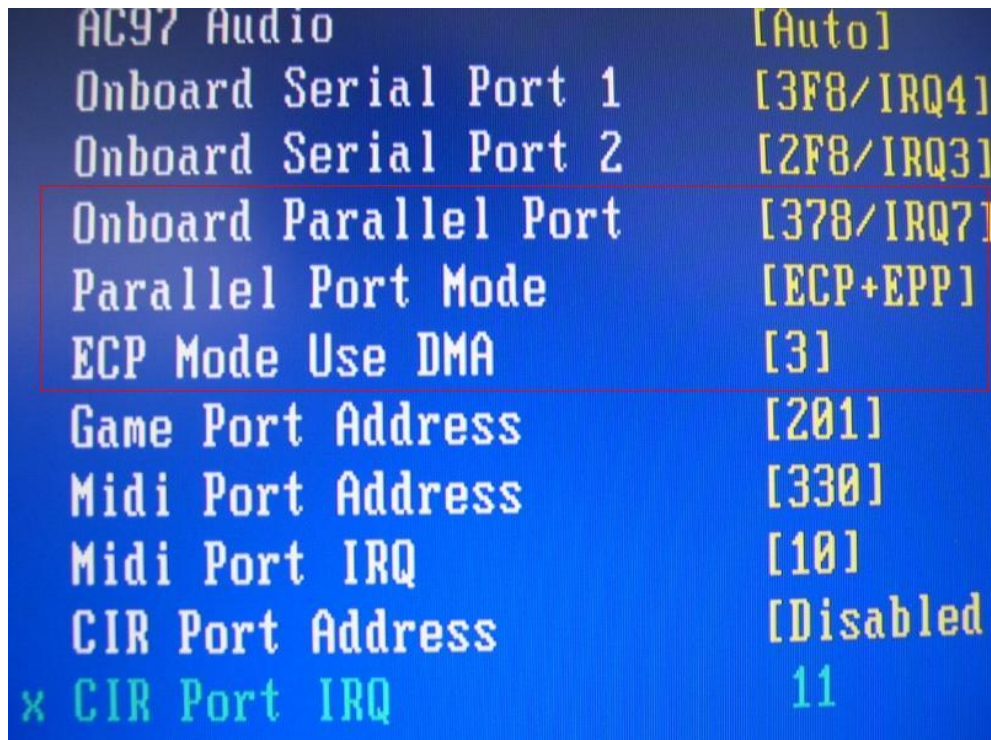


Fig 0.0

2. Double-click the "PORT95NT.exe" icon in Windows and install the program; see Fig 0.1.

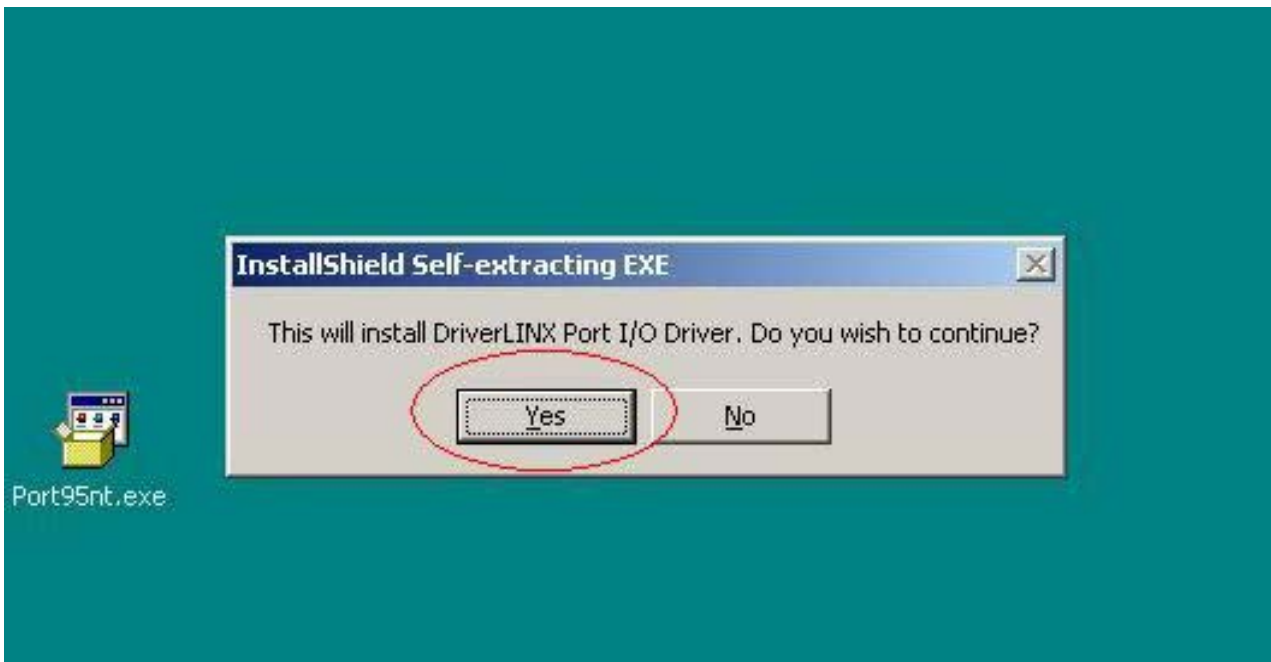


Fig 0.1

3. Continue through the installation process by pressing "Next" four times; see Fig. 0.2.

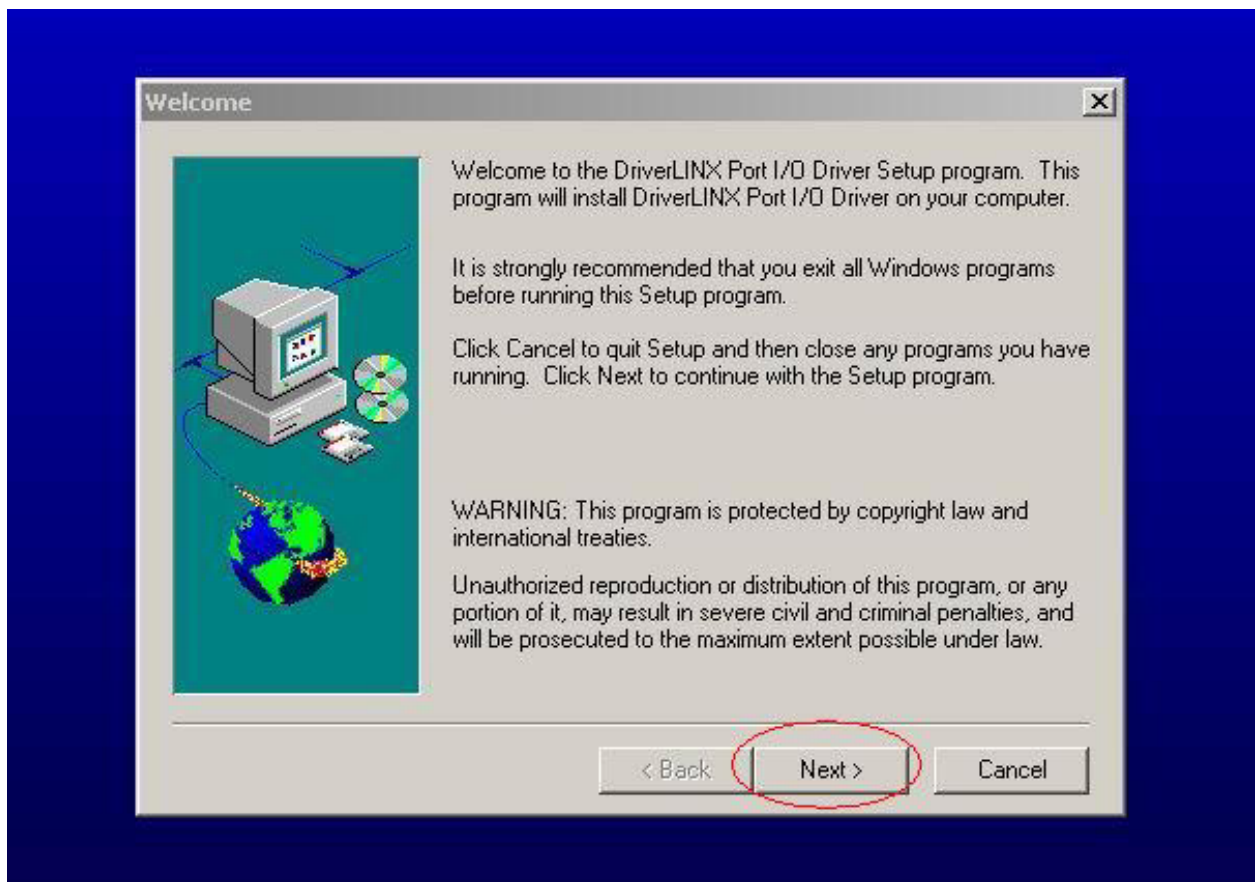


Fig. 0.2

4. Choose "Typical" then press "Next;" see Fig. 0.3.

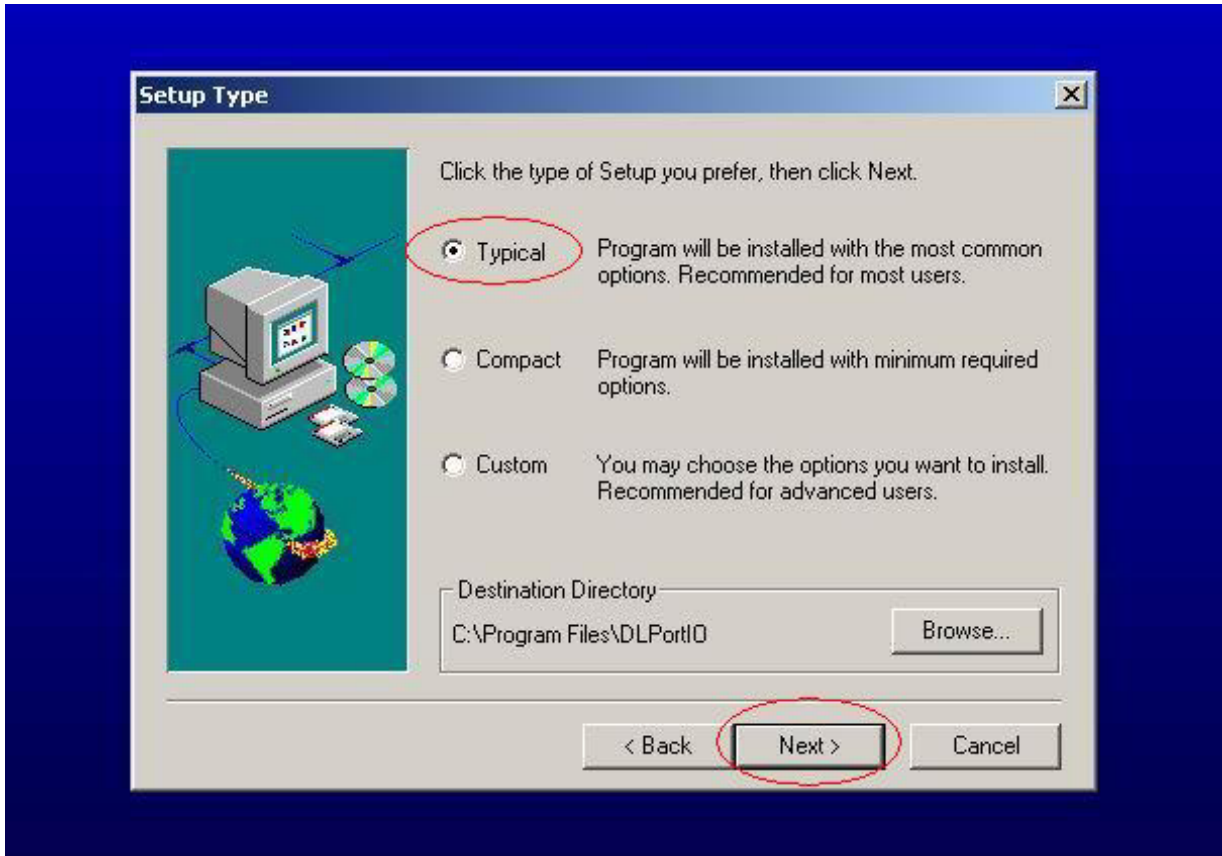


Fig. 0.3

5. Continue through the installation process by pressing "Next" four times; see Fig. 0.4.

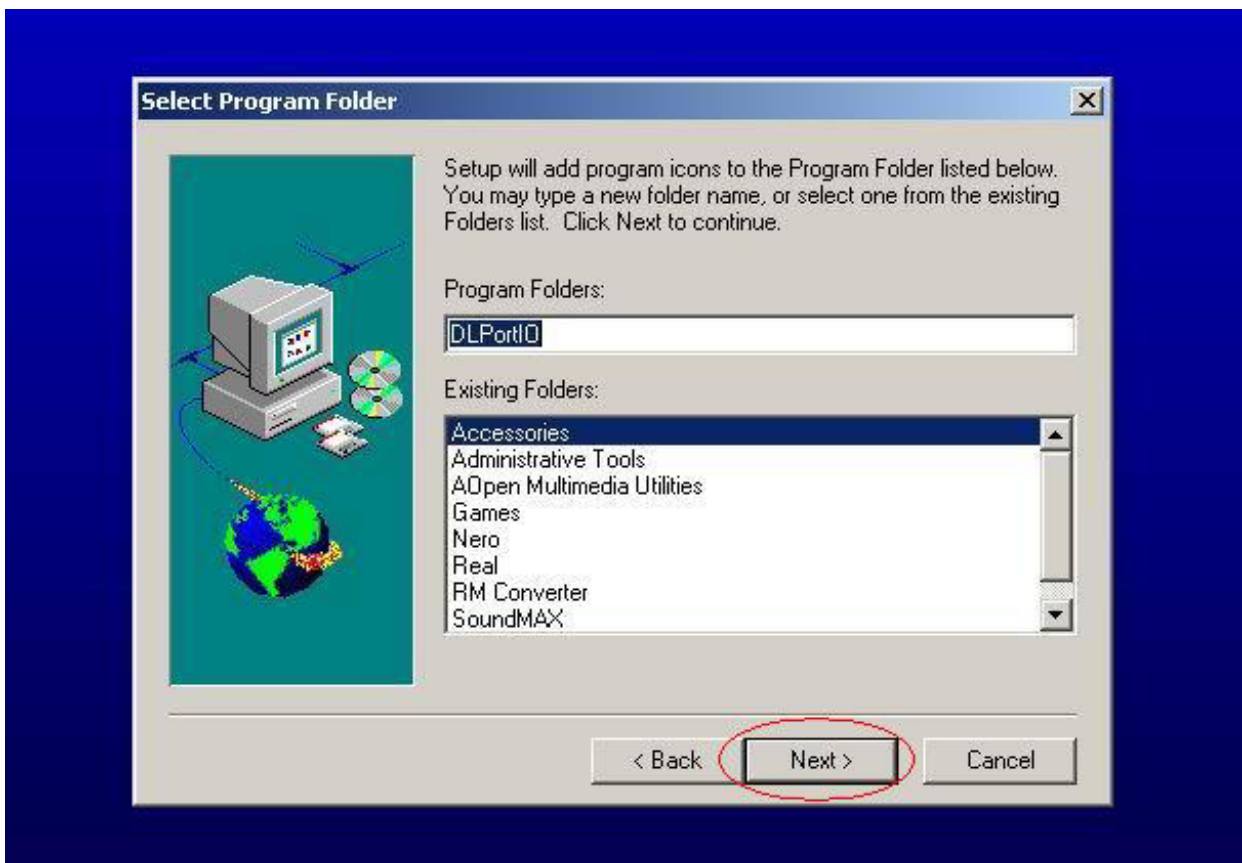


Fig. 0.4

6. When the installation is complete, restart the PC or notebook; see Fig 0.5.

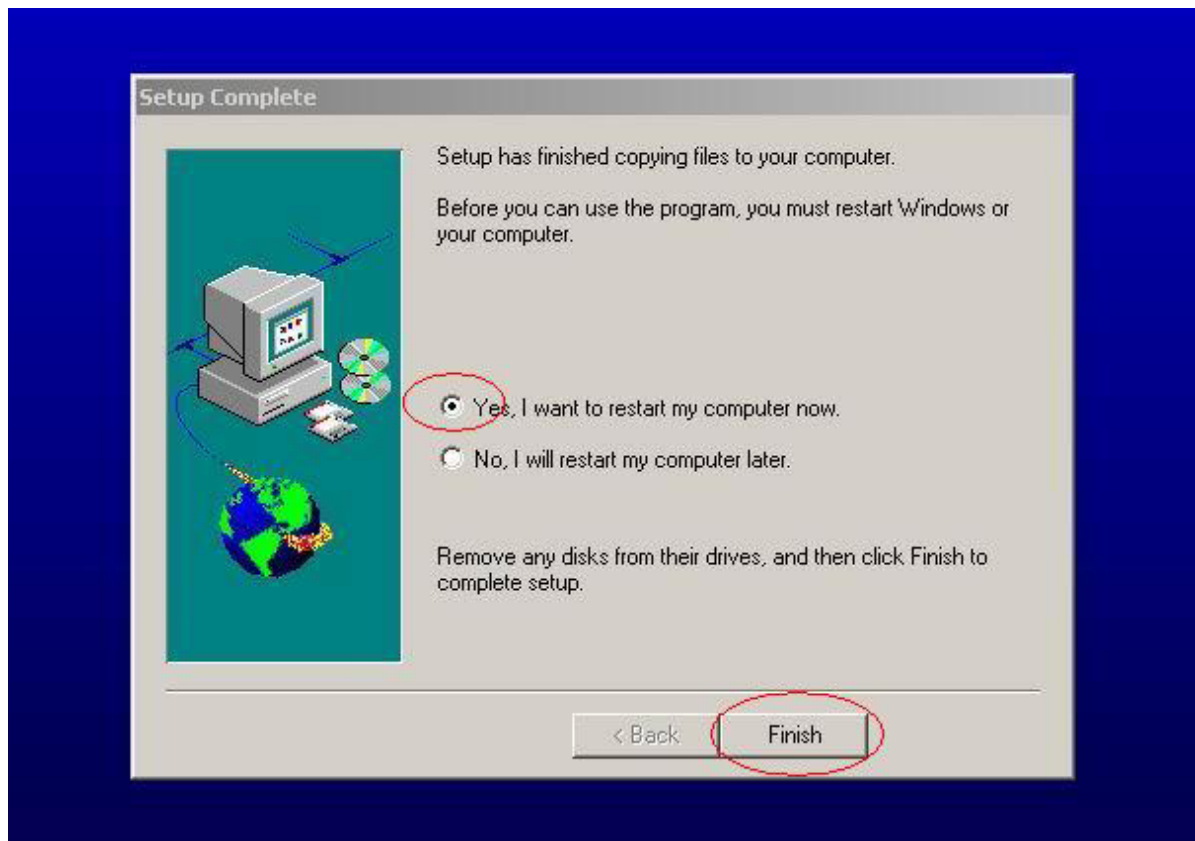


Fig. 0.5

Install ISP

1. The user may download the ISP driver and PORT95NT installation package from the Myson Century website (www.myson.com.)
2. The files extracted from the ZIP file are listed in Fig 1.0. Double-click setup.exe to install.

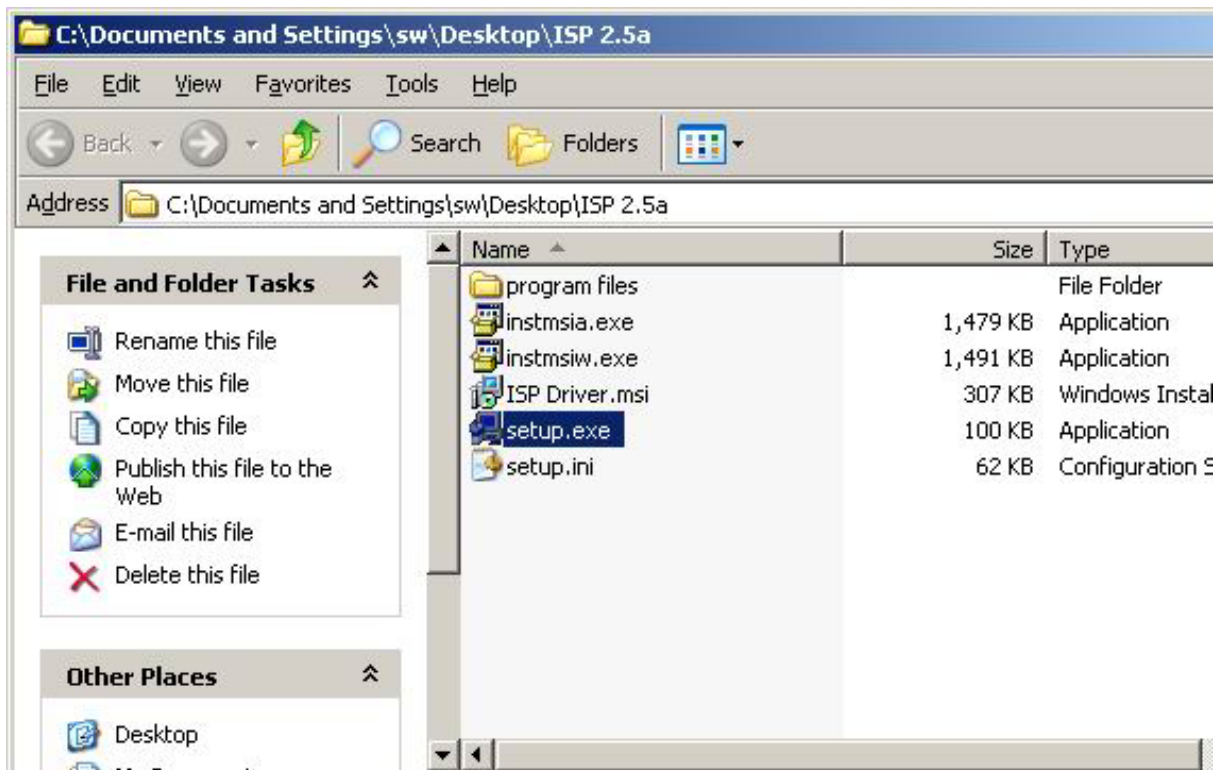


Fig 1.0

3. Press "Next" button to continue., see Fig 1.1



Fig 1.1

4. Press the "Change" button to change the install path if desired, and then press the "Next" button to continue; see Fig 1.2.



Fig 1.2

5. Press the "Install" button to continue; see Fig 1.3.

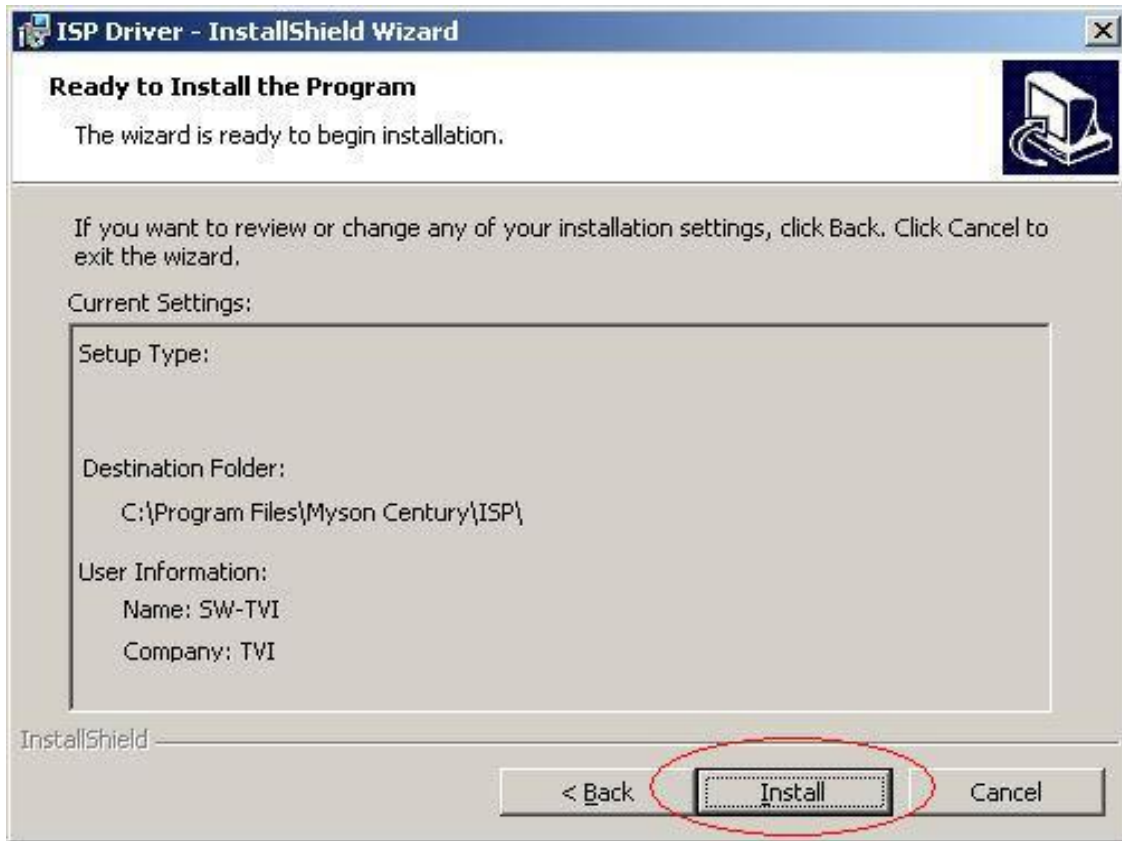


Fig. 1.3

6. When installation has finished, press the "Finish" button; see Fig 1.4.

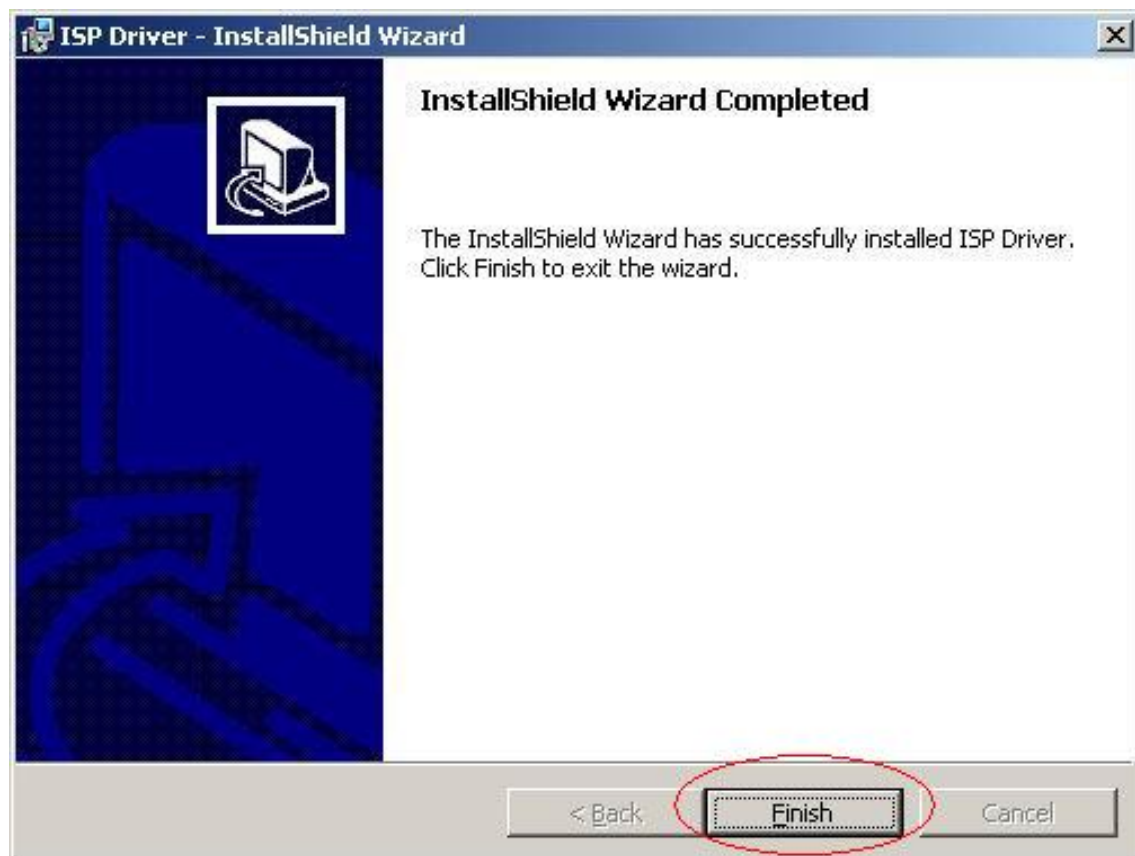


Fig. 1.4

Appendix B: How to use software to upgrade the BIOS:

1. After installation, shortcuts may be found in the settings path or the program menu (default setting); see Fig 2.1.

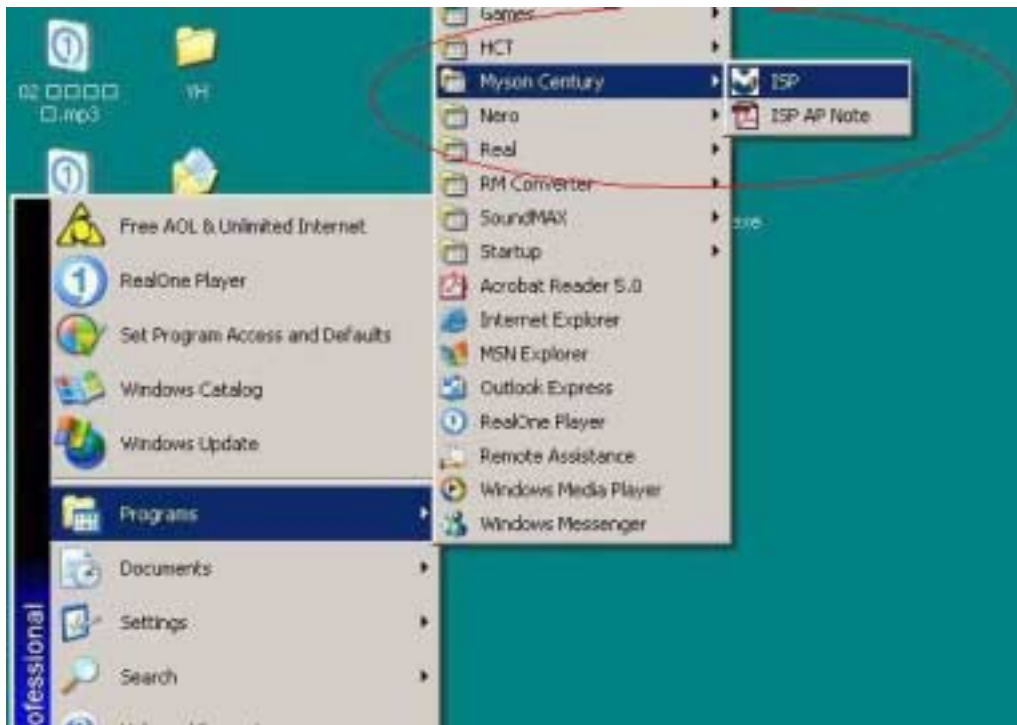


Fig. 2.1

2. The security file is a key to use ISP functions; press the "OK" button. See Fig 2.2.



Fig. 2.2

3. The warning shown in Fig. 2.3 is used to remind the user that a CPU rate that differs from IIC protocol may cause the ISP functions to fail; press the "OK" button.



Fig. 2.3

4. As shown in Fig. 2.4, press the "Create Security File" button to key in a security code, and use the slider bar to adjust the speed of the IIC bus.

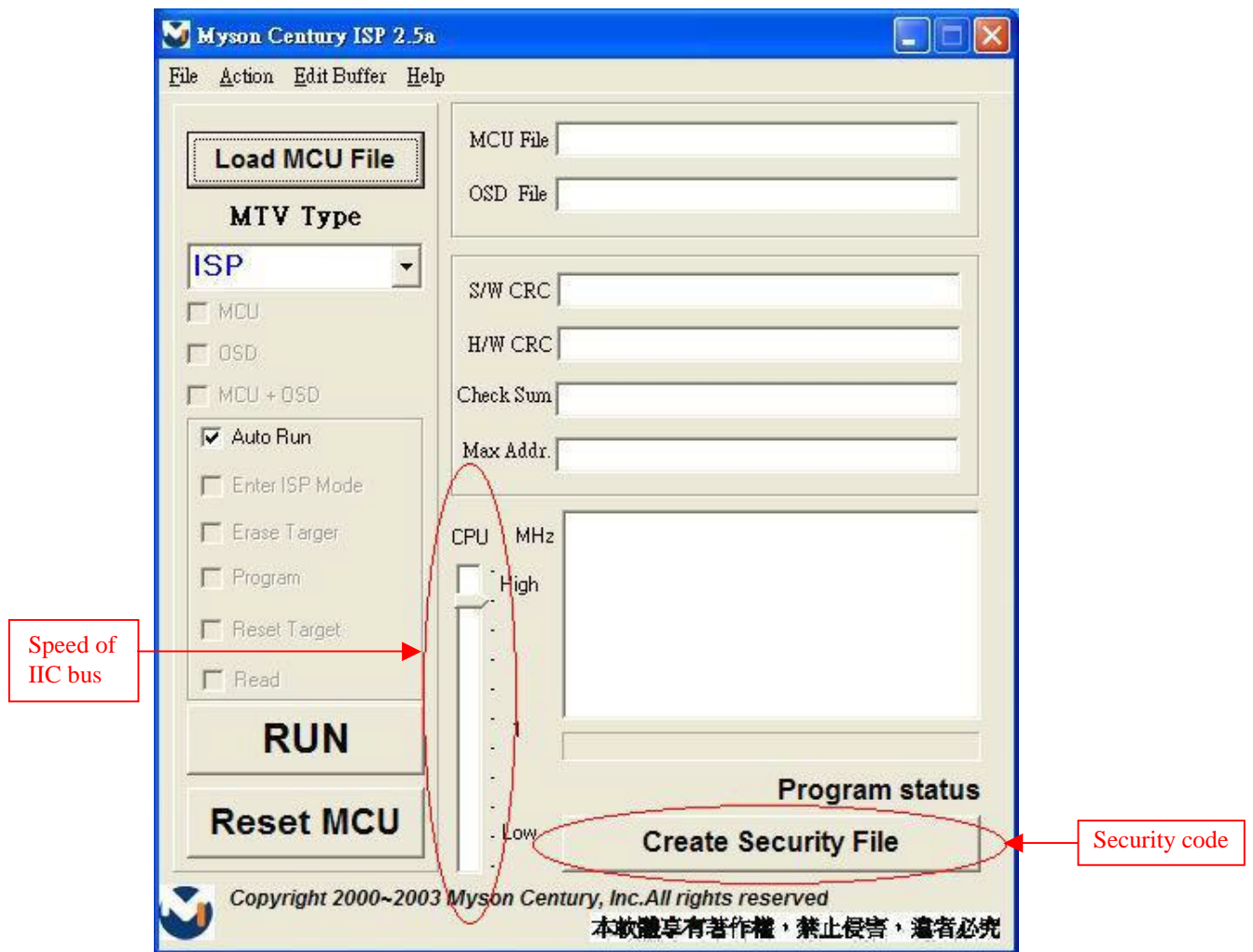


Fig. 2.4

- Fig 2.5 shows the settings for the ISP software's security code. It requires two command numbers, and the commands must be keyed in sequentially: 7C, 4C, 77. The command numbers and commands must be set by the user while coding. For more details, please refer to section 6 boot code of ISP.

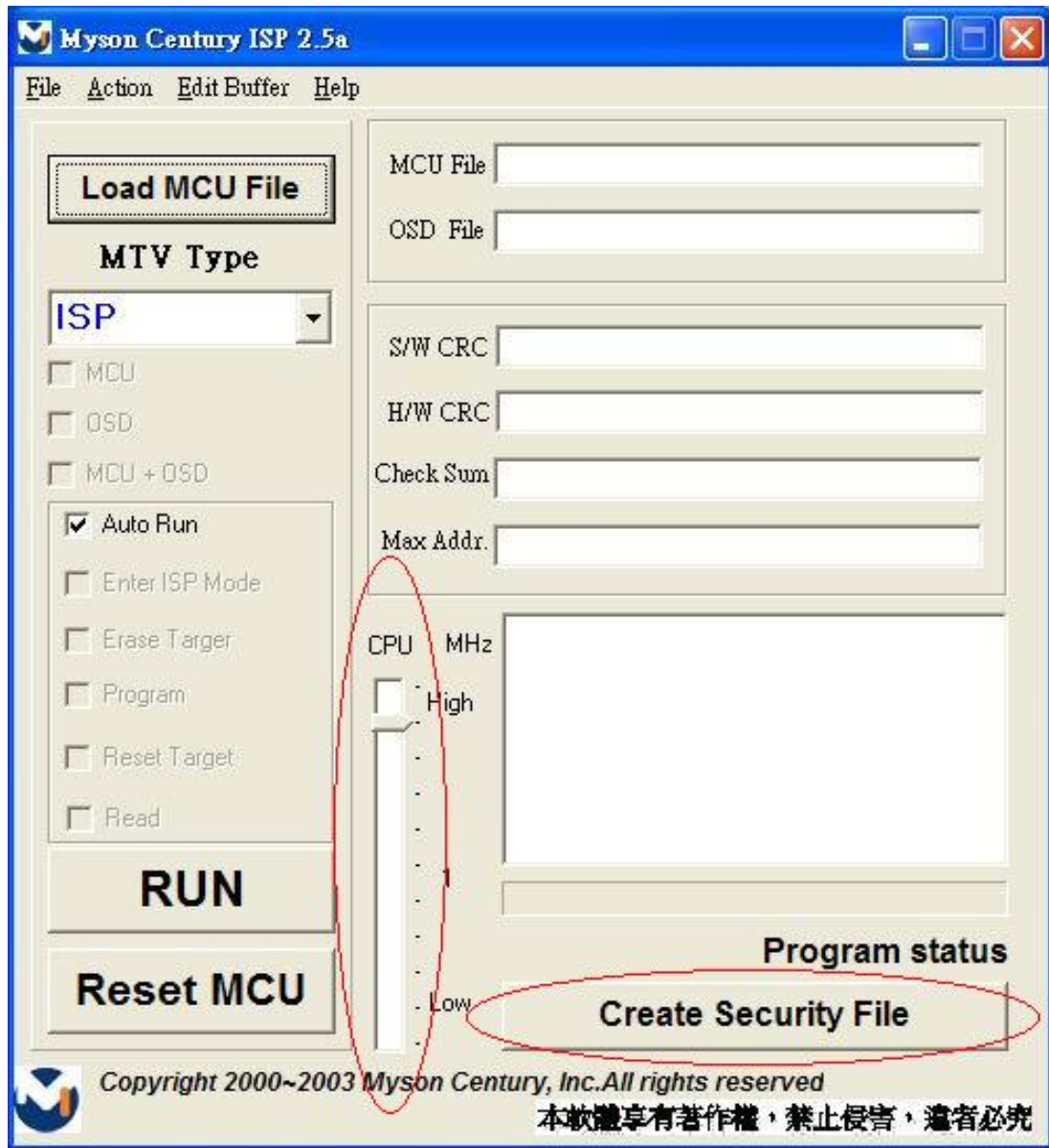


Fig. 2.5

Appendix C: Using ISP to program MCU

1. As shown in Fig. 3.1, select the MTV type first, load the binary or intel hex file to be programmed into the MCU, click "OK," then press the "RUN" button.

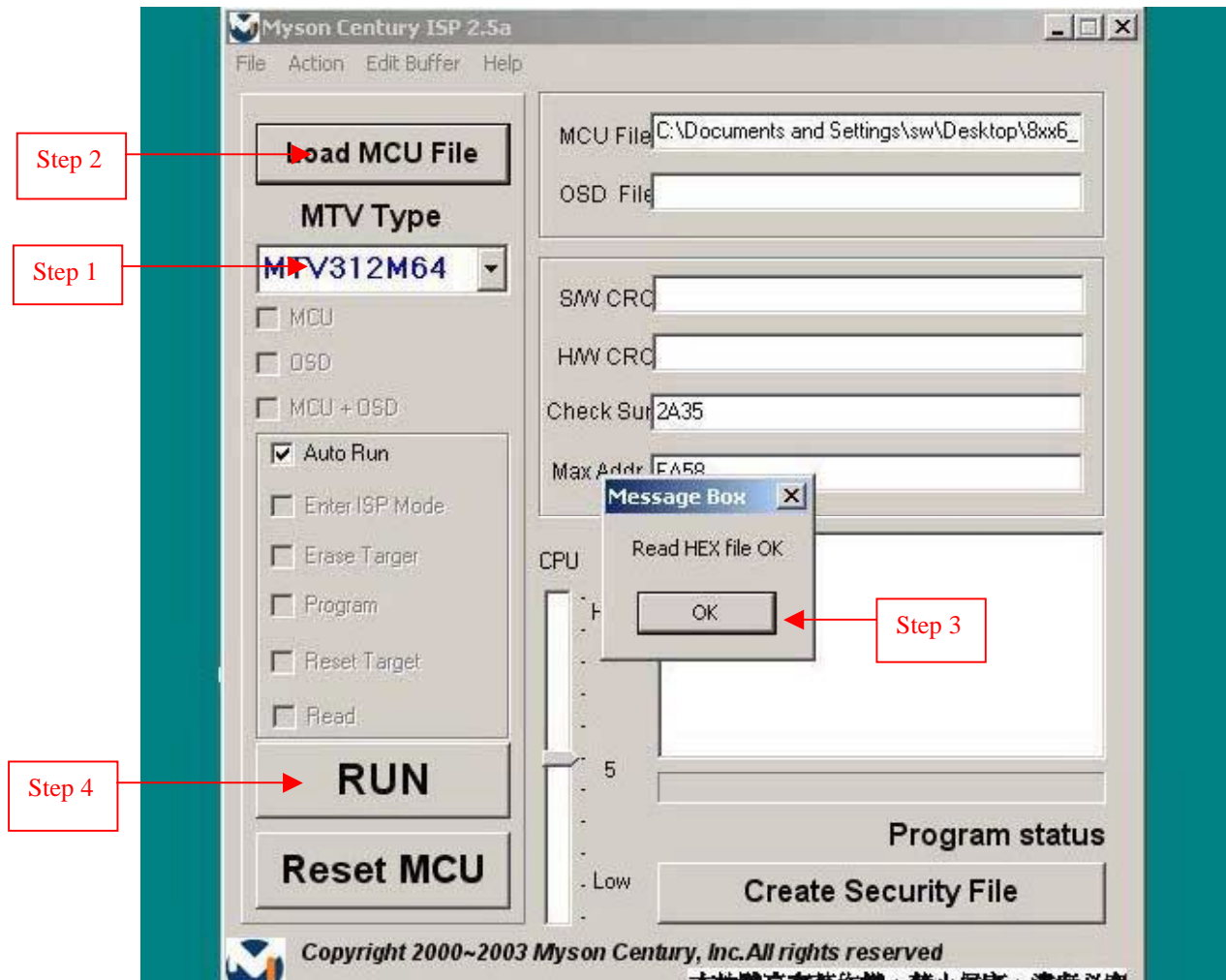


Fig. 3.1

2. If the user changes the MTV type, the file must be loaded again, as the previously loaded file will be cleared.
3. CRC (cyclic redundancy check): the host can check the result in the CRC register instead of reading every byte in flash. The Check MCU CRC OK message indicates that the host has verified the program's CRC; see Fig.3.2.

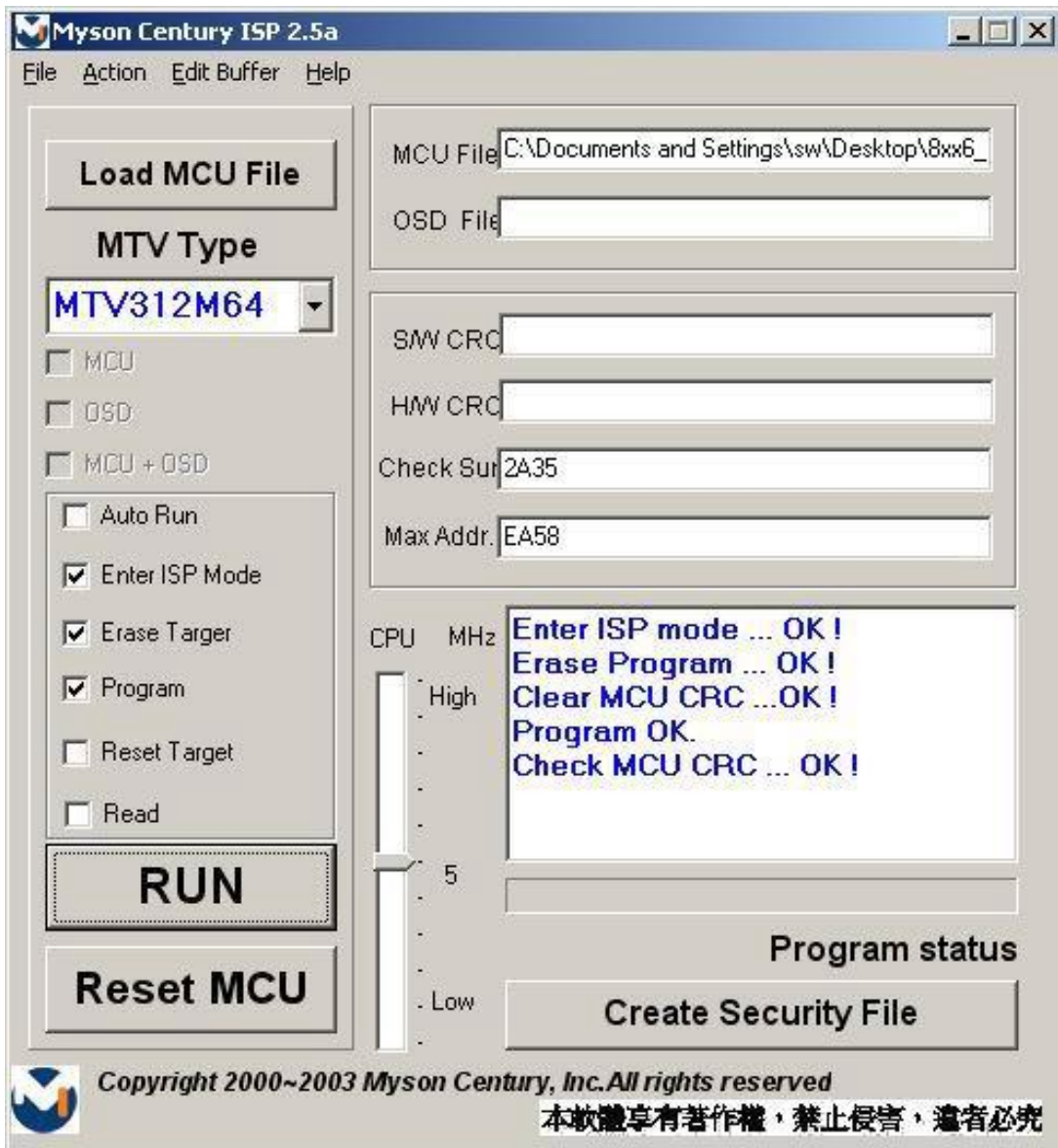
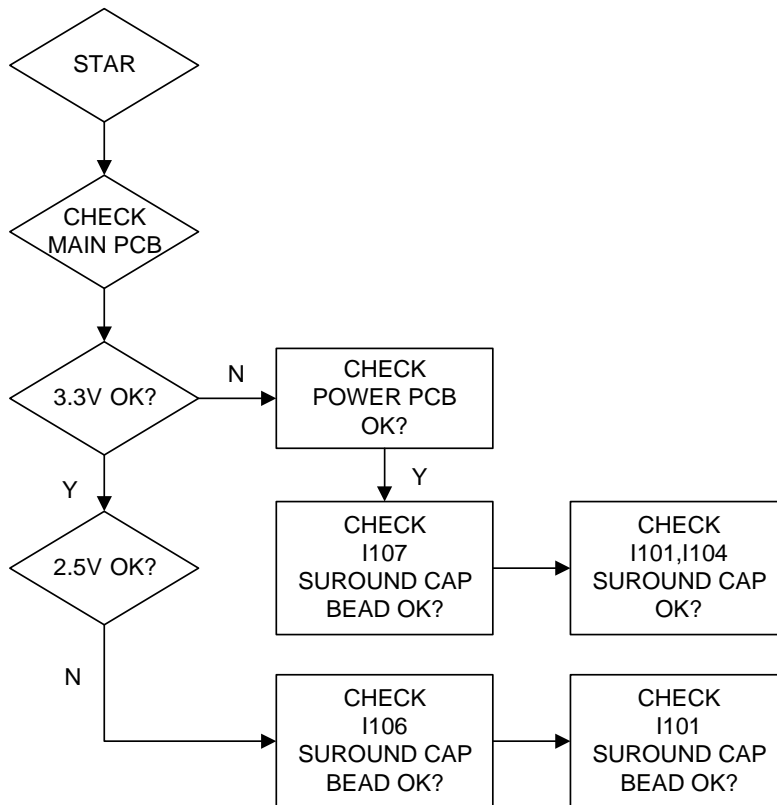
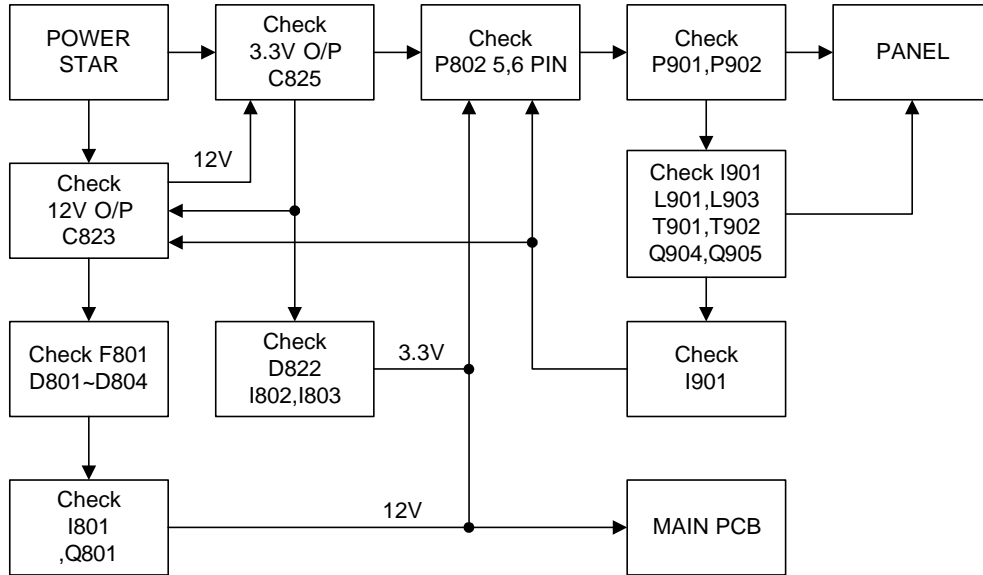


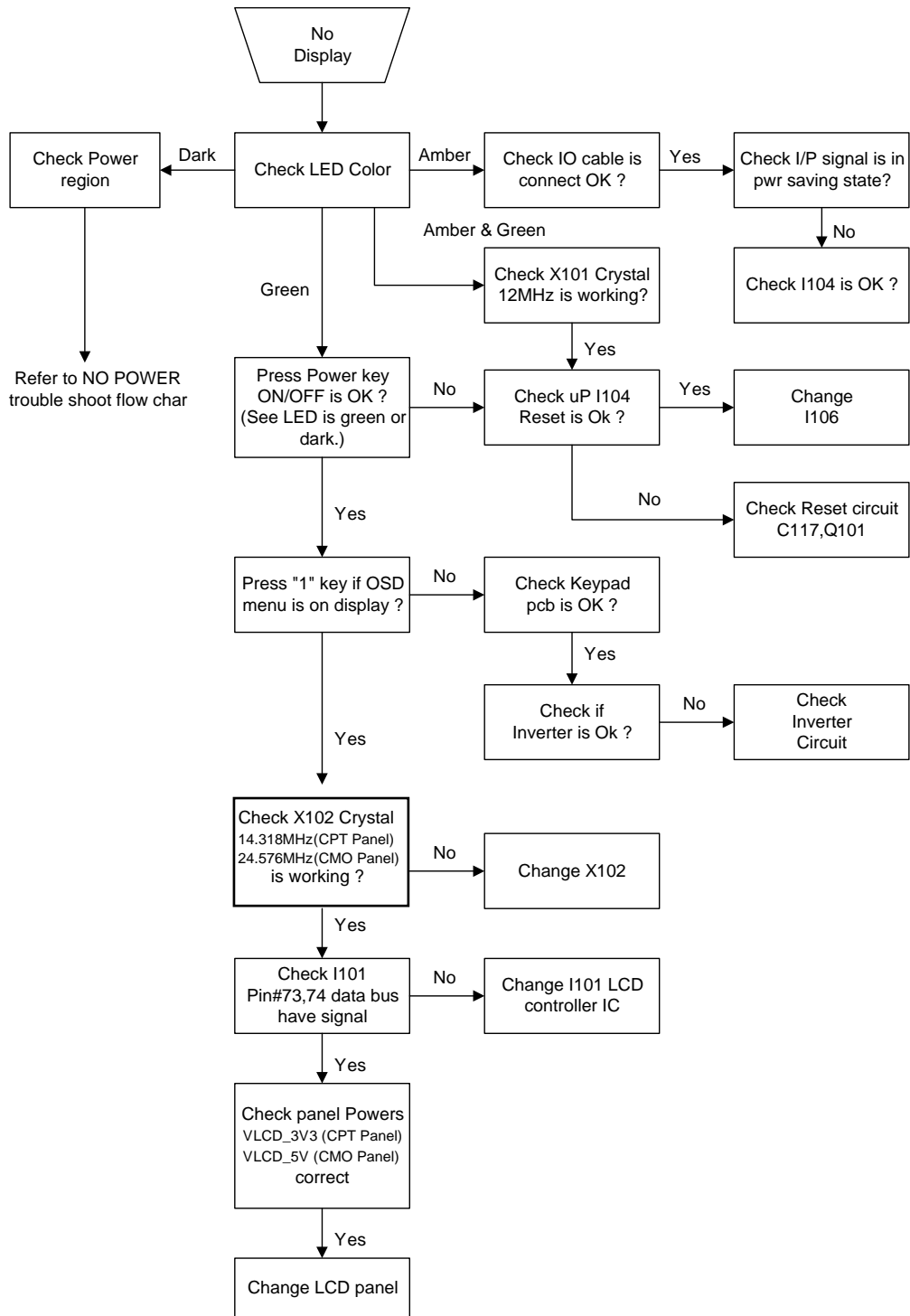
Fig. 3.2

6. Trouble Shooting Flow Chart

6.1. NO POWER



6.2. NO DISPLAY



7. Recommended Spare Parts List

RECOMMENDED SPARE PARTS LIST (VE710b-2)

ViewSonic Model Number: VS10047

Rev: 1c

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Q'ty
1	Accessories: Power Cord USA Wall 1.83M Black		A-PC-0106-0121	2427130046	P951	1
2	PCB Ass'y Block (Main)		B-MB-0201-0846	6201-7978908251		1
3	PCB Ass'y Block (Con)		B-CB-0206-0186	6202-7978908251		1
4	PCB Ass'y Block (Power)		B-PS-0204-0071	6204-7978908251		1
5	Cabinets: Dust Cover VE710 ABS94HB AL-Plate(R) R		M-CV-0830-0300	2027258601	6B02	1
6	Front Bezel VE710B-2 ABS94HB Pantone 432C		C-FP-0301-0977	2024266902	1F01	1
7	Cabi Back VE710B-2 ABS94HB Pantone 432C		C-BC-0302-0588	2022262302	2C01	1
8	Cables: I/O Cable D15/C13 20276(3+6) 1.83M BLK		A-VIO-0118-0034	2427501174	P961	1
9	Documentation: CD-Owner Guide VE710B-2 Wizard Date:20031118		A-CD-VE710B-2	2438501142	6P80	1
10	Label ViewSonic Open Stand Label-LCD		M-LB-0813-0769	2055613293	5B10	1
11	Label VE710B-2 VS10047		M-LB-0813-0966	2055632045	6P02	1
12	Label ViewSonic VA520 Number Sticker		M-LB-0813-0855	2055613281	6P03	1
13	Label VE710B-2 VS10047 Small		M-LB-0813-0967	2055636021	6P05	1
14	Label ViewSonic Container Label		M-LB-0813-0856	2055613379	6P11	1
15	Label 10*20 HI-Pot Tested OK		M-LB-0813-0530	2055617101	6P13	1
16	Label VSC High Voltage Warning Label		M-LB-0813-0959	2055613392	6P14	1
17	Label VE710B-2 VS10047 CPT 040728		M-LB-0830-0718	2055132180	6P50	1
18	Serial Label ViewSonic LCD Serial Label		M-LB-0813-0002	2056603050	6P51 6P54 6P55	1
19	Label JK0936F WEN		M-LB-0813-0528	2055103400	6P52	1
20	Guarant Card ViewSonic VE710B-2 QSG		M-MS-0808-9356	2002310375	6P84	1
21	Electronic Components: Lcd Panel CLAA170EA03QV CPT		M-LCD-0826-0219	2212005200	V901	1
22	Fuse FUSE 2.5A/250V 21502.5 LITTEL		E-FS-0410-0009	2213125207	F801	1
23	Hardware: Screw,Bnd T+ M3X6(BND T+)		M-SCW-0824-0812	2084730062	2C05	1
24	Hinge VE710 -5' ~ +20'		M-MS-0808-9354	2106656500	5F02	1
25	Packing Material: Carton Box VE710B-2 VS10047 040728		P-BX-0601-0961	2011132009	6P01	1
26	Polyfoam VE710 EPS (L)		P-FM-0602-0866	2012176400	6P20	1
27	Polyfoam VE710 EPS (R)		P-FM-0602-0867	2012176500	6P21	1
28	Polyethy Bag 90CMX75CMX0.02t PE-LD		M-MS-0808-1317	2013053000	6P60	1
29	Polyethy Bag 250mmx350mmx0.3 ADD>PE-LD<		M-MS-0808-1316	2013222536	6P85	1
30	Plastics: Function Key VE710 ABS94HB AL-Plate		PL-FK-0709-0152	2044266301	1F03	1
31	Name Plate ViewSonic E015-006 3-BIRD Logo		M-MS-0808-9214	2051352100	1F04	1
32	Name Plate ViewSonic Logo 3 PIN VA521		M-MS-0808-9213	2051352000	1F05	1
33	Name Plate ViewSonic E015-027		M-MS-0808-9396	2051352202	2C02	1
34	Stand VE710B-2 ABS94HB Pantone 432C		PL-PS-0715-0991	2028258202	5B01	1
35	Foot Pad Rubber O20*2TMM Square Grain		PL-PD-0714-0113	2039819301	5B03	1

RECOMMENDED SPARE PARTS LIST (VE710s-2)

ViewSonic Model Number: VS10047

Rev: 1c

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Q'ty
1	Accessories: Power Cord USA Wall 1.83M Black		A-PC-0106-0121	2427130046	P951	1
2	PC Board Assembly:	PCB Ass'y Block (Main)	B-MB-0201-0846	6201-7978908251		1
3		PCB Ass'y Block (Con)	B-CB-0206-0186	6202-7978908251		1
4		PCB Ass'y Block (Power)	B-PS-0204-0071	6204-7978908251		1
5	Cabinets:	Dust Cover VE710 ABS94HB AL-Plate(R) R	M-CV-0830-0300	2027258601	6B02	1
6		Front Bezel VE710 ABS94HB PS7604B	C-FP-0301-0979	2024266901	1F01	1
7		Cabi Back VE710 ABS94HB Black 4001	C-BC-0302-0587	2022262301	2C01	1
8		Stand VE710 ABS94HB Black 4001	PL-PS-0715-0990	2028258201	5B01	1
9	Cables: I/O Cable D15/C13 20276(3+6) 1.83M BLK		A-VIO-0118-0034	2427501174	P961	1
10	Documentation:	CD-Owner Guide VE710S-2 Wizard VS10047	A-CD-VE710S-2	2438501140	6P80	1
11		Label ViewSonic Open Stand Label-LCD	M-LB-0813-0769	2055613293	5B10	1
12		Label VE710S-2 VS10047	M-LB-0813-0971	2055632044	6P02	1
13		Label ViewSonic VA520 Number Sticker	M-LB-0813-0855	2055613281	6P03	1
14		Label VE710S-2 VS10047 SMALL	M-LB-0813-0972	2055636020	6P05	1
15		Label ViewSonic Container Label	M-LB-0813-0856	2055613379	6P11	1
16		Label 10*20 HI-Pot Tested OK	M-LB-0813-0530	2055617101	6P13	1
17		Label VSC High Voltage WARNING Label	M-LB-0813-0959	2055613392	6P14	1
18		Label VE710S-2 VS10047 CPT 040728	M-LB-0830-0717	2055132179	6P50	1
19		Serial Label ViewSonic LCD Serial Label	M-LB-0813-0002	2056603050	6P51 6P54 6P55	1
20		Label JK0936F WEN	M-LB-0813-0528	2055103400	6P52	1
21		Guarant Card ViewSonic VE710S-2 QSG	M-MS-0808-9358	2002310374	6P84	1
22	Electronic Components: LCD Panel		M-LCD-0826-0219	2212005200	V901	1
23	Fuse Fuse 2.5A/250V 21502.5 Littell		E-FS-0410-0009	2213125207	F801	1
24	Hardware: Screw,Bnd T+ M3X6(BND T+)		M-SCW-0824-0812	2084730062	2C05	1
25	Hinge VE710 -5'~ +20'		M-MS-0808-9354	2106656500	5F02	
26	Packing Material:	Carton Box VE710S-2 VS10047 040728	P-BX-0601-0962	2011132007	6P01	1
27		Polyfoam VE710 EPS (L)	P-FM-0602-0866	2012176400	6P20	1
28		Polyfoam VE710 EPS (R)	P-FM-0602-0867	2012176500	6P21	1
29		Polyethy Bag 90CMX75CMX0.02t PE-LD	M-MS-0808-1317	2013053000	6P60	1
30		Polyethy Bag 250mmx350mmx0.3 ADD>PE-LD<	M-MS-0808-1316	2013222536	6P85	1
31	Plastics:	Function Key VE710 ABS94HB AL-Plate	PL-FK-0709-0152	2044266301	1F03	1
32		Name Plate ViewSonic E015-006 3-Bird Logo	M-MS-0808-9214	2051352100	1F04	1
33		Name Plate ViewSonic Logo 3 PIN VA521	M-MS-0808-9213	2051352000	1F05	1
34		Name Plate ViewSonic E015-017	M-MS-0808-9215	2051352200	2C02	1
35		Foot Pad Rubber O20*2TMM Square Grain		PL-PD-0714-0113	2039819301	5B03

RECOMMENDED SPARE PARTS LIST (VA721-1)

ViewSonic Model Number: VS10047

Rev: 1c

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Q'ty
1	Accessories: Power Cord USA WALL 1.83M Black		A-PC-0106-0121	2427130046	P951	1
2	PC Board Assembly:	PCB Ass'y Block (Main)	B-MB-0201-0846	6201-7978908251		1
3		PCB Ass'y Block (Con)	B-CB-0206-0186	6202-7978908251		1
4		PCB Ass'y Block (Power)	B-PS-0204-0071	6204-7978908251		1
5	Cabinets:	Cabi Back VE710 ABS94HB Black 4001	C-BC-0302-0587	2022262301	2C01	1
6		Dust Cover VE710 ABS94HB AL-Plate(R) R	M-CV-0830-0300	2027258601	6B02	1
7		Front Bezel VA721 ABS 94HB PS7604B	C-FP-0301-0975	2024266903	1F01	1
8	Cables:	I/O Cable D15/C13 20276(3+6) 1.83M Blk	A-VIO-0118-0034	2427501174	P961	1
9	Documentation:	Cd-Owner Guide VA721 Wizard Date:20031120	A-CD-VA721	2438501144	6P80	1
10		Label ViewSonic Open Stand Label-LCD	M-LB-0813-0769	2055613293	5B10	1
11		Label VA721 VS10047 WorldWide	M-LB-0813-0960	2055632047	6P02	1
12		Label VA721 VS10047 Small	M-LB-0813-0961	2055636022	6P05	1
13		Label ViewSonic Container Label	M-LB-0813-0856	2055613379	6P11	1
14		Label 10*20 HI-POT Tested OK	M-LB-0813-0530	2055617101	6P13	1
15		Label VSC High Voltage Warning Label	M-LB-0813-0959	2055613392	6P14	1
16		Label VA721 VS10047 CPT 040623	M-LB-0830-0716	2055132160	6P50	1
17		Serial Label ViewSonic LCD Serial Label	M-LB-0813-0002	2056603050	6P51 6P54 6P55	1
18		Label JK0936F WEN	M-LB-0813-0528	2055103400	6P52	1
19		Guarant Card ViewSonic VA721 QSG 20031120	M-MS-0808-9353	2002310383	6P84	1
20	Electronic Components:	LCD Panel 17" Color TFT CMO (M170E5-L05)	M-LCD-0826-0219	2212005200	V901	1
21		Fuse Fuse 2.5A/250V 21502.5 Little	E-FS-0410-0009	2213125207	F801	1
22	Hardware:	Hinge VE710 -5~ +20'	M-MS-0808-9354	2106656500	5F02	1
23		Screw,Bnd T+ M3X6(BND T+)	M-SCW-0824-0812	2084730062	2C05	1
24	Packing Material:	Carton Box VA721 VS10047 040728	P-BX-0601-0960	2011132008	6P01	1
25		Polyfoam VE710 EPS (L)	P-FM-0602-0866	2012176400	6P20	1
26		Polyfoam VE710 EPS (R)	P-FM-0602-0867	2012176500	6P21	1
27		Polyethy Bag 90CMX75CMX0.02t PE-LD	M-MS-0808-1317	2013053000	6P60	1
28	Plastics:	Function Key VE710 ABS94HB AL-Plate	PL-FK-0709-0152	2044266301	1F03	1
29		Name Plate ViewSonic Logo 3 PIN VA521	M-MS-0808-9213	2051352000	1F05	1
30		Name Plate ViewSonic E015-006 3-BIRD Logo	M-MS-0808-9214	2051352100	1F04	1
31		Name Plate ViewSonic E015-017	M-MS-0808-9215	2051352200	2C02	1
32		Stand VE710 ABS94HB Black 4001	PL-PS-0715-0990	2028258201	5B01	1
33		Foot Pad Rubber O20*2TMM Square Grain	PL-PD-0714-0113	2039819301	5B03	1

BOM LIST (VE710b-2)

ViewSonic Model Number: VS10047

Rev: 1b

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Qty
1	C-FP-0301-0977	2024266902	FRONT BEZEL	VE710 ABS94HB PS7604B	1F01	1
2	#N/A	2053650500	LED INDIC.-FUNC	VE710 PMMA94HB	1F02	1
3	PL-FK-0709-0152	2044266301	FUNCTION KEY	VE710 ABS94HB AL-PLATE	1F03	1
4	M-MS-0808-9214	2051352100	NAME PLATE	VIEWSONIC E015-006 3-BIRD LOGO	1F04	1
5	M-MS-0808-9213	2051352000	NAME PLATE	VIEWSONIC LOGO 3 PIN VA521	1F05	1
6	C-BC-0302-0588	2022262302	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1
7	M-MS-0808-9396	2051352202	NAME PLATE	VIEWSONIC E015-017	2C02	1
8	M-SCW-0824-0848	2083740082	SCREW,BND T+	M4*8(BND T+)	2C03	2
9	M-BK-0805-0070	2071869400	BRACKET,FIX	METAL PLATE 1.0MM KENSINGTON	2C04	1
10	M-SCW-0824-0812	2084730062	SCREW,BND T+	M3X6(BND T+)	2C05	2
11	PL-PS-0715-0991	2028258202	STAND	VE710 ABS94HB BLACK 4001	5B01	1
12	M-BK-0805-0071	2071970400	METAL FITTG	VE710 STAND SECC T=1.5	5B02	1
13	PL-PD-0714-0113	2039819301	FOOT PAD	RUBBER O20*2TMM SQUARE GRAIN	5B03	4
14	M-SCW-0824-6716	2080002400	SCREW,SPE	VE155/3x8 STAND	5B04	2
15	M-SCW-0824-0849	2080004700	SCREW,SPE	M3*4 SPECIAL THIN HEAD TYPE I	5B05	3
16	PL-00000325	2039802601	FOOT PAD	JC186H 20X1.6mm Rubber blac	5B06	1
17	M-LB-0813-0769	2055613293	LABEL	VIEWSONIC OPEN STAND LABEL-LCD	5B10	1
18	M-BK-0805-0072	2071970200	METAL FITTG	VE710 PANEL SECC 0.8	5F01	1
19	M-MS-0808-9354	2106656500	HINGE	VE710 -5'~ +20'	5F02	RA 1
20	M-MS-0808-9355	2106656501	HINGE	VE710 -5'~+20' FOR TL	5F02	RB 1
21	M-BK-0805-0073	2071970300	METAL FITTG	VE710 COVER SPT T=0.3	5F03	2
22	M-SCW-0824-6715	2080002200	SCREW,SPE	L355 M3x6 DH NICKEL-PLATED	5F04	4
23	M-SCW-0824-0811	2080003700	SCREW,SPE	1SZTTER001A M3*6L MSWR17/FZMY1	5F05 5F06	8
24	#N/A	2072457800	INSULATOR	VE710 24*31*0.45 T4000	5F07	1
25	#N/A	2072457900	INSULATOR	VE710 12*135*0.45 T4000	5F08	1
26	M-SCW-0824-6717	2081430062	SCREW,(WASH)	M3X6 P=0.5(TOOTH WASHER)	5F09	1
27	M-SCW-0824-6719	2082630062	SCREW	M3X6 P=0.5	5F10	3
28	M-SCW-0824-0851	2082340072	SCREW,CSK+	SCREW CSK+ M4*7	5F11	4
29	M-BK-0805-0074	2071970800	METAL FITTG	VE710 COVER SPT T=0.3	5F12	1
30	#N/A	2072458300	INSULATOR	12*10*1.1 94V0 ADHESIVE	5F13	1
31	#N/A	2080004800	SCREW,SPE	M3.5*13 PMS/SW YLOK	6B01	4
32	M-CV-0830-0300	2027258601	DUST COVER	VE710 ABS94HB AL-PLATE(R) R	6B02	1
33	M-MS-0808-9408	2061453400	BUSHING	VE710 PLUG RUBBER	6B03	4
34	#N/A	2027258602	DUST COVER	VE710 ABS94HB AL-PLATE(L)	6B04	1
35	P-BX-0601-0961	2011132009	CARTON BOX	VE710S-2 VS10047 20041014	6P01	1
36	#N/A	2055632075	LABEL	VE710S-2 VS10047(M) CMO	6P02	1
37	M-LB-0813-0855	2055613281	LABEL	VIEWSONIC VA520 NUMBER STICKER	6P03	1
38	M-LB-0813-0967	2055636021	LABEL	VE710S-2 VS10047 SMALL	6P05	1
39	M-LB-0813-0856	2055613379	LABEL	ViewSonic CONTAINER LABEL	6P11	1/36
40	M-LB-0813-0530	2055617101	LABEL	10*20 HI-POT TESTED OK	6P13	1
41	M-LB-0813-0959	2055613392	LABEL	VSC HIGH VOLTAGE WARNING LABEL	6P14	1
42	P-FM-0602-0866	2012176400	POLYFOAM	VE710 EPS (L)	6P20	1
43	P-FM-0602-0867	2012176500	POLYFOAM	VE710 EPS (R)	6P21	1
44	#N/A	2055132203	LABEL	VE710S-2 VS10047 CMO 041014	6P50	1
45	M-LB-0813-0002	2056603050	SERIAL LABEL	VIEWSONIC LCD SERIAL LABEL	6P51 6P54 6P55 6P56	4
46	M-LB-0813-0528	2055103400	LABEL	JK0936F WEN	6P52	1
47	M-MS-0808-1317	2013053000	POLYETHY BAG	90CMX75CMX0.02t PE-LD	6P60	1
48	#N/A	2438501167	CD-OWNER GUIDE	VE710S-2 WIZARD VS10047 CMO	6P80	1
49	#N/A	2002310428	GUARANT CARD	VIEWSONIC VE710S-2 QSG 041014	6P84	1
50	M-MS-0808-1316	2013222536	POLYETHY BAG	250mmx350mmxt0.3 ADD>PE-LD<	6P85	1
51	#N/A	2072250103	HEAT SINK	JC186H AL6063S-T5 AUDIO	9H02	1
52	#N/A	2072261200	HEAT SINK	JT178WP69/45W*15L*23H	9H03	1
53	#N/A	2429350300	TUBING,H-SRK	12*20MM FOR ADAPTOR	9R81 9R82 9R83 9R84	4
54	M-SCW-0824-0285	2084730082	SCREW,BND T+	M3X8(BND T+)	9S02 9S03	3
55	#N/A	2346147396	CAP,CHIP 125°C	CS 0603/X7R/50V 0.047u K T	C102 C103 C104 C106 C107 C109	RA 6
56	#N/A	2346247396	CAP,CHIP 125°C	CS 0603/X7R/25V 0.047u K T	C102 C103 C104 C106 C107 C109	RB 6
57	E-C-0404-4224	2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p J T	C111 C113 C114 C115	4
58	E-C-0404-3815	2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u Z T	C116 C122 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142 C143 C148 C149 C151 C152 C153 C154 C156 C160 C161 C162 C163 C166 C167 C168 C169 C170 C172 C174 C175 C178 C179 C180	35
59	#N/A	2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5 T	C117	1
60	E-C-0404-4423	2341122096	CAP,CHIP 125°C	CS 0603/COG/50V 22p J T	C119 C121 C145 C146	4

Item	ViewSonic P/N	Ref. P/N	Description		Location	Universal number#	Q'ty
61	#N/A	2336322613	CAP,MINI ELE 105°C	EC 22u/ 16V 4*7 P=2.5 T	C132 C144 C147 C150 C171 C181		6
62	E-0000999	2336347613	CAP,MINI ELE 105°C	EC 47u/ 16V 5*7 P=2.5 T	C155 C164 C165 C176 C177		5
63	#N/A	2300933401	CAP MTL MINI	X2 0.33u/275V P=15.0 K C	C801 C804		2
64	E-C-0404-1855	2287247212	CAP,CER	Y2 4700p/250V Y5V P=10.0 M K	C802 C803 C830 C831		4
65	#N/A	2357510708	EC HI-RIPPLE 105C 400V	EC 100u/400V 18*32 P=7.5 S	C805		1
66	E-C-0404-1853	2303210312	CAP,MTL	CF93M 0.010UF 250V K KC	C806		1
67	#N/A	2349110496	CAP,CHIP 125°C	CS 1206/X7R/50V 0.1u K T	C807 C826		2
68	E-C-0405-4328	2349110296	CAP,CHIP 125°C	CS 1206/X7R/50V 1000p K T	C808 C816 C832		3
69	E-C-0404-1838	2333610691	CAP,ELE 105°C	EC 10u/ 50V 5*11 P=5.0 T	C809		1
70	#N/A	2333647691	CAP,ELE 105°C	EC 47u/ 50V 8*11 P=5.0 T	C810 C915		2
71	#N/A	2335447791	CAP,ELE LOW ESR 105°C	EC 470u/ 25V 10*13 P=5.0 T	C811 C823 C906 C922		4
72	E-C-0404-5329	2349110396	CAP,CHIP 125°C	CS 1206/X7R/50V 0.01u K T	C812		1
73	E-C-0404-2262	2285110291	CAP,CER	CC 1000P/1KV Y5P P=5.0 K T	C820 C821		2
74	#N/A	2330005801	CAP,MINI ELE	EC 1500u/ 16V 10*20 P=5.0 C	C822		1
75	#N/A	2335210811	CAP,ELE LOW ESR 105°C	EC 1000u/ 10V 8*16 P=3.5 C	C824		1
76	#N/A	2347147396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.047u K T	C901 C911 C924		3
77	#N/A	2275410001	CAP CER	TC 10P/3KV SL P=7.5 J C	C902 C916		2
78	#N/A	2349133296	CAP,CHIP 125°C	CS 1206/X7R/50V 3300P K T	C903 C904 C926 C927		4
79	#N/A	2275450901	CAP,CER	TC 5P/3KV SL P=7.5 J C	C905 C918		2
80	#N/A	2347156296	CAP,CHIP 125°C	CS 0805/X7R/50V 5600p K T	C908 C919		2
81	#N/A	2342133196	CAP,CHIP 125°C	CS 0805/COG/50V 330p J T	C909 C913 C920		3
82	#N/A	2347110496	CAP,CHIP 125°C	CS 0805/X7R/50V 0.1u K T	C910 C917 C923 C925		4
83	#N/A	2342127096	CAP,CHIP 125°C	CS 0805/COG/50V 27p J T	C912		1
84	#N/A	2347110396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.01u K T	C914		1
85	E-D-0403-2041	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117	RB	10
86	E-D-0403-1892	2364200896	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117	RC	10
87	E-D-0403-1667	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 TEMIC GS08	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117 D905 D906 D907 D908 D910 D911 D914 D915	RA	18
88	E-D-0403-2808	2364505616	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2V~6V VISHAY	D105 D111 D112	RB	3
89	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D105 D111 D112	RA	3
90	#N/A	2364503696	DIODE,ZENER SMD	BZV55-C3V6 PHILIPS	D121 D122		2
91	#N/A	2363703891	LED	LED 3 GRN/YEL	D701		1
92	E-D-0403-2009	2363227295	DIODE,RECT	2A07 DO-15 1000V/2A TSC	D801 D802 D803 D804	RB	4
93	E-D-0403-1671	2363224295	DIODE,RECT	20KDA60 INTER	D801 D802 D803 D804	RC	4
94	E-D-0403-1531	2363221195	DIODE,RECT	PG208 PEC	D801 D802 D803 D804	RA	4
95	#N/A	2362900395	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 PEC	D805	RA	1
96	#N/A	2362900895	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 WILLAS	D805	RB	1
97	#N/A	2363223195	DIODE,RECT	UF4007 GS	D806	RA	1
98	#N/A	2363231995	DIODE,RECT	UF4007 PEC	D806	RB	1
99	E-D-0403-1005	2363226995	DIODE,RECT	UF4004 CHENMKO	D807	RA	1
100	E-D-0403-1465	2363220395	DIODE,RECT	UF4004G T/B PEC	D807	RB	1
101	#N/A	2364522096	DIODE,ZENER SMD	RLZ22B LL-34 ROHM	D808		1
102	#N/A	2364300896	DIODE,SCHOTTKY(SMD)	EP05Q04-TE8L 0.4A/40V NI	D809 D909 D916		3
103	E-D-0403-2037	2363300300	DIODE,SCHOTTKY	FCH20A15 150V/20A TO-220AB IR	D821	RA	1
104	#N/A	2363302200	DIODE,SCHOTTKY	SRF20120C ITO-220AB MOSPEC	D821	RB	1
105	#N/A	2363302300	DIODE,SCHOTTKY	SRF10100C ITO-220 MOSPEC	D822		1
106	E-D-0403-1666	2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5W ROHM	D901	RA	1
107	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D901	RB	1
108	#N/A	2364601096	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS	D902 D912	RA	2
109	#N/A	2364601196	DIODE,SWITCH SMD	BAV99 SOT-23 ZOWIE	D902 D912	RB	2
110	E-00001008	2362900695	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 PEC	D903 D904	RA	2
111	E-00001009	2362900795	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 WILLAS	D903 D904	RB	2
112	#N/A	2363600696	DIODE,SWITCH	RLS4148-T11 LL-34 ROHM	D905 D906 D907 D908 D910 D911 D914 D915	RB	8

Item	ViewSonic P/N	Ref. P/N	Description		Location	Universal number#	Q'ty
113	E-D-0403-0531	2363600195	DIODE,SWITCH	1N4148 DO-35 T	D913	RA	1
114	E-FS-0410-0009	2213125207	FUSE	FUSE 2.5A/250V 21502.5 LITTEL	F801	RA	1
115	E-FS-0410-0102	2213125211	FUSE	FUSE 2.5A/250V SG501302.5 PICO	F801	RB	1
116	E-IC-0401-4044	2365930896	IC,DIGITAL SMD	RTD2023 PQFP128 Realtek	I101		1
117	E-IC-0450-0041	2365929996	IC,DIGITAL SMD	MTV312M64-AJ PLCC44 MYSON	I104		1
118	E-IC-0401-2269	2365915896	IC,DIGITAL SMD	24LC16B/SN MICROCHIP SO08	I105	RA	1
119	#N/A	2365100996	IC,MEMORY	AT24C16AN-10SI-2.7 SOIC8 ATMEL	I105	RB	1
120	#N/A	2365812696	IC,LINEAR(SMD)	CM2860K1M223 SOT-223 CHAMPION	I106	RA	1
121	#N/A	2365813196	IC,LINEAR(SMD)	AME8805DEGT SOT-223 AME	I106	RB	1
122	E-IC-0401-2924	2365808196	IC,LINEAR(SMD)	API117E-3.3V SOT-223 ATC	I107	RA	1
123	#N/A	2365801496	IC,LINEAR(SMD)	RC1117ST-3.3 SOT223 FAIRCHILD	I107	RB	1
124	#N/A	2365808396	IC,LINEAR(SMD)	AIC1117-33CY AIC SOT-223	I107	RC	1
125	#N/A	2365809496	IC,LINEAR(SMD)	CM1117SCM-3.3V SOT223 CHAMPION	I107	RD	1
126	#N/A	2365330300	IC,LINEAR	SG6841D DIP-8 SG	I801		1
127	E-PC-0411-0083	2362401800	PHOTO COUPLR	TLP621(D4-GR-LF2) TOSHIBA	I802	RA	1
128	E-PC-0411-0082	2362401600	PHOTO COUPLR	TLP721F(D4-GR) TOSHIBA	I802	RB	1
129	#N/A	2365328191	IC,LINEAR	AP431VA TO-92 ATC	I803 I804	RA	2
130	E-IC-0401-2152	2365321991	IC,LINEAR	KA431AZTA TO-92 FAIRCHILD	I803 I804	RB	2
131	#N/A	2365330600	IC,LINEAR	OZ9RRBD PDIP-8 MICRO	I901		1
132	M-WR-0828-0478	2428106100	JUMPER	0.6 *10.0mm	J801 J802 J803 J804 J805 J901 J904 J905 J906 J907 J911 J912 J913		13
133	M-WR-0828-0450	2428106075	JUMPER	0.6 *7.5mm	J806 J807 J811 J812 J813 J814 J815 J902 J903 J908 J909 J910 J914 J916 L804		15
134	M-WR-0828-0460	2428106125	JUMPER	0.6 *12.5mm	J808 J917		2
135	M-WR-0828-0455	2428106050	JUMPER	0.6 *5.0mm	J915		1
136	#N/A	2434420400	AL SHIELDING TAPE	W40*L40 AL	K901		1
137	#N/A	2433304040	SHIELDING FOAM	10W*10H*40L UL94HF-1 SR<0.08	K902		1
138	#N/A	2434325603	SHIELDING TAPE	W25*L60*TO.06 (AL)	K903		1
139	E-R-0405-6600	2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J T	L101 L102 L103 R102 R105 R107 R111 R125 R143 R167 R197		11
140	#N/A	2379312196	BEAD,HI-IMPEDANCE	Z= 120ohm(100MHZ~) 0603 200mA	L104 L105		2
141	E-L-0407-1535	2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~) 0805 200mA	L106 L107 L108 L109 L110 L111 L112 L113		8
142	E-L-0407-0041	2379101595	FERRITE CORE	3.5X4.5X0.8	L801		1
143	E-L-0407-1606	2379103500	FERRITE CORE	0.5 3T 680 OHM MINAT 100MHZ	L802 L808		2
144	E-L-0407-1533	2371154600	COIL,CHOKE	JD176 5.2UH 15.5T(REF)	L803		1
145	#N/A	2371121301	COIL,CHOKE	ET-20 0.32mm*35Ts 21mH	L805		1
146	#N/A	2404301112	CONNECTOR	JST PH 13P SIDE P=2.0 OR EQUAL	P101		1
147	M-MS-0808-6355	2404301107	CONNECTOR	JST PH 8P SIDE P=2.0 OR EQUAL	P104		1
148	#N/A	2404371008	CONNECTOR	JST PH 9P TOP P=2.0 OR EQUAL	P105		1
149	#N/A	2407630430	SOCKET,SMD	30P*1.0mm	P106	RA	1
150	#N/A	2407630530	SOCKET,SMD	30P*1.0mm LEOCO	P106	RB	1
151	M-MS-0808-9359	2427408252	WIRE HARNESS	8P H/B 1061#26 L=250mm P=2.0	P701		1
152	M-MS-0808-9360	2427409121	WIRE HARNESS	9P H/B 1061#24 L=120mm P=2.0	P802		1
153	#N/A	2404380302	CONNECTOR	87210-0236 P=3.5mm ACE	P901 P902 P903 P904	RA	4
154	#N/A	2404380502	CONNECTOR	CP0502P1HT1 CAILUX	P901 P902 P903 P904	RB	4
155	A-PC-0106-0121	2427130046	POWER CORD	USA WALL 1.83M BLACK	P951		1
156	A-VIO-0118-0034	2427501174	I/O CABLE	D15/C13 20276(3+6) 1.83M BLK	P961		1
157	CB-00000801	2420316301	FFC CABLE	FFC 30P*1.0mm*L165mm	P980		1
158	#N/A	2105251400	SPRING PLATE	SPTE T=0.4MM (GROUND PLATE)	PG81 PG82 PG83 PG84		4
159	M-MS-0808-0854	2097400301	EYELET	BSS3-1/2H T=0.25 SN 3 μ m	PG85 PG86 PG87		3
160	E-Q-0402-1607	2360100796	XISTOR,PNP R SMD	MMBT3906 SOT-23 DIODES	Q101 Q102 Q103 Q107 Q108	RB	5
161	#N/A	2360100696	XISTOR,PNP R SMD	PMBS3906 SOT-23 PHILIPS	Q101 Q102 Q103 Q107 Q108	RA	5
162	#N/A	2360501396	FET,P-CH SMD	AP2305N SOT-23 APEC	Q104	RA	1
163	#N/A	2360501296	FET,P-CH SMD	AO3411 SOT-23 ALPHA	Q104	RB	1
164	E-Q-0402-1624	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT-23 PHILIPS	Q106	RA	1
165	E-Q-0402-1180	2360301296	XISTOR,NPN R SMD	MMBT3904 SOT-23 DIODES	Q106	RB	1
166	#N/A	2361610000	FET,N-CH	APO9N701-A TO-220CMF APEC	Q801	RA	1
167	#N/A	2361610200	FET,N-CH	2SK2645-54MR FUJI	Q801	RB	1
168	E-Q-0402-0839	2361111191	XISTOR,PNP R	2SA1020(Y) TO-92 TOSHIBA	Q802		1
169	E-Q-0402-0718	2361316191	XISTOR,NPN R	2PC945P PHILIPS	Q901 Q902	RA	2
170	E-Q-0402-0555	2361313691	XISTOR,NPN R	KSC945C-G FAIRCHILD	Q901 Q902	RB	2
171	E-Q-0402-0428	2361302591	XISTOR,NPN R	2SC945(J) TO-92 NEC	Q901 Q902	RC	2
172	E-Q-0402-7032	2361610800	FET,N-CH	AP9960J TO-251(T-TYPE) APEC	Q905 Q906 Q911 Q912		4

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
173	#N/A	2360608496	FET,N-CH(SMD)	2N7002K SOT-23 VISHAY	Q907 Q908 Q909 Q910	4
174	E-R-0405-6409	2253210196	RES,CHIP 1/10W	RC 0603 1/10W 100 ohm J T	R103 R106 R108 R110 R112 R114 R116 R120 R134 R135 R144 R145 R150 R151 R152 R153 R154 R155 R157 R172 R176 R177 R186	23
175	#N/A	2251275096	RES,CHIP 1/10	RC 0603 1/10W 75 ohm F T	R104 R109 R113	3
176	E-R-0405-6604	2253222296	RES,CHIP 1/10W	RC 0603 1/10W 2.2Kohm J T	R118 R119 R139 R140	4
177	E-R-0405-6411	2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J T	R121 R122 R171 R180	4
178	E-R-0405-6410	2253210296	RES,CHIP 1/10W	RC 0603 1/10W 1Kohm J T	R123 R124 R133 R161 R188 R192	6
179	E-R-0405-6601	2253210596	RES,CHIP 1/10W	RC 0603 1/10W 1Mohm J T	R127 R158	2
180	E-R-0405-6419	2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J T	R128 R129 R149 R157 R159 R163 R173	7
181	#N/A	2251290916	RES,CHIP 1/10	RC 0603 1/10W 9.09Kohm F T	R141	1
182	#N/A	2251233216	RES,CHIP 1/10	RC 0603 1/10W 3.32Kohm F T	R147	1
183	E-R-0405-7000	2253222196	RES,CHIP 1/10W	RC 0603 1/10W 220 ohm J T	R182	1
184	E-R-0405-6605	2253227296	RES,CHIP 1/10W	RC 0603 1/10W 2.7Kohm J T	R191	1
185	E-TH-0416-0042	2229201212	THERMISTOR,PTH	SCK-103 10+-20% 3A THINKING	R802	1
186	#N/A	2253447496	RES,CHIP 1/4	RC 1206 1/4 W 470Kohm J T	R803 R812 R833 R834 R835 R836	6
187	E-R-0405-7158	2253451496	RES,CHIP 1/4	RC 1206 1/4 W 510Kohm J T	R804 R805 R806	3
188	#N/A	2253410096	RES,CHIP 1/4	RC 1206 1/4 W 10ohm J T	R807	1
189	#N/A	2251433026	RES,CHIP 1/4	RC 1206 1/4 W 33Kohm F T	R808	1
190	#N/A	2253447096	RES,CHIP 1/4	RC 1206 1/4 W 47ohm J T	R809	1
191	#N/A	2235551816	RES,MTL 2	RS 2WS 0.51 ohm J P=7.0	R811	1
192	#N/A	2253447196	RES,CHIP 1/4	RC 1206 1/4 W 470ohm J T	R816	1
193	E-R-0405-7116	2253400096	RES,CHIP 1/4	RC 1206 1/4 W 0ohm J T	R817	1
194	#N/A	2233622095	RES,CBN 1/2WS	RD 1/2WS 22 ohm J T52	R820	1
195	#N/A	2233610095	RES,CBN 1/2WS	RD 1/2WS 10 ohm J T52	R821	1
196	E-R-0405-3235	2233410295	RES,CBN 1/4 S	RD 1/4WS 1Kohm J T52	R823	1
197	#N/A	2251424326	RES,CHIP 1/4	RC 1206 1/4 W 24.3Kohm F T	R824	1
198	#N/A	2251413726	RES,CHIP 1/4	RC 1206 1/4 W 13.7Kohm F T	R825	1
199	#N/A	2253456296	RES,CHIP 1/4	RC 1206 1/4 W 5.6Kohm J T	R826	1
200	#N/A	2235647013	RES,MTL 3	RS 3WS 47ohm J P=20.0	R827	1
201	E-R-0405-2983	2251382526	RES,CHIP 1/8	RC 0805 1/8W 82.5Kohm F T	R828 R926	2
202	E-00001010	2253410196	RES,CHIP 1/4	RC 1206 1/4 W 100ohm J T	R829	1
203	#N/A	2251320026	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm F T	R830	1
204	#N/A	2251411036	RES,CHIP 1/4	RC 1206 1/4 W 110Kohm F T	R831	1
205	#N/A	2253427196	RES,CHIP 1/4	RC 1206 1/4 W 270 ohm J T	R832	1
206	E-R-0405-3214	2233410395	RES,CBN 1/4 S	RD 1/4WS 10Kohm J T52	R901	1
207	#N/A	2253320396	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm J T	R902	1
208	#N/A	2251322016	RES,CHIP 1/8	RC 0805 1/8 W 2.2Kohm F T	R903	1
209	E-R-0405-5989	2253310096	RES,CHIP 1/8	RC 0805 1/8 W 10ohm J T	R904	1
210	#N/A	2242315595	HIGH VOLTAGE RESISTOR	RD 1/2W 1.50M J	R905 R925	2
211	E-R-0405-3443	2233447995	RES,CBN 1/4 S	RD 1/4WS 4.70 J T52 MINI	R906 R907 R911 R912	4
212	E-R-0405-5992	2253310196	RES,CHIP 1/8	RC 0805 1/8 W 100ohm J T	R908	1
213	#N/A	2251322016	RES,CHIP 1/8	RC 0805 1/8 W 2.2Kohm F T	R909	1
214	#N/A	2251368106	RES,CHIP 1/8	RC 0805 1/8 W 681 ohm F T	R914 R932	2
215	E-R-0405-2725	2233410095	RES,CBN 1/4 S	RD 1/4WS 10 ohm J T52	R915 R916 R917 R933 R935	5
216	#N/A	2253310596	RES,CHIP 1/8	RC 0805 1/8 W 1Mohm J T	R918 R924 R934	3
217	#N/A	2251382506	RES,CHIP 1/8	RC 0805 1/8 W 825 ohm F T	R919 R920 R936 R937	4
218	#N/A	2253351296	RES,CHIP 1/8	RC 0805 1/8 W 5.1Kohm J T	R921 R930	2
219	#N/A	2253451596	RES,CHIP 1/4	RC 1206 1/4 W 5.1Mohm J T	R922	1
220	E-R-0405-5992	2253310496	RES,CHIP 1/8	RC 0805 1/8 W 100Kohm J T	R923	1
221	#N/A	2251322016	RES,CHIP 1/8	RC 0805 1/8 W 2.2Kohm F T	R927	1
222	#N/A	2251351126	RES,CHIP 1/8	RC 0805 1/8 W 51.1Kohm F T	R929	1
223	#N/A	2259210308	RES,CHIP NETWORKS	8P4R 1/16W 10Kohm J P=0.8	RN1 RN2 RN4	3
224	M-SW-0815-0182	2403702200	SWITCH,PU-TC	TSAA-2 HUAJIE	S701 S702 S703 S704 S705	5
225	#N/A	2407413100	SOCKET (AC INLET)	0711-2-P10-9 INALWAYS	S801	RA
226	#N/A	2407413300	SOCKET (AC INLET)	SC-8R-F15A9 SUPERCOM	S801	RB
227	#N/A	2407200991	HOLDER,FUSE	CQ-05T (5mm DIA FUSE) CONQUER	S802 S803	RA
228	M-MS-0808-1313	2407200791	HOLDER,FUSE	FC-05C	S802 S803	RB
229	#N/A	2374228006	XFORMER,POWR	ER-28 840uH 0.36mm/23Ts	T801	1

Item	ViewSonic P/N	Ref. P/N	Description		Location	Universal number#	Qty
230	#N/A	2374300800	XFORMER INVERTER	EEL-19 18/2000Ts 0.1*20/0.06mm	T901 T902		2
231	#N/A	2202518500	PCB MULTILAYER	17" LVDS M/B FR4*2 100*80	U101		1
232	#N/A	2202127900	PC BOARD	VA721 KEY/B FR1 120*21 V1.00	U701		1
233	#N/A	2202130100	PC BOARD	VA721 P/B CEM1 160*130 V1.00	U801		1
234	E-00000800	2212004602	LCD PANEL	M170E5-L05 V2.0 CMO	V901		1
235	E-X-0415-0119	2369103601	XTAL,OSC	12.000MHZ/49US 30pF/1mW	X101		1
236	E-X-0415-0112	2369103901	XTAL,OSC	24.576MHZ/49US	X102		1
237	M-MS-0808-9214	2051352100	NAME PLATE	VIEWSONIC E015-006 3-BIRD LOGO	1F04		1
238	PL-FK-0709-0152	2044266301	FUNCTION KEY	VE710 ABS94HB AL-PLATE	1F03		1
239	#N/A	2053650500	LED INDIC.-FUNC	VE710 PMMA94HB	1F02		1
240	C-FP-0301-0977	2024266902	FRONT BEZEL	VE710B ABS94HB PANTONE432C	1F01		1

BOM LIST (VE710s-2)

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Rev: 1b

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	C-FP-0301-0979	2024266901	FRONT BEZEL	VE710 ABS94HB PS7604B	1F01	1
2	#N/A	2053650500	LED INDIC.-FUNC	VE710 PMMA94HB	1F02	1
3	PL-FK-0709-0152	2044266301	FUNCTION KEY	VE710 ABS94HB AL-PLATE	1F03	1
4	M-MS-0808-9214	2051352100	NAME PLATE	VIEWSONIC E015-006 3-BIRD LOGO	1F04	1
5	M-MS-0808-9213	2051352000	NAME PLATE	VIEWSONIC LOGO 3 PIN VA521	1F05	1
6	C-BC-0302-0587	2022262301	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1
7	M-MS-0808-9215	2051352200	NAME PLATE	VIEWSONIC E015-017	2C02	1
8	M-SCW-0824-0848	2083740082	SCREW.BND T+	M4*8(BND T+)	2C03	1
9	M-BK-0805-0070	2071869400	BRACKET, FIX	METAL PLATE 1.0MM KENSINGTON	2C04	1
10	M-SCW-0824-0812	2084730062	SCREW.BND T+	M3X6(BND T+)	2C05	1
11	PL-PS-0715-0990	2028258201	STAND	VE710 ABS94HB BLACK 4001	5B01	1
12	M-BK-0805-0071	2071970400	METAL FITTG	VE710 STAND SECC T=1.5	5B02	1
13	PL-PD-0714-0113	2039819301	FOOT PAD	RUBBER O20*2TMM SQUARE GRAIN	5B03	1
14	M-SCW-0824-6716	2080002400	SCREW.SPE	VE155/3x8 STAND	5B04	1
15	M-SCW-0824-0849	2080004700	SCREW.SPE	M3*4 SPECIAL THIN HEAD TYPE I	5B05	1
16	PL-00000325	2039802601	FOOT PAD	JC186H 20X1.6mm Rubber blac	5B06	1
17	M-LB-0813-0769	2055613293	LABEL	VIEWSONIC OPEN STAND LABEL-LCD	5B10	1
18	M-BK-0805-0072	2071970200	METAL FITTG	VE710 PANEL SECC 0.8	5F01	1
19	M-MS-0808-9354	2106656500	HINGE	VE710 -5~ +20'	5F02	RA 1
20	M-MS-0808-9355	2106656501	HINGE	VE710 -5~+20' FOR TL	5F02	RB 1
21	M-BK-0805-0073	2071970300	METAL FITTG	VE710 COVER SPT T=0.3	5F03	1
22	M-SCW-0824-6715	2080002200	SCREW.SPE	L355 M3x6 DH NICKEL-PLATED	5F04	1
23	M-SCW-0824-0811	2080003700	SCREW.SPE	1SZZTER001A M3*6L MSWR17/FZMY1	5F05 5F06	2
24	#N/A	2072457800	INSULATOR	VE710 24*31*0.45 T4000	5F07	1
25	#N/A	2072457900	INSULATOR	VE710 12*135*0.45 T4000	5F08	1
26	M-SCW-0824-6717	2081430062	SCREW.(WASH)	M3X6 P=0.5(TOOTH WASHER)	5F09	1
27	M-SCW-0824-6719	2082630062	SCREW	M3X6 P=0.5	5F10	1
28	M-SCW-0824-0851	2082340072	SCREW.CSK+	SCREW CSK+ M4*7	5F11	1
29	M-BK-0805-0074	2071970800	METAL FITTG	VE710 COVER SPT T=0.3	5F12	1
30	#N/A	2072458300	INSULATOR	12*10*1.1 94V0 ADHESIVE	5F13	1
31	#N/A	2080004800	SCREW.SPE	M3.5*13 PMS/SW YLOK	6B01	1
32	M-CV-0830-0300	2027258601	DUST COVER	VE710 ABS94HB AL-PLATE(R) R	6B02	1
33	M-MS-0808-9408	2061453400	BUSHING	VE710 PLUG RUBBER	6B03	1
34	#N/A	2027258602	DUST COVER	VE710 ABS94HB AL-PLATE(L)	6B04	1
35	P-BX-0601-0962	2011132007	CARTON BOX	VE710S-2 VS10047 20041014	6P01	1
36	#N/A	2055632072	LABEL	VE710S-2 VS10047(M) CMO	6P02	1
37	M-LB-0813-0855	2055613281	LABEL	VIEWSONIC VA520 NUMBER STICKER	6P03	1
38	M-LB-0813-0972	2055636020	LABEL	VE710S-2 VS10047 SMALL	6P05	1
39	M-LB-0813-0856	2055613379	LABEL	ViewSonic CONTAINER LABEL	6P11	1
40	M-LB-0813-0530	2055617101	LABEL	10*20 HI-POT TESTED OK	6P13	1
41	M-LB-0813-0959	2055613392	LABEL	VSC HIGH VOLTAGE WARNING LABEL	6P14	1
42	P-FM-0602-0866	2012176400	POLYFOAM	VE710 EPS (L)	6P20	1
43	P-FM-0602-0867	2012176500	POLYFOAM	VE710 EPS (R)	6P21	1
44	#N/A	2055132201	LABEL	VE710S-2 VS10047 CMO 041014	6P50	1
45	M-LB-0813-0002	2056603050	SERIAL LABEL	VIEWSONIC LCD SERIAL LABEL	6P51 6P54 6P55 6P56	4
46	M-LB-0813-0528	2055103400	LABEL	JK0936F WEN	6P52	1
47	M-MS-0808-1317	2013053000	POLYETHY BAG	90CMX75CMX0.02t PE-LD	6P60	1
48	#N/A	2438501165	CD-OWNER GUIDE	VE710S-2 WIZARD VS10047 CMO	6P80	1
49	#N/A	2002310425	GUARANT CARD	VIEWSONIC VE710S-2 QSG 041014	6P84	1
50	M-MS-0808-1316	2013222536	POLYETHY BAG	250mmx350mmx0.3 ADD>PE-LD<	6P85	1
51	#N/A	2072250103	HEAT SINK	JC186H AL6063S-T5 AUDIO	9H02	1
52	#N/A	2072261200	HEAT SINK	JT178WP69/45W*15L*23H	9H03	1
53	#N/A	2429350300	TUBING,H-SRK	12*20MM FOR ADAPTOR	9R81 9R82 9R83 9R84	4
54	M-SCW-0824-0285	2084730082	SCREW.BND T+	M3X8(BND T+)	9S02 9S03	2
55	#N/A	2346147396	CAP.CHIP 125°C	CS 0603/X7R/50V 0.047u K T	C102 C103 C104 C106 C107 C109	RA 6
56	#N/A	2346247396	CAP.CHIP 125°C	CS 0603/X7R/25V 0.047u K T	C102 C103 C104 C106 C107 C109	RB 6
57	E-C-0404-4224	2341147096	CAP.CHIP 125°C	CS 0603/COG/50V 47p J T	C111 C113 C114 C115	4
58	E-C-0404-3815	2346410496	CAP.CHIP 85°C	CS 0603/Y5V/50V 0.1u Z T	C116 C122 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142 C143 C148 C149 C151 C152 C153 C154 C156 C160 C161 C162 C163 C166 C167 C168 C169 C170 C172 C174 C175 C178 C179 C180	35
59	#N/A	2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5 T	C117	1
60	E-C-0404-4423	2341122096	CAP.CHIP 125°C	CS 0603/COG/50V 22p J T	C119 C121 C145 C146	4
61	#N/A	2336322613	CAP,MINI ELE 105°C	EC 22u/ 16V 4*7 P=2.5 T	C132 C144 C147 C159 C171 C181	6

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty	
62	E-00000999	2336347613	CAP,MINI ELE 105°C	EC 47u/ 16V 5*7 P=2.5 T	C155 C164 C165 C176 C177	5	
63	#N/A	2300933401	CAP MTL MINI	X2 0.33u/275V P=15.0 K C	C801 C804	2	
64	E-C-0404-1855	2287247212	CAP,CER	Y2 4700p/250V Y5V P=10.0 M K	C802 C803 C830 C831	4	
65	#N/A	2357510708	EC HI-RIPPLE 105C 400V	EC 100u/400V 18*32 P=7.5 S	C805	1	
66	E-C-0404-1853	2303210312	CAP,MTL	CF93M 0.010UF 250V K KC	C806	1	
67	#N/A	2349110496	CAP,CHIP 125°C	CS 1206/X7R/50V 0.1u K T	C807 C826	2	
68	E-C-0405-4328	2349110296	CAP,CHIP 125°C	CS 1206/X7R/50V 1000p K T	C808 C816 C832	3	
69	E-C-0404-1838	2333610691	CAP,ELE 105°C	EC 10u/ 50V 5*11 P=5.0 T	C809	1	
70	#N/A	2333647691	CAP,ELE 105°C	EC 47u/ 50V 8*11 P=5.0 T	C810 C915	2	
71	#N/A	2335447791	CAP,ELE LOW ESR 105°C	EC 470u/ 25V 10*13 P=5.0 T	C811 C823 C906 C922	4	
72	E-C-0404-5329	2349110396	CAP,CHIP 125°C	CS 1206/X7R/50V 0.01u K T	C812	1	
73	E-C-0404-2262	2285110291	CAP,CER	CC 1000P/1KV Y5P P=5.0 K T	C820 C821	2	
74	#N/A	2330005801	CAP,MINI ELE	EC 1500u/ 16V 10*20 P=5.0 C	C822	1	
75	#N/A	2335210811	CAP,ELE LOW ESR 105°C	EC 1000u/ 10V 8*16 P=3.5 C	C824	1	
76	#N/A	2347147396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.047u K T	C901 C911 C924	3	
77	#N/A	2275410001	CAP CER	TC 10P/3KV SL P=7.5 J C	C902 C916	2	
78	#N/A	2349133296	CAP,CHIP 125°C	CS 1206/X7R/50V 3300P K T	C903 C904 C926 C927	4	
79	#N/A	2275450901	CAP,CER	TC 5P/3KV SL P=7.5 J C	C905 C918	2	
80	#N/A	2347156296	CAP,CHIP 125°C	CS 0805/X7R/50V 5600p K T	C908 C919	2	
81	#N/A	2342133196	CAP,CHIP 125°C	CS 0805/COG/50V 330p J T	C909 C913 C920	3	
82	#N/A	2347110496	CAP,CHIP 125°C	CS 0805/X7R/50V 0.1u K T	C910 C917 C923 C925	4	
83	#N/A	2342127096	CAP,CHIP 125°C	CS 0805/COG/50V 27p J T	C912	1	
84	#N/A	2347110396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.01u K T	C914	1	
85	E-D-0403-1892	2364200896	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117	RC	10
86	E-D-0403-2041	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117	RB	10
87	E-D-0403-1667	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 TEMIC GS08	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117 D905 D906 D907 D908 D910 D911 D914 D915	RA	18
88	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D105 D111 D112	RA	3
89	E-D-0403-2808	2364505616	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2V~6V VISHAY	D105 D111 D112	RB	3
90	#N/A	2364503696	DIODE,ZENER SMD	BZV55-C3V6 PHILIPS	D121 D122		2
91	#N/A	2363703891	LED	LED 3 GRN/YEL	D701		1
92	E-D-0403-1531	2363221195	DIODE,RECT	PG208 PEC	D801 D802 D803 D804	RA	4
93	E-D-0403-1671	2363224295	DIODE,RECT	20KDA60 INTER	D801 D802 D803 D804	RC	4
94	E-D-0403-2009	2363227295	DIODE,RECT	2A07 DO-15 1000V/2A TSC	D801 D802 D803 D804	RB	4
95	#N/A	2362900395	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 PEC	D805	RA	1
96	#N/A	2362900895	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 WILLAS	D805	RB	1
97	#N/A	2363223195	DIODE,RECT	UF4007 GS	D806	RA	1
98	#N/A	2363231995	DIODE,RECT	UF4007 PEC	D806	RB	1
99	E-D-0403-1465	2363220395	DIODE,RECT	UF4004G T/B PEC	D807	RB	1
100	E-D-0403-1005	2363226995	DIODE,RECT	UF4004 CHENMKO	D807	RA	1
101	#N/A	2364522096	DIODE,ZENER SMD	RLZ22B LL-34 ROHM	D808		1
102	#N/A	2364300896	DIODE,SCHOTTKY(SMD)	EP05Q04-TE8L 0.4A/40V NI	D809 D909 D916		3
103	E-D-0403-2037	2363300300	DIODE,SCHOTTKY	FCH20A15 150V/20A TO-220AB IR	D821	RA	1
104	#N/A	2363302200	DIODE,SCHOTTKY	SRF20120C ITO-220AB MOSPEC	D821	RB	1
105	#N/A	2363302300	DIODE,SCHOTTKY	SRF10100C ITO-220 MOSPEC	D822		1
106	E-D-0403-1666	2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5W ROHM	D901	RA	1
107	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D901	RB	1
108	#N/A	2364601096	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS	D902 D912	RA	2
109	#N/A	2364601196	DIODE,SWITCH SMD	BAV99 SOT-23 ZOWIE	D902 D912	RB	2
110	E-00001008	2362900695	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 PEC	D903 D904	RA	2
111	E-00001009	2362900795	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 WILLAS	D903 D904	RB	2
112	#N/A	2363600696	DIODE,SWITCH	RLS4148-T11 LL-34 ROHM	D905 D906 D907 D908 D910 D911 D914 D915	RB	8
113	E-D-0403-0531	2363600195	DIODE,SWITCH	IN4148 DO-35 T	D913	RA	1
114	E-FS-0410-0009	2213125207	FUSE	FUSE 2.5A/250V 21502.5 LITTEL	F801	RA	1
115	E-FS-0410-0102	2213125211	FUSE	FUSE 2.5A/250V SG501302.5 PICO	F801	RB	1
116	E-IC-0401-4044	2365930896	IC,DIGITAL SMD	RTD2023 PQFP128 Realtek	I101		1
117	E-IC-0450-0041	2365929996	IC,DIGITAL SMD	MTV312M64-AJ PLCC44 MYSON	I104		1
118	#N/A	2365100996	IC,MEMORY	AT24C16AN-10SI-2.7 SOIC8 ATMEL	I105	RB	1
119	E-IC-0401-2269	2365915896	IC,DIGITAL SMD	24LC16B/SN MICROCHIP SO8	I105	RA	1
120	#N/A	2365812696	IC,LINEAR(SMD)	CM2860K1M223 SOT-223 CHAMPION	I106	RA	1
121	#N/A	2365813196	IC,LINEAR(SMD)	AME8805DEGT SOT-223 AME	I106	RB	1
122	#N/A	2365801496	IC,LINEAR(SMD)	RC1117ST-3.3 SOT223 FAIRCHILD	I107	RB	1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty	
123	E-IC-0401-2924	2365808196	IC,LINEAR(SMD)	API117E-3.3V SOT-223 ATC	I107	RA	1
124	#N/A	2365808396	IC,LINEAR(SMD)	AIC1117-33CY AIC SOT-223	I107	RC	1
125	#N/A	2365809496	IC,LINEAR(SMD)	CM1117SCM-3.3V SOT223 CHAMPION	I107	RD	1
126	#N/A	2365330300	IC,LINEAR	SG6841D DIP-8 SG	I801		1
127	E-PC-0411-0082	2362401600	PHOTO COUPLR	TLP721F(D4-GR) TOSHIBA	I802	RB	1
128	E-PC-0411-0083	2362401800	PHOTO COUPLR	TLP621(D4-GR-LF2) TOSHIBA	I802	RA	1
129	E-IC-0401-2152	2365321991	IC,LINEAR	KA431AZTA TO-92 FAIRCHILD	I803 I804	RB	2
130	#N/A	2365328191	IC,LINEAR	AP431VA TO-92 ATC	I803 I804	RA	2
131	#N/A	2365330600	IC,LINEAR	OZ9RRBD PDIP-8 MICRO	I901		1
132	M-WR-0828-0478	2428106100	JUMPER	0.6 *10.0mm	J801 J802 J803 J804 J805 J901 J904 J905 J906 J907 J911 J912 J913		13
133	M-WR-0828-0450	2428106075	JUMPER	0.6 * *7.5mm	J806 J807 J811 J812 J813 J814 J815 J902 J903 J908 J909 J910 J914 J916 L804		15
134	M-WR-0828-0460	2428106125	JUMPER	0.6 *12.5mm	J808 J917		2
135	M-WR-0828-0455	2428106050	JUMPER	0.6 *5.0mm	J915		1
136	#N/A	2434420400	AL SHIELDING TAPE	W40*L40 AL	K901		1
137	#N/A	2433304040	SHIELDING FOAM	10W*10H*40L UL94HF-1 SR<0.08	K902		1
138	#N/A	2434325603	SHIELDING TAPE	W25*L60*T0.06 (AL)	K903		1
139	E-R-0405-6600	2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J T	L101 L102 L103 R102 R105 R107 R111 R125 R143 R167 R197		11
140	#N/A	2379312196	BEAD,HI-IMPEDANCE	Z= 120ohm(100MHZ~) 0603 200mA	L104 L105		2
141	E-L-0407-1535	2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~) 0805 200mA	L106 L107 L108 L109 L110 L111 L112 L113		8
142	E-L-0407-0041	2379101595	FERRITE CORE	3.5X4.5X0.8	L801		1
143	E-L-0407-1606	2379103500	FERRITE CORE	0.5 3T 680 OHM MINAT 100MHZ	L802 L808		2
144	E-L-0407-1533	2371154600	COIL,CHOKE	JD176 5.2UH 15.5T(REF)	L803		1
145	#N/A	2371121301	COIL,CHOKE	ET-20 0.32mm*35Ts 21mH	L805		1
146	#N/A	2404301112	CONNECTOR	JST PH 13P SIDE P=2.0 OR EQUAL	P101		1
147	M-MS-0808-6355	2404301107	CONNECTOR	JST PH 8P SIDE P=2.0 OR EQUAL	P104		1
148	#N/A	2404371008	CONNECTOR	JST PH 9P TOP P=2.0 OR EQUAL	P105		1
149	#N/A	2407630430	SOCKET,SMD	30P*1.0mm	P106	RA	1
150	#N/A	2407630530	SOCKET,SMD	30P*1.0mm LEOCO	P106	RB	1
151	M-MS-0808-9359	2427408252	WIRE HARNESS	8P H/B 1061#26 L=250mm P=2.0	P701		1
152	M-MS-0808-9360	2427409121	WIRE HARNESS	9P H/B 1061#24 L=120mm P=2.0	P802		1
153	#N/A	2404380302	CONNECTOR	87210-0236 P=3.5mm ACE	P901 P902 P903 P904	RA	4
154	#N/A	2404380502	CONNECTOR	CP0502PIHT1 CAILUX	P901 P902 P903 P904	RB	4
155	A-PC-0106-0121	2427130046	POWER CORD	USA WALL 1.83M BLACK	P951		1
156	A-VIO-0118-0034	2427501174	I/O CABLE	D15/C13 20276(3+6) 1.83M BLK	P961		1
157	CB-00000801	2420316301	FFC CABLE	FFC 30P*1.0mm*L165mm	P980		1
158	#N/A	2105251400	SPRING PLATE	SPTE T=0.4MM (GROUND PLATE)	PG81 PG82 PG83 PG84		4
159	M-MS-0808-0854	2097400301	EYELET	BSS3-1/2H T=0.25 SN 3 μm	PG85 PG86 PG87		3
160	#N/A	2360100696	XISTOR,PNP R SMD	PMBS3906 SOT-23 PHILIPS	Q101 Q102 Q103 Q107 Q108	RA	5
161	E-Q-0402-1607	2360100796	XISTOR,PNP R SMD	MMBT3906 SOT-23 DIODES	Q101 Q102 Q103 Q107 Q108	RB	5
162	#N/A	2360501296	FET,P-CH SMD	AO3411 SOT-23 ALPHA	Q104	RB	1
163	#N/A	2360501396	FET,P-CH SMD	AP2305N SOT-23 APEC	Q104	RA	1
164	E-Q-0402-1180	2360301296	XISTOR,NPN R SMD	MMBT3904 SOT-23 DIODES	Q106	RB	1
165	E-Q-0402-1624	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT-23 PHILIPS	Q106	RA	1
166	#N/A	2361610000	FET,N-CH	APO9N701-A TO-220CMF APEC	Q801	RA	1
167	#N/A	2361610200	FET,N-CH	2SK2645-54MR FUJI	Q801	RB	1
168	E-Q-0402-0839	2361111191	XISTOR,PNP R	2SA1020(Y) TO-92 TOSHIBA	Q802		1
169	E-Q-0402-0428	2361302591	XISTOR,NPN R	2SC945(P) TO-92 NEC	Q901 Q902	RC	2
170	E-Q-0402-0555	2361313691	XISTOR,NPN R	KSC945C-G FAIRCHILD	Q901 Q902	RB	2
171	E-Q-0402-0718	2361316191	XISTOR,NPN R	2PC945P PHILIPS	Q901 Q902	RA	2
172	E-Q-0402-7032	2361610800	FET,N-CH	AP9960J TO-251(T-TYPE) APEC	Q905 Q906 Q911 Q912		4
173	#N/A	2360608496	FET,N-CH(SMD)	2N7002K SOT-23 VISHAY	Q907 Q908 Q909 Q910		4
174	E-R-0405-6409	2253210196	RES,CHIP 1/10W	RC 0603 1/10W 100 ohm J T	R103 R106 R108 R110 R112 R114 R116 R120 R134 R135 R144 R145 R150 R151 R152 R153 R154 IR55 R156 R172 R176 R177 R186		23
175	#N/A	2251275096	RES,CHIP 1/10	RC 0603 1/10W 75 ohm F T	R104 R109 R113		3
176	E-R-0405-6604	2253222296	RES,CHIP 1/10W	RC 0603 1/10W 2.2Kohm J T	R118 R119 R139 R140		4

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
177	E-R-0405-6411	2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J T	R121 R122 R171 R180	4
178	E-R-0405-6410	2253210296	RES,CHIP 1/10W	RC 0603 1/10W 1Kohm J T	R123 R124 R133 R161 R188 R192	6
179	E-R-0405-6601	2253210596	RES,CHIP 1/10W	RC 0603 1/10W 1Mohm J T	R127 R158	2
180	E-R-0405-6419	2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J T	R128 R129 R149 R157 R159 R163 R173	7
181	#N/A	2251290916	RES,CHIP 1/10	RC 0603 1/10W 9.09Kohm F T	R141	1
182	#N/A	2251233216	RES,CHIP 1/10	RC 0603 1/10W 3.32Kohm F T	R147	1
183	E-R-0405-7000	2253222196	RES,CHIP 1/10W	RC 0603 1/10W 220 ohm J T	R182	1
184	E-R-0405-6605	2253227296	RES,CHIP 1/10W	RC 0603 1/10W 2.7Kohm J T	R191	1
185	E-TH-0416-0042	2229201212	THERMISTOR,PTH	SCK-103 10+-20% 3A THINKING	R802	1
186	#N/A	2253447496	RES,CHIP 1/4	RC 1206 1/4 W 470Kohm J T	R803 R812 R833 R834 R835 R836	7
187	E-R-0405-7158	2253451496	RES,CHIP 1/4	RC 1206 1/4 W 510Kohm J T	R804 R805 R806	3
188	#N/A	2253410096	RES,CHIP 1/4	RC 1206 1/4 W 10ohm J T	R807	1
189	#N/A	2251433026	RES,CHIP 1/4	RC 1206 1/4 W 33Kohm F T	R808	1
190	#N/A	2253447096	RES,CHIP 1/4	RC 1206 1/4 W 47ohm J T	R809	1
191	#N/A	2235551816	RES,MTL 2	RS 2WS 0.51 ohm J P=7.0	R811	1
192	#N/A	2253447196	RES,CHIP 1/4	RC 1206 1/4 W 470ohm J T	R816	1
193	E-R-0405-7116	2253400096	RES,CHIP 1/4	RC 1206 1/4 W 0ohm J T	R817	1
194	#N/A	2233622095	RES,CBN 1/2WS	RD 1/2WS 22 ohm J T52	R820	1
195	#N/A	2233610095	RES,CBN 1/2WS	RD 1/2WS 10 ohm J T52	R821	1
196	E-R-0405-3235	2233410295	RES,CBN 1/4 S	RD 1/4WS 1Kohm J T52	R823	1
197	#N/A	2251424326	RES,CHIP 1/4	RC 1206 1/4 W 24.3Kohm F T	R824	1
198	#N/A	2251413726	RES,CHIP 1/4	RC 1206 1/4 W 13.7Kohm F T	R825	1
199	#N/A	2253456296	RES,CHIP 1/4	RC 1206 1/4 W 5.6Kohm J T	R826	1
200	#N/A	2235647013	RES,MTL 3	RS 3WS 47ohm J P=20.0	R827	1
201	E-R-0405-2983	2251382526	RES,CHIP 1/8	RC 0805 1/8W 82.5Kohm F T	R828 R926	2
202	E-00001010	2253410196	RES,CHIP 1/4	RC 1206 1/4 W 100ohm J T	R829	1
203	#N/A	2251320026	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm F T	R830	1
204	#N/A	2251411036	RES,CHIP 1/4	RC 1206 1/4 W 110Kohm F T	R831	1
205	#N/A	2253427196	RES,CHIP 1/4	RC 1206 1/4 W 270 ohm J T	R832	1
206	E-R-0405-3214	2233410395	RES,CBN 1/4 S	RD 1/4WS 10Kohm J T52	R901	1
207	#N/A	2253320396	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm J T	R902	1
208	#N/A	2251322016	RES,CHIP 1/8	RC 0805 1/8 W 2.2Kohm F T	R903 R909 R927	3
209	E-R-0405-5989	2253310096	RES,CHIP 1/8	RC 0805 1/8 W 10ohm J T	R904	1
210	#N/A	2242315595	HIGH VOLTAGE RESISTOR	RD 1/2W 1.50M J	R905 R925	2
211	E-R-0405-3443	2233447995	RES,CBN 1/4 S	RD 1/4WS 4.70 J T52 MINI	R906 R907 R911 R912	4
212	E-R-0405-5992	2253310196	RES,CHIP 1/8	RC 0805 1/8 W 100ohm J T	R908	1
213	#N/A	2251368106	RES,CHIP 1/8	RC 0805 1/8 W 681 ohm F T	R914	1
214	E-R-0405-2725	2233410095	RES,CBN 1/4 S	RD 1/4WS 10 ohm J T52	R915 R916 R917 R933 R935	13
215	#N/A	2253310596	RES,CHIP 1/8	RC 0805 1/8 W 1Mohm J T	R918 R924 R934	6
216	#N/A	2251382506	RES,CHIP 1/8	RC 0805 1/8 W 825 ohm F T	R919 R920 R936 R937	4
217	#N/A	2253351296	RES,CHIP 1/8	RC 0805 1/8 W 5.1Kohm J T	R921 R930	3
218	#N/A	2253451596	RES,CHIP 1/4	RC 1206 1/4 W 5.1Mohm J T	R922	3
219	E-R-0405-5992	2253310496	RES,CHIP 1/8	RC 0805 1/8 W 100Kohm J T	R923	4
220	#N/A	2251351126	RES,CHIP 1/8	RC 0805 1/8 W 51.1Kohm F T	R929	1
221	#N/A	2251368106	RES,CHIP 1/8	RC 0805 1/8 W 681 ohm F T	R932	1
222	#N/A	2259210308	RES,CHIP NETWORKS	8P4R 1/16W 10Kohm J P=0.8	RN1 RN2 RN4	7
223	M-SW-0815-0182	2403702200	SWITCH,PU-TC	TSAA-2 HUAJIE	S701 S702 S703 S704 S705	10
224	#N/A	2407413100	SOCKET (AC INLET)	0711-2-P10-9 INALWAYS	S801	RA
225	#N/A	2407413300	SOCKET (AC INLET)	SC-8R-F15A9 SUPERCOM	S801	RB
226	M-MS-0808-1313	2407200791	HOLDER,FUSE	FC-05C	S802 S803	RB
227	#N/A	2407200991	HOLDER,FUSE	CQ-05T (5mm DIA FUSE) CONQUER	S802 S803	RA
228	#N/A	2374228006	XFORMER,POWR	ER-28 840uH 0.36mm/23Ts	T801	1
229	#N/A	2374300800	XFORMER INVERTER	EEL-19 18/2000Ts 0.1*20/0.06mm	T901 T902	2
230	#N/A	2202518500	PCB MULTILAYER	17" LVDS M/B FR4*2 100*80	U101	1/36
231	#N/A	2202127900	PC BOARD	VA721 KEY/B FR1 120*21 V1.00	U701	1
232	#N/A	2202130100	PC BOARD	VA721 P/B CEM1 160*130 V1.00	U801	1
233	E-00000800	2212004602	LCD PANEL	M170E5-L05 V2.0 CMO	V901	1
234	E-X-0415-0119	2369103601	XTAL,OSC	12.000MHZ/49US 30pF/1mW	X101	1
235	E-X-0415-0112	2369103901	XTAL,OSC	24.576MHZ/49US	X102	1
236	C-BC-0302-0587	2022262301	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1
237	M-MS-0808-9213	2051352000	NAME PLATE	VIEWSONIC LOGO 3 PIN VA521	1F05	1
238	M-MS-0808-9214	2051352100	NAME PLATE	VIEWSONIC E015-006 3-BIRD LOGO	1F04	1
239	PL-FK-0709-0152	2044266301	FUNCTION KEY	VE710 ABS94HB AL-PLATE	1F03	1
240	#N/A	2053650500	LED INDIC.-FUNC	VE710 PMMA94HB	1F02	1
241	C-FP-0301-0979	2024266901	FRONT BEZEL	VE710 ABS94HB PS7604B	1F01	1

BOM LIST (VA721-1)

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Rev: 1b

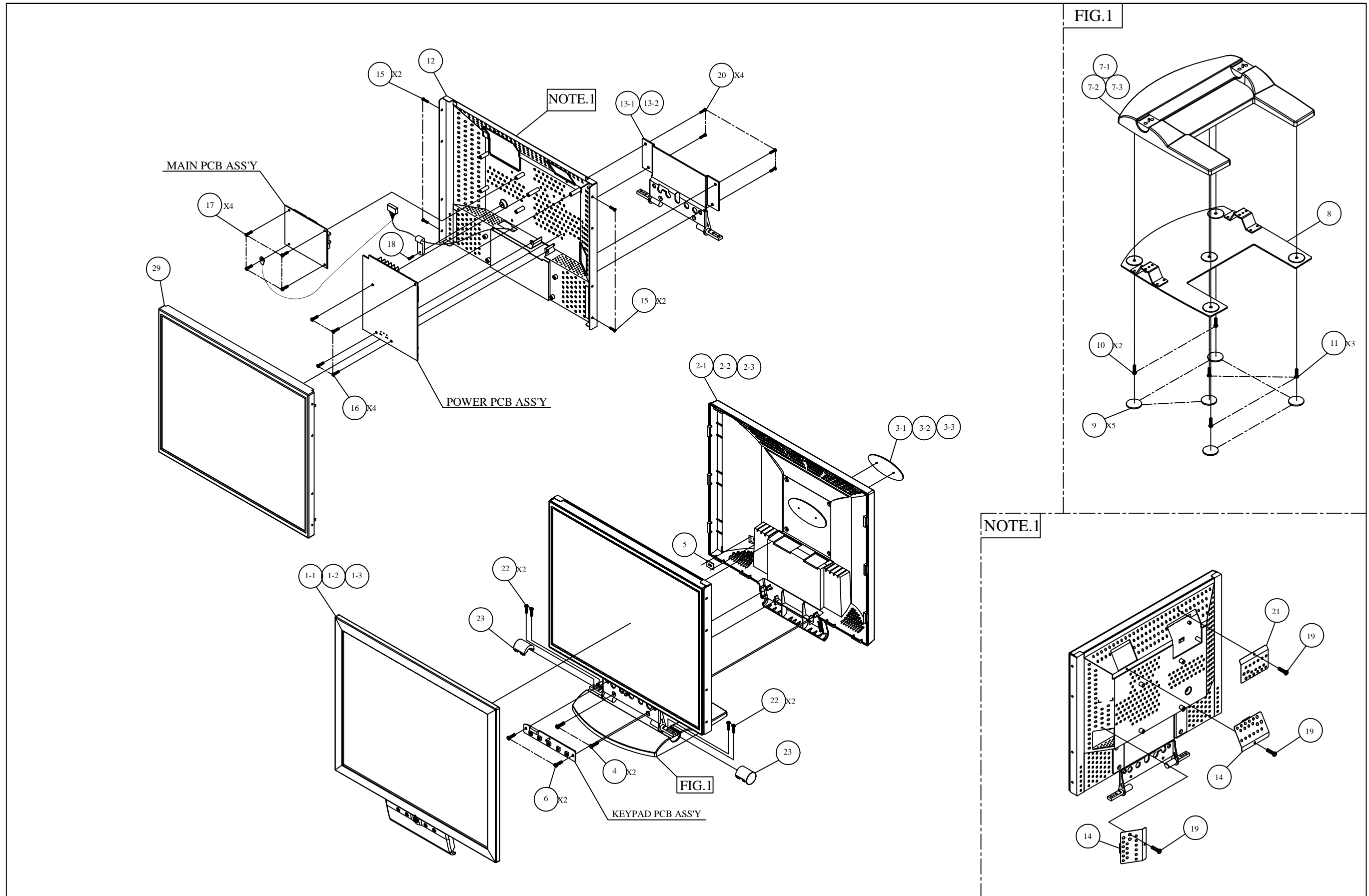
Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	C-FP-0301-0975	2024266903	FRONT BEZEL	VE710 ABS94HB PS7604B	1F01	1
2	#N/A	2053650500	LED INDIC.-FUNC	VE710 PMMA94HB	1F02	1
3	PL-FK-0709-0152	2044266301	FUNCTION KEY	VE710 ABS94HB AL-PLATE	1F03	1
4	M-MS-0808-9214	2051352100	NAME PLATE	VIEWSONIC E015-006 3-BIRD LOGO	1F04	1
5	M-MS-0808-9213	2051352000	NAME PLATE	VIEWSONIC LOGO 3 PIN VA521	1F05	1
6	C-BC-0302-0588	2022262302	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1
7	M-MS-0808-9396	2051352202	NAME PLATE	VIEWSONIC E015-017	2C02	1
8	M-SCW-0824-0848	2083740082	SCREW,BND T+	M4*8(BND T+)	2C03	2
9	M-BK-0805-0070	2071869400	BRACKET,FIX	METAL PLATE 1.0MM KENSINGTON	2C04	1
10	M-SCW-0824-0812	2084730062	SCREW,BND T+	M3X6(BND T+)	2C05	2
11	PL-PS-0715-0991	2028258202	STAND	VE710 ABS94HB BLACK 4001	5B01	1
12	M-BK-0805-0071	2071970400	METAL FITTG	VE710 STAND SECC T=1.5	5B02	1
13	PL-PD-0714-0113	2039819301	FOOT PAD	RUBBER O20*2TMM SQUARE GRAIN	5B03	4
14	M-SCW-0824-6716	2080002400	SCREW,SPE	VE155/3x8 STAND	5B04	2
15	M-SCW-0824-0849	2080004700	SCREW,SPE	M3*4 SPECIAL THIN HEAD TYPE I	5B05	3
16	PL-00000325	2039802601	FOOT PAD	JC186H 20X1.6mm Rubber blac	5B06	1
17	M-LB-0813-0769	2055613293	LABEL	VIEWSONIC OPEN STAND LABEL-LCD	5B10	1
18	M-BK-0805-0072	2071970200	METAL FITTG	VE710 PANEL SECC 0.8	5F01	1
19	M-MS-0808-9354	2106656500	HINGE	VE710 -5'~+20'	5F02	RA 1
20	M-MS-0808-9355	2106656501	HINGE	VE710 -5'~+20' FOR TL	5F02	RB 1
21	M-BK-0805-0073	2071970300	METAL FITTG	VE710 COVER SPTE T=0.3	5F03	2
22	M-SCW-0824-6715	2080002200	SCREW,SPE	L355 M3x6 DH NICKEL-PLATED	5F04	4
23	M-SCW-0824-0811	2080003700	SCREW,SPE	1SZTTER001A M3*6L MSWR17/FZMY1	5F05 5F06	8
24	#N/A	2072457800	INSULATOR	VE710 24*31*0.45 T4000	5F07	1
25	#N/A	2072457900	INSULATOR	VE710 12*135*0.45 T4000	5F08	1
26	M-SCW-0824-6717	2081430062	SCREW,(WASH)	M3X6 P=0.5(TOOTH WASHER)	5F09	1
27	M-SCW-0824-6719	2082630062	SCREW	M3X6 P=0.5	5F10	3
28	M-SCW-0824-0851	2082340072	SCREW,CSK+	SCREW CSK+ M4*7	5F11	4
29	M-BK-0805-0074	2071970800	METAL FITTG	VE710 COVER SPTE T=0.3	5F12	1
30	#N/A	2072458300	INSULATOR	12*10*1.1 94V0 ADHESIVE	5F13	1
31	#N/A	2080004800	SCREW,SPE	M3.5*13 PMS/SW YLOK	6B01	4
32	M-CV-0830-0300	2027258601	DUST COVER	VE710 ABS94HB AL-PLATE(R) R	6B02	1
33	M-MS-0808-9408	2061453400	BUSHING	VE710 PLUG RUBBER	6B03	4
34	#N/A	2027258602	DUST COVER	VE710 ABS94HB AL-PLATE(L)	6B04	1
35	P-BX-0601-0960	2011132008	CARTON BOX	VE710S-2 VS10047 20041014	6P01	1
36	#N/A	2055632074	LABEL	VE710S-2 VS10047(M) CMO	6P02	1
37	M-LB-0813-0961	2055636022	LABEL	VE710S-2 VS10047 SMALL	6P05	1
38	M-LB-0813-0856	2055613379	LABEL	ViewSonic CONTAINER LABEL	6P11	1/36
39	M-LB-0813-0530	2055617101	LABEL	10*20 HI-POT TESTED 0K	6P13	1
40	M-LB-0813-0959	2055613392	LABEL	VSC HIGH VOLTAGE WARNING LABEL	6P14	1
41	P-FM-0602-0866	2012176400	POLYFOAM	VE710 EPS (L)	6P20	1
42	P-FM-0602-0867	2012176500	POLYFOAM	VE710 EPS (R)	6P21	1
43	#N/A	2055132202	LABEL	VE710S-2 VS10047 CMO 041014	6P50	1
44	M-LB-0813-0528	2055103400	LABEL	JK0936F WEN	6P52	1
45	M-LB-0813-0002	2056603050	SERIAL LABEL	VIEWSONIC LCD SERIAL LABEL	6P56 6P55 6P54 6P51	4
46	M-MS-0808-1317	2013053000	POLYETHY BAG	90CMX75CMX0.02 PE-LD	6P60	1
47	#N/A	2438501166	CD-OWNER GUIDE	VE710S-2 WIZARD VS10047 CMO	6P80	1
48	#N/A	2002310427	GUARANT CARD	VIEWSONIC VE710S-2 QSG 041014	6P84	1
49	M-MS-0808-1316	2013222536	POLYETHY BAG	250mmx350mmxt0.3 ADD>PE-LD<	6P85	1
50	#N/A	2072250103	HEAT SINK	JC186H AL6063S-T5 AUDIO	9H02	1
51	#N/A	2072261200	HEAT SINK	JT178WP69/45W*15L*23H	9H03	1
52	#N/A	2429350300	TUBING,H-SRK	12*20MM FOR ADAPTOR	9R81 9R82 9R83 9R84	4
53	M-SCW-0824-0285	2084730082	SCREW,BND T+	M3X8(BND T+)	9S02 9S03	3
54	#N/A	2346147396	CAP,CHIP 125°C	CS 0603/X7R/50V 0.047u K T	C102 C103 C104 C106 C107 C109	RA 6
55	#N/A	2346247396	CAP,CHIP 125°C	CS 0603/X7R/25V 0.047u K T	C102 C103 C104 C106 C107 C109	RB 6
56	E-C-0404-4224	2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p J T	C111 C113 C114 C115	4
57	E-C-0404-3815	2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u Z T	C116 C122 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142 C143 C148 C149 C151 C152 C153 C154 C156 C160 C161 C162 C163 C166 C167 C168 C169 C170 C172 C174 C175 C178 C179 C180	35
58	#N/A	2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5 T	C117	1
59	E-C-0404-4423	2341122096	CAP,CHIP 125°C	CS 0603/COG/50V 22p J T	C119 C121 C145 C146	4
60	#N/A	2336322613	CAP,MINI ELE 105°C	EC 22u/ 16V 4*7 P=2.5 T	C132 C144 C147 C159 C171 C181	6

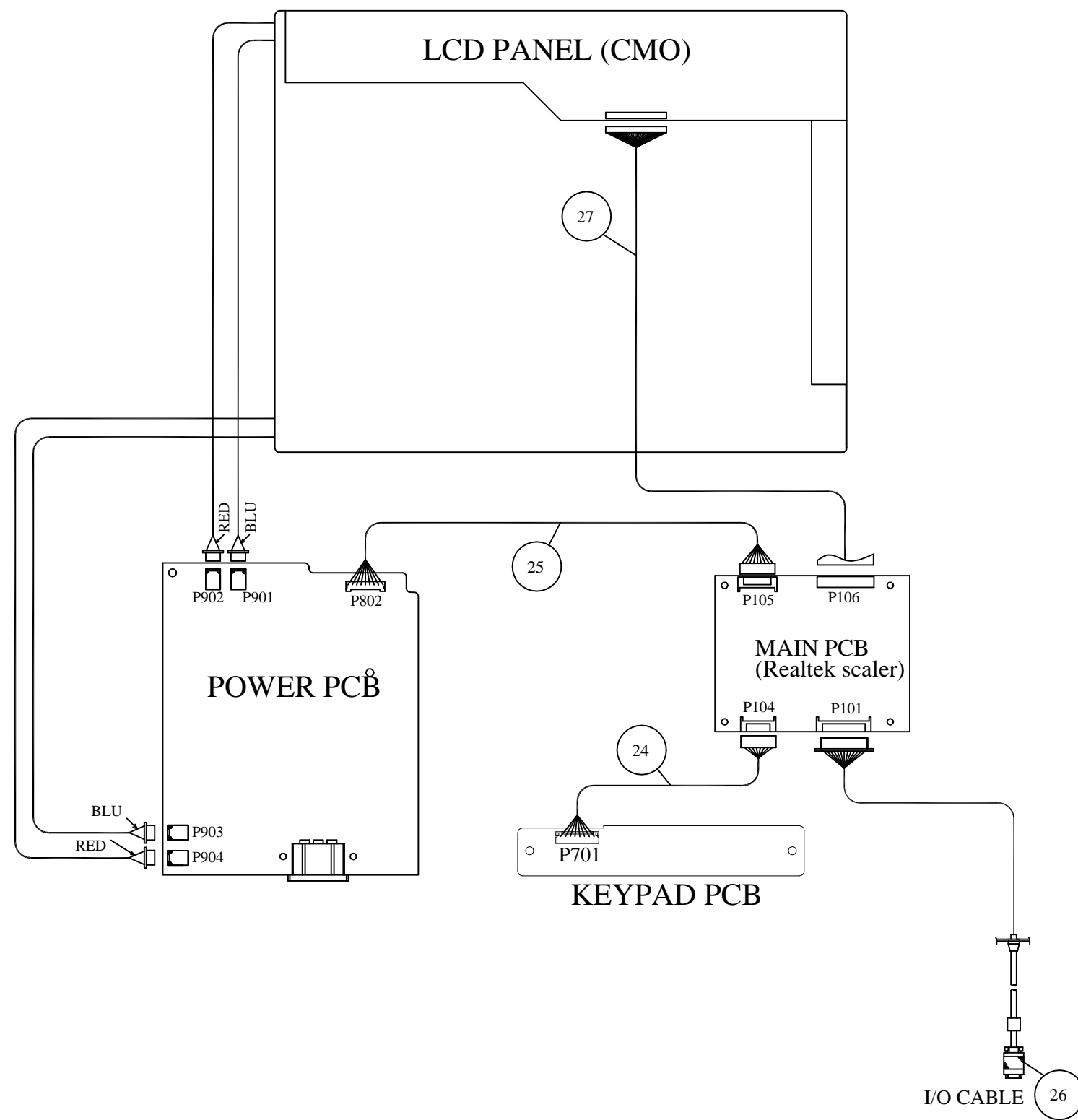
Item	ViewSonic P/N	Ref. P/N	Description		Location	Universal number#	Q'ty
61	E-00000999	2336347613	CAP,MINI ELE 105°C	EC 47u/ 16V 5*7 P=2.5 T	C155 C164 C165 C176 C177		5
62	#N/A	2300933401	CAP MTL MINI	X2 0.33u/275V P=15.0 K C	C801 C804		2
63	E-C-0404-1855	2287247212	CAP,CER	Y2 4700p/250V Y5V P=10.0 M K	C802 C803 C830 C831		4
64	#N/A	2357510708	EC HI-RIPPLE 105C 400V	EC 100u/400V 18*32 P=7.5 S	C805		1
65	E-C-0404-1853	2303210312	CAP,MTL	CF93M 0.010UF 250V K KC	C806		1
66	#N/A	2349110496	CAP,CHIP 125°C	CS 1206/X7R/50V 0.1u K T	C807 C826		2
67	E-C-0405-4328	2349110296	CAP,CHIP 125°C	CS 1206/X7R/50V 1000p K T	C808 C816 C832		3
68	E-C-0404-1838	2333610691	CAP,ELE 105°C	EC 10u/ 50V 5*11 P=5.0 T	C809		1
69	#N/A	2333647691	CAP,ELE 105°C	EC 47u/ 50V 8*11 P=5.0 T	C810 C915		2
70	#N/A	2335447791	CAP,ELE LOW ESR 105°C	EC 470u/ 25V 10*13 P=5.0 T	C811 C823 C906 C922		4
71	E-C-0404-5329	2349110396	CAP,CHIP 125°C	CS 1206/X7R/50V 0.01u K T	C812		1
72	E-C-0404-2262	2285110291	CAP,CER	CC 1000P/1KV Y5P P=5.0 K T	C820 C821		2
73	#N/A	2330005801	CAP,MINI ELE	EC 1500u/ 16V 10*20 P=5.0 C	C822		1
74	#N/A	2335210811	CAP,ELE LOW ESR 105°C	EC 1000u/ 10V 8*16 P=3.5 C	C824		1
75	#N/A	2347147396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.047u K T	C901 C911 C924		3
76	#N/A	2275410001	CAP CER	TC 10P/3KV SL P=7.5 J C	C902 C916		2
77	#N/A	2349133296	CAP,CHIP 125°C	CS 1206/X7R/50V 3300P K T	C903 C904 C926 C927		4
78	#N/A	2275450901	CAP,CER	TC 5P/3KV SL P=7.5 J C	C905 C918		2
79	#N/A	2347156296	CAP,CHIP 125°C	CS 0805/X7R/50V 5600p K T	C908 C919		2
80	#N/A	2342133196	CAP,CHIP 125°C	CS 0805/COG/50V 330p J T	C909 C913 C920		3
81	#N/A	2347110496	CAP,CHIP 125°C	CS 0805/X7R/50V 0.1u K T	C910 C917 C923 C925		4
82	#N/A	2342127096	CAP,CHIP 125°C	CS 0805/COG/50V 27p J T	C912		1
83	#N/A	2347110396	CAP,CHIP 125°C	CS 0805/X7R/50V 0.01u K T	C914		1
84	E-D-0403-2041	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	D101 D103 D104 D106 D107 D108 D113 D115 D116 D1117	RB	10
85	E-D-0403-1892	2364200896	DIODE,RECT(SMD)	BAS32L SOD80C PHILIPS	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117	RC	10
86	E-D-0403-1667	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 TEMIC GS08	D101 D103 D104 D106 D107 D108 D113 D115 D116 D117 D905 D906 D907 D908 D910 D911 D914 D915	RA	18
87	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D105 D111 D112	RA	3
88	E-D-0403-2808	2364505616	DIODE,ZENER SMD	TZMC5V6 SOD-80 5.2V-6V VISHAY	D105 D111 D112	RB	3
89	#N/A	2364503696	DIODE,ZENER SMD	BZV55-C3V6 PHILIPS	D121 D122		2
90	#N/A	2363703891	LED	LED 3 GRN/YEL	D701		1
91	E-D-0403-1531	2363221195	DIODE,RECT	PG208 PEC	D801 D802 D803 D804	RA	4
92	E-D-0403-2009	2363227295	DIODE,RECT	2A07 DO-15 1000V/2A TSC	D801 D802 D803 D804	RB	4
93	E-D-0403-1671	2363224295	DIODE,RECT	20KDA60 INTER	D801 D802 D803 D804	RC	4
94	#N/A	2362900395	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 PEC	D805	RA	1
95	#N/A	2362900895	TRANSIENT VOLTAGE SUPPRESSOR	P6KE130A DO-15 WILLAS	D805	RB	1
96	#N/A	2363223195	DIODE,RECT	UF4007 GS	D806	RA	1
97	#N/A	2363231995	DIODE,RECT	UF4007 PEC	D806	RB	1
98	E-D-0403-1005	2363226995	DIODE,RECT	UF4004 CHENMKO	D807	RA	1
99	E-D-0403-1465	2363220395	DIODE,RECT	UF4004G T/B PEC	D807	RB	1
100	#N/A	2364522096	DIODE,ZENER SMD	RLZ22B LL-34 ROHM	D808		1
101	#N/A	2364300896	DIODE,SCHOTTKY(SMD)	EP05Q04-TE8L 0.4A/40V NI	D809 D909 D916		3
102	E-D-0403-2037	2363300300	DIODE,SCHOTTKY	FCH20A15 150V/20A TO-220AB IR	D821	RA	1
103	#N/A	2363302200	DIODE,SCHOTTKY	SRF20120C ITO-220AB MOSPEC	D821	RB	1
104	#N/A	2363302300	DIODE,SCHOTTKY	SRF10100C ITO-220 MOSPEC	D822		1
105	E-D-0403-1666	2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5W ROHM	D901	RA	1
106	E-D-0403-1779	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	D901	RB	1
107	#N/A	2364601096	DIODE,SWITCH SMD	BAV99 SOT-23 PHILIPS	D902 D192	RA	2
108	#N/A	2364601196	DIODE,SWITCH SMD	BAV99 SOT-23 ZOWIE	D902 D912	RB	2
109	E-00001008	2362900695	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 PEC	D903 D904	RA	2
110	E-00001009	2362900795	TRANSIENT VOLTAGE SUPPRESSOR	P6KE30A DO-15 WILLAS	D903 D904	RB	2
111	#N/A	2363600696	DIODE,SWITCH	RLS4148-T11 LL-34 ROHM	D905 D906 D907 D908 D910 D911 D914 D915	RB	8
112	E-D-0403-0531	2363600195	DIODE,SWITCH	1N4148 DO-35 T	D913	RA	1
113	E-FS-0410-0009	2213125207	FUSE	FUSE 2.5A/250V 21502.5 LITTEL	F801	RA	1
114	E-FS-0410-0102	2213125211	FUSE	FUSE 2.5A/250V SG501302.5 PICO	F801	RB	1
115	E-IC-0401-4044	2365930896	IC,DIGITAL SMD	RTD2023 PQFP128 Realtek	I101		1
116	E-IC-0450-0041	2365929996	IC,DIGITAL SMD	MTV312M64-AJ PLCC44 MYSON	I104		1
117	E-IC-0401-2269	2365915896	IC,DIGITAL SMD	24LC16B/SN MICROCHIP SO08	I105	RA	1
118	#N/A	2365100996	IC,MEMORY	AT24C16AN-10SI-2.7 SOIC8 ATMEL	I105	RB	1
119	#N/A	2365812696	IC,LINEAR(SMD)	CM2860K1M223 SOT-223 CHAMPION	I106	RA	1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty	
120	#N/A	2365813196	IC,LINEAR(SMD)	AME8805DEGT SOT-223 AME	I106	RB	1
121	E-IC-0401-2924	2365808196	IC,LINEAR(SMD)	AP1117E-3.3V SOT-223 ATC	I107	RA	1
122	#N/A	2365801496	IC,LINEAR(SMD)	RC1117ST-3.3 SOT223 FAIRCHILD	I107	RB	1
123	#N/A	2365808396	IC,LINEAR(SMD)	AIC1117-33CY AIC SOT-223	I107	RC	1
124	#N/A	2365809496	IC,LINEAR(SMD)	CM1117SCM-3.3V SOT223 CHAMPION	I107	RD	1
125	#N/A	2365330300	IC,LINEAR	SG6841D DIP-8 SG	I801		1
126	E-PC-0411-0083	2362401800	PHOTO COUPLR	TLP621(D4-GR-LF2) TOSHIBA	I802	RA	1
127	E-PC-0411-0082	2362401600	PHOTO COUPLR	TLP721F(D4-GR) TOSHIBA	I802	RB	1
128	#N/A	2365328191	IC,LINEAR	AP431VA TO-92 ATC	I803	RA	1
129	E-IC-0401-2152	2365321991	IC,LINEAR	KA431AZTA TO-92 FAIRCHILD	I803 I804	RB	2
130	#N/A	2365330600	IC,LINEAR	OZ9RRBD PDIP-8 MICRO	I901		1
131	M-WR-0828-0478	2428106100	JUMPER	0.6 *10.0mm	J801 J802 J803 J804 J805 J901 J904 J905 J906 J907 J911 J912 J913		13
132	M-WR-0828-0450	2428106075	JUMPER	0.6 **7.5mm	J806 J807 J811 J812 J813 J814 J185 J902 J903 J908 J909 J910 J914 J916 L804		15
133	M-WR-0828-0460	2428106125	JUMPER	0.6 *12.5mm	J808 J917		2
134	M-WR-0828-0455	2428106050	JUMPER	0.6 *5.0mm	J915		1
135	#N/A	2434420400	AL SHIELDING TAPE	W40*L40 AL	K901		1
136	#N/A	2433304040	SHIELDING FOAM	10W*10H*40L UL94HF-1 SR<0.08	K902		1
137	#N/A	2434325603	SHIELDING TAPE	W25*L60*TO.06 (AL)	K903		1
138	E-R-0405-6600	2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J T	L101 L102 L103 R102 R105 R107 R111 R125 R143 R167 R197		11
139	#N/A	2379312196	BEAD,HI-IMPEDANCE	Z= 120ohm(100MHZ~) 0603 200mA	L104 L105		2
140	E-L-0407-1535	2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~) 0805 200mA	L106 L107 L108 L109 L110 L111 L112 L113		8
141	E-L-0407-0041	2379101595	FERRITE CORE	3.5X4.5X0.8	L801		1
142	E-L-0407-1606	2379103500	FERRITE CORE	0.5 3T 680 OHM MINAT 100MHZ	L802 L808		2
143	E-L-0407-1533	2371154600	COIL,CHOKE	JD176 5.2UH 15.5T(REF)	L803		1
144	#N/A	2371121301	COIL,CHOKE	ET-20 0.32mm*35Ts 21mH	L805		1
145	#N/A	2404301112	CONNECTOR	JST PH 13P SIDE P=2.0 OR EQUAL	P101		1
146	M-MS-0808-6355	2404301107	CONNECTOR	JST PH 8P SIDE P=2.0 OR EQUAL	P104		1
147	#N/A	2404371008	CONNECTOR	JST PH 9P TOP P=2.0 OR EQUAL	P105		1
148	#N/A	2407630430	SOCKET,SMD	30P*1.0mm	P106	RA	1
149	#N/A	2407630530	SOCKET,SMD	30P*1.0mm LEOCO	P106	RB	1
150	M-MS-0808-9359	2427408252	WIRE HARNESS	8P H/B 1061#26 L=250mm P=2.0	P701		1
151	M-MS-0808-9360	2427409121	WIRE HARNESS	9P H/B 1061#24 L=120mm P=2.0	P802		1
152	#N/A	2404380302	CONNECTOR	87210-0236 P=3.5mm ACE	P901 P902 P903 P904	RA	4
153	#N/A	2404380502	CONNECTOR	CP0502P1HT1 CAILUX	P901 P902 P903 P904	RB	4
154	A-PC-0106-0121	2427130046	POWER CORD	USA WALL 1.83M BLACK	P951		1
155	A-VIO-0118-0034	2427501174	I/O CABLE	D15/C13 20276(3+6) 1.83M BLK	P961		1
156	CB-00000801	2420316301	FFC CABLE	FFC 30P*1.0mm*L165mm	P980		1
157	#N/A	2105251400	SPRING PLATE	SPTE T=0.4MM (GROUND PLATE)	PG81 PG82 PG83 PG84		4
158	M-MS-0808-0854	2097400301	EYELET	BSS3-1/2H T=0.25 SN 3 μ m	PG85 PG86 PG87		3
159	#N/A	2360100696	XISTOR,PNP R SMD	PMBS3906 SOT-23 PHILIPS	Q101 Q102 Q103 Q107 Q108	RA	5
160	E-Q-0402-1607	2360100796	XISTOR,PNP R SMD	MMBT3906 SOT-23 DIODES	Q101 Q102 Q103 Q107 Q108	RB	5
161	#N/A	2360501396	FET,P-CH SMD	AP2305N SOT-23 APEC	Q104	RA	1
162	#N/A	2360501296	FET,P-CH SMD	AO3411 SOT-23 ALPHA	Q104	RB	1
163	E-Q-0402-1624	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT-23 PHILIPS	Q106	RA	1
164	E-Q-0402-1180	2360301296	XISTOR,NPN R SMD	MMBT3904 SOT-23 DIODES	Q106	RB	1
165	#N/A	2361610000	FET,N-CH	APO9N701-A TO-220CMF APEC	Q801	RA	1
166	#N/A	2361610200	FET,N-CH	2SK2645-54MR FUJI	Q801	RB	1
167	E-Q-0402-0839	2361111191	XISTOR,PNP R	2SA1020(Y) TO-92 TOSHIBA	Q802		1
168	E-Q-0402-0718	2361316191	XISTOR,NPN R	2PC945P PHILIPS	Q901 Q902	RA	2
169	E-Q-0402-0555	2361313691	XISTOR,NPN R	KSC945C-G FAIRCHILD	Q901 Q902	RB	2
170	E-Q-0402-0428	2361302591	XISTOR,NPN R	2SC945(P) TO-92 NEC	Q901 Q902	RC	2
171	E-Q-0402-7032	2361610800	FET,N-CH	AP9960J TO-251(T-TYPE) APEC	Q905 Q906 Q911 Q912		4
172	#N/A	2360608496	FET,N-CH(SMD)	2N7002K SOT-23 VISHAY	Q907 Q908 Q909 Q910		4
173	E-R-0405-6409	2253210196	RES,CHIP 1/10W	RC 0603 1/10W 100 ohm J T	R103 R106 R108 R110 R112 R114 R116 R120 R134 R135 R144 R145 R150 R151 R152 R153 R154 R155 R156 R172 R176 R177 R186		23

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
174	#N/A	2251275096	RES,CHIP 1/10	RC 0603 1/10W 75 ohm F T	R104 R109 R113	3
175	E-R-0405-6604	2253222296	RES,CHIP 1/10W	RC 0603 1/10W 2.2Kohm J T	R118 R119 R139 R140	4
176	E-R-0405-6411	2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J T	R121 R122 R171 R180	4
177	E-R-0405-6410	2253210296	RES,CHIP 1/10W	RC 0603 1/10W 1Kohm J T	R123 R124 R133 R161 R188 R192	6
178	E-R-0405-6601	2253210596	RES,CHIP 1/10W	RC 0603 1/10W 1Mohm J T	R127 R158	2
179	E-R-0405-6419	2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J T	R128 R129 R149 R157 R159 R163 R173	7
180	#N/A	2251290916	RES,CHIP 1/10	RC 0603 1/10W 9.09Kohm F T	R141	1
181	#N/A	2251233216	RES,CHIP 1/10	RC 0603 1/10W 3.32Kohm F T	R147	1
182	E-R-0405-7000	2253222196	RES,CHIP 1/10W	RC 0603 1/10W 220 ohm J T	R182	1
183	E-R-0405-6605	2253227296	RES,CHIP 1/10W	RC 0603 1/10W 2.7Kohm J T	R191	1
184	E-TH-0416-0042	2229201212	THERMISTOR,PTH	SCK-103 10+-20% 3A THINKING	R802	1
185	#N/A	2253447496	RES,CHIP 1/4	RC 1206 1/4 W 470Kohm J T	R803 R812 R833 R834 R845 R836	6
186	E-R-0405-7158	2253451496	RES,CHIP 1/4	RC 1206 1/4 W 510Kohm J T	R804 R805 R806	3
187	#N/A	2253410096	RES,CHIP 1/4	RC 1206 1/4 W 10ohm J T	R807	1
188	#N/A	2251433026	RES,CHIP 1/4	RC 1206 1/4 W 33Kohm F T	R808	1
189	#N/A	2253447096	RES,CHIP 1/4	RC 1206 1/4 W 47ohm J T	R809	1
190	#N/A	2235551816	RES,MTL 2	RS 2WS 0.51 ohm J P=7.0	R811	1
191	#N/A	2253447196	RES,CHIP 1/4	RC 1206 1/4 W 470ohm J T	R816	1
192	E-R-0405-7116	2253400096	RES,CHIP 1/4	RC 1206 1/4 W 0ohm J T	R817	1
193	#N/A	2233622095	RES,CBN 1/2WS	RD 1/2WS 22 ohm J T52	R820	1
194	#N/A	2233610095	RES,CBN 1/2WS	RD 1/2WS 10 ohm J T52	R821	1
195	E-R-0405-3235	2233410295	RES,CBN 1/4 S	RD 1/4WS 1Kohm J T52	R823	1
196	#N/A	2251424326	RES,CHIP 1/4	RC 1206 1/4 W 24.3Kohm F T	R824	1
197	#N/A	2251413726	RES,CHIP 1/4	RC 1206 1/4 W 13.7Kohm F T	R825	1
198	#N/A	2253456296	RES,CHIP 1/4	RC 1206 1/4 W 5.6Kohm J T	R826	1
199	#N/A	2235647013	RES,MTL 3	RS 3WS 47ohm J P=20.0	R827	1
200	E-R-0405-2983	2251382526	RES,CHIP 1/8	RC 0805 1/8 W 82.5Kohm F T	R828 R926	2
201	E-00001010	2253410196	RES,CHIP 1/4	RC 1206 1/4 W 100ohm J T	R829	1
202	#N/A	2251320026	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm F T	R830	1
203	#N/A	2251411036	RES,CHIP 1/4	RC 1206 1/4 W 110Kohm F T	R831	1
204	#N/A	2253427196	RES,CHIP 1/4	RC 1206 1/4 W 270 ohm J T	R832	1
205	E-R-0405-3214	2233410395	RES,CBN 1/4 S	RD 1/4WS 10Kohm J T52	R901	1
206	#N/A	2253320396	RES,CHIP 1/8	RC 0805 1/8 W 20Kohm J T	R902	1
207	#N/A	2251322016	RES,CHIP 1/8	RC 0805 1/8 W 2.2Kohm F T	R903 R909 R927	3
208	E-R-0405-5989	2253310096	RES,CHIP 1/8	RC 0805 1/8 W 10ohm J T	R904	1
209	#N/A	2242315595	HIGH VOLTAGE RESISTOR	RD 1/2W 1.50M J	R905 R925	2
210	E-R-0405-3443	2233447995	RES,CBN 1/4 S	RD 1/4WS 4.70 J T52 MINI	R906 R907 R911 R912	4
211	E-R-0405-5992	2253310196	RES,CHIP 1/8	RC 0805 1/8 W 100ohm J T	R908	1
212	#N/A	2251368106	RES,CHIP 1/8	RC 0805 1/8 W 681 ohm F T	R914 R932	2
213	E-R-0405-2725	2233410095	RES,CBN 1/4 S	RD 1/4WS 10 ohm J T52	R915 R916 R917 R933 R935	5
214	#N/A	2253310596	RES,CHIP 1/8	RC 0805 1/8 W 1Mohm J T	R918 R924 R934	3
215	#N/A	2251382506	RES,CHIP 1/8	RC 0805 1/8 W 825 ohm F T	R919 R920 R936 R937	4
216	#N/A	2253351296	RES,CHIP 1/8	RC 0805 1/8 W 5.1Kohm J T	R921 R930	2
217	#N/A	2253451596	RES,CHIP 1/4	RC 1206 1/4 W 5.1Mohm J T	R922	1
218	E-R-0405-5992	2253310496	RES,CHIP 1/8	RC 0805 1/8 W 100Kohm J T	R923	1
219	#N/A	2251351126	RES,CHIP 1/8	RC 0805 1/8 W 51.1Kohm F T	R929	1
220	#N/A	2259210308	RES,CHIP NETWORKS	8P4R 1/16W 10Kohm J P=0.8	RN1 RN2 RN4	3
221	M-SW-0815-0182	2403702200	SWITCH,PU-TC	TSAA-2 HUAJIE	S701 S702 S703 S704 S705	5
222	#N/A	2407413100	SOCKET (AC INLET)	0711-2-P10-9 INALWAYS	S801	RA
223	#N/A	2407413300	SOCKET (AC INLET)	SC-8R-F15A9 SUPERCOM	S801	RB
224	#N/A	2407200991	HOLDER,FUSE	CQ-05T (5mm DIA FUSE) CONQUER	S802 S803	RA
225	M-MS-0808-1313	2407200791	HOLDER,FUSE	FC-05C	S802 S803	RB
226	#N/A	2374228006	XFORMER,POWR	ER-28 840uH 0.36mm/23Ts	T801	1
227	#N/A	2374300800	XFORMER INVERTER	EEL-19 18/2000Ts 0.1*20/0.06mm	T901 T902	2
228	#N/A	2202518500	PCB MULTILAYER	17" LVDS M/B FR4*2 100*80	U101	1
229	#N/A	2202127900	PC BOARD	VA721 KEY/B FR1 120*21 V1.00	U701	1
230	#N/A	2202130100	PC BOARD	VA721 P/B CEM1 160*130 V1.00	U801	1
231	E-00000800	2212004602	LCD PANEL	M170E5-L05 V2.0 CMO	V901	1
232	E-X-0415-0119	2369103601	XTAL,OSC	12.000MHZ/49US 30pF/1mW	X101	1
233	E-X-0415-0112	2369103901	XTAL,OSC	24.576MHZ/49US	X102	1
234	M-MS-0808-9360	2427409121	WIRE HARNESS	9P H/B 1061#24 L=120mm P=2.0	P802	1
235	A-VIO-0118-0034	2427501174	I/O CABLE	D15/C13 20276(3+6) 1.83M BLK	P961	1
236	M-WR-0828-0460	2428106125	JUMPER	0.6f 12.50MM	J914	1
237	M-WR-0828-0451	2428106150	JUMPER	0.6f 15.00MM	J915	1
238	#N/A	2433304040	SHIELDING FOAM	10W*10H*40L UL94HF-1 SR<0.08	K101	1
239	A-CD-VA721	2438501144	CD-OWNER GUIDE	VA721 WIZARD DATE:20031120	6P80	1
240	#N/A	2721215900	H-TYPE-POWER	VE710S(2)	BC53	1

8. Exploded Diagram And Spare Parts List





EXPLODED PARTS LIST (VA721, VE710b-2 & VE710s-2)

ViewSonic Model Number: VS10047

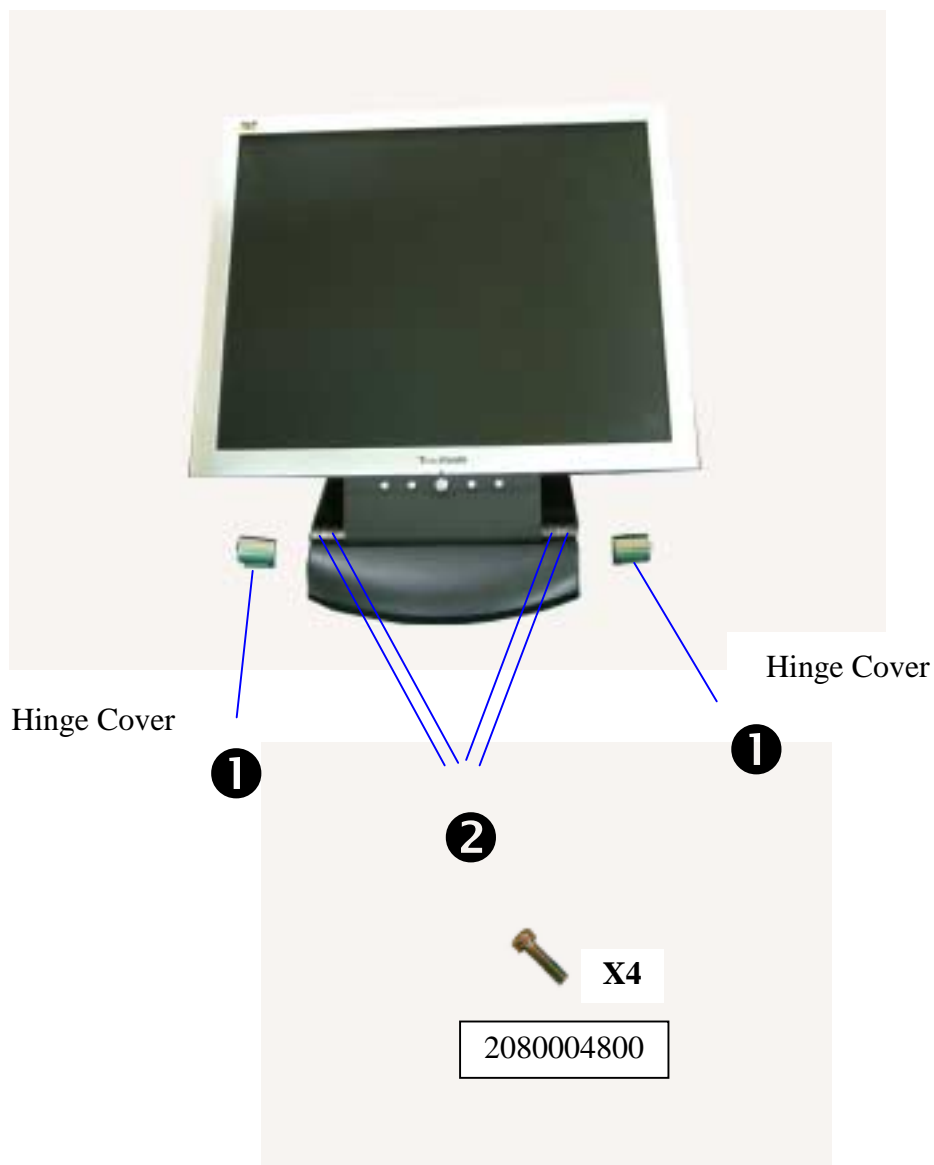
Rev: 1c

Item	ViewSonic P/N	Ref. P/N	Description		Location	Q'ty	Remark
1-1	C-FP-0301-0980	2603307568	FRONT BEZEL	VE710 ABS94HB PS7604B	1F01	1	VE710s-2
1-2	C-FP-0301-0978	2603307569	FRONT BEZEL	VE710B-2 ABS94HB PANTONE 432C	1F01	1	VE710b-2
1-3	C-FP-0301-0976	2603307576	FRONT BEZEL	VA721 ABS 94HB PS7604B	1F01	1	VA721
2-1	C-BC-0302-0587	2022262301	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1	VE710s-2
2-2	C-BC-0302-0588	2022262302	CABI BACK	VE710B-2 ABS94HB PANTONE 432C	2C01	1	VE710b-2
2-3	C-BC-0302-0587	2022262301	CABI BACK	VE710 ABS94HB BLACK 4001	2C01	1	VA721
3-1	M-MS-0808-9215	2051352200	NAME PLATE	VIEWSONIC E015-017	2C02	1	VE710s-2
3-2	M-MS-0808-9357	2051352201	NAME PLATE	NAME PLATE VIEWSONIC E015-019	2C02	1	VE710b-2
3-3	M-MS-0808-9215	2051352200	NAME PLATE	VIEWSONIC E015-017	2C02	1	VA721
4	M-SCW-0824-0848	2083740082	SCREW,BND T+	M4*8(BND T+)	2C03	2	
5	M-BK-0805-0070	2071869400	BRACKET, FIX	METAL PLATE 1.0MM KENSINGTON	2C04	1	
6	M-SCW-0824-0812	2084730062	SCREW,BND T+	M3X6(BND T+)	2C05	2	
7-1	PL-PS-0715-0990	2028258201	STAND	VE710 ABS94HB BLACK 4001	5B01	1	VE710s-2
7-2	PL-PS-0715-0991	2028258202	STAND	VE710B-2 ABS94HB PANTONE 432C	5B01	1	VE710b-2
7-3	PL-PS-0715-0990	2028258201	STAND	VE710 ABS94HB BLACK 4001	5B01	1	VA721
8	M-BK-0805-0071	2071970400	METAL FITTG	VE710 STAND SECC T=1.5	5B02	1	
9	PL-PD-0714-0113	2039819301	FOOT PAD	RUBBER O20*2TMM SQUARE GRAIN	5B03	5	
10	M-SCW-0824-6716	2080002400	SCREW,SPE	VE155/3x8 STAND	5B04	2	
11	M-SCW-0824-0849	2080004700	SCREW,SPE	M3*4 SPECIAL THIN HEAD TYPE I	5B05	3	
12	M-BK-0805-0072	2071970200	METAL FITTG	VE710 PANEL SECC 0.8	5F01	1	
13-1	M-MS-0808-9354	2106656500	HINGE	VE710 -5'~ +20'	5F02	1	
13-2	M-MS-0808-9355	2106656501	HINGE	VE710 -5'~+20' FOR TL	5F02	1	
14	M-BK-0805-0073	2071970300	METAL FITTG	VE710 COVER SPTE T=0.3	5F03	2	
15	M-SCW-0824-6715	2080002200	SCREW,SPE	L355 M3x6 DH NICKEL-PLATED	5F04	4	
16	M-SCW-0824-6717	2081430062	SCREW,(WASH)	M3X6 P=0.5(TOOTH WASHER)	5F05	4	
17	M-SCW-0824-0850	2082730058	SCREW,BND+	JP166K M3X5 Ni BND+	5F06	4	
18	M-SCW-0824-6717	2081430062	SCREW,(WASH)	M3X6 P=0.5(TOOTH WASHER)	5F09	1	
19	M-SCW-0824-6719	2082630062	SCREW	M3X6 P=0.5	5F10	3	
20	M-SCW-0824-0851	2082340072	SCREW,CSK+	SCREW CSK+ M4*7	5F11	4	
21	M-BK-0805-0074	2071970800	METAL FITTG	VE710 COVER SPTE T=0.3	5F12	1	
22	M-BK-0805-0070	2071869400	SCREW,SPE	M3.5*13 PMS/SW YLOK	6B01	4	
23	M-CV-0830-0300	2027258601	DUST COVER	VE710 ABS94HB AL	6B02	2	
24	M-MS-0808-9359	2427408252	WIRE HARNESS	8P H/B 1061#26 L=250mm P=2.0	P701	1	
25	M-MS-0808-9360	2427409121	WIRE HARNESS	9P H/B 1061#24 L=120mm P=2.0	P802	1	
26	A-VIO-0118-0034	2427501174	I/O CABLE	D15/C13 20276(3+6) 1.83M BLK	P961	1	
27	M-FC-0809-0798	2420308002	FFC CABLE	30P*0.5*L80mm	P980	1	CPT
	CB-00000801	2420316301	FFC CABLE	FFC 30P*1.0mm*L165mm	P980	1	CMO
28	M-FC-0809-0788	2420308001	FFC CABLE	80L*25.5W*0.32T 0.3C*0.5P*50N	P981	1	CPT Only
29	M-LCD-0826-0219	2212005200	LCD PANEL	CLAA170EA03 Ver:V CPT	V901	1	CPT 25ms
	M-LCD-0826-0255	2212005202	LCD PANEL	CLAA170EA03QV CPT	V901	1	CPT 16ms
	E-00000800	2212004602	LCD PANEL	M170E5-L05 V2.0 CMO	V901	1	CMO 16ms

Procedure of Disassembly (VE710s-2/VE710b-2/VA721)

This section provides disassembly procedures for VE710s-2/VE710b-2/VA721 LCD Monitor. Before you begin any of these procedures, be sure to turn off the power, computer system, and other attached devices; then disconnect the power cable from the electronically outlet. Moreover, when you disassemble the monitor, be sure to put the screws in a safe place and separate them according to grouping.

A. Disassembly of Stand unit from Monitor



1. Remove two Hinge Cover.
2. Unscrew four screws that secure Stand unit.



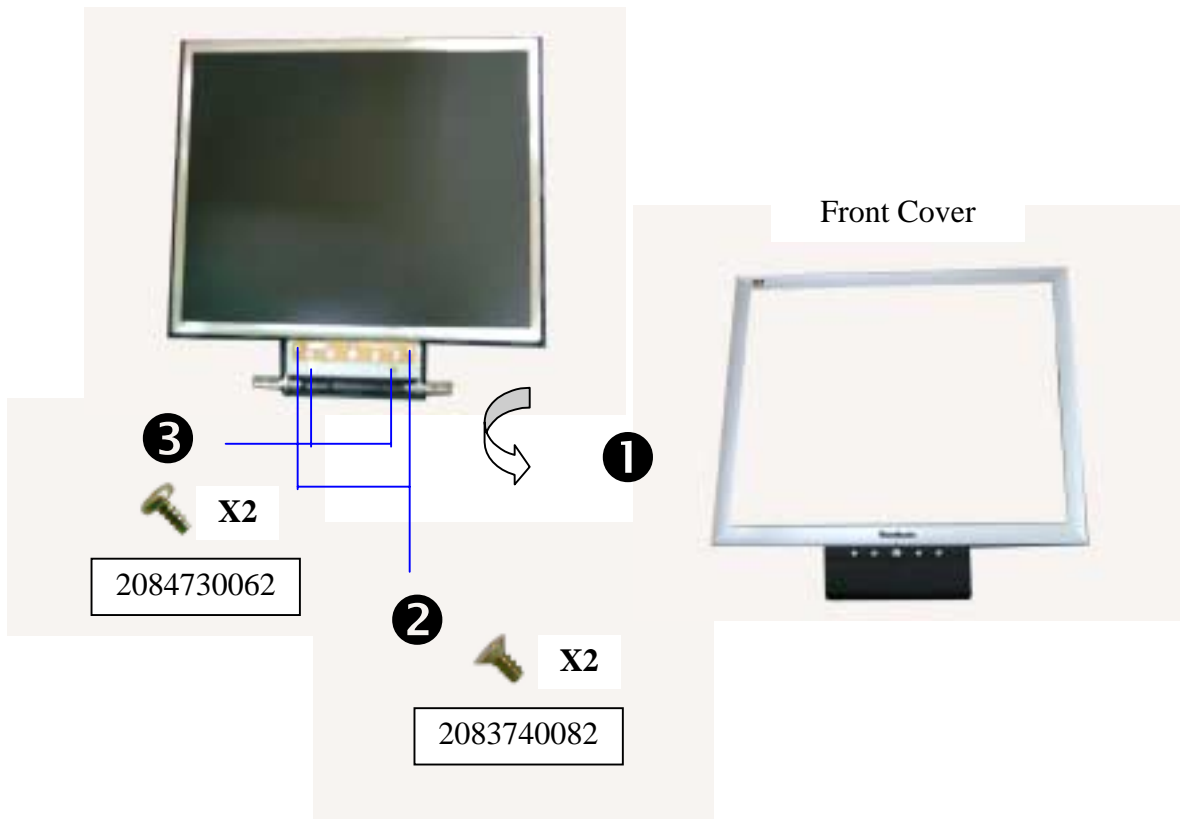
3

Stand unit

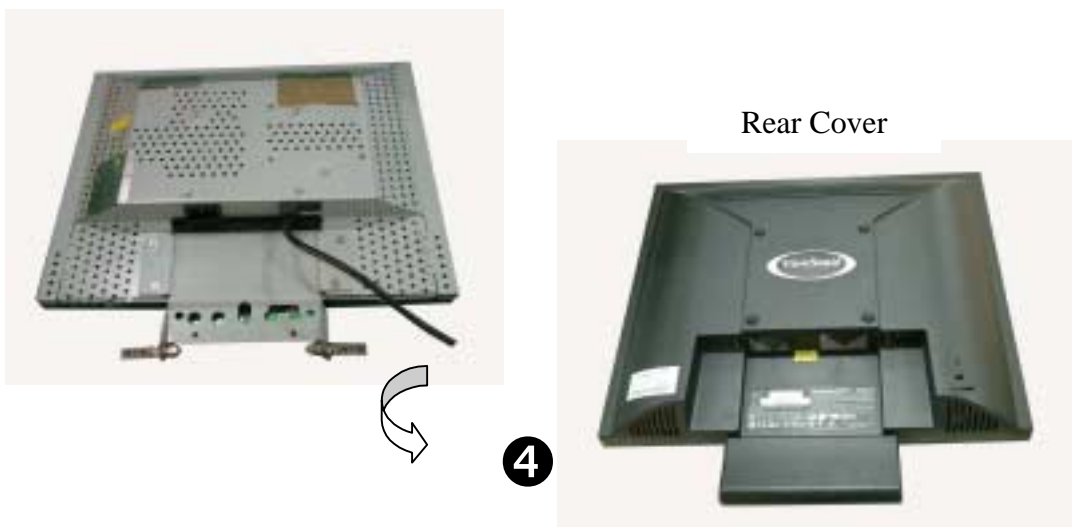


3. Detach Stand unit from the monitor.

B. Disassembly of Front Cover and Rear Cover

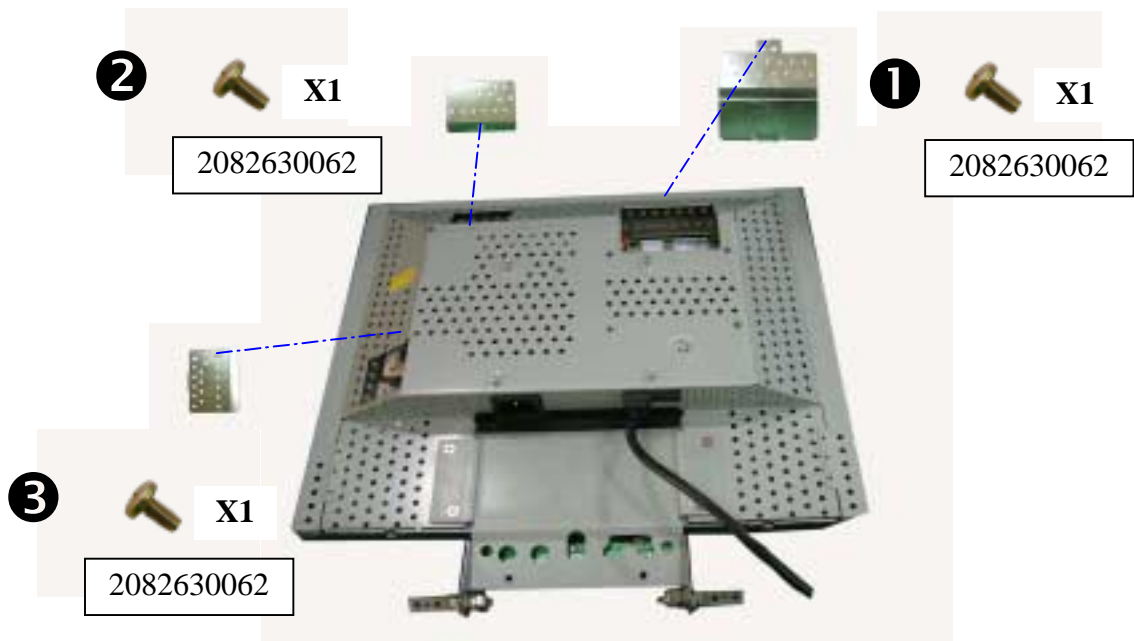


1. Detach Front Cover from the monitor.
2. Unscrew two screws that secure Hinge Metal Fitting.
3. Unscrew two screws that secure Keypad Board.

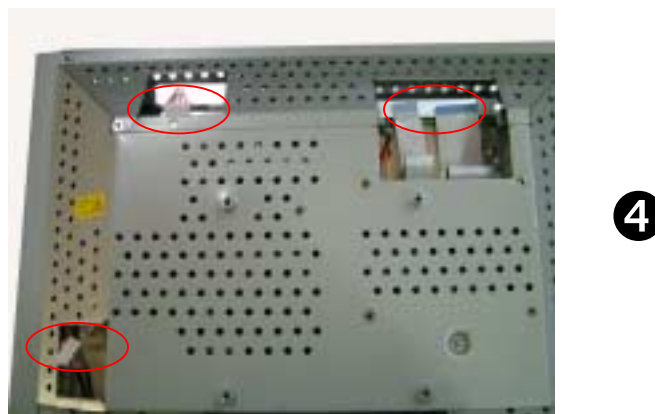


4. Detach Rear Cover from the LCD Panel module.

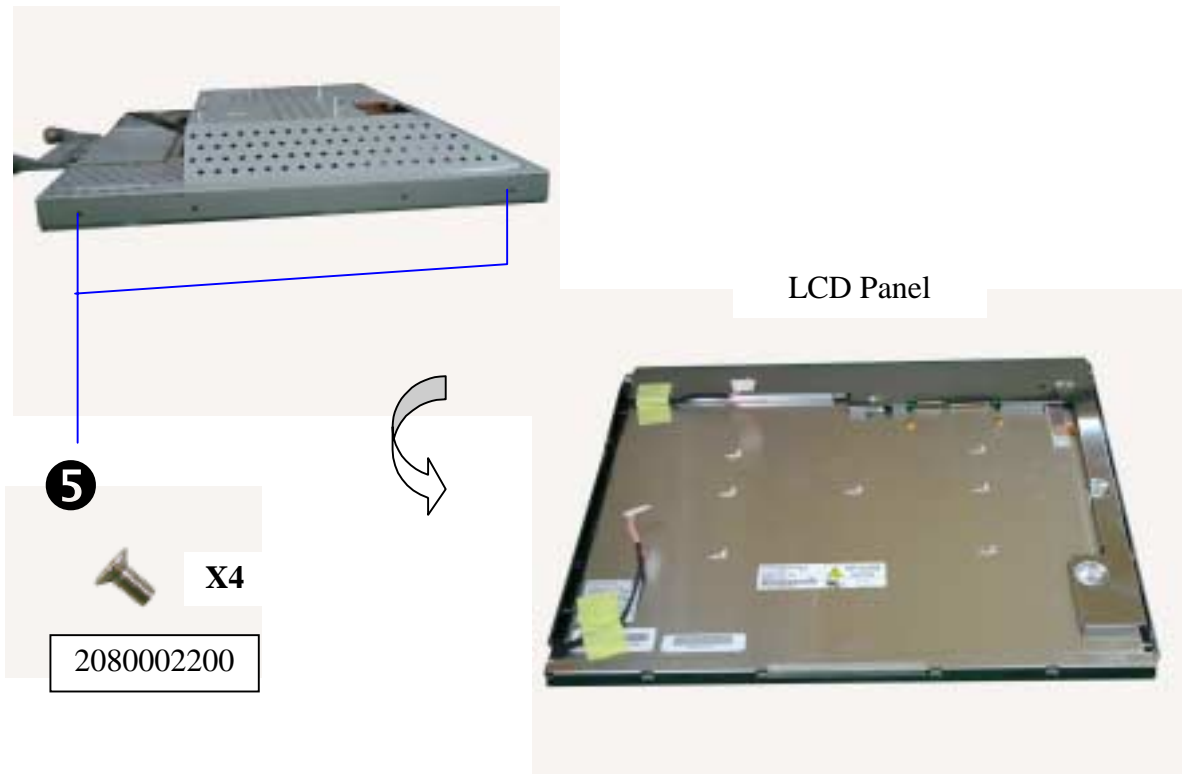
C. Disassembly of LCD Panel



1. Unscrew one screw that secure M/B Shielding Plate and detach M/B Shielding Plate.
2. Unscrew one screw that secure Inverter top Shielding Plate and detach Inverter top Shielding Plate.
3. Unscrew one screw that secure Inverter down Shielding Plate and detach Inverter down Shielding Plate.

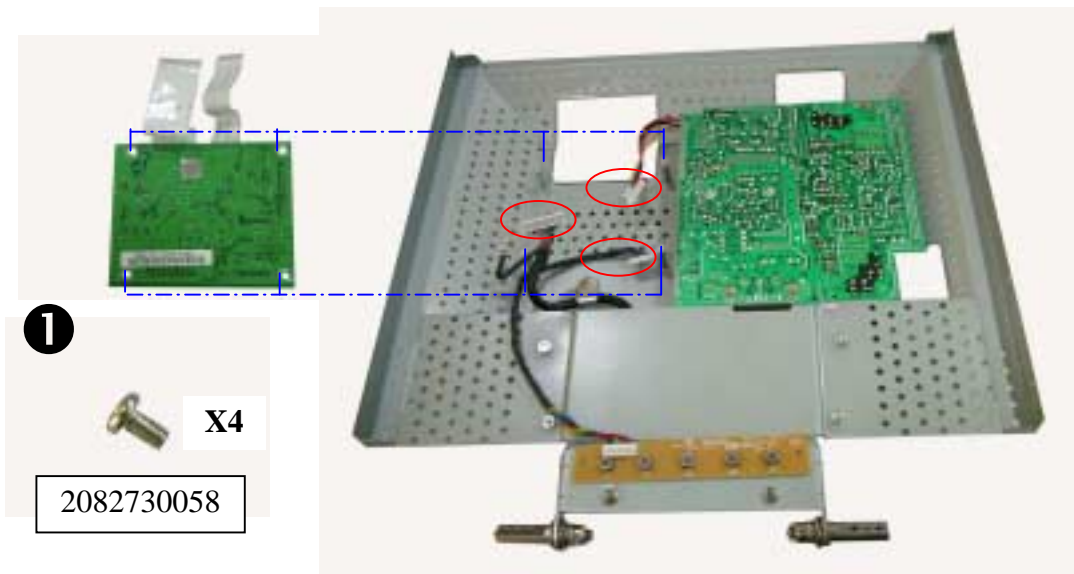


4. Disconnect three connectors to remove Inverter connector and LCD Panel FFC cable.

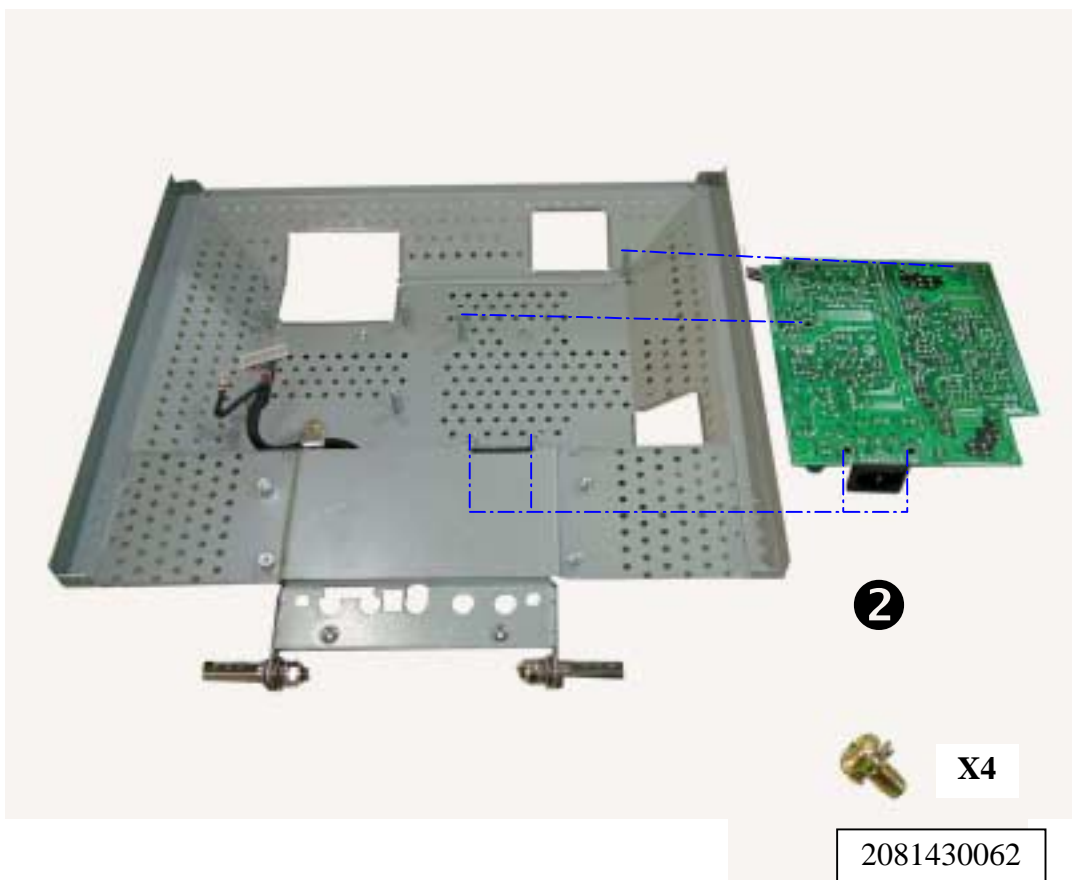


5. Unscrew four screws that secure Metal Fitting and remove LCD Panel from Metal Fitting.

D. Disassembly of Main Board, Keypad Board and Power Board

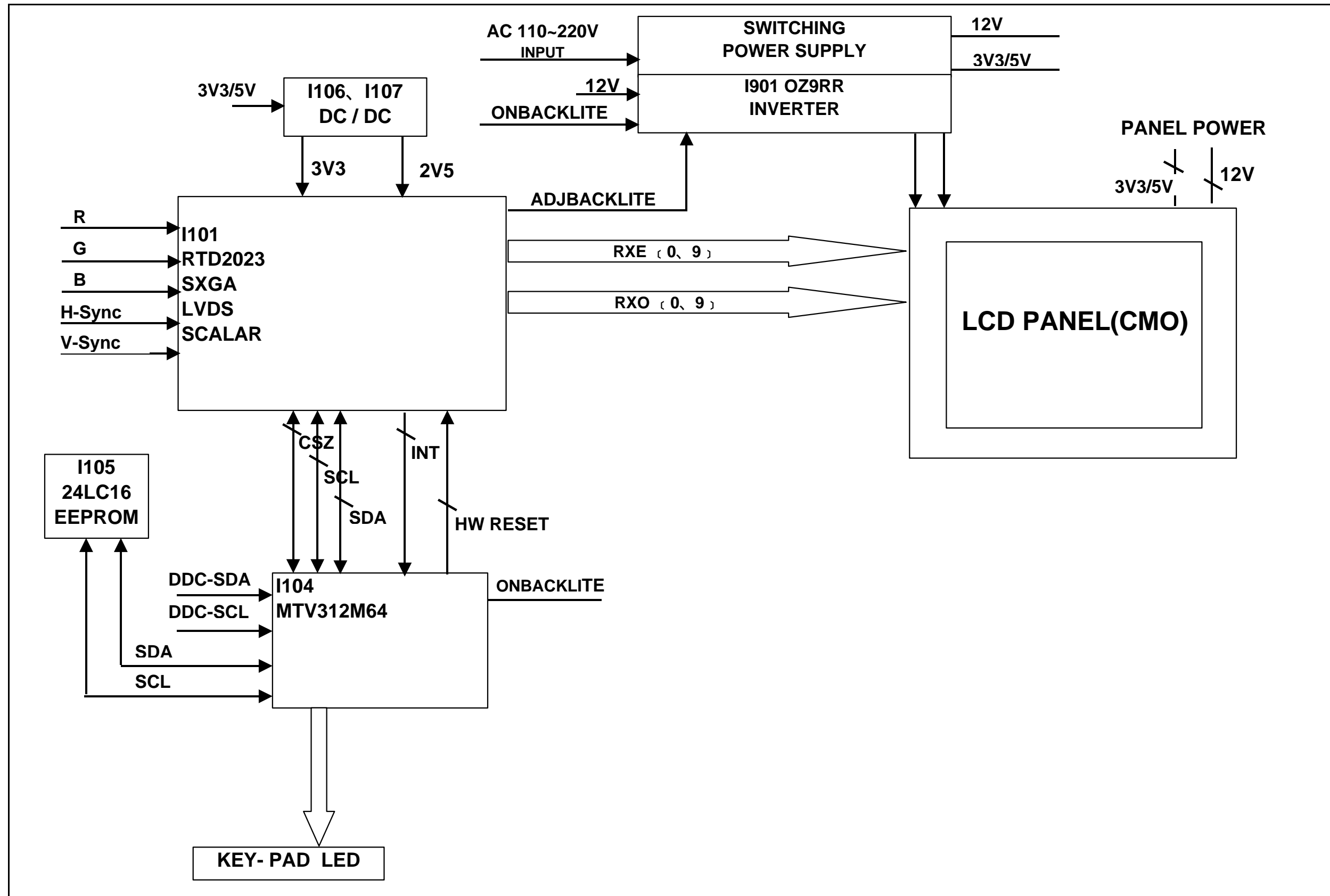


1. Unscrew four screws that secure Main Board and disconnect the wires which are connected to Main Board and remove Main Board.



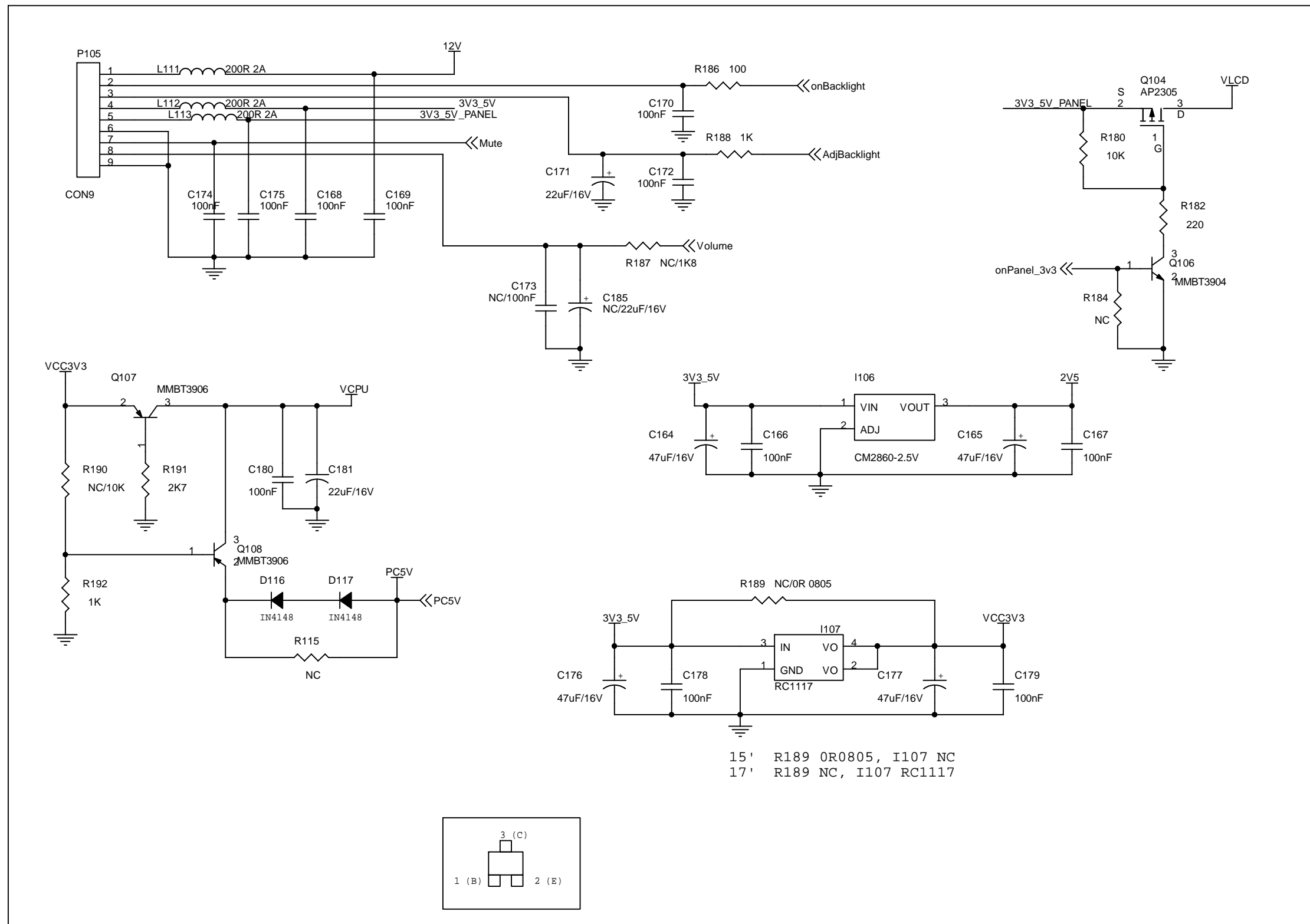
2. Unscrew four screws that secure Power Board to remove Power Board.

9. Block Diagram (VE710s-2/VE710b-2/VA721 Realtek Scaler CMO Panel)

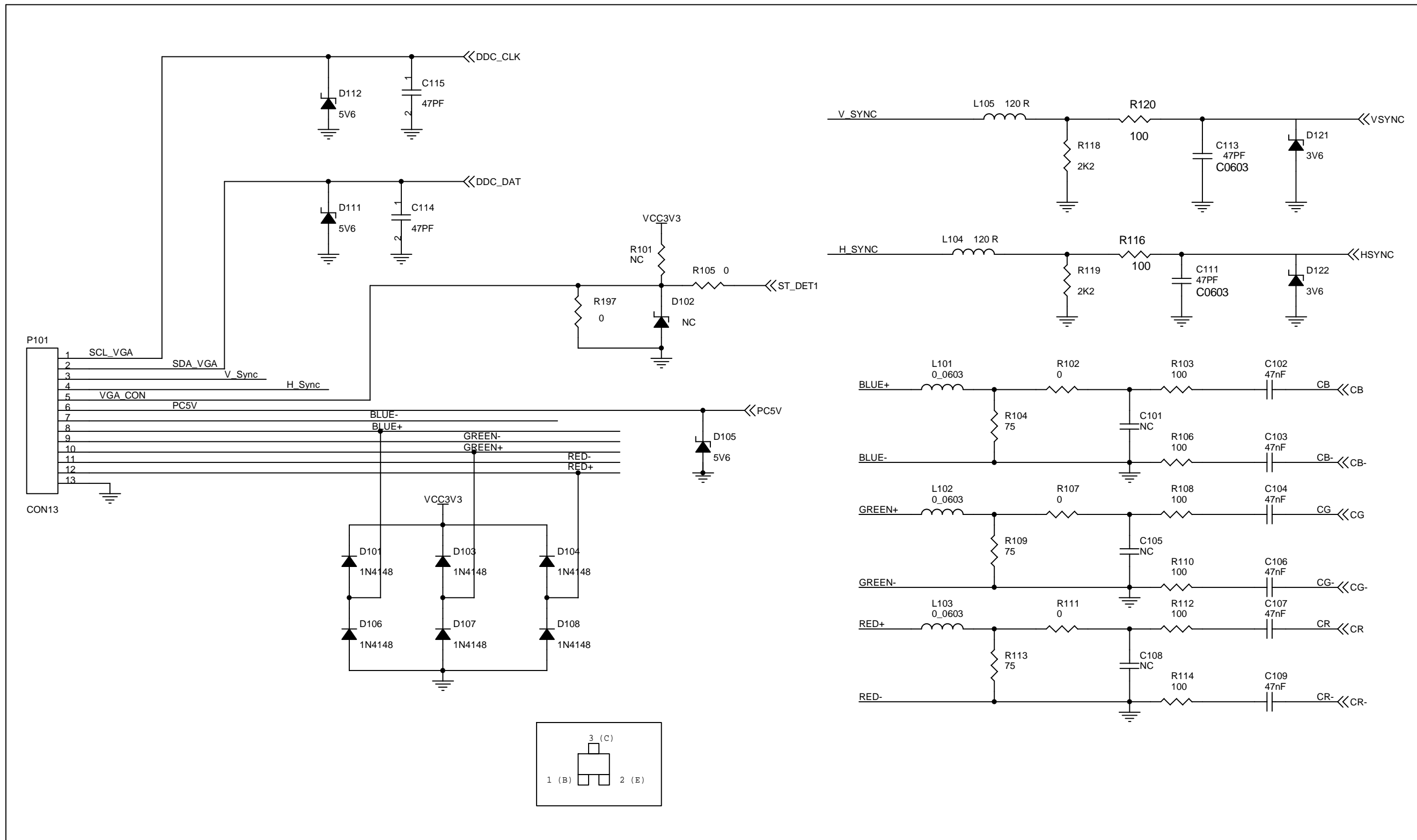


10. Schematic Diagrams

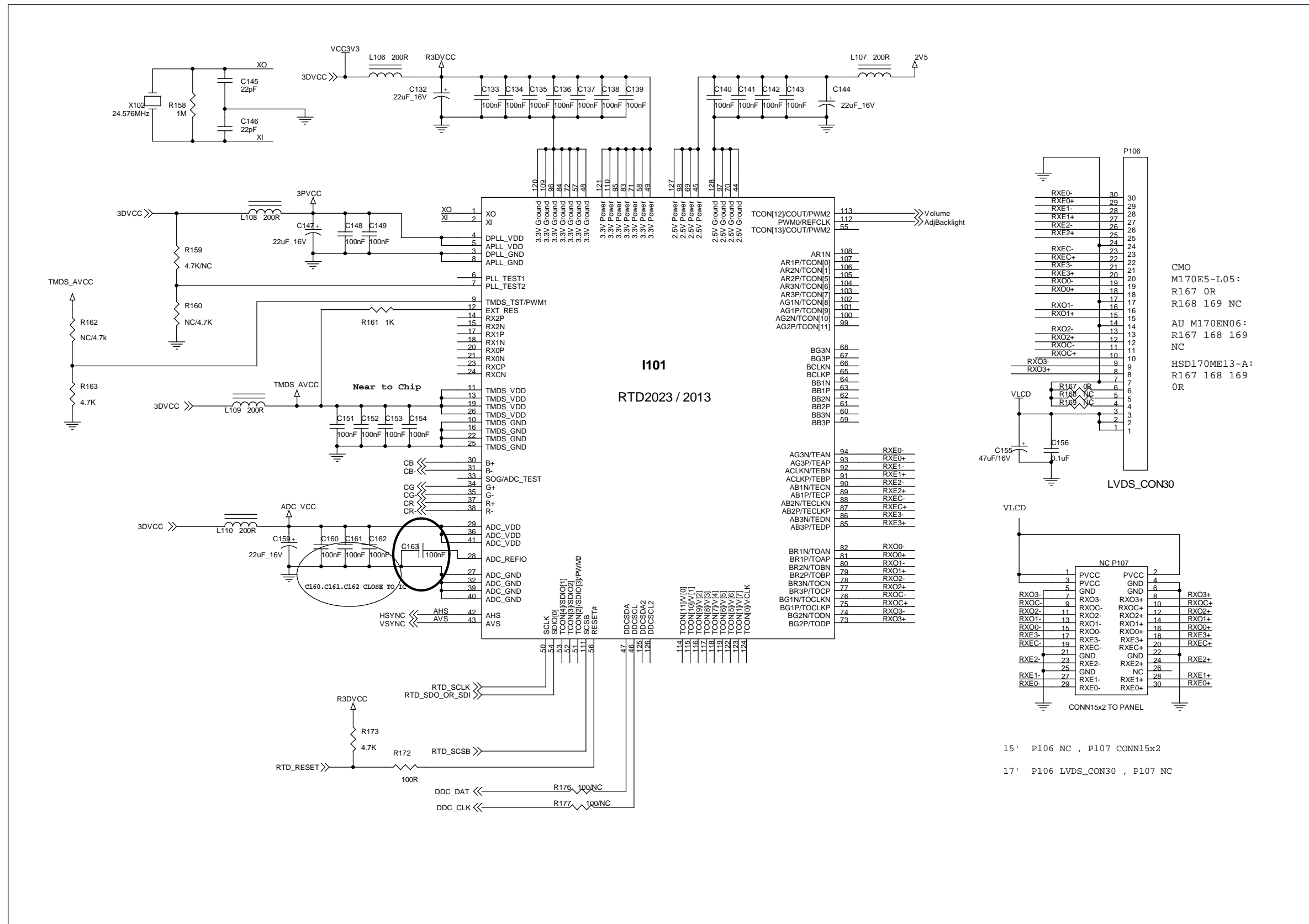
10.1. Power (Realtek Scaler CMO Panel)



10.2. Input (Realtek Scaler CMO Panel)

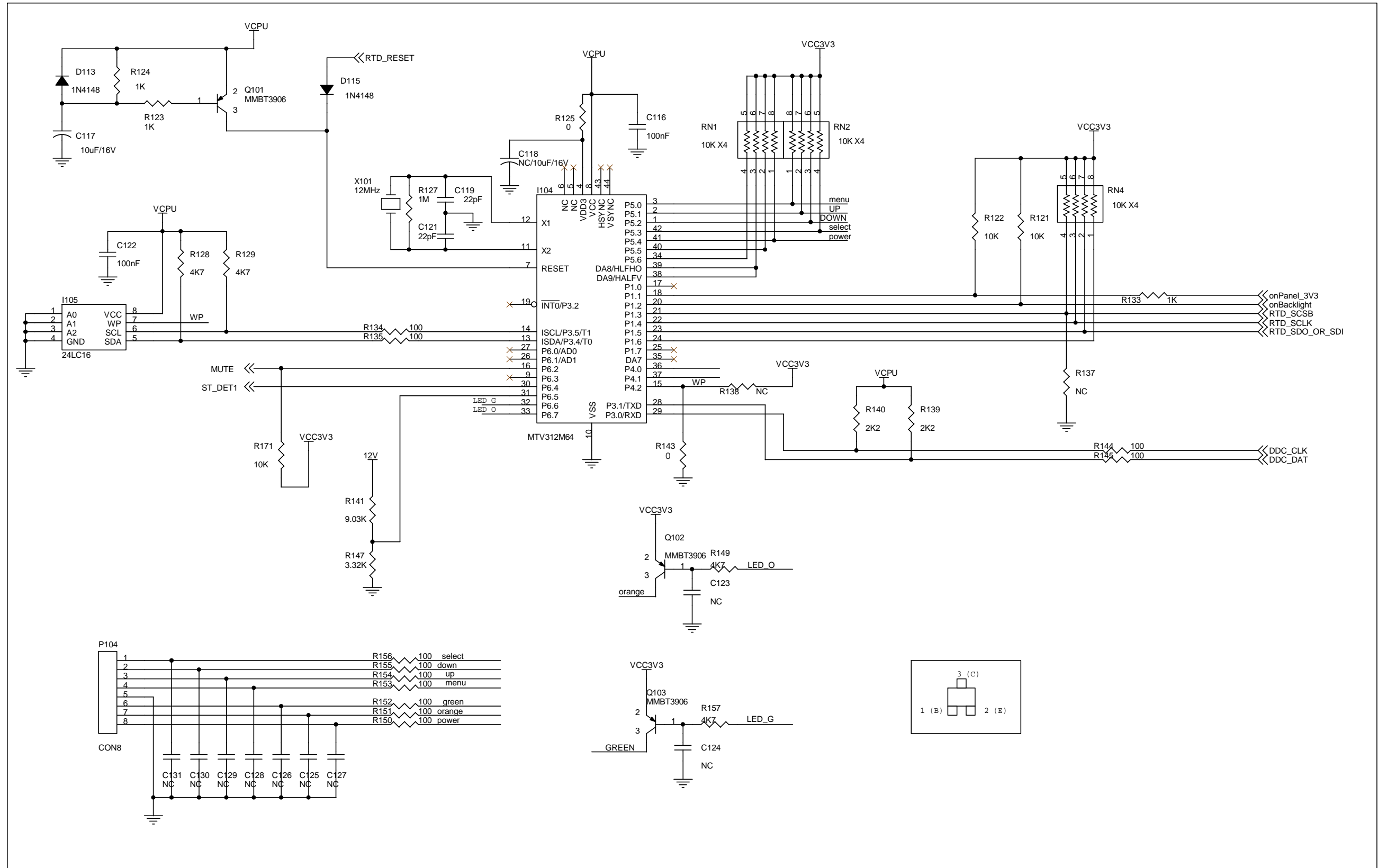


10.3. Scaler (Realtek Scaler CMO Panel)

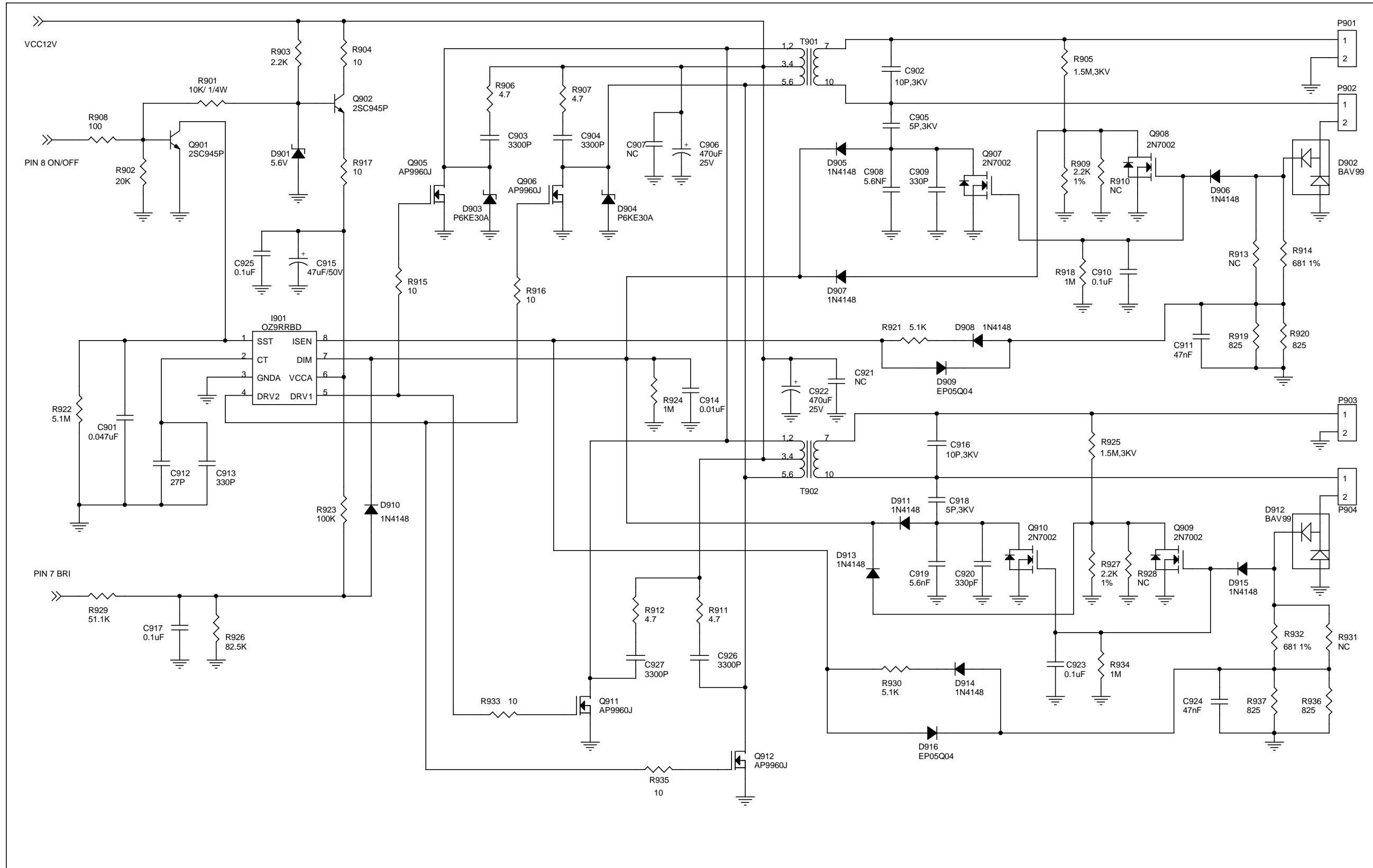


15' P106 NC , P107 CONN15x2
 17' P106 LVDS_CON30 , P107 NC

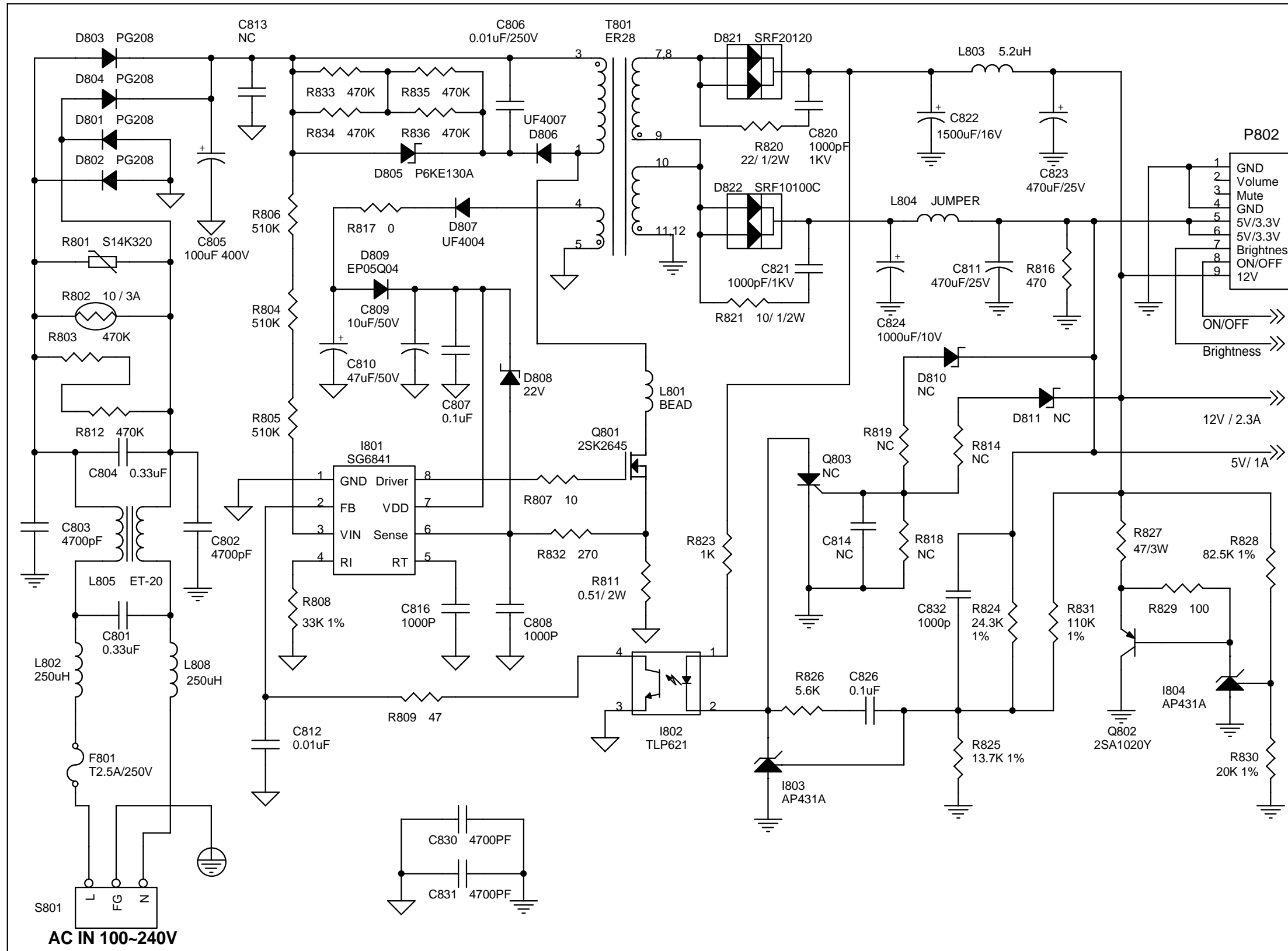
10.5. MCU (Realtek Scaler CMO Panel)



10.6. Inverter (CMO Panel)

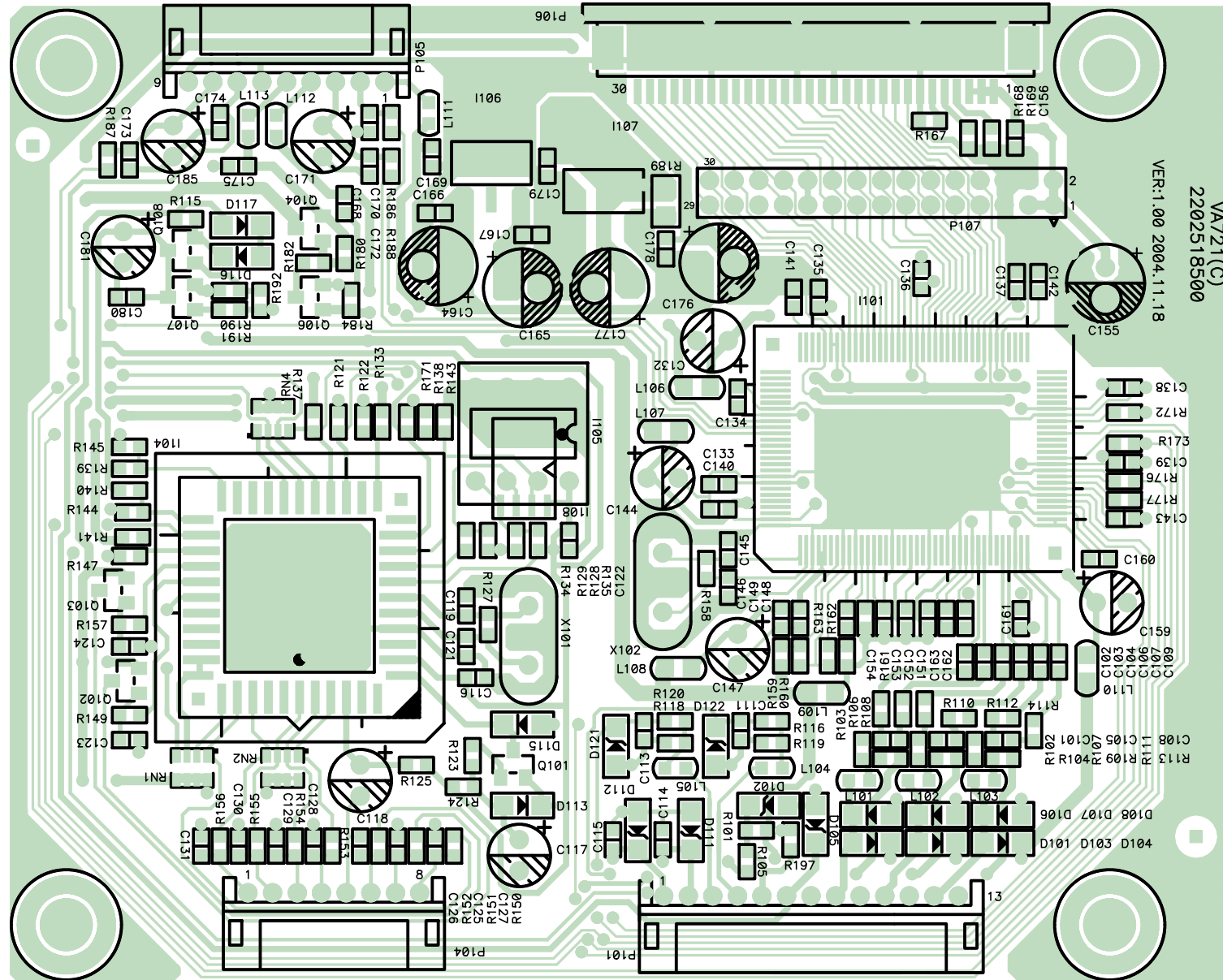


10.7. A-D Power (CMO Panel)

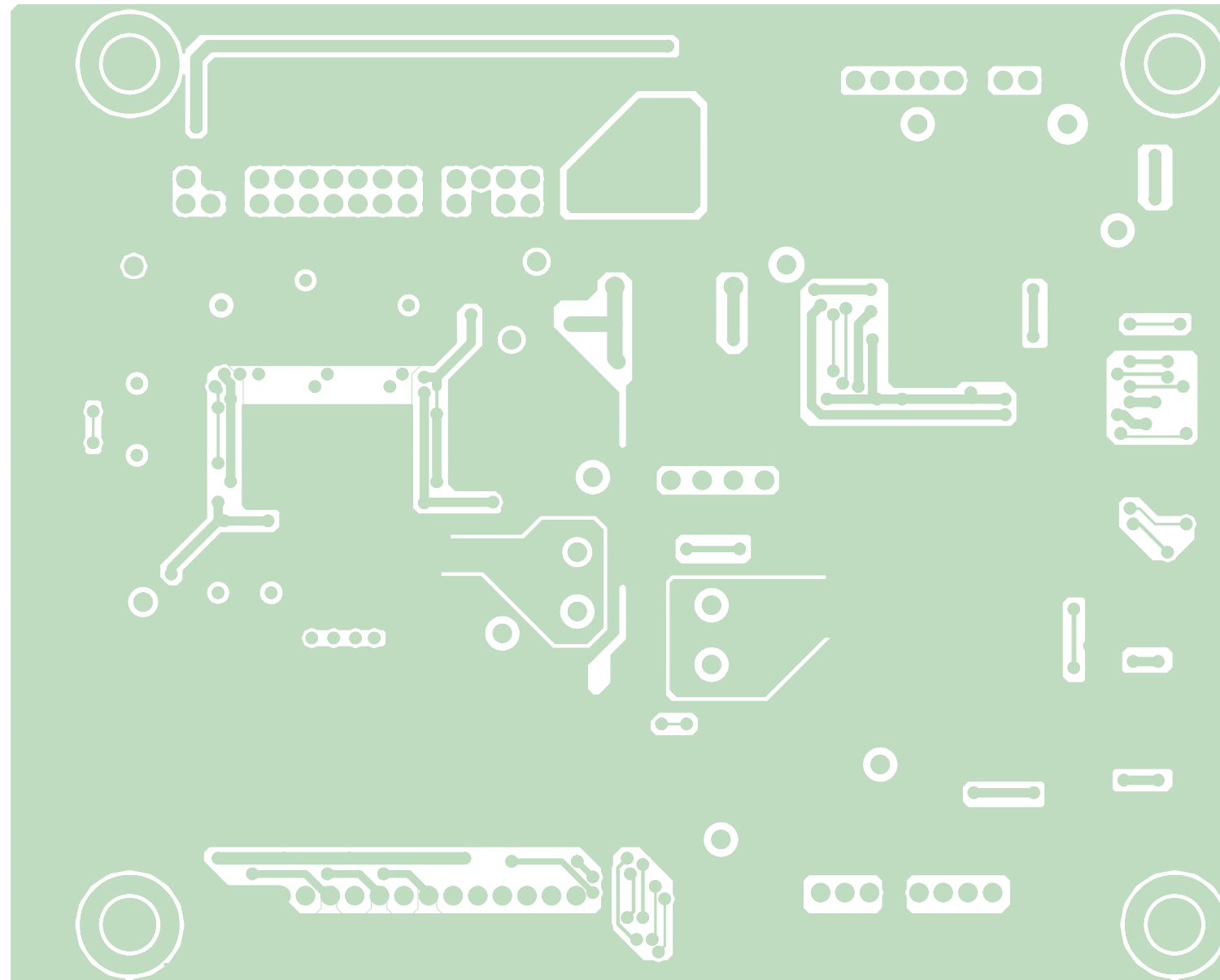


11. PCB Layout Diagrams

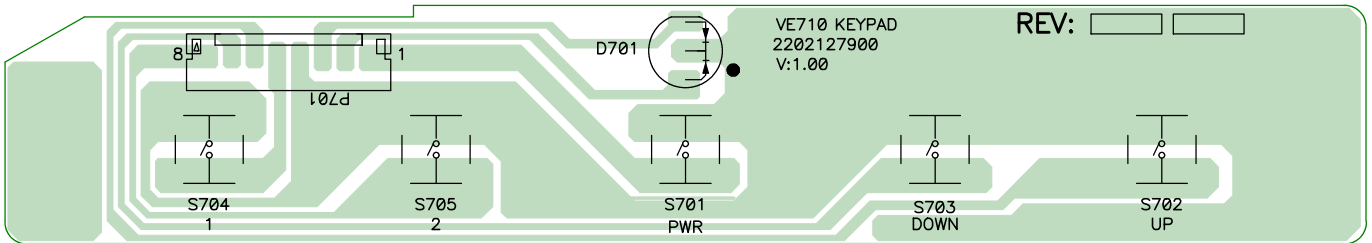
11.1. MAIN PCB TOP VIEW (Realtek Scaler CMO Panel)



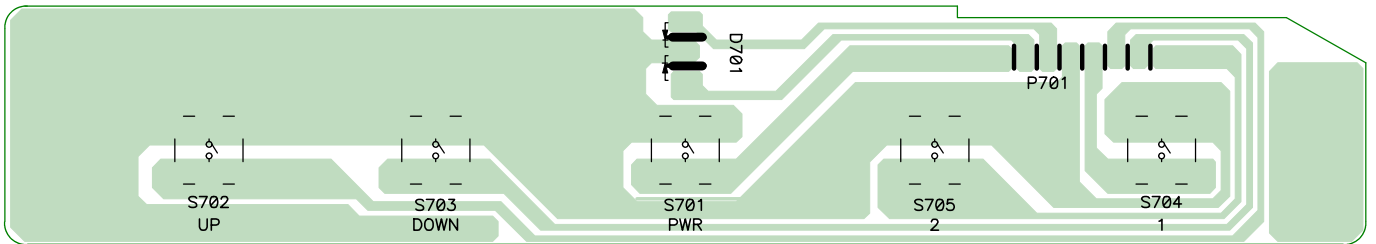
11.2. MAIN PCB BOTTOM VIEW (Realtek Scaler CMO Panel)



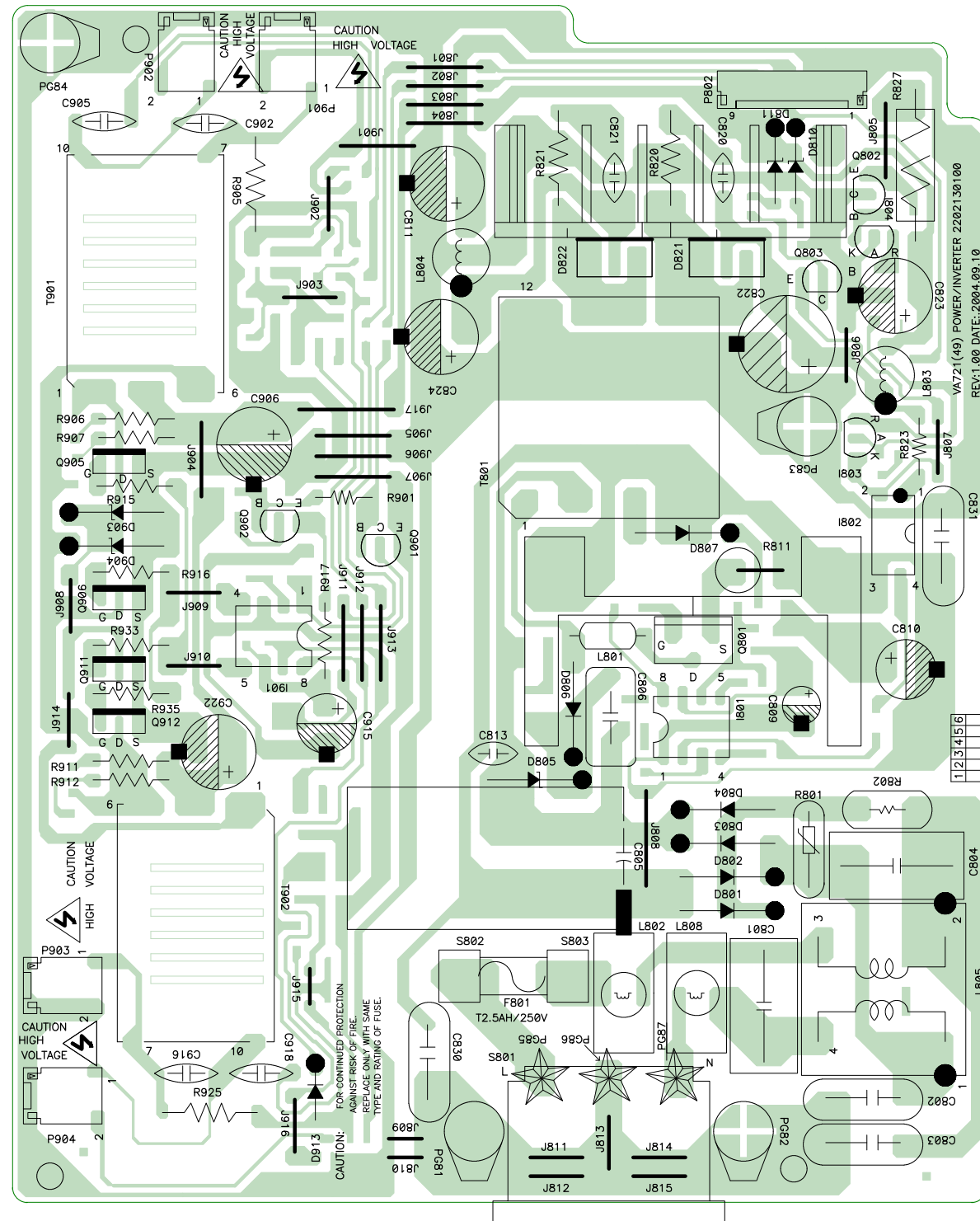
11.3. CON PCB TOP VIEW



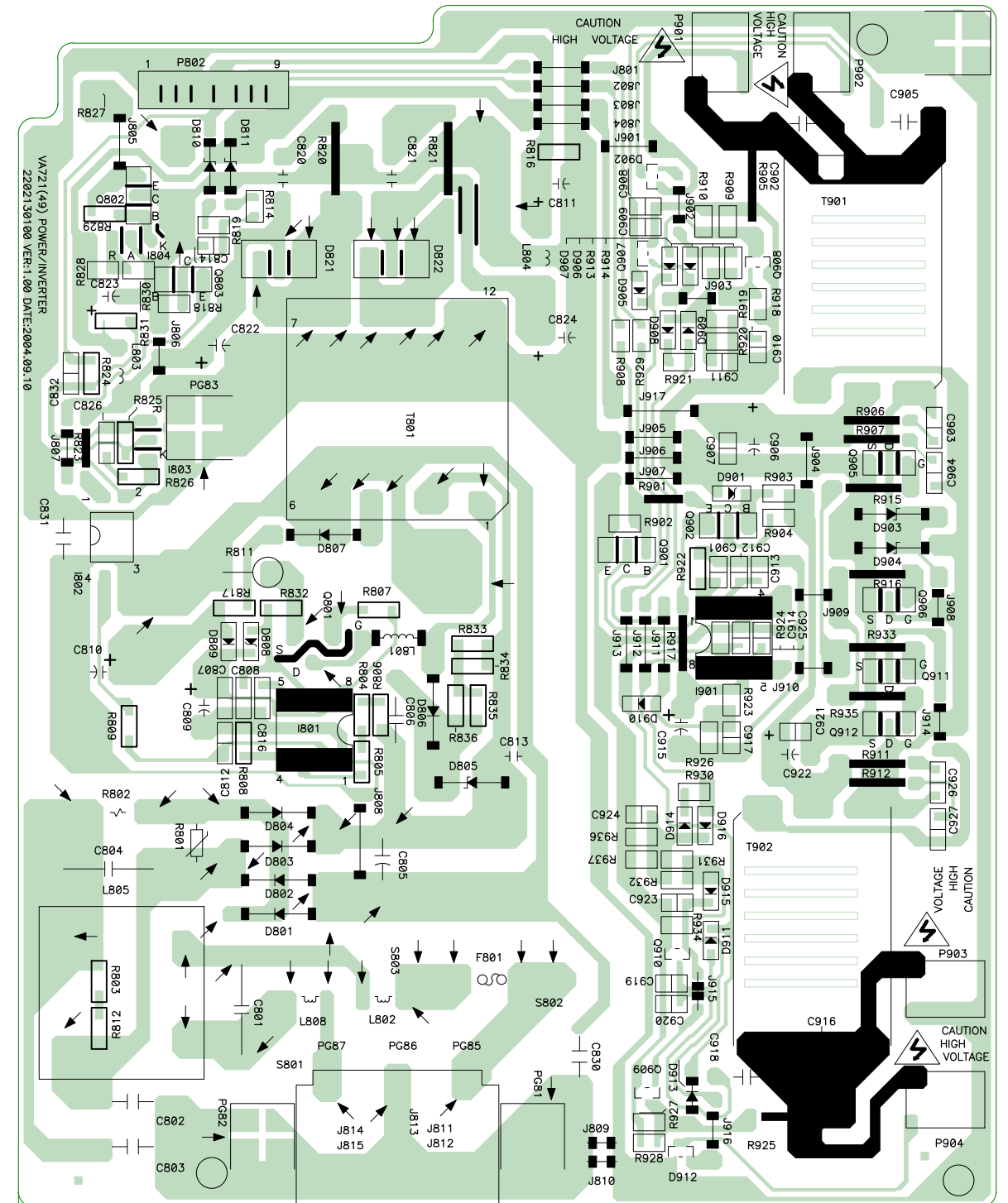
11.4. CON PCB BOTTOM VIEW



11.5. POWER PCB TOP VIEW (CMO Panel)



11.6. POWER PCB BOTTOM VIEW (CMO Panel)



Reader's Response

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content of the **VE710s/b-2/VA721** Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Precautions and Safety Notices				
2. Specification				
3. Front Panel Function Control Description				
4. Circuit Description				
5. Adjustment Procedure				
6. Troubleshooting Flow Chart				
7. Recommended Spare Parts List				
8. Exploded Diagram and Spare Parts List				
9. Block Diagram				
10. Schematic Diagrams				
11. PCB Layout Diagrams				

B. Are you satisfied with the **VE710s/b-2/VA721** Service Manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinions or suggestions regarding this service manual?

Reader's basic data:

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Company:			
Add.:			
Tel:		Fax:	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director, Quality Systems & Processes (marc.maupin@viewsonic.com)