

Acer X191W

Service Guide

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. this Service Guide provides you with all technical information relating to the BASICCONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. please not WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide, for ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and Service of customer machines.

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, Swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacture or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacture and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet area provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC) which have UL,CSA listed license

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness in the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Monitor Feature

LCD Panel	Driving system	TFT Color LCD
	Size	19"
	Pixel pitch	0.2835 mm
	Viewable angle	160(H) x 160 (V) degree
	Brightness	AUO panel: 300 cd/m2(typ.) Samsung panel: 300 cd/m2(typ.)
	Contrast Ratio	AUO panel: 800:1 (typ) Samsung panel: 1000:1(typ.)
	Response time	5ms (Tr+Tf)
Input	Video	R,G,B Analog, DVI box (optional)
	Separate Sync	H/V TTL
	H-Frequency	31-81KHZ
	V-Frequency	56-75HZ
Display Color		16.7 million Colors
Maximum Dot Clock ®		135MHz
Max Resolution		1440X900 @75HZ
Plug & Play		VESA FPMPI
EPA ENERGY STAY	ON Mode	<45W
	OFF Mode	<1W
Audio output		Rated Power 2.0W rms(Per channel)
Input Connector		D-Sub 15 pin, DVI connector (on DVI box)
Input Video Signal		Analog : 0.7Vp-p,75OHM
Screen Size (Active)	Horizontal : 408.24mm	
	Vertical : 255.15mm	
Power Source		90~264 Vac, 47~63HZ
Environmental Considerations		Operating Temp : 5 to 40 degree ; Storage Temp : -20 to 60 degree ; Operating Humidity : 20% to 80%
Weight (N.W.)		4.8kg
Dimension		447.9(W) x 377.6(H) x 189.8 (D) mm

	Switch	* Power Switch * MENU / EXIT * ^ / Volume * v / Volume * AUTO / ENTER
		* Contrast/brightness * Focus * Clock * H.Position * W.Position * Language * OSD Color temperature * OSD Position & Timeout * Auto Config * Input * Information * Reset * Exit
External Controls :		
Regulatory Compliance		cUL, FCC, TUV, CE, TCO03.

Timings

The product has 34 memory modes in total. 26 modes are preset and 8 modes are user definable.

MODE NO.	1	2	3	4
RESOLUTION	720 x 400	640 x 480	640x480	640 x 480
Dot clock(MHz)	28.321	25.175	30.24	31.5
f h	31.469kHz	31.469kHz	35.0kHz	37.861kHz
H-Total (us)	31.78(900dots)	31.778 (800 dots)	28.571(864 dots)	26.413 (832 dots)
H-Sync (us)	3.813(108dots)	3.813 (96 dots)	2.116 (64 dots)	1.270(40 dots)
H-B-P (us)	1.907(54dots)	1.907 (48 dots)	3.175 (96 dots)	4.064(128 dots)
H-Active (us)	25.42(720dots)	25.422 (640 dots)	21.164 (640 dots)	20.317(640 dots)
H-F-P (us)	0.636(18dots)	0.636 (16 dots)	2.116 (64 dots)	0.762(24 dots)
f v	70Hz(70.087)	60Hz (59.940)	66.7 HZ (66.667)	72.809Hz
V-Total (ms)	14.27(449 lines)	16.683 (525 lines)	15.000 (525 lines)	13.735(520 lines)
V-Sync (ms)	0.064(2 lines)	0.064 (2 lines)	0.086 (3 lines)	0.079(3 lines)
V-B-P (ms)	1.112(35 lines)	1.049 (33 lines)	1.114 (39 lines)	0.739(28 lines)
V-Active (ms)	12.71(400 lines)	15.253 (480 lines)	13.714 (480 lines)	12.678(480 lines)
V-F-P (ms)	0.384(12 lines)	0.317 (10 lines)	0.086 (3 lines)	0.237(9 lines)
SYNC. H/V	-/+	- / -	+/+	-/-
POLARITY			Or -/-	
SEP . SYNC	Y	Y	Y	Y

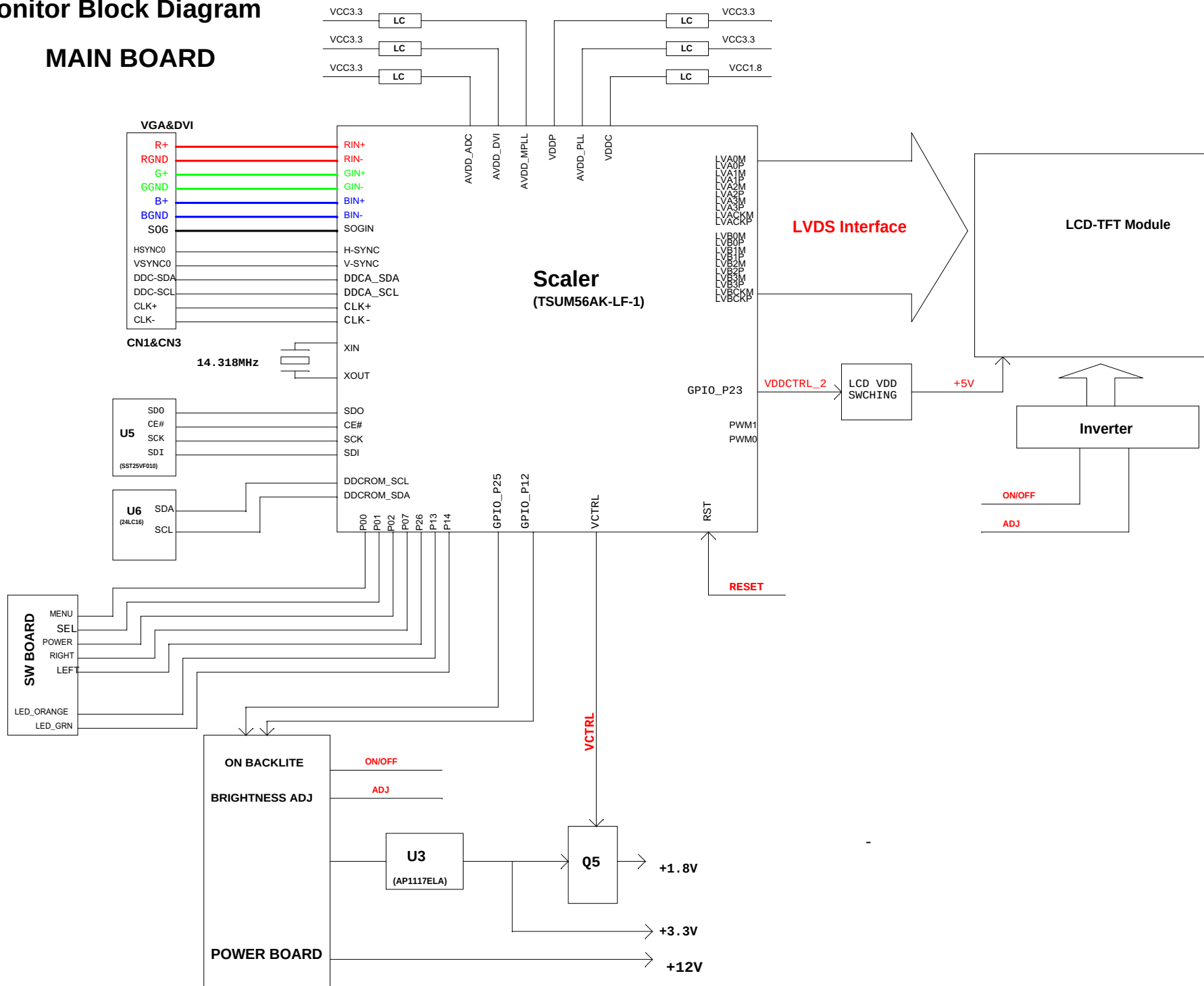
MODE NO.	5	6	7	8
RESOLUTION	640 x 480	800 x 600	800 x 600	800 x 600
Dot clock(MHz)	31.5	36	40	49.5
f h	37.500kHz	35.16kHz	37.879kHz	46.875kHz
H-Total (us)	26.667(840 dots)	28.44(1024 dots)	26.40 (1056 dots)	21.333 (1056dots)
H-Sync (us)	2.032 (64 dots)	2.00(72 dots)	3.200 (128 dots)	1.616 (80 dots)
H-B-P (us)	3.810 (120 dots)	3.56(128 dots)	2.200 (88 dots)	3.232 (160 dots)
H-Active (us)	20.317 (640 dots)	22.22(800 dots)	20.00 (800 dots)	16.162 (800 dots)
H-F-P (us)	0.508 (16 dots)	0.67(24 dots)	1.000 (40 dots)	0.323 (16 dots)
f v	75Hz (75)	56.25	60Hz (60.316)	75Hz (75.000)
V-Total (ms)	13.333 (500 lines)	17.78(625 lines)	16.58 (628 lines)	13.333 (625lines)
V-Sync (ms)	0.080 (3 lines)	0.06(2 lines)	0.106 (4 lines)	0.064 (3 lines)
V-B-P (ms)	0.427 (16 lines)	0.63(22 lines)	0.607 (23 lines)	0.448 (21 lines)
V-Active (ms)	12.80 (480 lines)	17.07(600 lines)	15.84 (600 lines)	12.80 (600lines)
V-F-P (ms)	0.027 (1 line)	0.03(1 line)	0.026 (1 line)	0.021 (1 line)
SYNC. H/V	- / -	+/+	+ / +	+ / +
POLARITY				
SEP . SYNC	Y	Y	Y	Y
MODE NO.	9	10	11	12
RESOLUTION	800 x 600	832 x 624	1024 x 768	1024 x 768
Dot clock(MHz)	50	57.283	65	75
f h	48.077kHz	49.72kHz	48.363kHz	56.48kHz
H-Total (us)	20.80 (1040dots)	20.11(1152 dots)	20.677(1344 dots)	17.71(1328 dots)
H-Sync (us)	2.400 (120 dots)	1.12(64 dots)	2.092(136 dots)	1.81(136 dots)
H-B-P (us)	1.280 (64 dots)	3.91(224 dots)	2.462(160 dots)	1.92(144 dots)
H-Active (us)	16.00 (800 dots)	14.52(832 dots)	15.754(1024 dots)	13.65(1024 dots)
H-F-P (us)	1.120 (56 dots)	0.56(32 dots)	0.369(24 dots)	0.32(24 dots)
f v	72Hz (72.188)	74.55Hz	60.004Hz	70.07Hz
V-Total (ms)	13.85 (666 lines)	13.41(667 lines)	16.666(806 lines)	14.27(806 lines)
V-Sync (ms)	0.125 (6 lines)	0.06(3 lines)	0.124(6 lines)	0.11(6 lines)
V-B-P (ms)	0.478 (23 lines)	0.78(39 lines)	0.600(29 lines)	0.51(29 lines)
V-Active (ms)	12.48 (600 lines)	12.55 (624 lines)	15.880(768 lines)	13.60(768 lines)
V-F-P (ms)	0.770 (37 line)	0.02(1 line)	0.062(3 lines)	0.05(3 lines)
SYNC. H/V	+ / +	+/+	-/-	-/-
POLARITY				
SEP . SYNC	Y2	Y	Y	Y

MODE NO.	13	14	15	16
RESOLUTION	1024 x 768	1280 x 1024	1280 x 1024	1152 x 864
Dot clock(MHz)	78.75	108	135	108
f h	60.02kHz	63.981kHz	79.976KHz	67.5 KHz
H-Total (us)	16.66(1312 dots)	15.630 (1688 dots)	12.504 (1688 dots)	14.815(1600 dots)
H-Sync (us)	1.22 (96 dots)	1.037 (112 dots)	1.067 (144 dots)	1.185(128 dots)
H-B-P (us)	2.23 (176 dots)	2.296 (248 dots)	1.837 (248 dots)	2.370(256 dots)
H-Active (us)	13.00 (1024 dots)	11.852 (1280 dots)	9.481 (1280dots)	10.667(1152 dots)
H-F-P (us)	0.20 (16 dots)	0.444 (48 dots)	0.119 (16 dots)	0.593(64 dots)
f v	75.03Hz	60.020Hz	75.025 Hz	75.06 Hz
V-Total (ms)	13.33 (800 lines)	16.661 (1066 lines)	13.329 (1066 lines)	13.333(900 lines)
V-Sync (ms)	0.05 (3 lines)	0.047 (3 lines)	0.038 (3 lines)	0.044(3 lines)
V-B-P (ms)	0.47 (28 lines)	0.594 (38 lines)	0.475 (38 lines)	0.474(32 lines)
V-Active (ms)	12.80 (768 lines)	16.005 (1024 lines)	12.804(1024 lines)	12.800(864 lines)
V-F-P (ms)	0.02 (1 lines)	0.016 (1 line)	0.013 (1 lines)	0.015(1 lines)
SYNC. H/V	+/+	+/+	+/+	+/+
SEP . SYNC	Y	Y	Y	Y
MODE NO.	17	18	19	20
RESOLUTION	1280 x 960	1280 x 720	1280 x 768	1280 x 768
Dot clock(MHz)	108	74.481	79.5	102.25
f h	60.000 KHz	44.760KHz	47.776KHz	60.289KHz
H-Total (us)	16.667 (1800dots)	22.341 (1664dots)	20.931 (1664dots)	16.587 (1696dots)
H-Sync (us)	1.037 (112 dots)	1.826 (136 dots)	1.61 (128 dots)	1.252 (128 dots)
H-B-P (us)	2.889 (312 dots)	2.578 (192 dots)	2.415 (192 dots)	2.034 (208 dots)
H-Active (us)	11.852 (1280 dots)	17.186 (1280 dots)	16.101 (1280 dots)	12.518 (1280 dots)
H-F-P (us)	0.889 (96 dots)	0.752 (56 dots)	0.805 (64 dots)	0.782 (80 dots)
f v	60.00Hz	60.000Hz	59.87Hz	74.893Hz
V-Total (ms)	16.667 (1000 lines)	16.667 (746 lines)	16.703 (798 lines)	13.352 (805 lines)
V-Sync (ms)	0.050 (3 lines)	0.067 (3 lines)	0.147 (7 lines)	0.116 (7 lines)
V-B-P (ms)	0.600 (36 lines)	0.492 (22 lines)	0.419 (20 lines)	0.448 (27 lines)
V-Active (ms)	16.000 (960 lines)	16.086 (720 lines)	16.075 (768 lines)	12.739 (768 lines)
V-F-P (ms)	0.017 (1 line)	0.022 (5 lines)	0.063 (3 lines)	0.05 (3 lines)
SYNC. H/V	+ / +	- / +	-/+	-/+
POLARITY				
SEP . SYNC	Y	—	Y	Y

MODE NO.	21	22	23	24
RESOLUTION	1360 x 768	1440 x 900	1440 x 900	848 x 480
Dot clock(MHz)	85.5	106.5	136.75	33.75
f h	47.712KHz	55.935KHz	70.635KHz	31.02 KHz
H-Total (us)	20.959 (1792dots)	17.878 (1904dots)	14.157 (1936dots)	32.237 (1088 dots)
H-Sync (us)	1.31 (112 dots)	1.427 (152 dots)	1.112 (152 dots)	3.319 (112 dots)
H-B-P (us)	2.994 (256 dots)	2.178 (232 dots)	1.814 (248 dots)	3.319 (112 dots)
H-Active (us)	15.906 (1360 dots)	13.521 (1440 dots)	10.53 (1440 dots)	25.126 (848 dots)
H-F-P (us)	0.749 (64 dots)	0.751 (80 dots)	0.702 (96 dots)	0.474 (16 dots)
f v	60.015Hz	59.887Hz	74.984Hz	60 Hz
V-Total (ms)	16.662 (795 lines)	16.698 (934 lines)	13.336 (942 lines)	16.667 (517 lines)
V-Sync (ms)	0.126 (6 lines)	0.107 (6 lines)	0.085 (6 lines)	0.258 (8 lines)
V-B-P (ms)	0.377 (18 lines)	0.447 (25 lines)	0.467 (33 lines)	0.741 (23 lines)
V-Active (ms)	16.097 (768 lines)	16.09 (900 lines)	12.741 (900 lines)	15.474 (480 lines)
V-F-P (ms)	0.063 (3 lines)	0.054 (3 lines)	0.042 (3 lines)	0.193 (6 lines)
SYNC. H/V	+ / +	-/+	-/+	+ / +
POLARITY				
SEP . SYNC	Y	Y	Y	Y

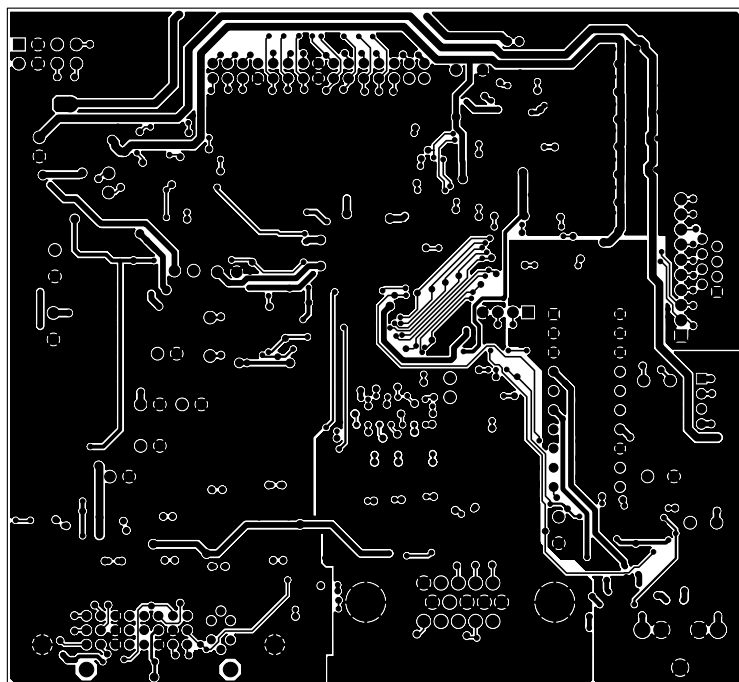
A : H-Total O : V-Total
 B : H- Sync width P : V- Sync width
 C : H- Back porch Q : V- Back porch
 D : H- Video width R : V- Video width
 E : H- Front porch S : V- Front porch

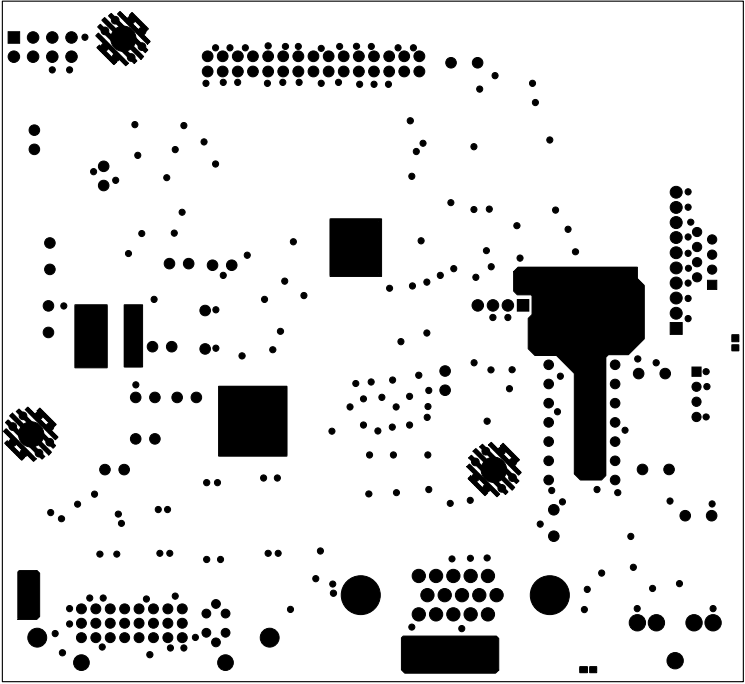
MAIN BOARD

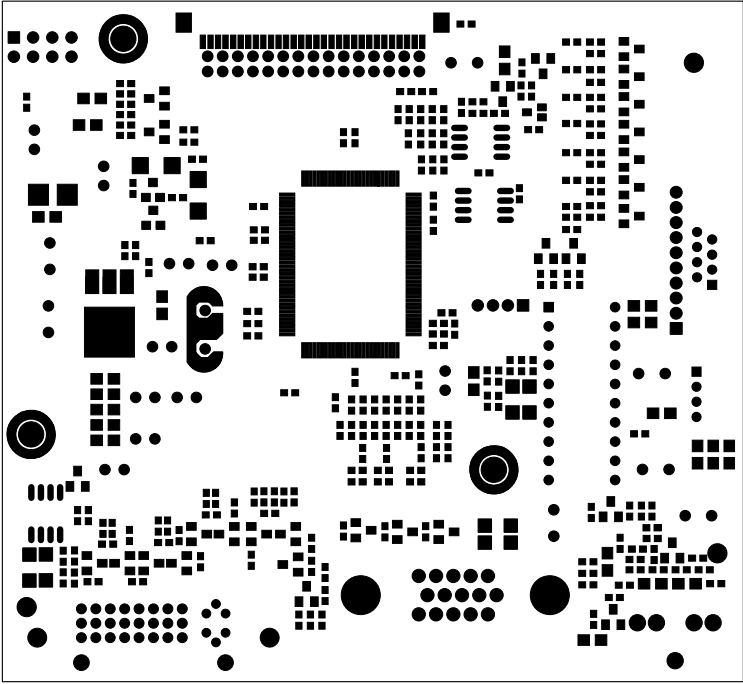


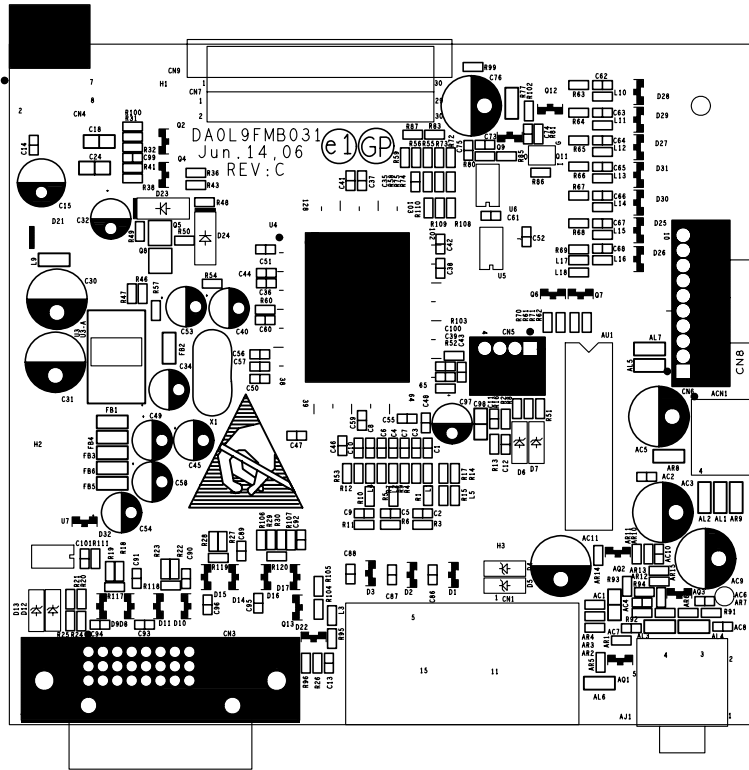
PCB CONDUCTOR VIEW

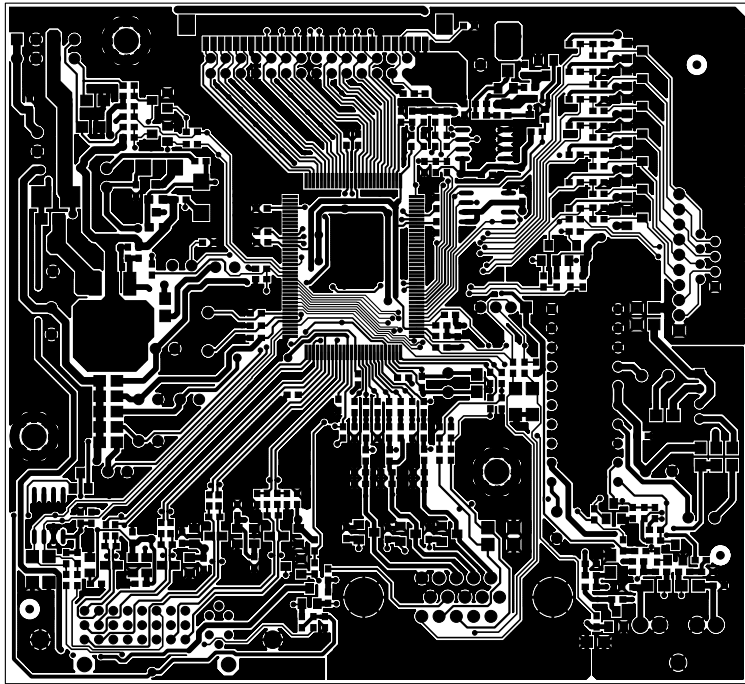
MAIN BOARD



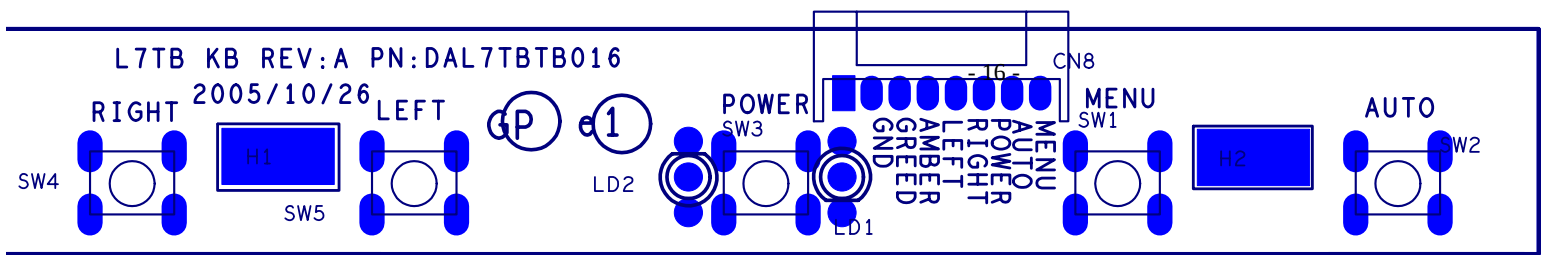




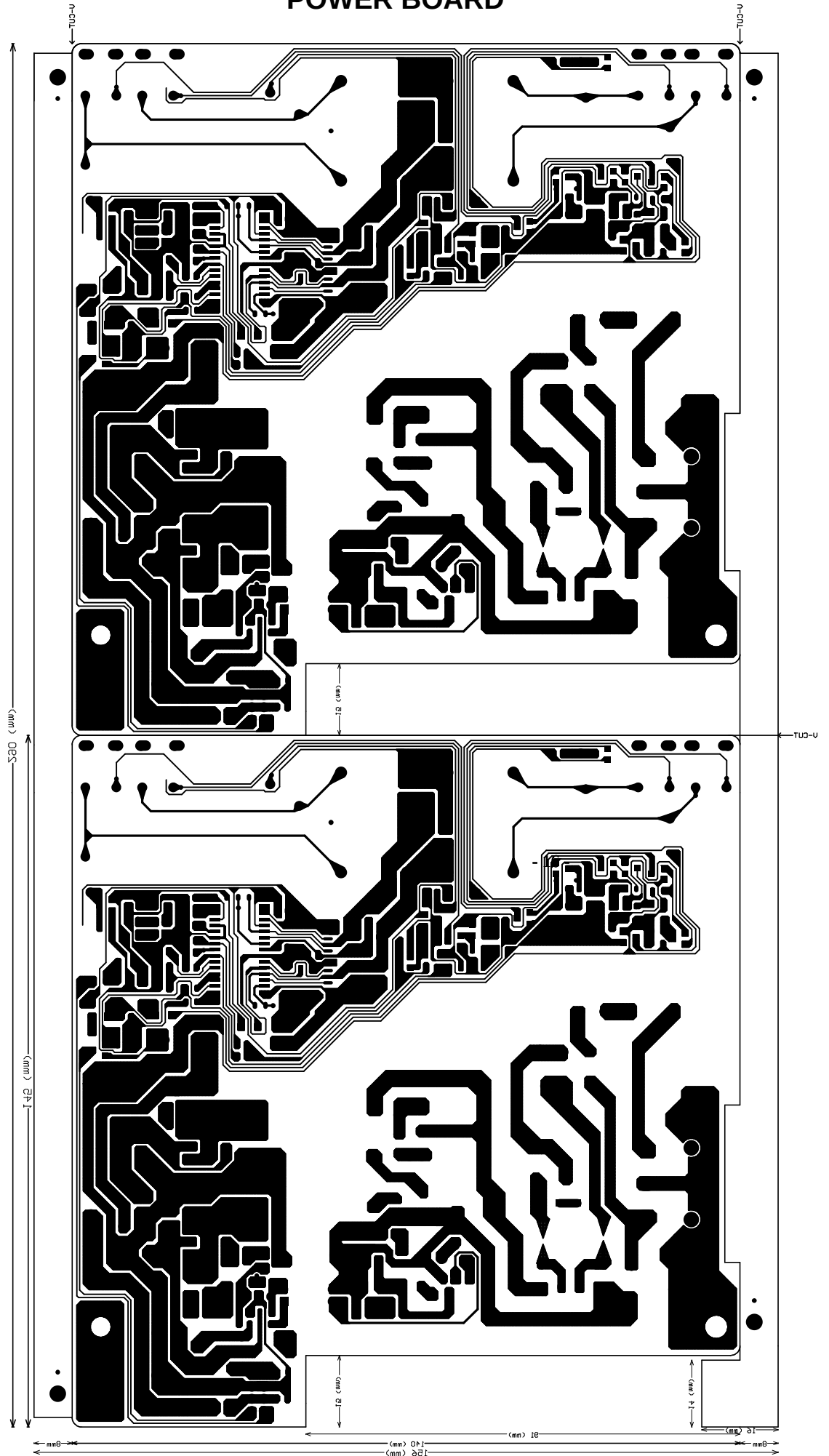


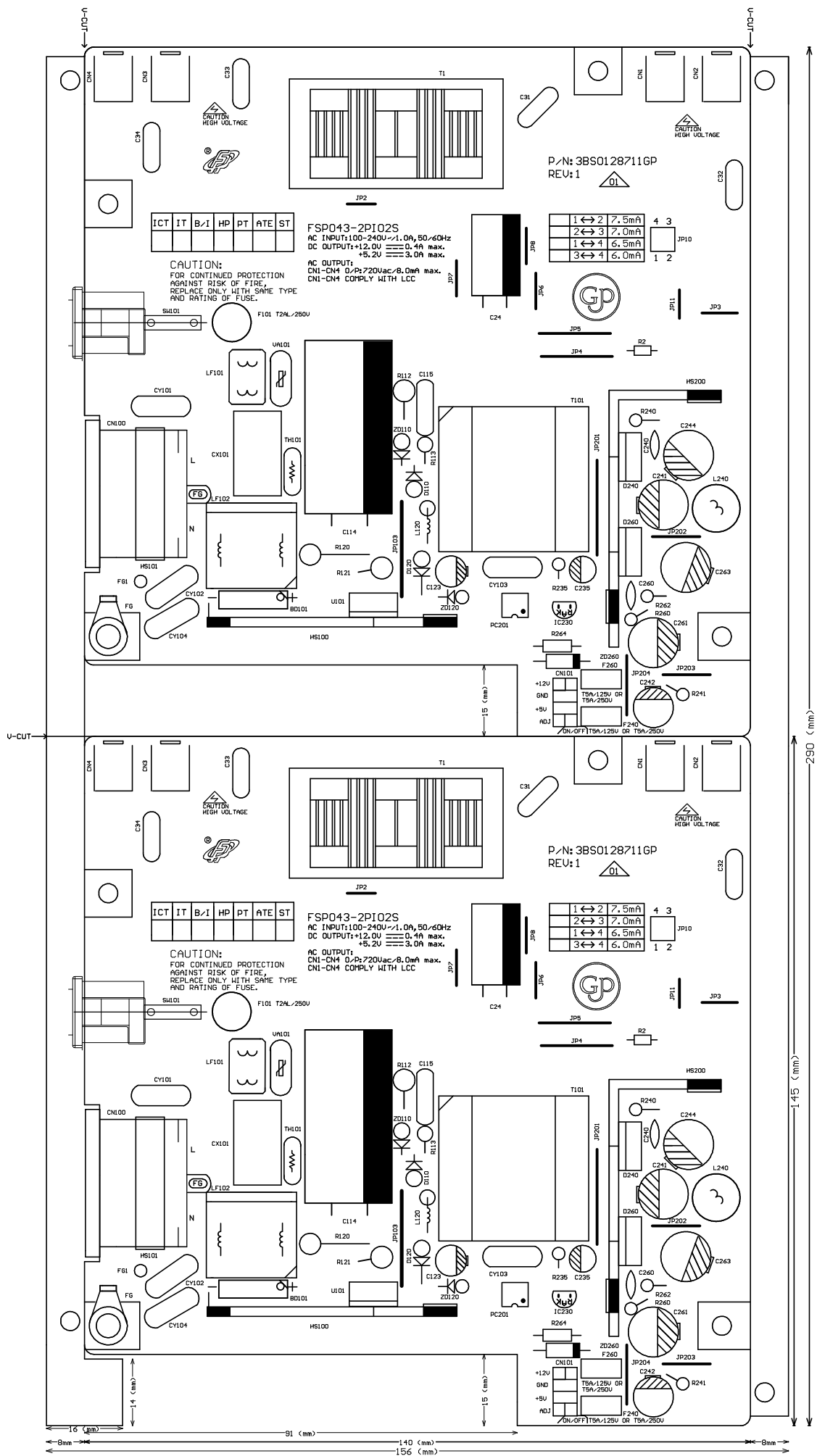


BUTTON BOARD



POWER BOARD





OPERATING INSTRUCTIONS

Front Panel Definition

This Section defines the front panel User Interface for Led Indicator and Key function.

Key Definition:

There are five keys defined in this system and described bellows.

External Controls

1		POWER	Power on/off Blue: power on Orange: in sleep mode
2	MENU	OSD Function	Press to view OSD. Press again to exit a selection in OSD.
3		UP/ PLUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the button  or  to adjust the volume.
4		DOWN / MINUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the button  or  to adjust the volume.
5	AUTO	AUTO	If OSD is active, press to enter a selection in OSD. If OSD is inactive, press and the monitor will automatically optimize the position, focus and clock of your display.

OSD Menu



Picture

Brightness:

This adjusts the brightness of the picture on the screen.

Contrast:

This adjusts dark and light shades of color relative to each other to achieve a comfortable contrast.

Focus:

This removes any horizontal distortion and makes the picture clear and sharp.

Clock:

If there are any vertical stripes seen on the background of the screen this renders them less noticeable by minimizing their size. It also changes the size of the horizontal screen

H-Position:

This adjusts the horizontal screen position.

V-Position:

This adjusts the vertical screen position.

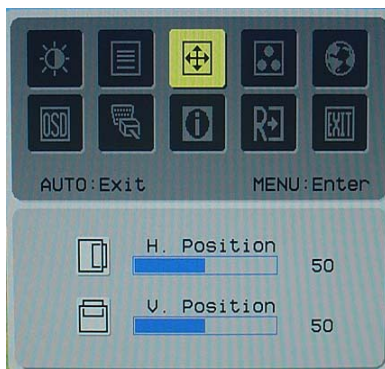
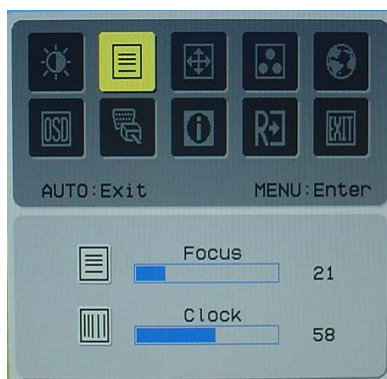
Color temp. :

There are three ways of adjusting color:

Warm (Reddish white)

Cool (Bluish white)

User : You can adjust the colors red, green and blue to the intensity you desire.





Option

Auto Config. :

System choose signal "Analog or Digital"

Reset:

Recall to default settings.



Information:

This shows brief information on the screen.



Setting

Language:

Select the OSD menu language from

English, French, German, Italian, Spanish, Simplified Chinese, Traditional Chinese, Japanese and Russian.

OSD H. Position

OSD V. Position

OSD Time-out

This changes the position of the OSD window on the screen and staying time.



LED Definition

The system equips one dual color (blue/amber) led to indict system status and defined as bellows :

LED Color	System Status
Blue	System in normal operation mode
Amber	System in power-saving mode
Dark	System in power-off mode

LOGO :

When the monitor is power on, the LOGO will be showed in the center, and disappear slowly.



HOW TO OPTIMIZE THE DOS-MODE

Plug and play

Plug & play DDC2B feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC2B.

The DDC2B is a bi-directional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association(VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

USING THE RIGHT POWER CORD

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volt AC.

Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V,CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.

Please note that power supply card needs to use VDE 0602, 0625, 0821 approval power cord in European countries.

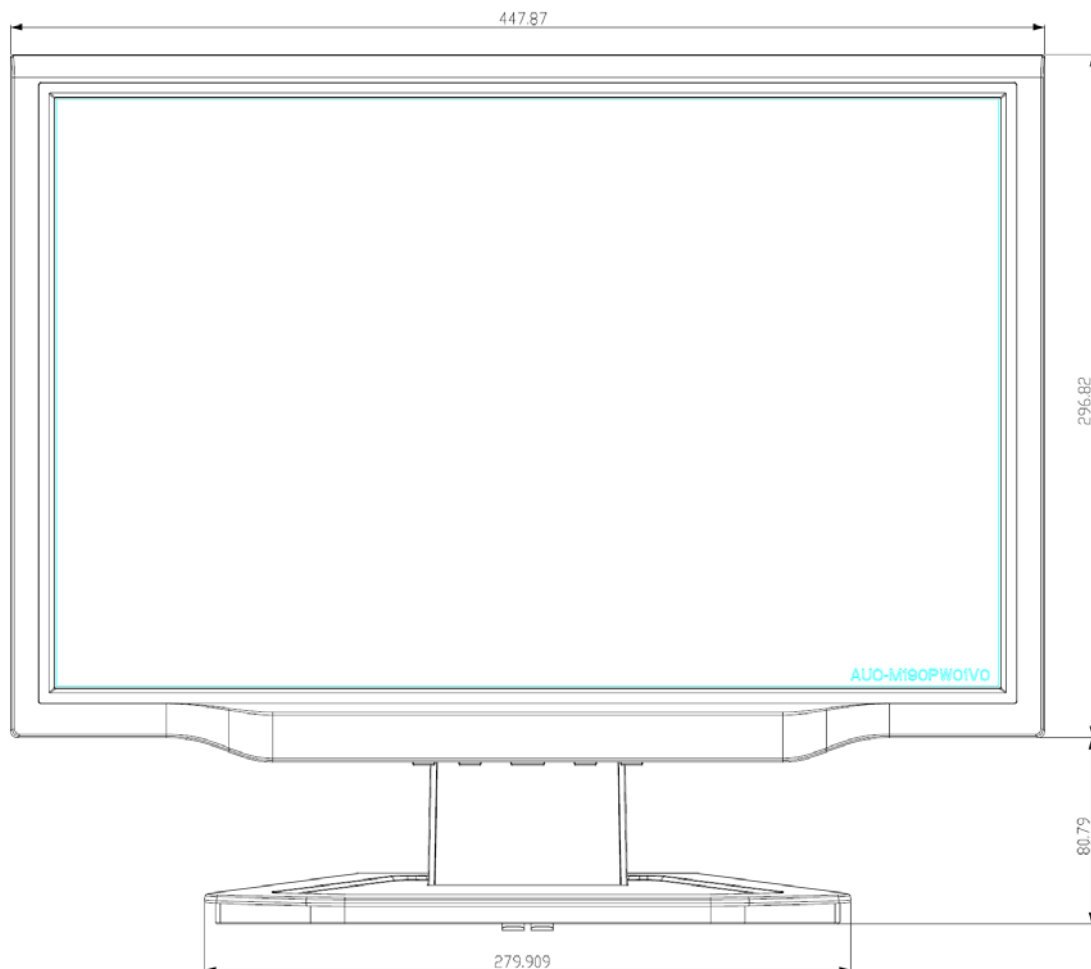
Chapter 3

Machine assembly

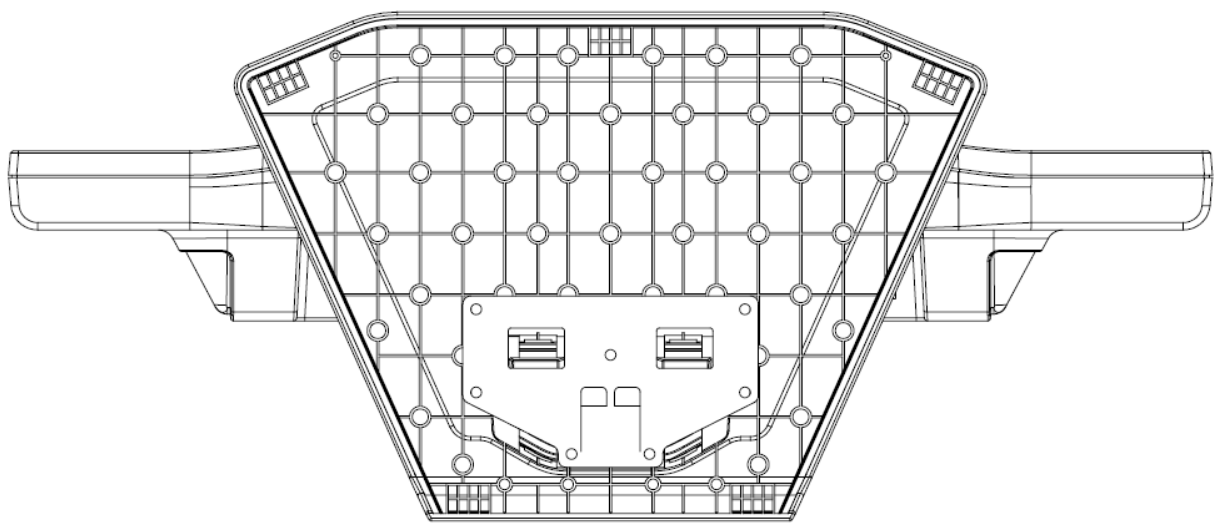
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

- NOTE :** 1. The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding to avoid mismatch when putting back the components.
2. Note : The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.
3. Wear gloves.

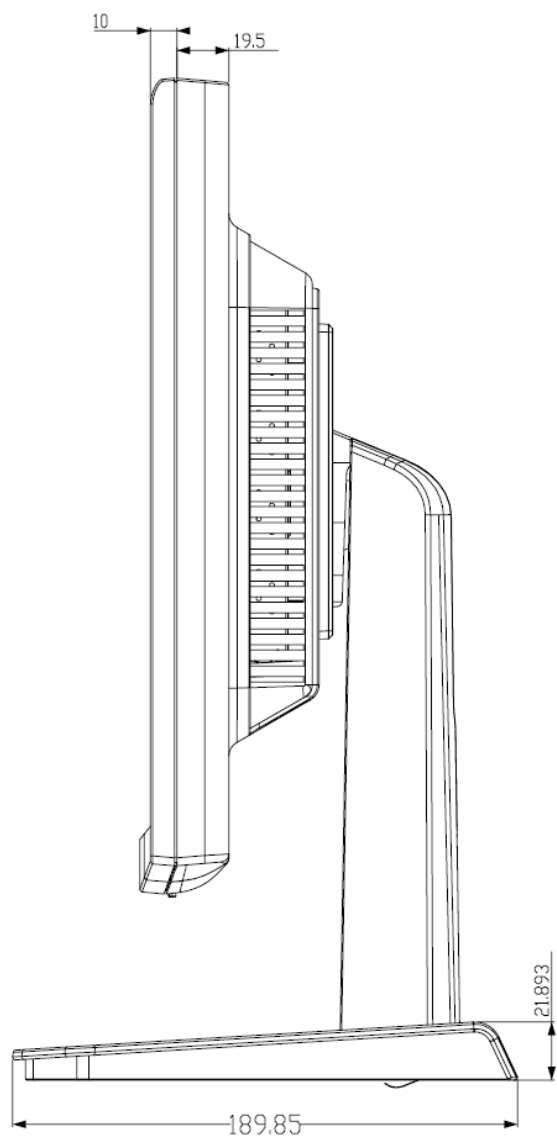
Front View: (unit : mm)



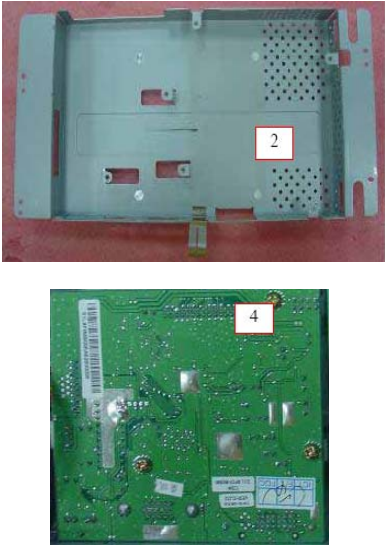
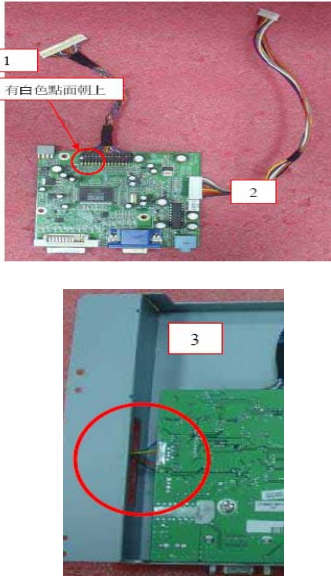
Bottom View:

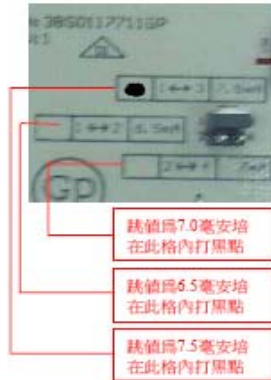


Side View:



Assembly process

Picture	Description
	PUT THE PROTENT FOAM ON THE PRODUCTION LINE CHECKING THE PCB SHIELDING AND PUT IT TO PRODUCTION LINE CHECKING THE MAIN BOARD AND PUT IT TO PRODUCTION LINE
	GET THE LVDS CABLE AND INSERT IT TO THE SINK OF MAIN BOARD GET BUTTON CABLE AND INSET IT TO THE SINK OF MAIN BOARD PUT THE MAIN BOARD INTO THE PCB SHIELDING AND SETTLE THE BUTTON CABLE



GET THE POWER BOARD AND PUT THE CABLE TO THE LOCATION WHICH APPOINTED

CONNECT THE CABLE AND POWER BOARD BY WHITE GLUE

MARK THE APPOINTED LOCATION AS LEFT PICTURE SHOW

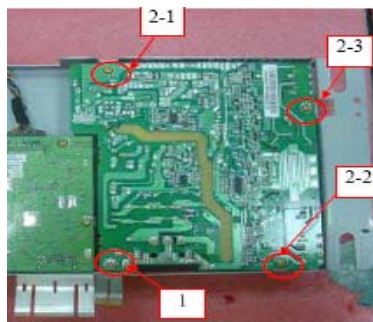
AFTER FINISHED ABOVE STEPS, PUT THE POWER BOARD TO THE PRODUCTION LINE



彈片如圖放於隔離罩DVI插孔

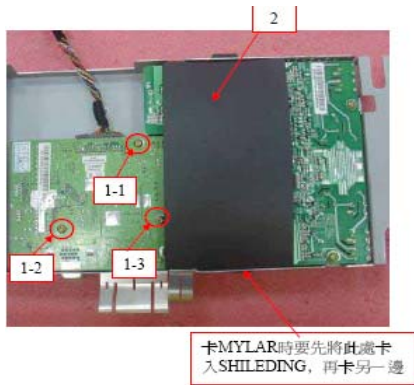
CONNECT THE MAIN BOARD AND POWER BOARD AND PUT THEM IN TO THE PCB SHIELDING

PUT THE SPRING TO THE DVI SINK OF THE PCB SHIELDING



LOCKUP THE LOCATION OF POWER BOARD BY A SCREW(M4*8-B) AS LEFT PICTURE SHOW

LOCKUP THE LOCATION OF POWER BOARD BY THREE SCREWS(F3*6-T) AS LEFT PICTURE SHOW



LOCKUP THE LOCATION OF MAIN BOARD BY THREE SCREWS(F3.0*6.0-T) AS LFET PICTURE SHOW

GET THE MYLAR CARD AND INSERT IT TO THE SHIELDING

PUT THE SHIELDING ON FRONT OF PRODUCTION LINE

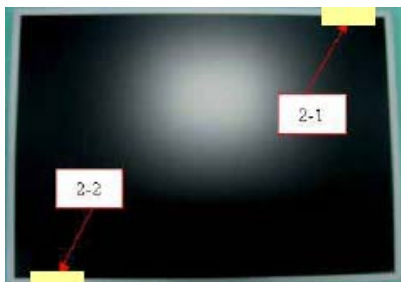


GET THE PANEL AND TEAR OFF THE GOOEY

TURE OVER THE LCD AND TEAR OFF THE GOOEY

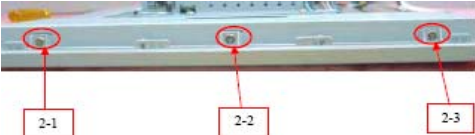


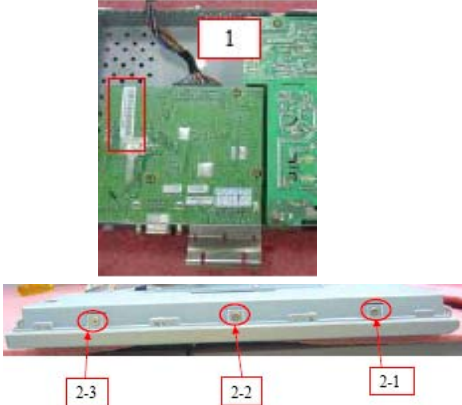
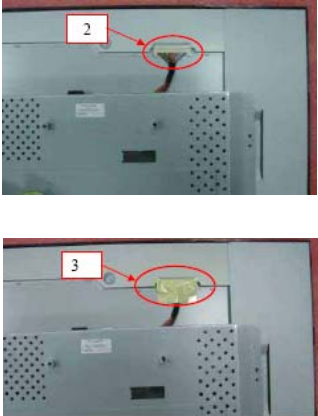
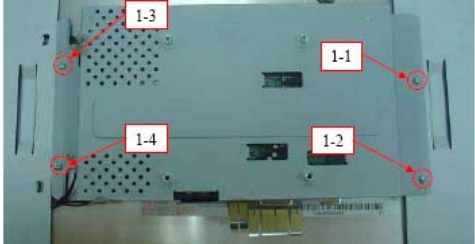
TEAR OFF THE PLASTIC FILM AND CHECKING IF ANY SPOT AND SCRAPE

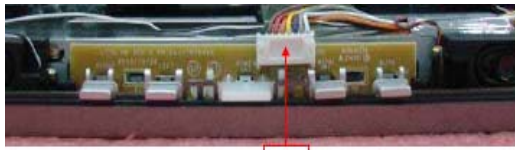


STICK ON THE PLASTIC FILM BY GOOEY

TURE OVER THE LCD

 	TEAR OFF CODE FROM FLOW AND STICK ON THE LOCATION, THEN SCAN IT INTO THE TMS GET LEFT BRACKET AND LOCKUP THE PANEL WITH TWO SCREWS(M3.0*3.0-I)
	GET THE RIGHT BRACKET AND LOCKUP THE PANEL WITH TWO SCREWS(M3.0*3.0-I) TURN OVER THE LCD AND TEAR OFF THE PLASTIC FILM
	GET THE FRONT BEZEL AND CHECKING PUT THE BEZEL TO PANEL AND STICK THE PLASTIC FILM ON THE BEZEL
 	SCAN THE CODE OF FLOW CARD AND POWER BOARD LOCK UP THE RIGHT SIDE OF BEZEL WITH THREE SCREWS(M3*3-I) AS LEFT PICTURE SHOW

	SCAN CODE OF THE FLOW CARD AND MAIN BOARD LOCK UP THE LEFT SIDE OF BEZEL WITH THREE SCREWS
	PUT THE SHIELDING ON THE LEFT AND RIGHT BRACKET INSERT THE LCD CABLE TO THE SINK OF LCD STICK ON LCD CABLE WITH 1*PCS GOOEY SETTLE THE CABLE OF SHILDING
	LOCK UP THE SHIELDING WITH FOUR SCREWS(M3.0*4.0-B)



1

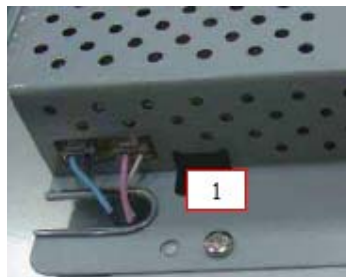


2

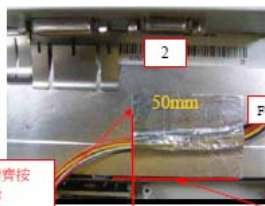


GET THE BUTTON BOARD AND
INSERT THE BUTTON CABLE TO THE
SINK OF BUTTON

PUT THE BUTTON BOARD TO THE
BEZEL



1



2

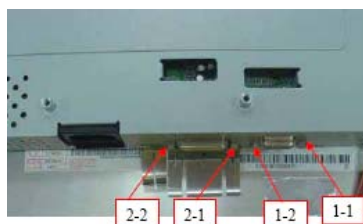
左邊緣對齊按
鍵板邊緣

FCM7T004014

底邊緣對齊
PANEL邊緣

INSERT THE UPSIDE LAMP CABLE TO
THE POWER BOARD

SETTLE THE CABLE OF BUTTON
BOARD AND STICK ON THE
LOCATION OF BUTTON CABLE WITH
1*PCS AL FOIL

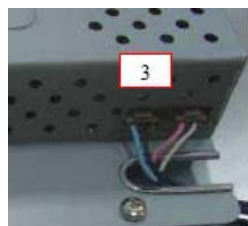


2-2

2-1

1-2

1-1

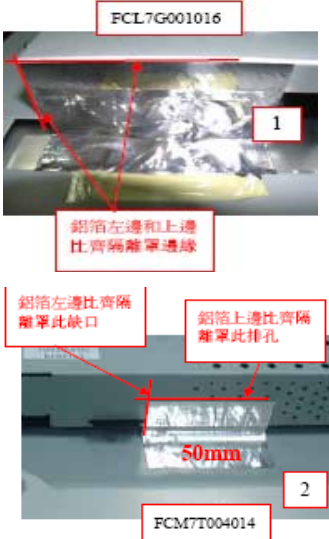


3

LOCK UP THE VGA OF MAIN BOARD
WITH TWO IO-NUT

LOCK UP THE DVI OF MAIN BOARD
WITH TWO IO-NUT

INSERT THE DOWNSIDE LAMP CABLE
TO THE POWER BOARD

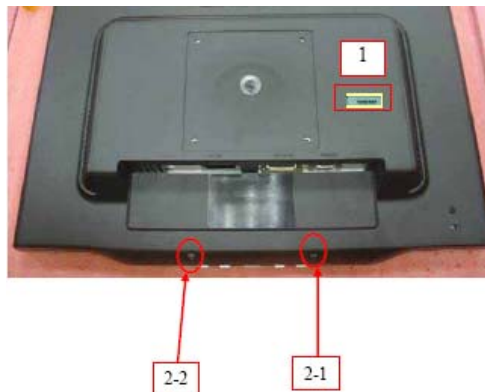
	STICK ON THE LOCATION WITH 1*PCS AL FOIL AS LEFT PICTURE SHOW STICK ON THE LOCATION WITH 1*PCS AL FOIL AS LEFT PICTURE SHOW
	CHECKING THE SHIELDING, BEZEL, BRACKET, BUTTON BOARD, IO NUT WHETHER NOT LOCK UP CHECKING BUTTON BOARD, SPEAKER CABLE WHETHER NOT INSERTING CHECKING AL FOIL WHETHER NOT SETTLE CHECKING THE SPRING WHETHER UNSTUCK CHECKING THE LOCATION OF GOOEY CHECKING THE CABLE WHETHER SETTLED CHECKING THE MARK OF AL FOIL



GET THE REAR COVER AND CHECKING

PUT THE REAR COVER TO THE BEZEL

STICK ON THE LOCATION OF REAR COVER WITH 1*PCS GOOEY AS LEFT PIC SHOW



TEAR OFF 1*PCS CODE FROM FLOW CARD AND STICK IT ON THE REAR COVER

LOCK UP THE BEZEL AND REAR COVER WITH TWO SCREWS(F3.0*8-B) AS LEFT PICTURE SHOW

CHECKING THE STAND THEN PUT IT TO PRODUCTION LINE



CHECKING THE SCREWS OF REAR COVER WHETHER UNSTUCK

LOCK UP THE STAND WITH FOUR SCREWS(M4.0*10-B)



插VGA CABEL于此

INSERT THE VGA CABLE TO THE VGA CONNECTOR



PUT THE BASE TO THE LCD



插POWER
CABEL 于此處

SETTLE THE CABLE AND STAND UP
THE LCD

TEAR OFF THE PE BAG

INSERT THE POWER CABLE TO THE
SINK

STICK 1*PCS CODE ON THE BOTTOM
OF RIGHTSIDE

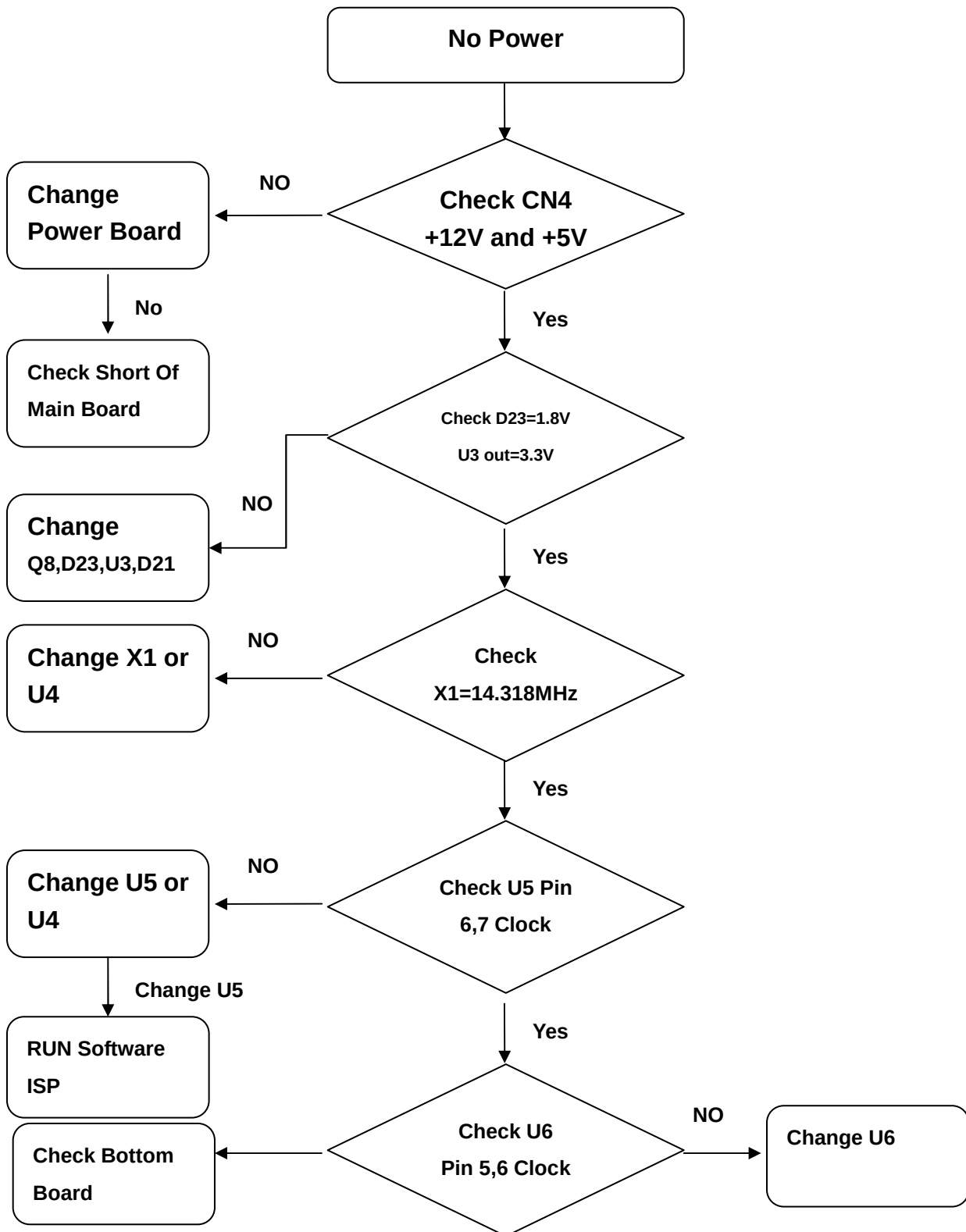


CHECKING THE GAP'S SPEC
BETWEEN BEZEL AND PANEL

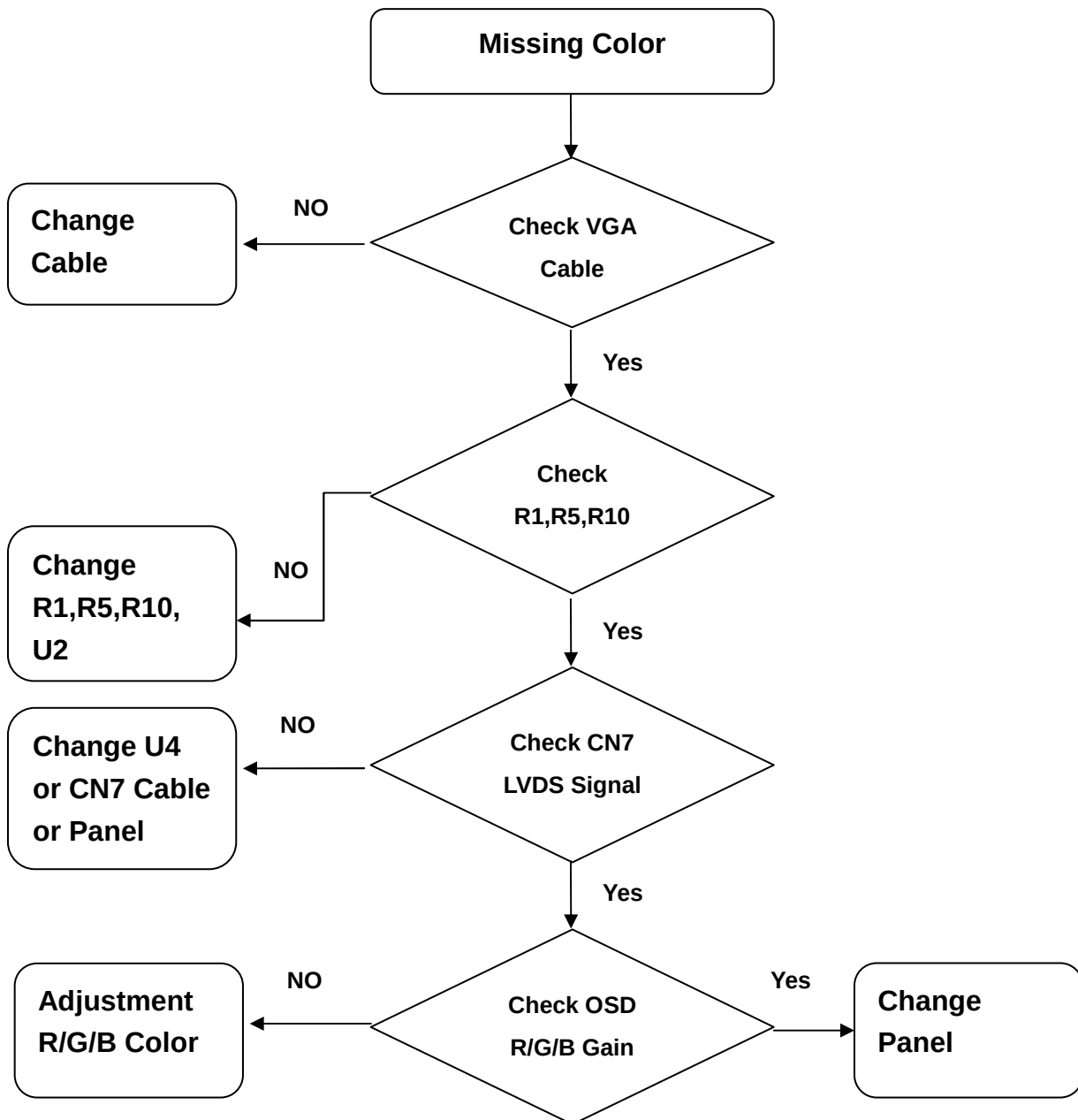
STICK GOOEY ON THE PLASTIC FILM
OF LCD

Trouble Shooting

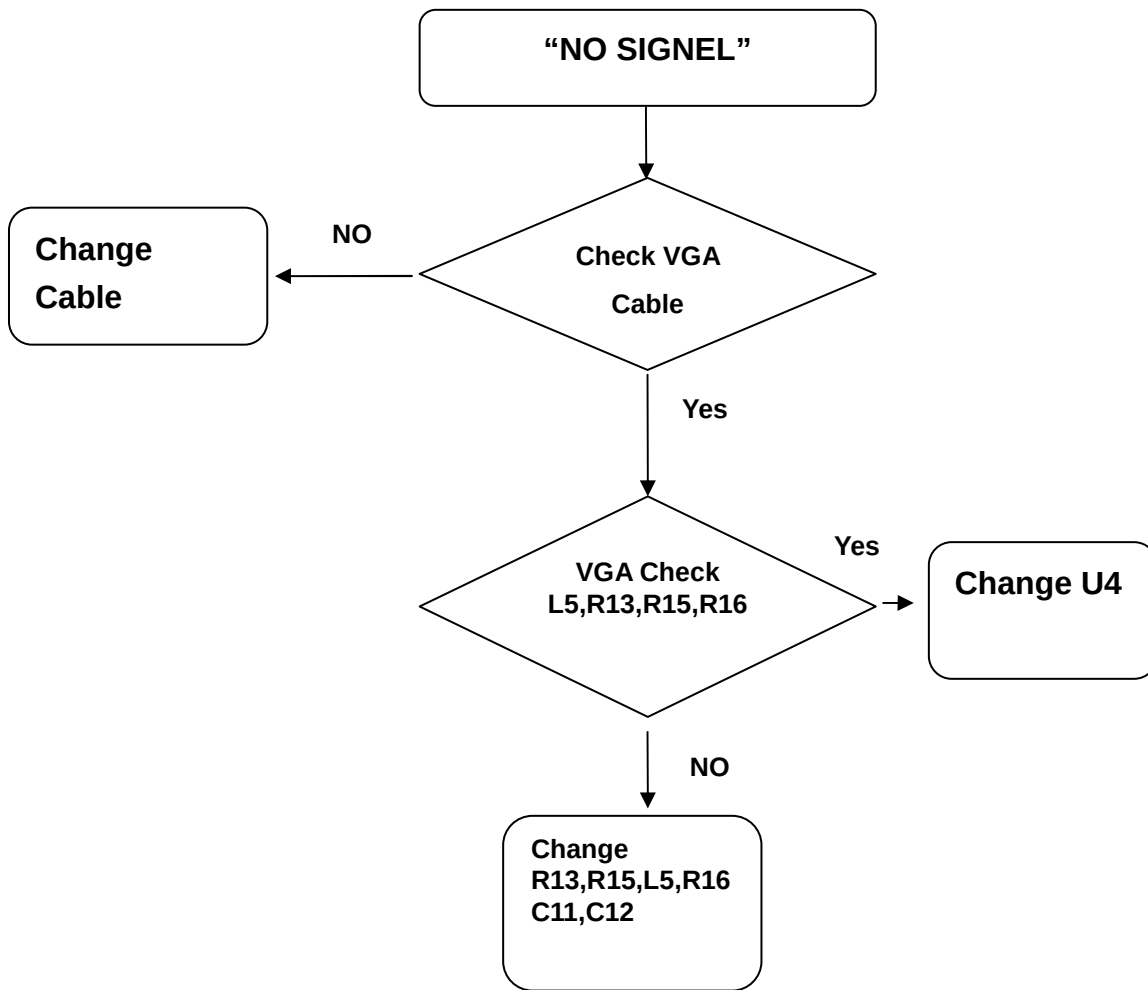
1. No Power



2. Missing Color



3. Always show "NO SIGNAL"

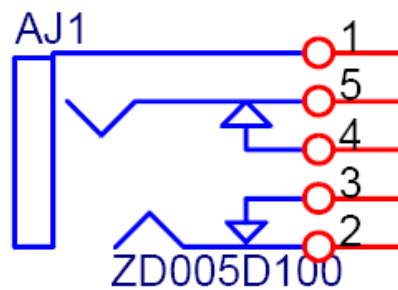


Chapter 5

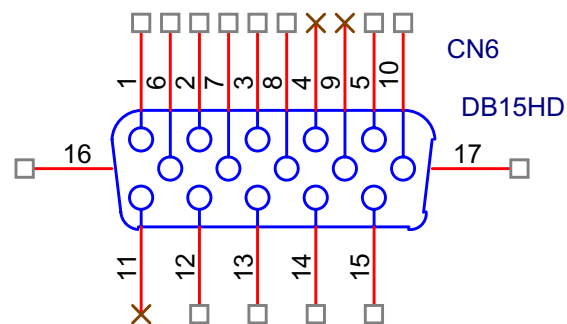
Connector Information

Phone jack stereo

- PIN1. AC power cord : CEE22 typed connector
PIN2. Audio cable
PIN3. Audio : Line-in receptacle



Video signal connector 15P Mini D-Sub connector x 1



Video Connection (Dual or Analog only input)

The monitor is equipped with a 15 pin mini D-SUB and 24 pin DVI (optional).

PIN Assignment

15 pin mini D-Sub connector

The PIN assignment of the 15 pin mini D-SUB connector / cable is as follows:

PIN	Signal
1	Red
2	Green
3	Blue
4	No Pin
5	Ground
6	Ground Red
7	Ground Green
8	Ground Blue
9	+5 V for DDC
10	Ground
11	Ground
12	SDA (DDC Data)
13	H – Sync
14	V – Sync
15	SCL (DDC Clock)

DVI-D connector (optional)

The PIN assignment of the 24 pin DVI-D connector / cable is as follows:

PIN	Signal
1	TMDS data2-
2	TMDS data2+
3	TMDS data2 shield
4	NC
5	NC
6	DDC clock
7	DDC data
8	Not connected
9	TMDS data1-
10	TMDS data1+
11	TMDS data1 shield
12	NC
13	NC
14	+5V
15	Ground (return for +5 V and H/V sync)
16	Hot plug detect
17	TMDS data0-
18	TMDS data0+
19	TMDS data0 shield
20	NC
21	NC
22	TMDS clock shield
23	TMDS clock+
24	TMDS clock-

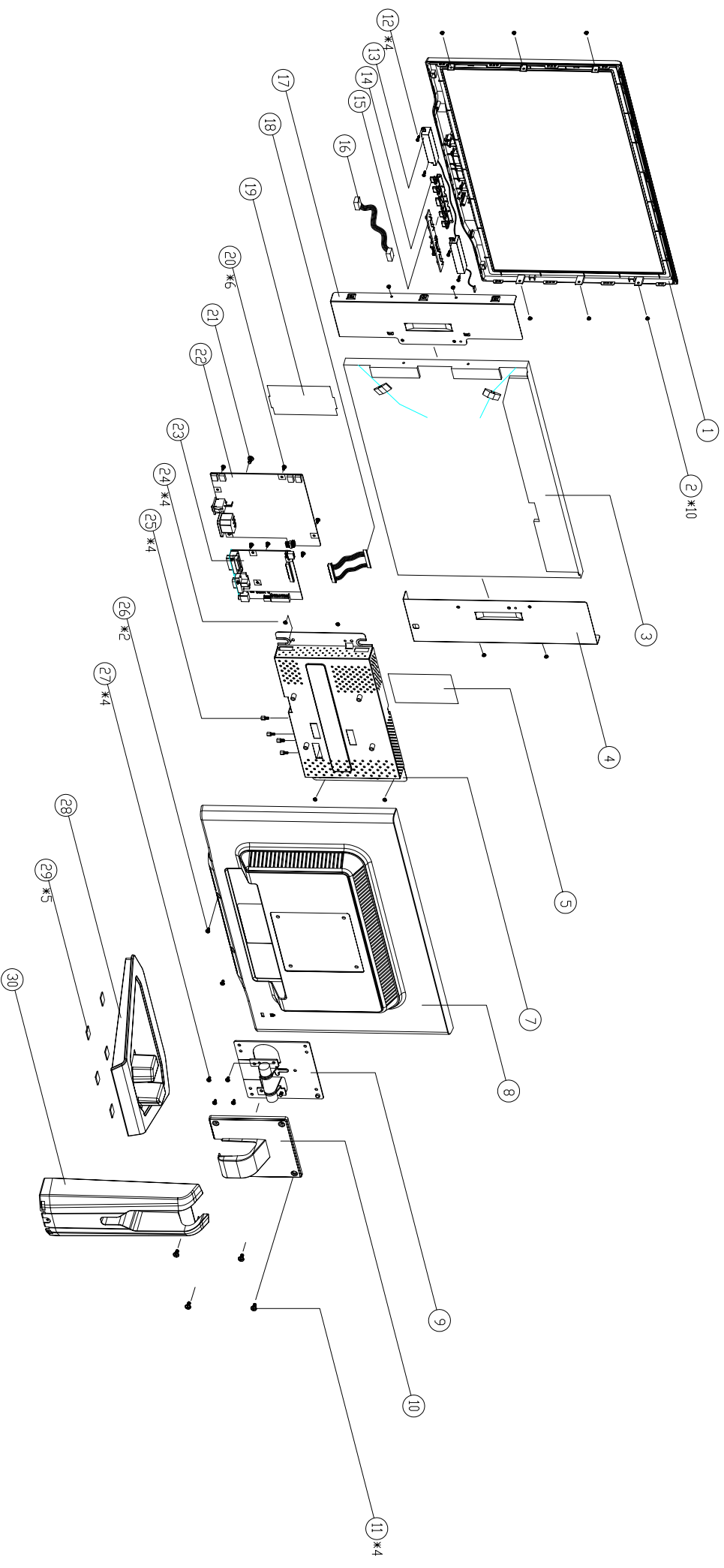
Chapter 6

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL1511. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE : Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel(<http://aicsl.acer.com.tw/spl/>). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.



Item	Part Number	Part Description	Qty
1	EAW91D01015	LCD BEZEL W9TD	1
2	MM300301BJ4	SCREW M3*3-I-NI	10
3	AAAM190P W011	LCD 19" WXGA M190PW01 V.0 FDR ACER	1
4	FAW91B01016	LCD-BKT-L W9TB	1
5	FCL7TA01018	SHIELDING MYLAR L7TA	1
6			
7	FAL9TA03014	PCB SHIELDING DUAL L9TA	1
8	EAW91D03018	LCD COVER W9TD	1
9	FBL7TB01011	HINGE ASSY L7TB	1
10	EBL9TB02013	HINGE COVER L9TB	1
11	MM40100B244	SCREW M4.0*10-B BLACK (NYL DK)	4
12	MF25080P JB8	SCREW F2.5*8.0-P GP	4
13	DN006316046	SPK ASSY L9ZC-SU X06316N-010 2W*2	1
14	EBW8TB01018	BUTTON WB1B	1
15	23L7TBB001	L7TB BUTTON/B ASSY	1
16	DDL7TBBU000	CABLE MB-BUTTON	1
17	FAW91TB02012	LCD-BKT-R W9TB	1

Item	Part Number	Part Description	Qty
18	DDMOTWLC010	CABLE LVDS	1
19	FCL9TB01018	POWER MYLAR L9TB	1
20	MF300601JB2	SCREW F3.0*6.0-T(MC)GP	6
21	MM400808BW1	SCREW M4.0*8.0-B(KNL,WASHER)	1
22	AS05B510031	ADP/INV EADP-45AF BL, 90-264V GP	1
23	21L9F0MB0H6	L9F-A2 M/B ASSY GP	1
24	MM30040BBJ5	SCREW M3.0*4.0-B(KND)	4
25	MBL11004018	ID NUT L11	4
26	MF300808J27	SCREW F3.0*8.0-B(KND) GP	2
27	MM400808B247	SCREW M4.0*8.0-B BLACK(NYLDK)GP	4
28	EAL9TB04015	BASE L9TB	1
29	GAL7TA01016	RUBBER FOOT L7TA	5
30	EAL9TB03019	STAND L9TB	1

PART LIST OF EXPLDED VIEW

ITEM	PART NUMBER	PART DESCRIPTION	QTY
1	EAW9TD01015	LCD BEZEL W9TD	1
2	MM30030IBJ4	SCREW M3*3-I-NI	10
3	AAM190PW011	LCD 19" WXGA M190PW01 V.0 FOR ACER	1
4	FAW9TB01016	LCD-BKT-L W9TB	1
5	FCL7TA01018	SHIELDING MYLAR L7TA	1
6	FAL9TA03014	PCB SHIELDING DUAL L9TA	1
7	EAW9TD03018	LCD COVER W9TD	1
8	EBL7TB01011	HINGE ASSY L7TB	1
9	EBL9TB02013	HINGE COVER L9TB	1
10	MM40100B244	SCREW M4.0*10-B BLACK (NYLOK)	4
11	MF25080PJB8	SCREW F2.5*8.0-P GP	4
12	DN006316046	SPK ASSY L9ZC-5U X06316N-010 2W*2	1
13	EBWBTB01018	BUTTON WBTB	1
14	23L7TBBB001	L7TB BUTTON/B ASSY	1
15	DDL7TBBU000	CABLE MB-BUTTON	1
16	FAW9TB02012	LCD-BKT-R W9TB	1
17	DDM0TWLC010	CABLE LVDS	1
18	FCL9TB01018	POWER MYLAR L9TB	1
19	MF30060TJB2	SCREW F3.0*6.0-T(MC) GP	6
20	MM40080BBW1	SCREW M4.0*8.0-B(NI, WASHER)	1
21	AS05B510031	ADP/INV EADP-45AF BL, 90~264V GP	1
22	21L9F0MB0H6	L9F-A2 MB ASSY GP	1
23	MM30040BBJ5	SCREW M3.0*4.0-B(NI)	4
24	MBLI1004018	IO NUT LI1	4
25	MF30080BJ27	SCREW F3.0*8, B(BNI) GP	2
26	MM40080B247	SCREW M4.0*8.0-B BLACK(NYLOK) GP	4
27	EAL9TB04015	BASE L9TB	1
28	GAL7TA01016	RUBBER FOOT L7TA	5
29	EAL9TB03019	STAND L9TB	1

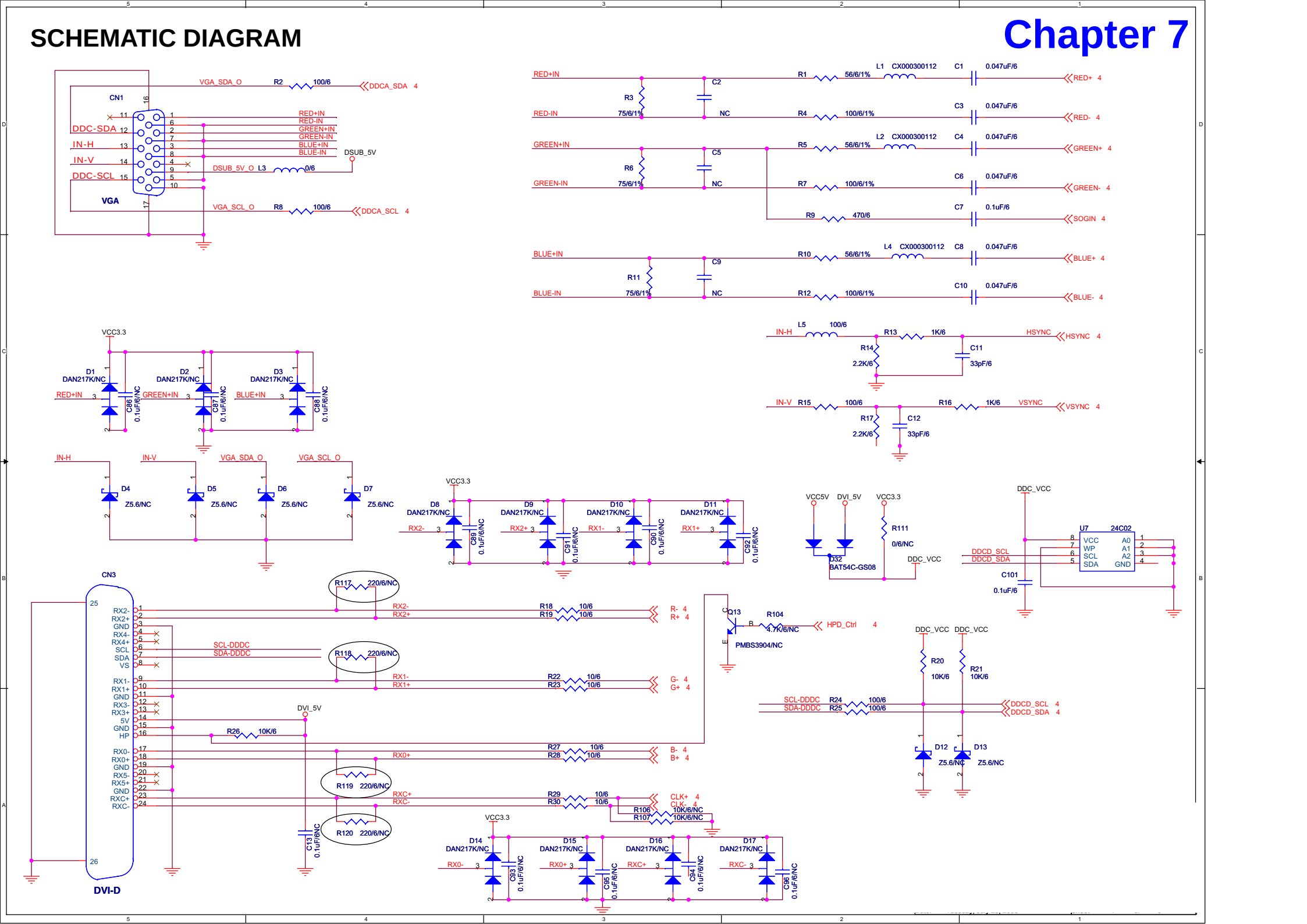
Part list

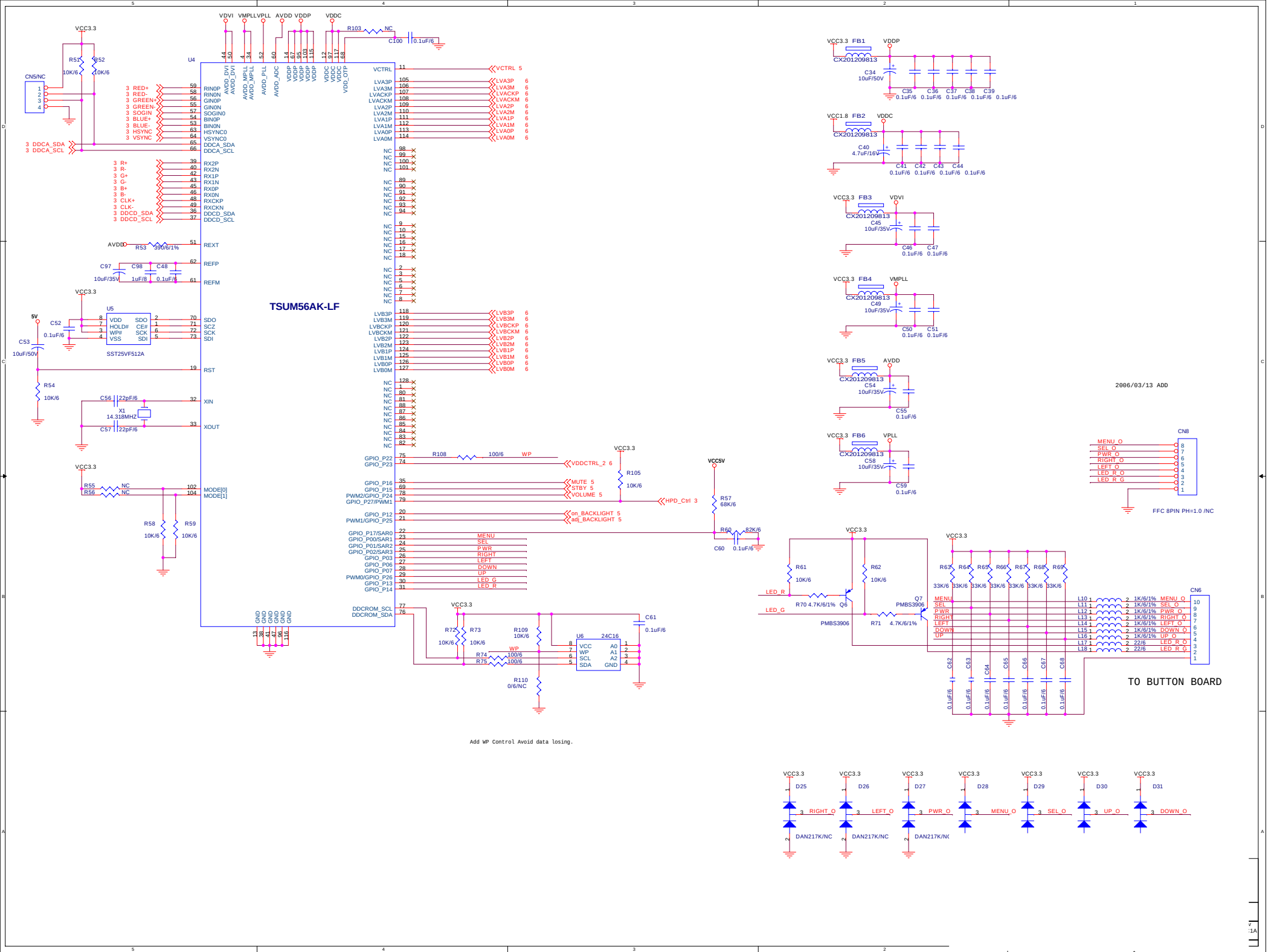
Above picture show the description of the following component.

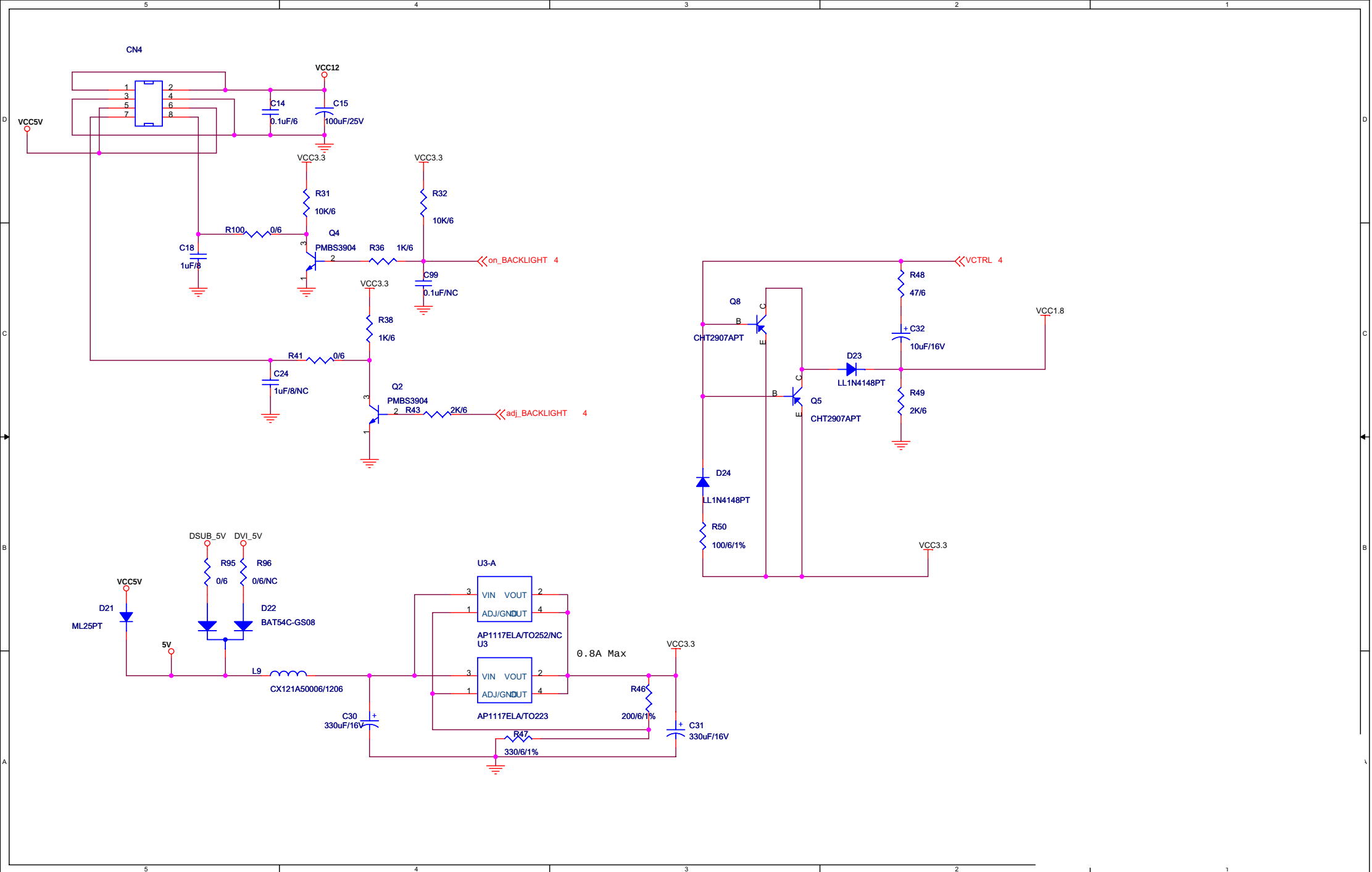
Item	Picture	Description	Part No.
1		Back Cover	25L7TBLC000
2		Stand	26L7TBSA001
3		Bezel	34L7TBLB002
4		Base	38L9TBBS000
5		Screw	MM40080BBW1

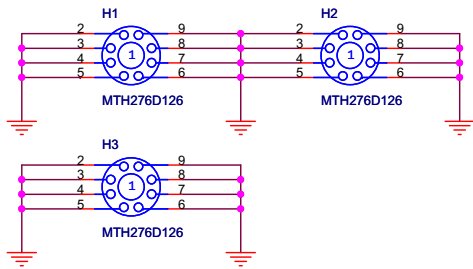
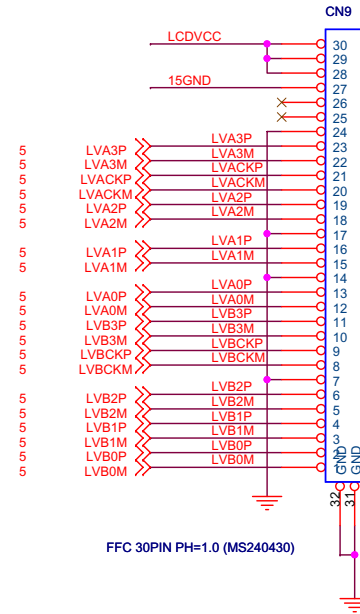
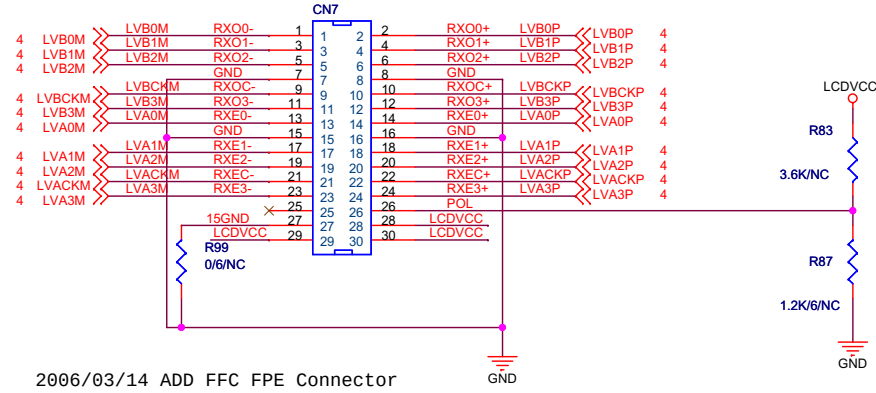
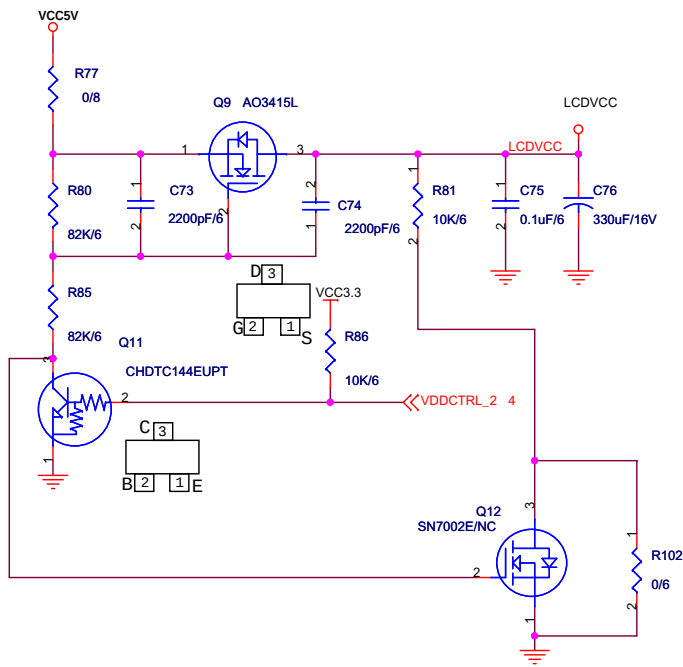
SCHEMATIC DIAGRAM

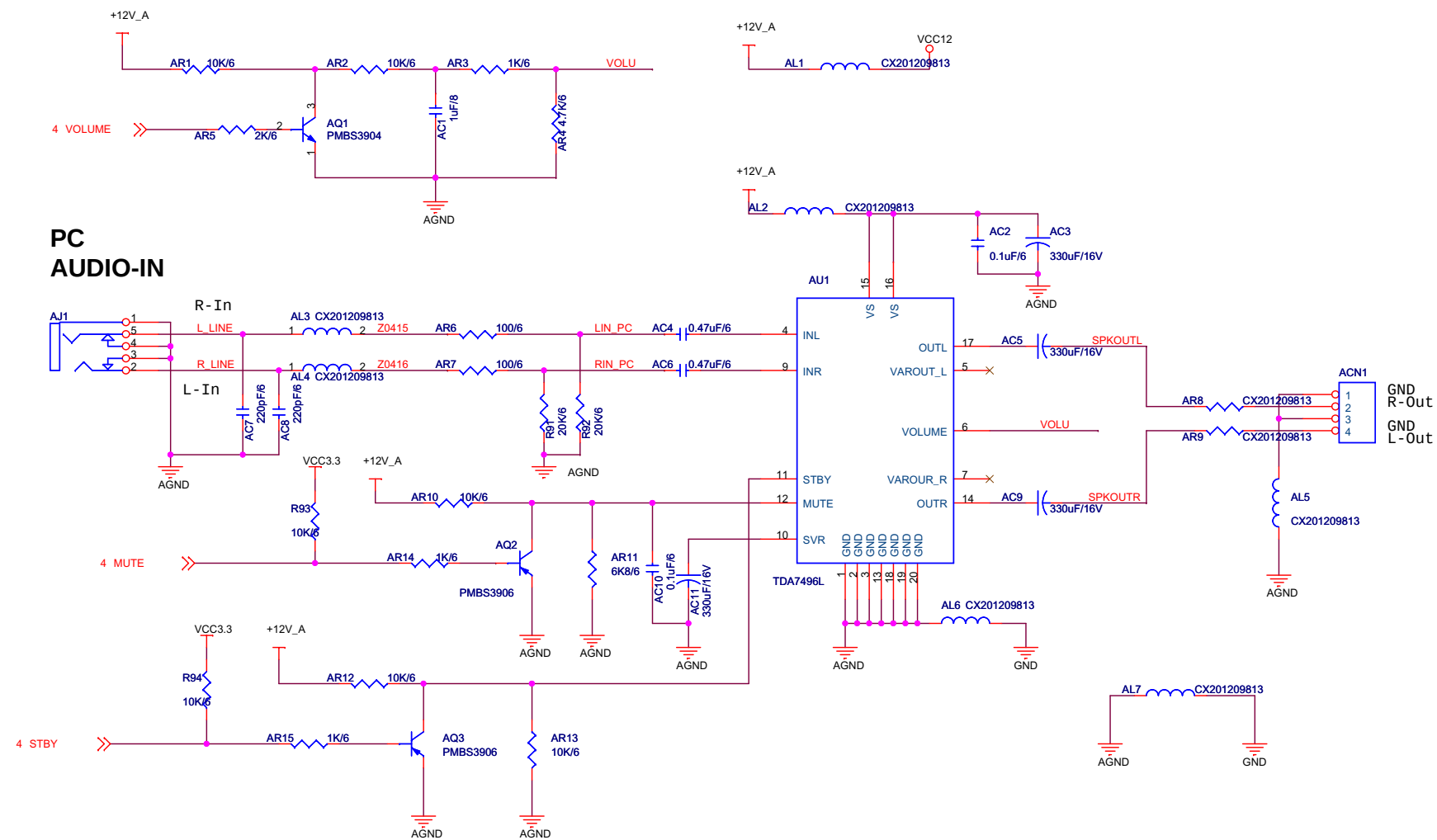
Chapter 7

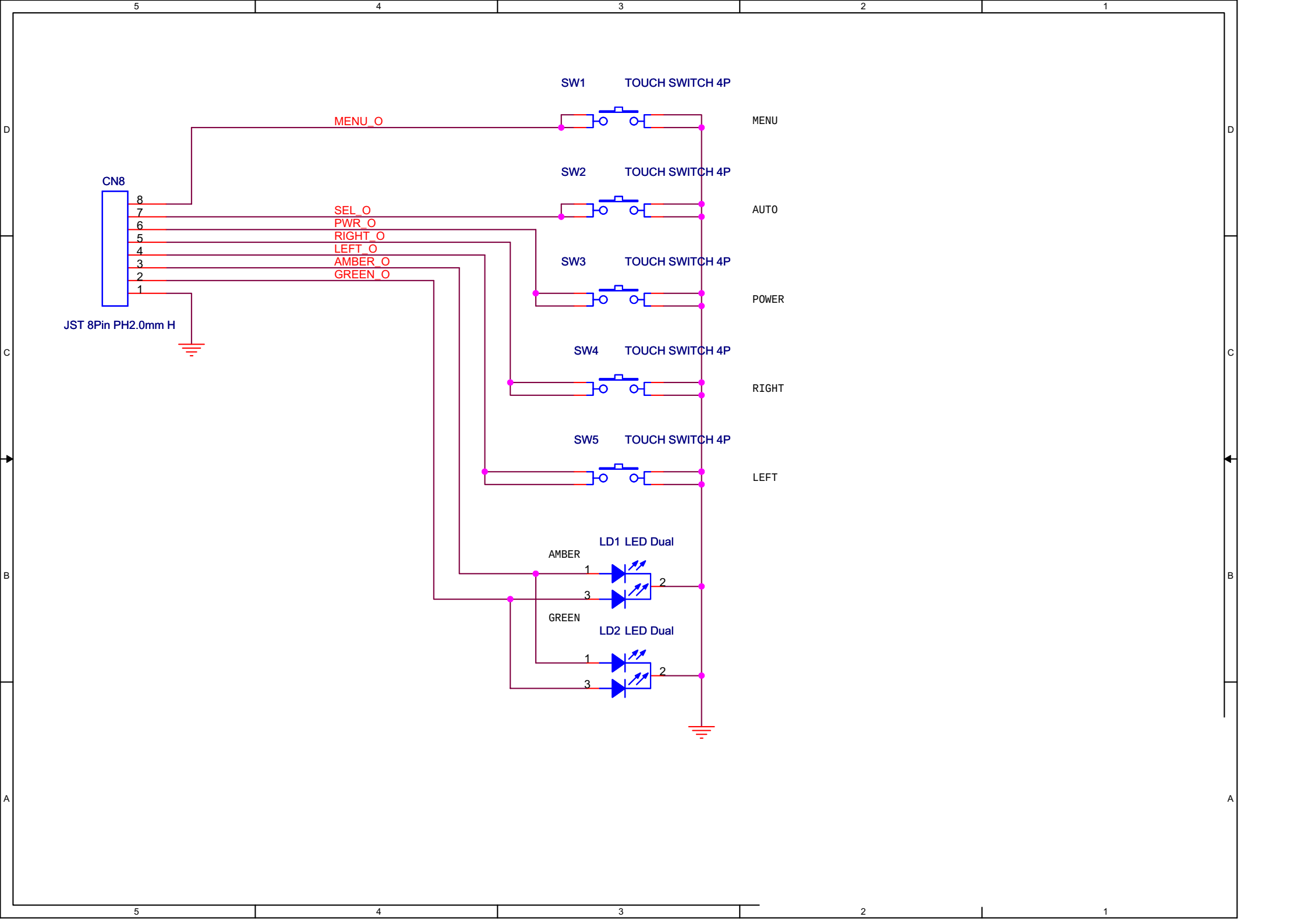


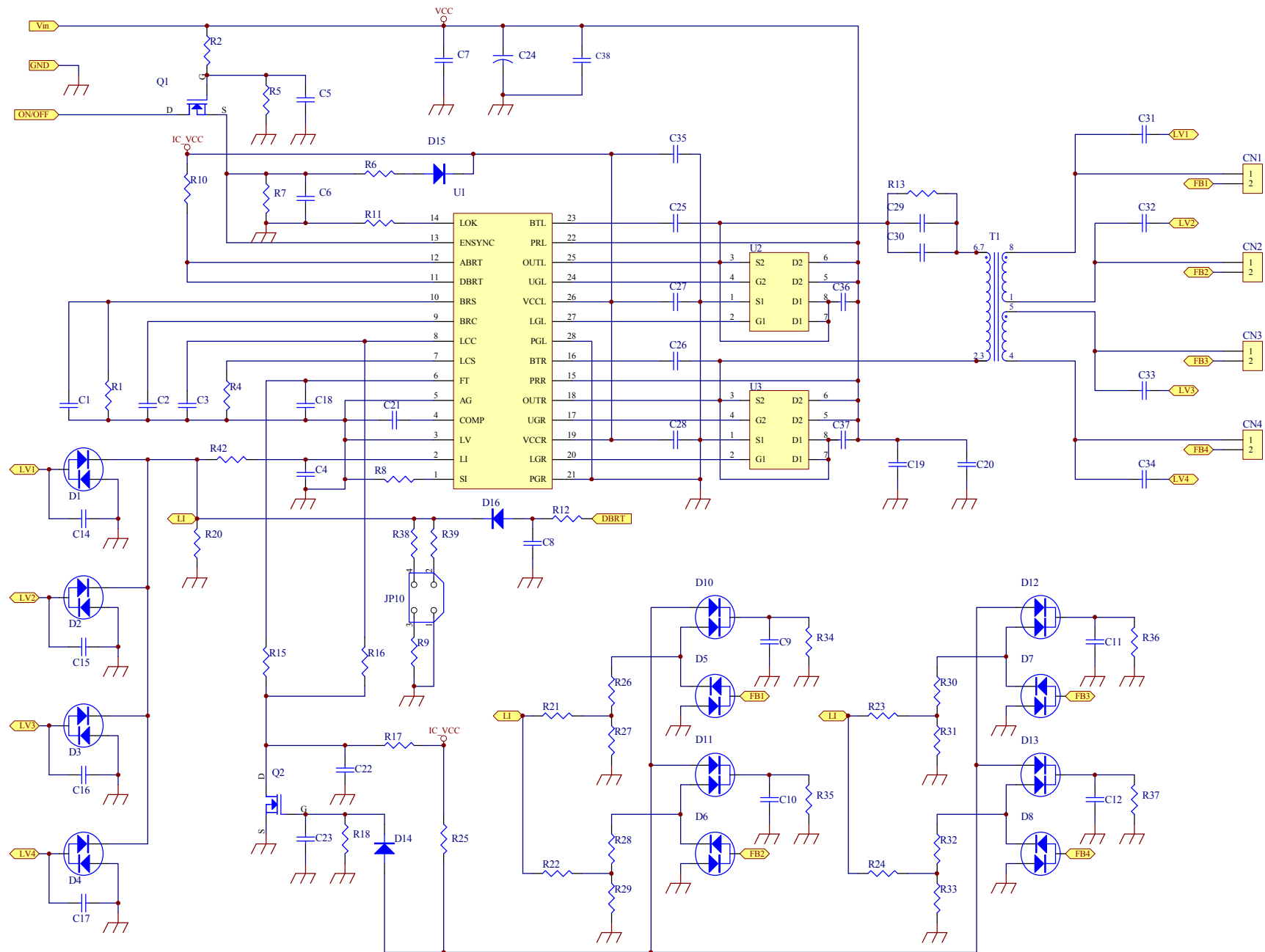


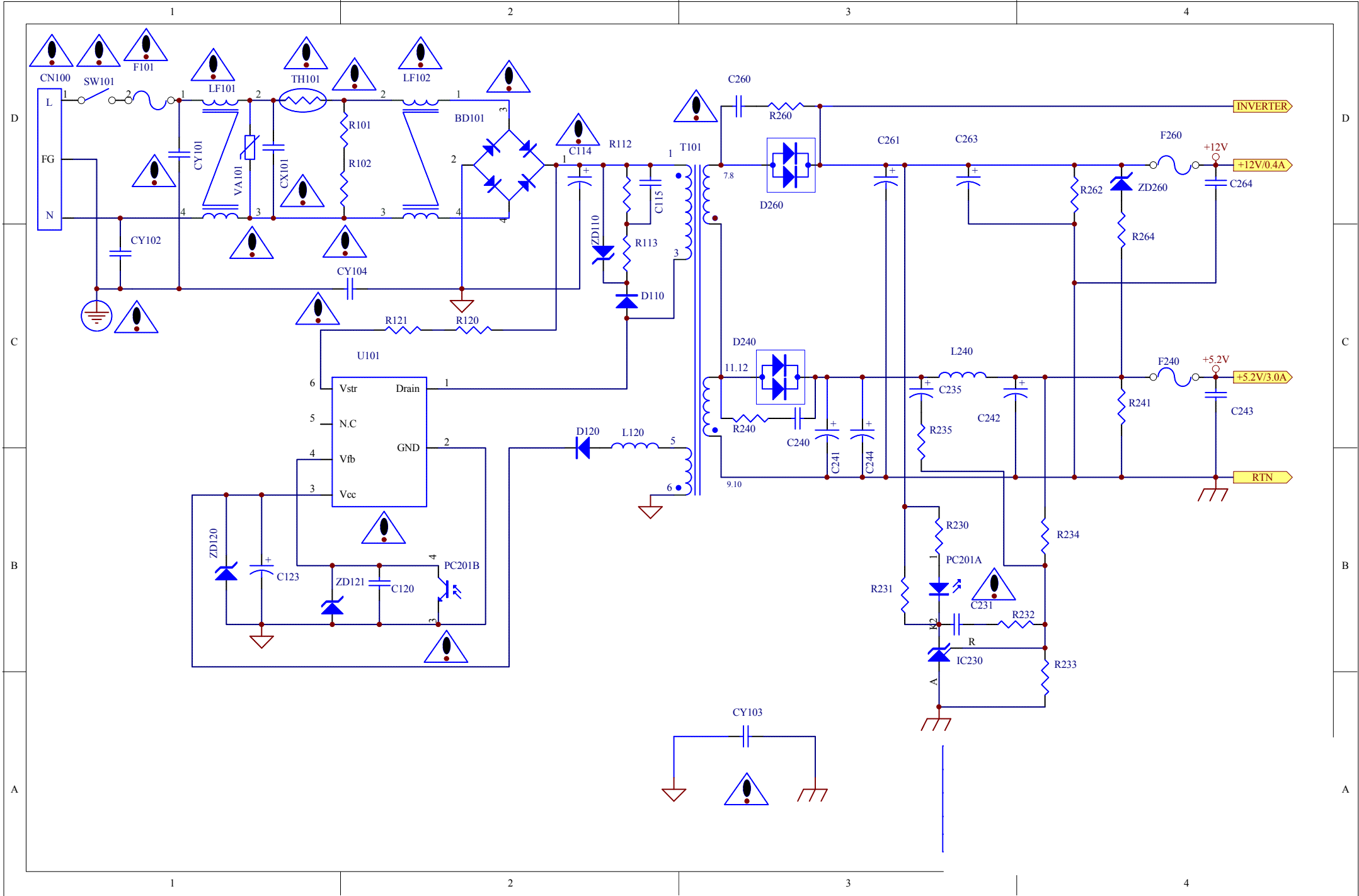








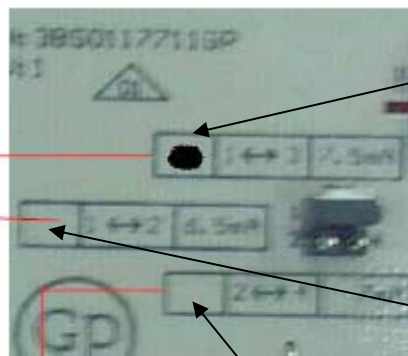




Chapter 8

Power board Current set information

P/N	Model Name	Lamp Current	JP10
AAM190PW011	LCD 19" WXGA M190PW01 V.0 FOR ACER GP	6.5 mA	1



跳值為7.0毫安培
在此格內打黑點

跳值為6.5毫安培
在此格內打黑點

跳值為7.5毫安培
在此格內打黑點

When the lamp current value is 7.5MA, the jumper should be done as the picture left show.

When the lamp current value is 6.5MA, the jumper should be done as the picture left show.

When the lamp current value is 7.0MA, the jumper should be done as the picture left show.