Acer AL2032W
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 chock 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.

Table of contents

Chapter 1

Monitor Feature

LCD Panel	Driving system	TFT Color LCD
	Size	20.1” wide
	Pixel pitch	0.258 mm
	Viewable angle	178(H) x 178 (V) degree
	Brightness	LG panel: 300 cd/m2(typ)
	Contrast Ratio	600:1 (typ)
	Response time	16ms (Tr+Tf)
Input	Video	R,G,B Analog & DVI box (optional)
	Separate Sync	H/V TTL
	H-Frequency	31-81KHZ
	V-Frequency	50-75HZ
Display Color		16.7 million Colors
Maximum Dot Clock ®		162MHz
Max Resolution		1680X1050@60HZ
Plug & Play		VESA DDC2B
EPA ENERGY STAY	ON Mode	<75W
	OFF Mode	<3W
Audio output		Rated Power 5.0W rms(Per channel)
Input Connector		D-Sub 15 pin, or DVI-D cable
Input Video Signal		Analog : 0.7Vp-p,75OHM
Screen Size (Active)		Horizontal : 433.4mm
		Vertical : 270.9mm
Power Source		90~240 Vac, 50~60HZ
Environmental Considerations		Operating Temp : 5 to 40 degree ; Storage Temp : -20 to 60 degree ; Operating Humidity : 15% to 85%
Weight (N.W.)		6.8kg
Dimension		510.3(W) x 443.9(H) x 206.6D) mm

External Controls :	Switch	* Power Switch * MENU/ENTER * ^/ Volume * v/ Volume * Auto Adjust KEY
	Function	* Contrast/brightness * Focus * Clock * H.Position * W.Position * Language * OSD Color temperature * OSD Position & Timeout * Auto Config * Input * Information * Reset * Exit
Regulatory Compliance		cUL, FCC, TUV, CE, ISO13406-2

Timeings

The product has 29 memory modes in total. 19 modes are preset and 10 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

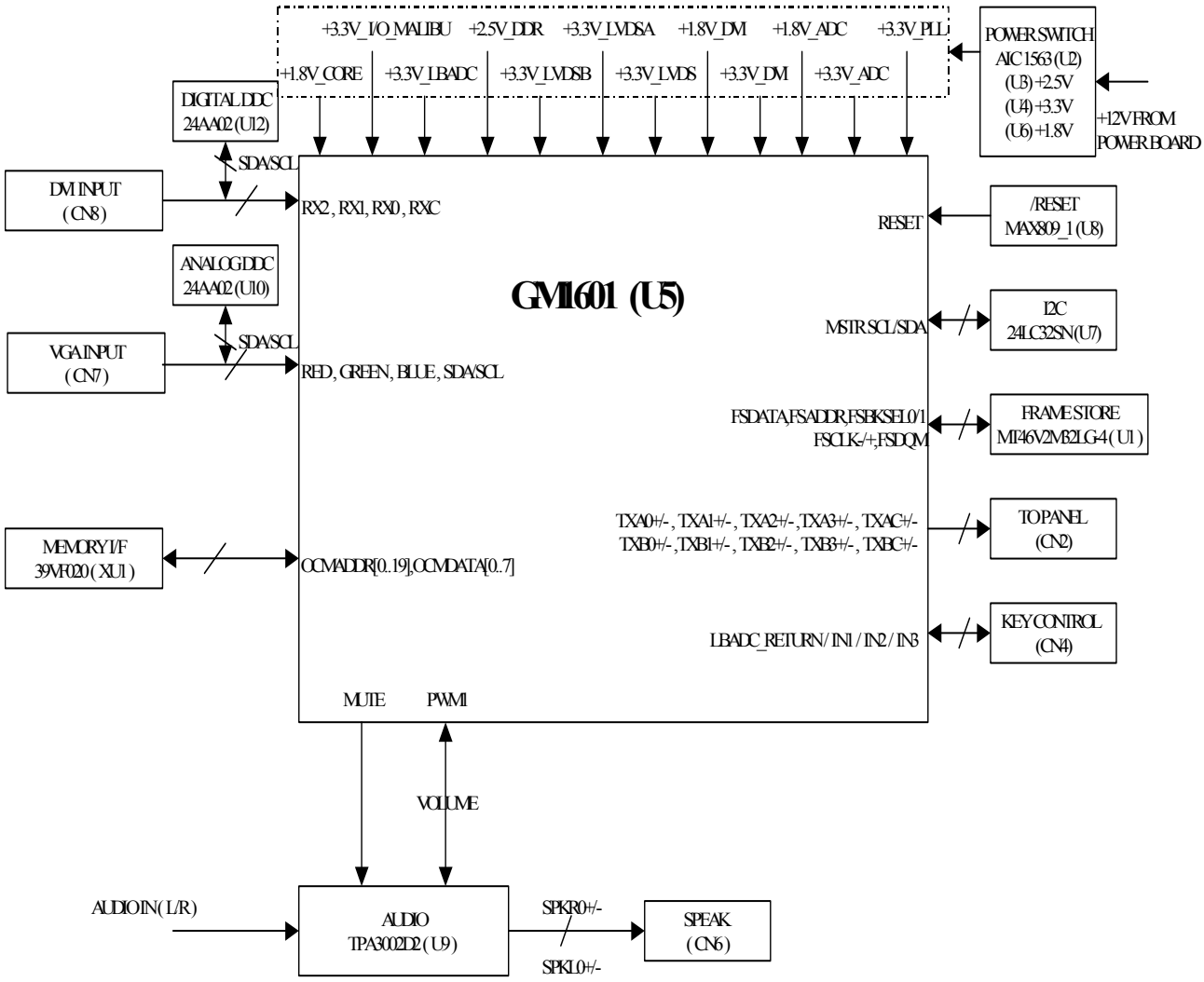
MODE NO.	**9**	**10**	**11**	**12**
RESOLUTION	**800 x 600**	**832 x 624**	**1024 x 768**	**1024 x 768**
Dot clock(MHz)	**50**	**57.283**	**65**	**75**

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	Y	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)

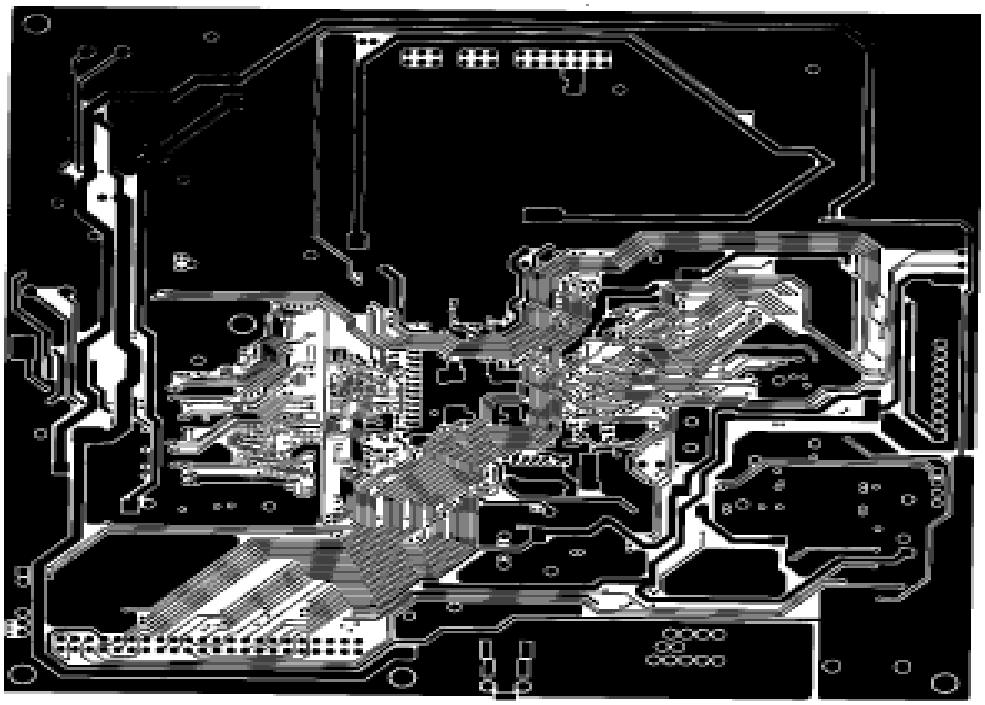
SYNC. H/V	-/-	+/+	+/+	+/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y
17"				
MODE NO.	**17**	**18**	**19**	**20**
RESOLUTION	**1280 x 960**	**1600 x 1200**	**1280 x 720**	
Dot clock(MHz)	**108**	**162**	**74.176**	
f h	**60.000 KHz**	**75.000 KHz**	**44.955KHz**	
H-Total (us)	16.667 (1800dots)	13.333 (2160 dots)	22.244 (1650dots)	
H-Sync (us)	1.037 (112 dots)	1.185 (192 dots)	0.539 (40 dots)	
H-B-P (us)	2.889 (312 dots)	1.877 (304 dots)	2.966 (220 dots)	
H-Active (us)	11.852 (1280 dots)	9.877 (1600 dots)	17.256 (1280 dots)	
H-F-P (us)	0.889 (96 dots)	0.395 (64 dots)	1.483 (110 dots)	
f v	**60.00Hz**	**60.00 Hz**	**59.94Hz**	
V-Total (ms)	16.667 (1000 lines)	16.667 (1250 lines)	16.683 (750 lines)	
V-Sync (ms)	0.050 (3 lines)	0.040 (3 lines)	0.111 (5 lines)	
V-B-P (ms)	0.600 (36 lines)	0.613 (46 lines)	0.445 (20 lines)	
V-Active (ms)	16.000 (960 lines)	16.000 (1200 lines)	16.016 (720 lines)	
V-F-P (ms)	0.017 (1 line)	0.013 (1 line)	0.111 (5 lines)	
SYNC. H/V	+ / +	+ / +	+ / +	
POLARITY				
SEP . SYNC	Y	Y	HDTV	

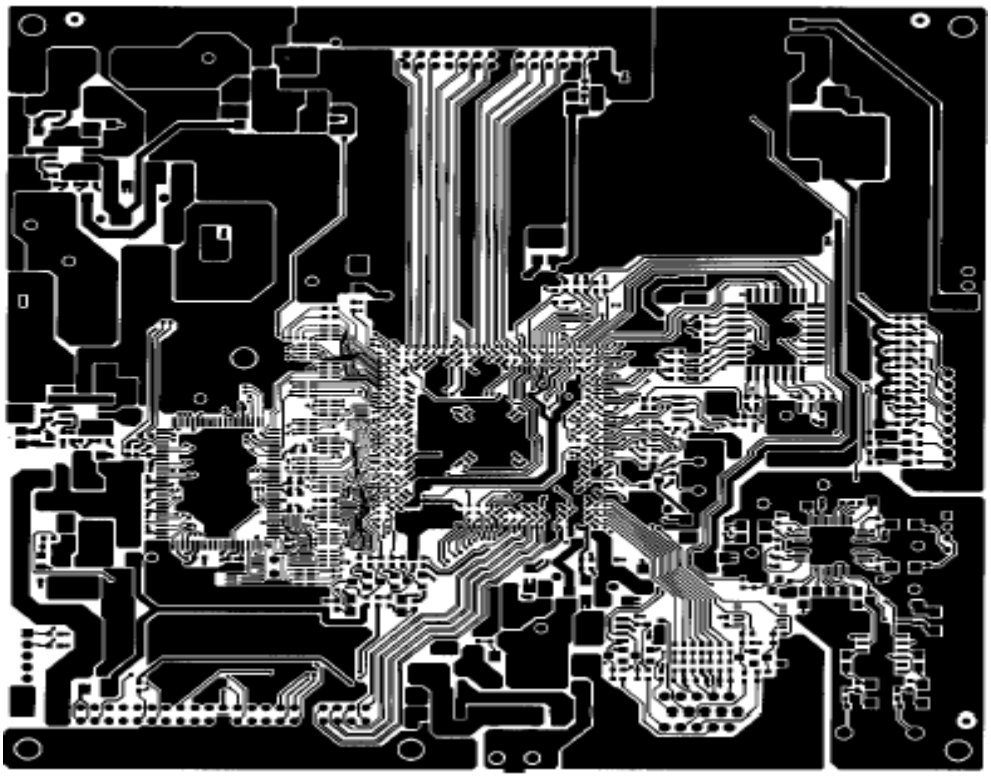
Monitor Block Diagram

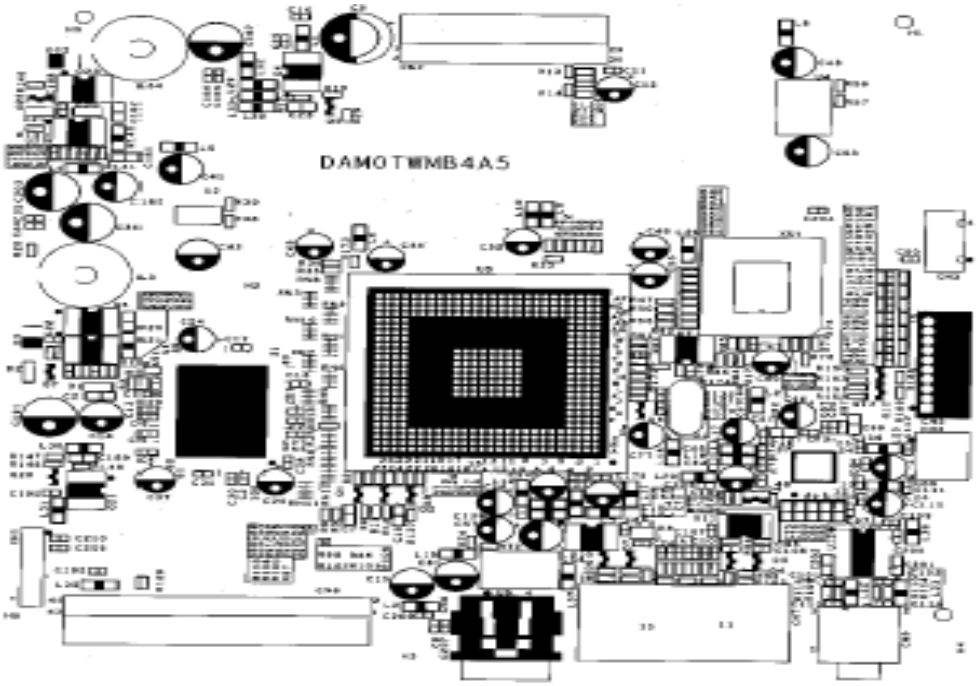


PCB CONDUCTOR VIEW

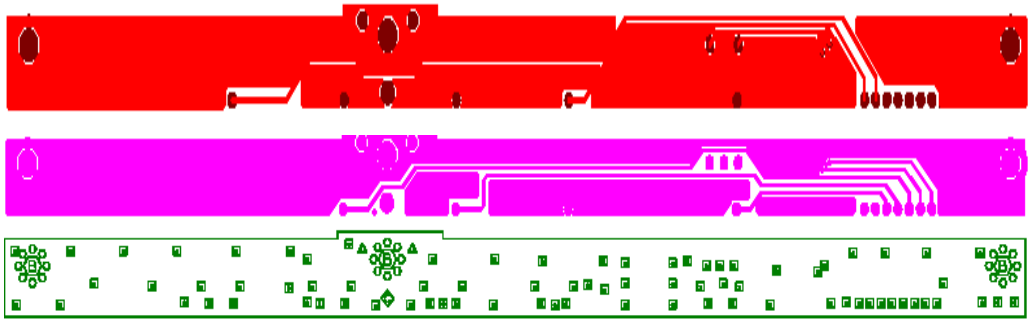
Main Board







Button Board



Chapter 2

OPERATING INSTRUCTIONS

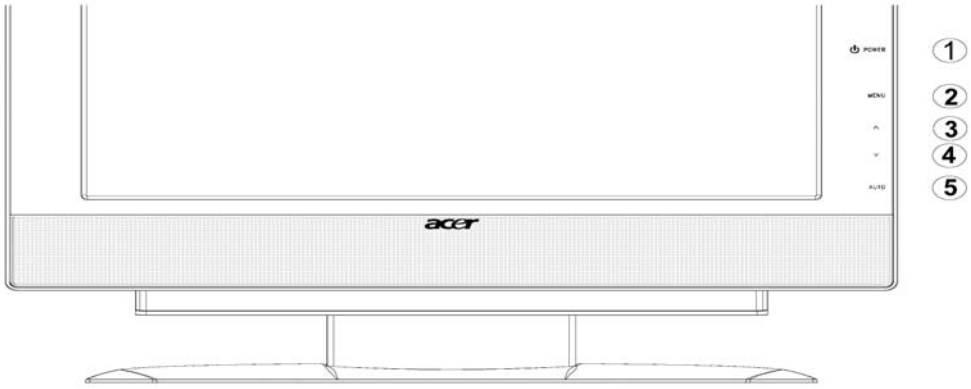
Front Panel Definition

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

Key Definition:

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

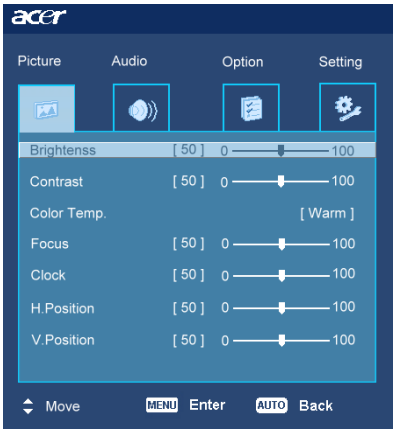
* Adjusting display settings



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 enter 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 buttons marked ^ or v to adjust the volume.
④	v	DOWN / MINUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked ^ or v to adjust the volume.
⑤	AUTO	AUTO	If OSD is active, press to exit 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.

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.

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.

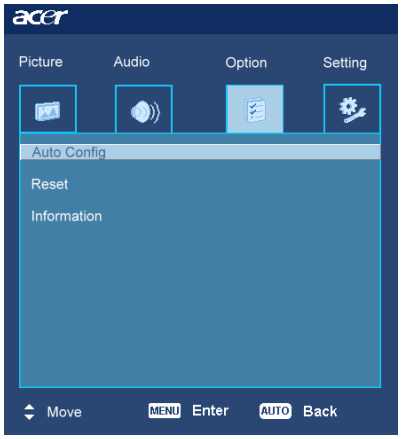
V-Position:

This adjusts the vertical screen position.

Audio

Volume: Adjusts the volume.

Mute : on /off



Option

Auto Config. :

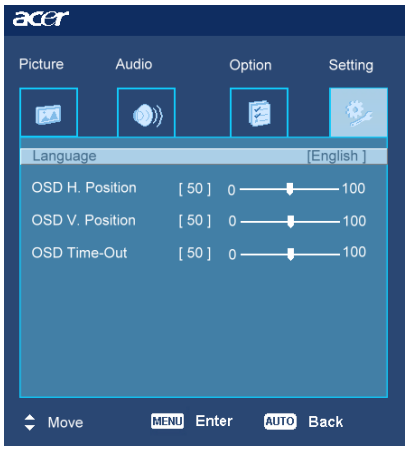
System runs auto-configuration.

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 I^2C 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 counties.

Chapter 3

Machine assembly

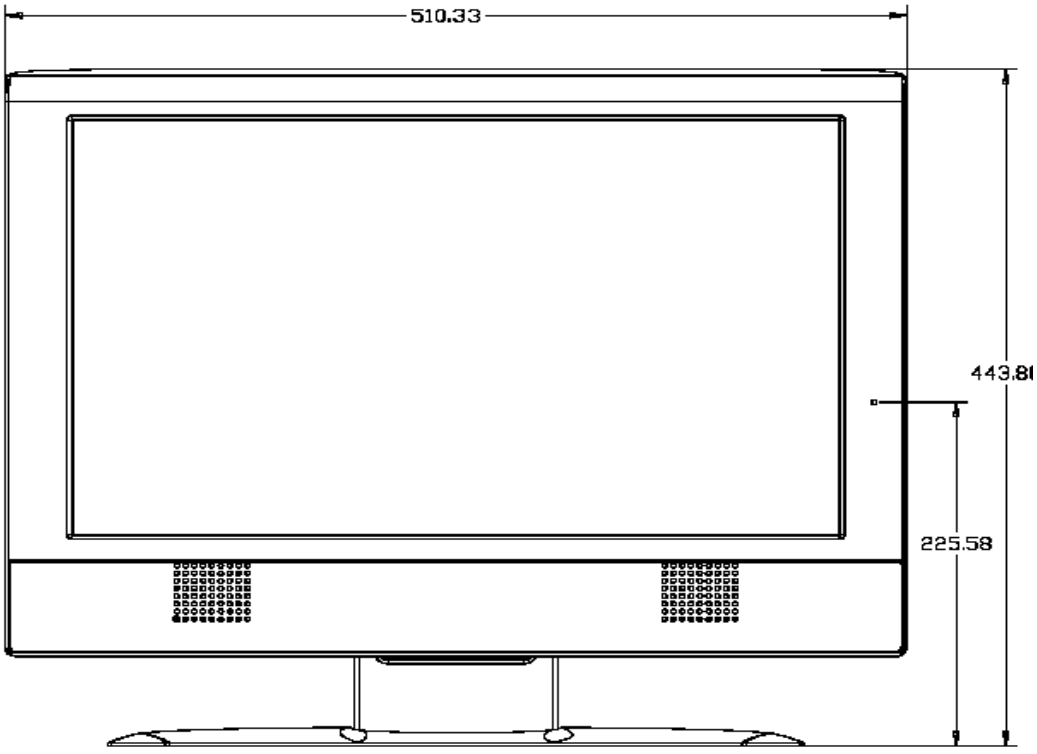
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

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.

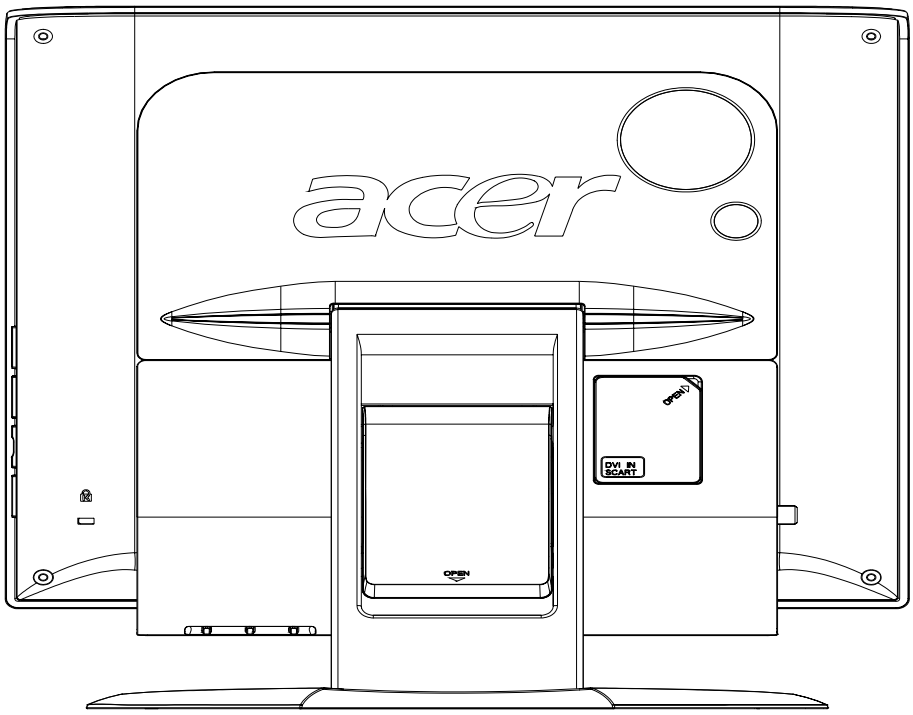
2. Note : The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.

3. Wear gloves.

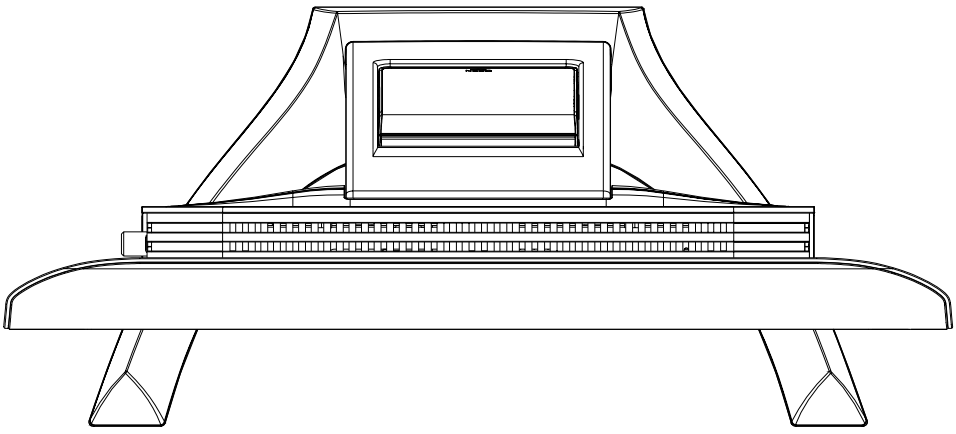
Front View : (unit : mm)



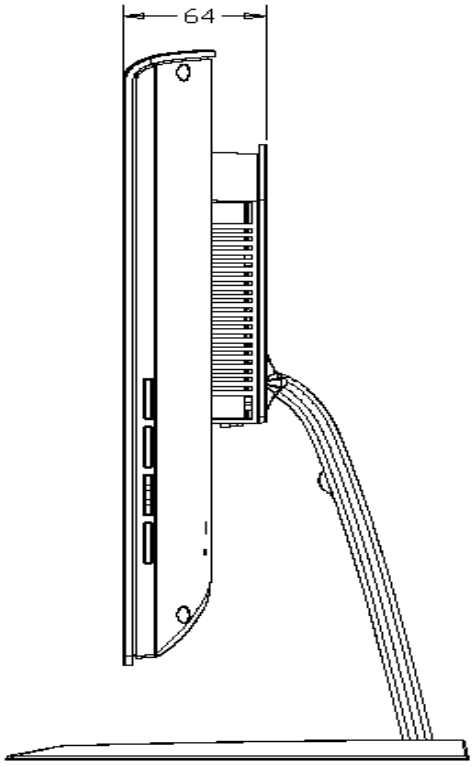
Real View :



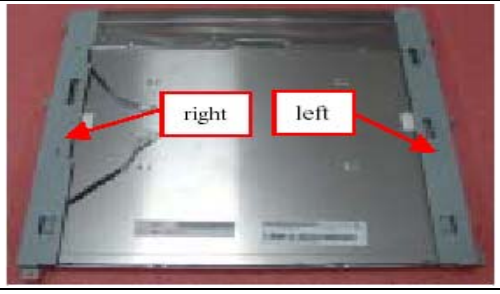
Top View :

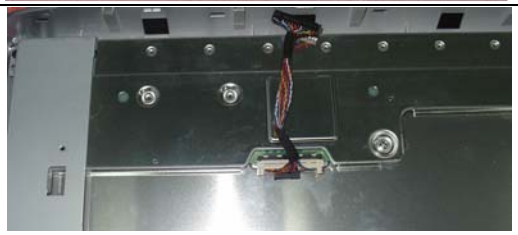
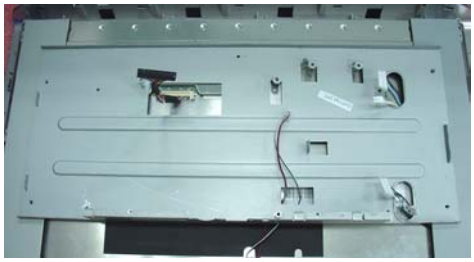


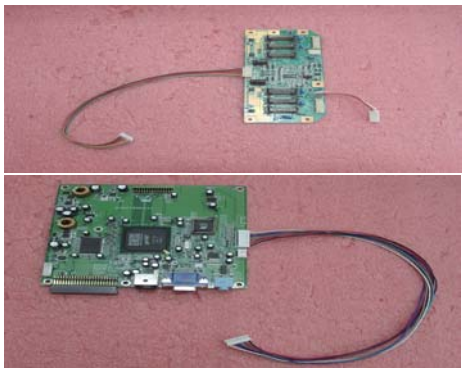
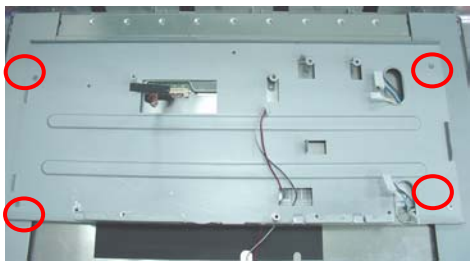
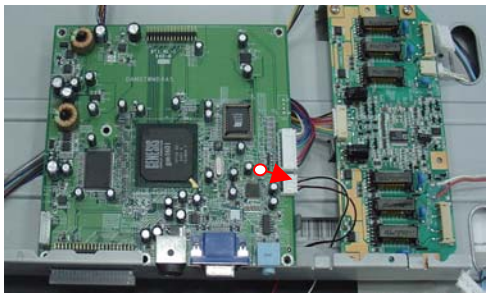
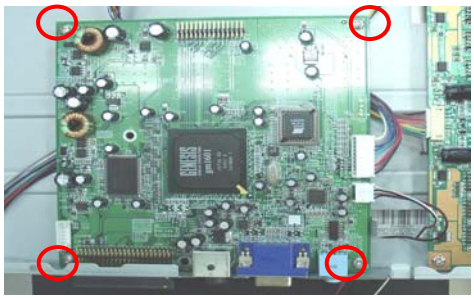
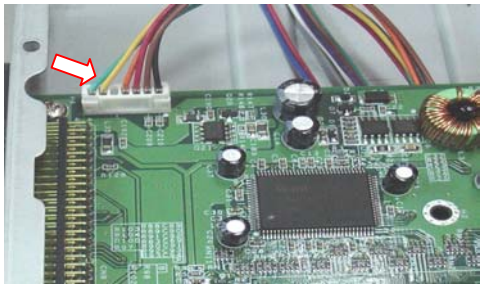
Side View : (unit : mm)

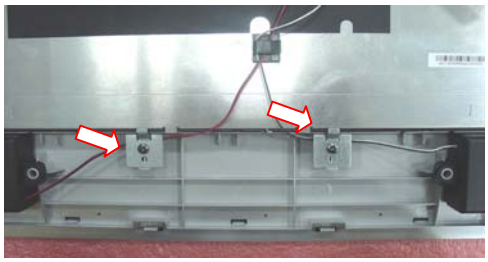
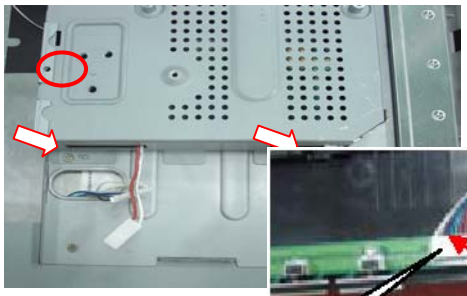
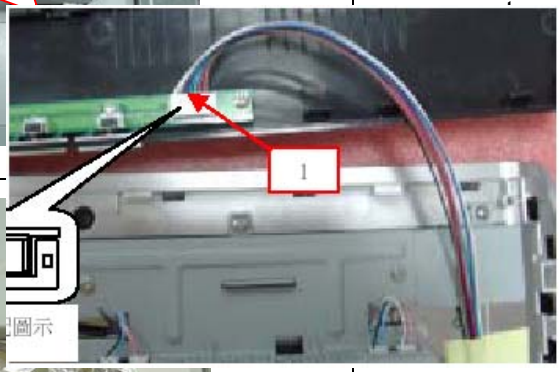
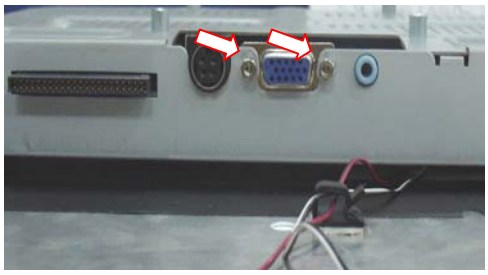
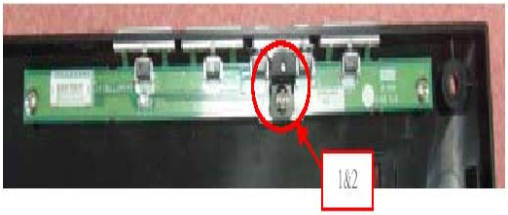


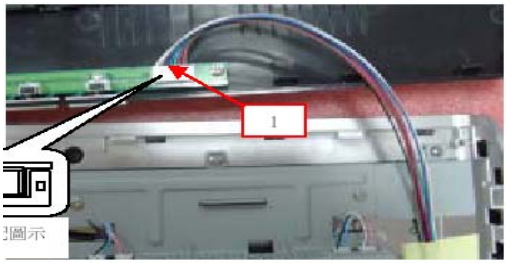
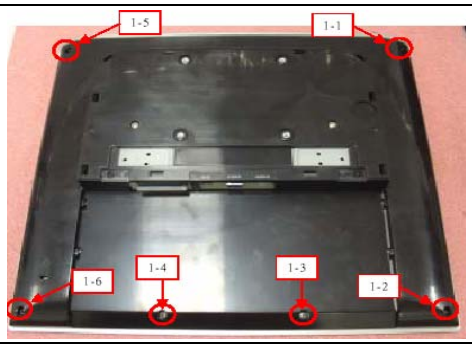
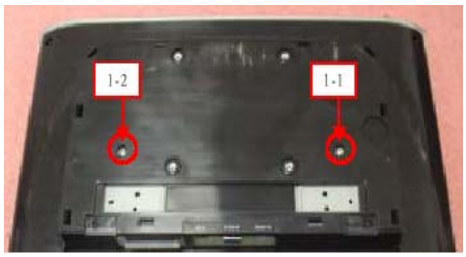
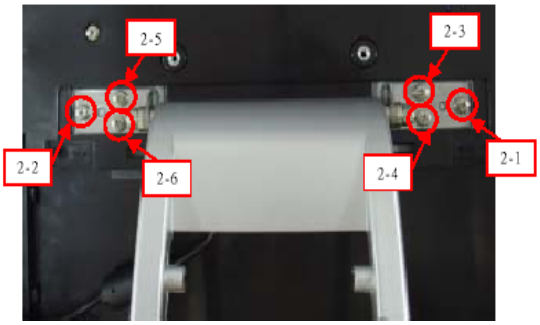
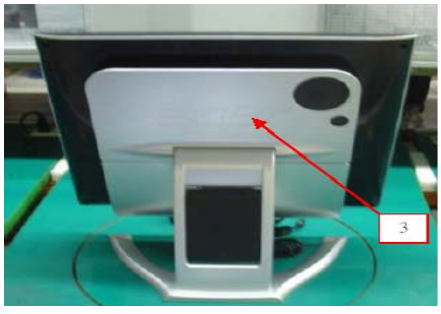
Assembly process

Picture	Description
	1. Get the panel and put it on the table carefully.
	1. Fix left and right bracket (BKT) on the panel.

	1. Get bezel and put it on the table 2. Assemble panel into bezel
 	1. Lock screw * 3 pcs to fasten bezel and left side bracket (BKT) . 2. Lock screw * 3 pcs to fasten bezel and right side bracket (BKT).
	1. Insert LCD cable in panel connector
	1. Assemble speaker on the bezel
	1. Tidy speaker cable as picture shows.
	1. Assemble PCB BKT on the L/R of BKT 2. Tidy cable as picture shows

	1. Get inverter and insert cable 2. Insert button cable in main board connector
	1. Lock 4*pcs screw to fasten m/b and PCB BKT
	1. First to lock 4*pcs screw to fasten Inverter board on the PCB BKT 2. Get m/b and insert speaker cable, then assemble it on the
	1. Lock 4 pcs screw to fasten m/b on the pcb BKT
	1. Insert INV-M/B cable, then tidy button cable and inv-m/b

	1. Lock screw*2pcs to fasten panel hold
	1. insert LCD cable in m/b connector
 	1. Assemble shielding and pcb BKT 2. Lock 7pcs screw to fasten shielding 3. Insert ccft cable L/R of into inverter/b
	2pcs on ccft connector of
	1. Lock io nut 2pcs in VGA connector
	1. Assemble button/b and back cover

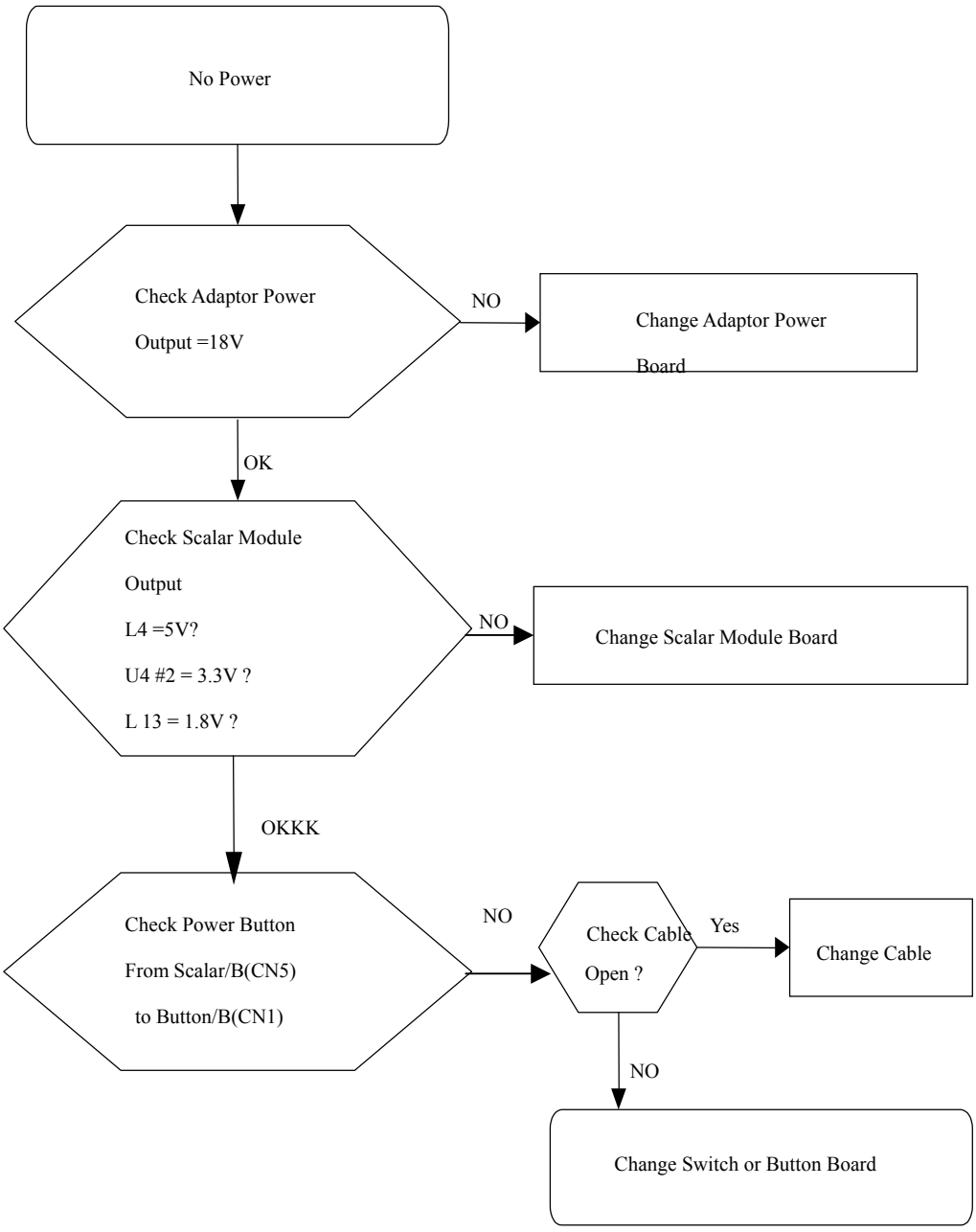
	1. Insert button/b cable in button/b connector
	1. Assembly back cover and bezel 2. Lock screw * 6 pcs to fasten and back cover
 	1. Lock screw*2 pcs to fasten bezel and PCB shielding. 2. Assembly DVI box, if necessary.
	1. Assembly stand base and back cover. 2. lock screw *6 pcs to fix it.
	1. Assembly VESA cover and back cover.

Chapter 4

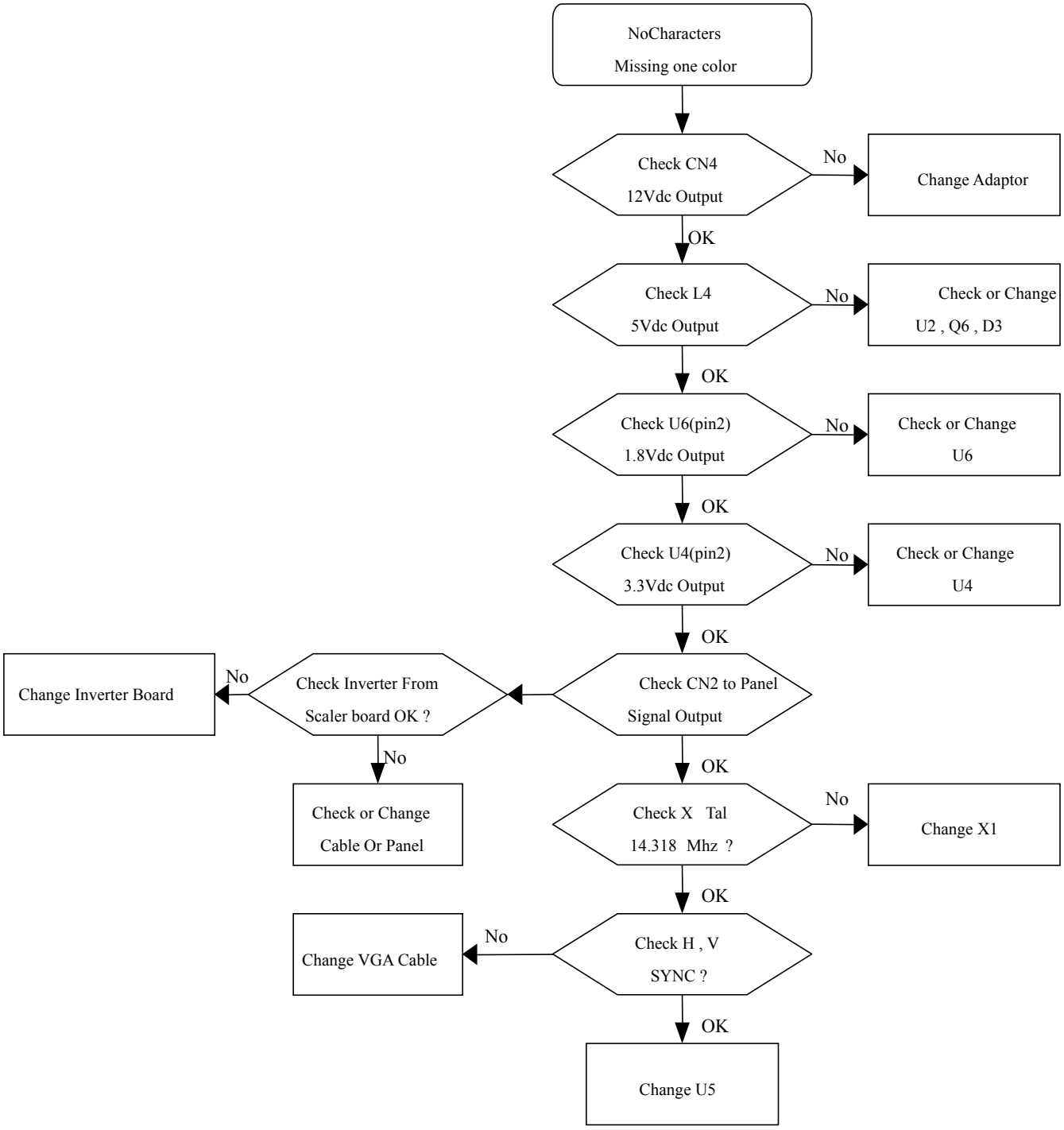
TROUBLE SHOOTING

This chapter provides trouble shooting information forAL2032

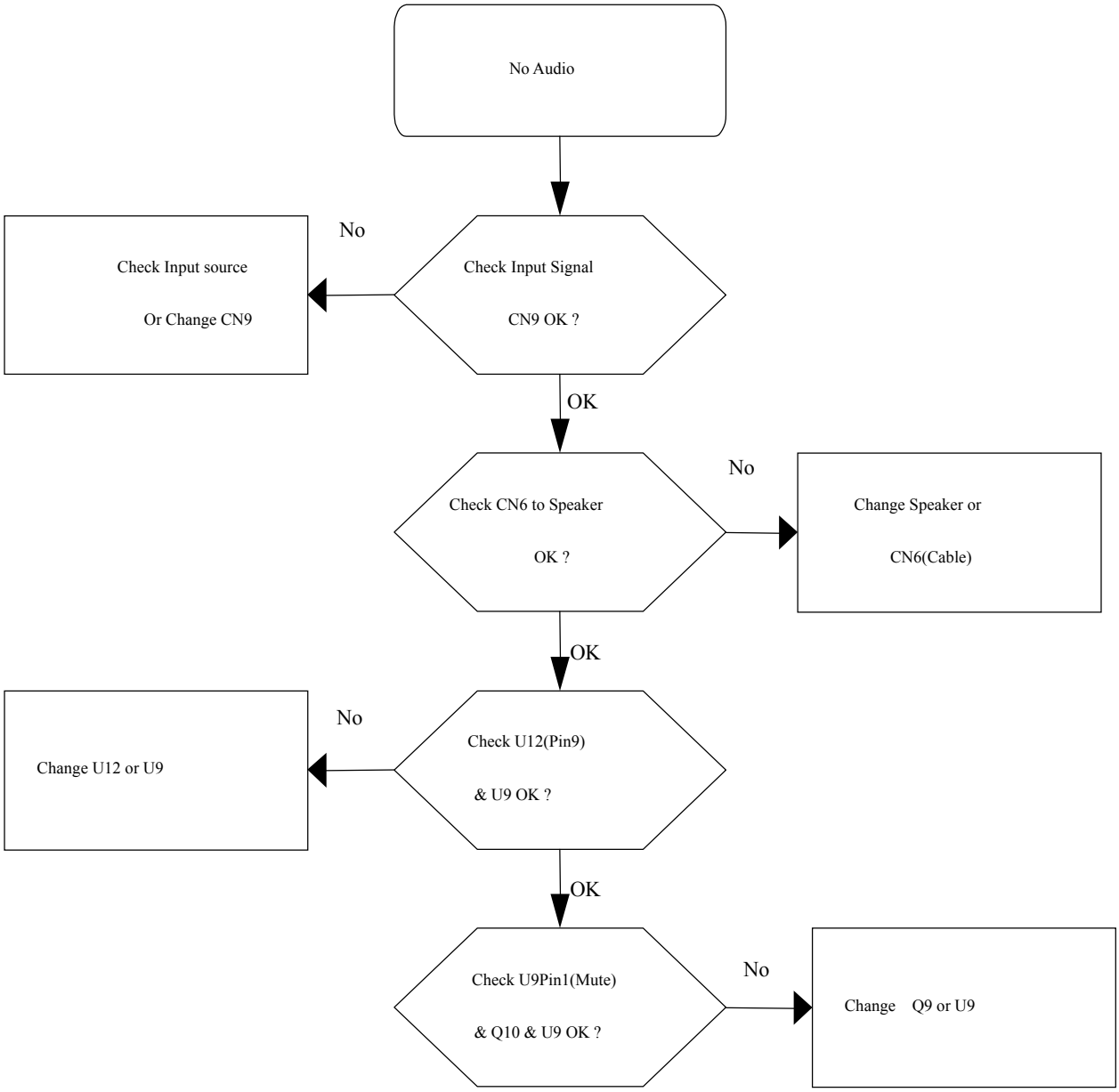
1. No Power



2. No Characters , Missing one color



3. No audio


No Audio
Check Input Signal
CN9 OK ?
No
Check Input source
Or Change CN9
OK
Check CN6 to Speaker
OK ?
No
Change Speaker or
CN6(Cable)
OK
Check U12(Pin9)
& U9 OK ?
No
Change U12 or U9
OK
Check U9Pin1(Mute)
& Q10 & U9 OK ?
No
Change Q9 or U9

Chapter 5

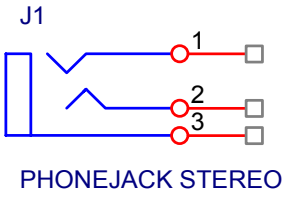
Connector Information

Phonejack stereo

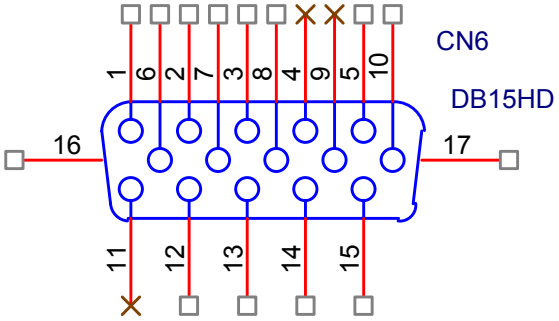
PIN1. AC power cord : CEE22 typed connector

PIN2. Audio cable

PIN3. Audio : Line-in receptacle



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



PIN	MNEMO	SIGNAL
1	RV	Red Video
2	GV	Green Video
3	BV	Blue Video
4	NC	None
5	GND	Ground(DDC return)
6	RG	Red GND
7	GG	Green GND
8	BG	Blue GND
9	+5V	+ 5V (for DDC)
10	SG	Sync GND
11	NC	None
12	SDA	DDC Data
13	HS	Horizontal Sync
14	VS	Vertical Sync
15	SCL	DDC Clock

Proprietary connecting of DVI box

The 44 pin of proprietary DVI box is defined as follows:

1	RX2-	23	SCART_FUNC
2	RX2+	24	KEY3
3	RX1-	25	SCART RGB_CON
4	RX1+	26	SCL5V
5	RX0-	27	nYCOEN
6	RX0+	28	SDA5V
7	RXC-	29	NVDSW_SEL
8	RXC+	30	HSCL
9	GND	31	REST
10	GND	32	HSDA
11	Y0	33	DVI_ DETECT
12	Y1	34	CORD_ RESET
13	Y2	35	CORD_DETECT
14	Y3	36	ADO_L
15	Y4	37	DETECT
16	Y5	38	AGND
17	Y6	39	IR0
18	Y7	40	ADO_R
19	LLC VPC	41	V51R
20	KEY1	42	GND
21	GND	43	V12
22	KEY2	44	V12

Chapter 6

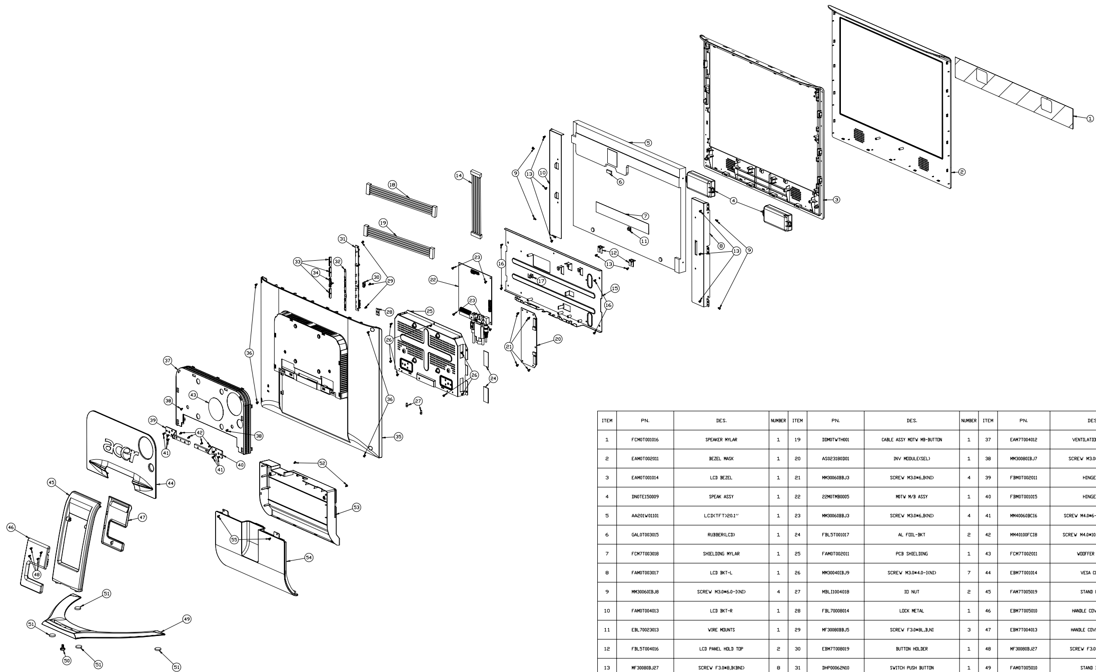
FRU (Field Replaceable Unit) list

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL2032W. 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 CERVICE 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.

AL2032W Exploded Diagram

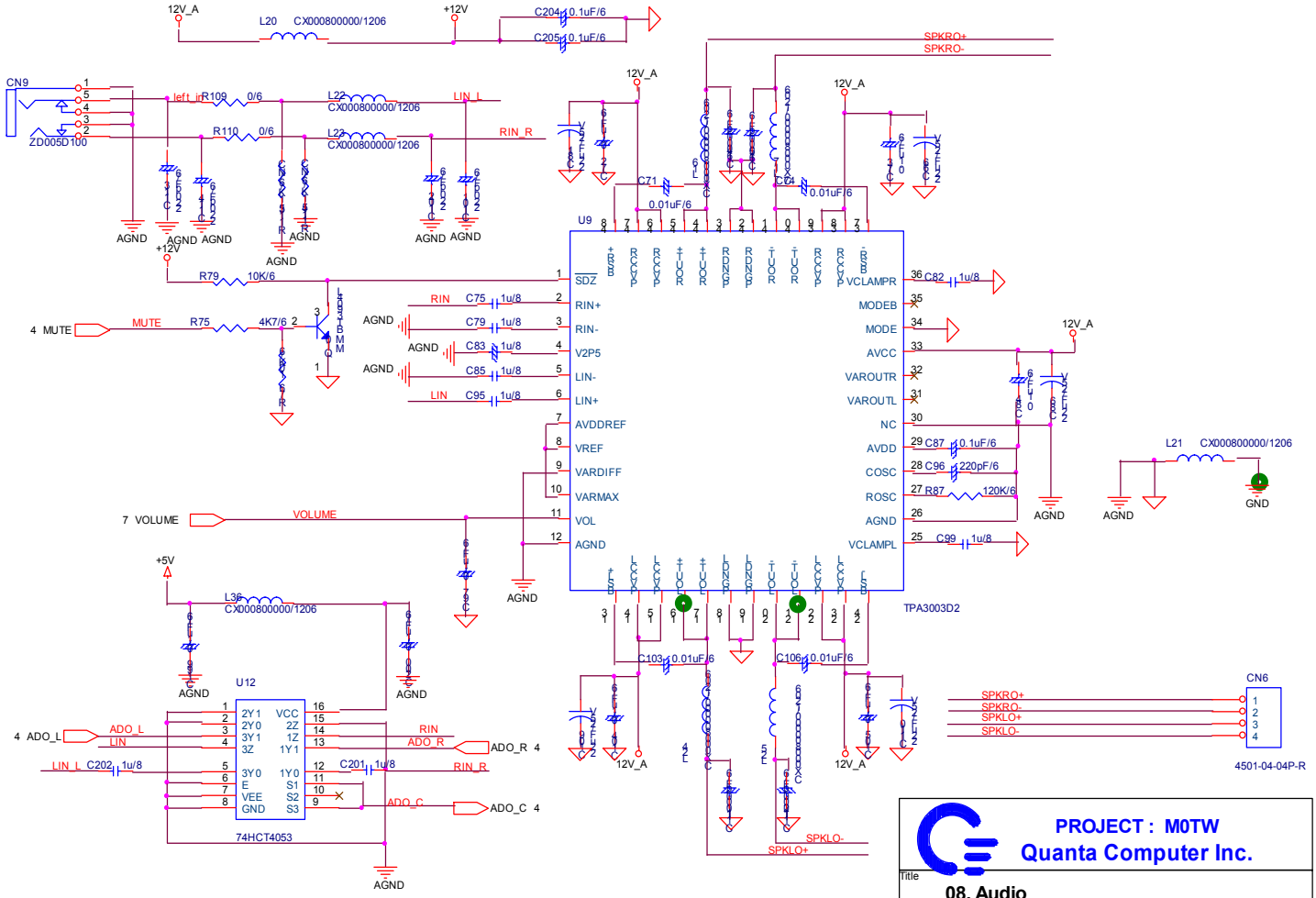


ITEM	PN.	DES.	NUMBER	ITEM	PN.	DES.	NUMBER	ITEM	PN.	DES.	NUMBER	ITEM	PN.	DES.	NUMBER
1	FCM0T001016	SPEAKER MYLAR	1	19	DDM0TWTH001	CABLE ASSY M0TW MB-BUTTON	1	37	EAM7T004012	VENTILATION COVER	1	55	MM30060BBJ3	SCREW M3.0*6,B(NI)	2
2	EAM0T002011	BEZEL MASK	1	20	AS023180D01	INV MODULE(SEL)	1	38	MM30080IBJ7	SCREW M3.0*8.0-I(NI)	2				
3	EAM0T001014	LCD BEZEL	1	21	MM30060BBJ3	SCREW M3.0*6,B(NI)	4	39	FBM0T002011	HINGE(R)	1				
4	DN0TE150009	SPEAK ASSY	1	22	22M0TMB0005	M0TW M/B ASSY	1	40	FBM0T001015	HINGE(L)	1				
5	AA201W01101	LCD(TFT)20.1"	1	23	MM30060BBJ3	SCREW M3.0*6,B(NI)	4	41	MM40060BCI6	SCREW M4.0*6-B(NI,NYLOK)	6				
6	GAL0T003015	RUBBER(LCD)	1	24	FBL5T001017	AL FOIL-BKT	2	42	MM40100FCI8	SCREW M4.0*10,F(NI,NYLOK)	4				
7	FCM7T003018	SHIELDING MYLAR	1	25	FAM0T002011	PCB SHIELDING	1	43	FCM7T002011	WOOFFER MYLAR	1				
8	FAM0T003017	LCD BKT-L	1	26	MM30040IBJ9	SCREW M3.0*4.0-I(NI)	7	44	EBM7T001014	VESA COVER	1				
9	MM30060IBJ8	SCREW M3.0*6.0-I(NI)	4	27	MBLI1004018	IO NUT	2	45	FAM7T005019	STAND NECK	1				
10	FAM0T004013	LCD BKT-R	1	28	FBL70008014	LOCK METAL	1	46	EBM7T005010	HANDLE COVER/BACK	1				
11	EBL70023013	WIRE MOUNTS	1	29	MF30080BBJ5	SCREW F3.0*8L,B,NI	3	47	EBM7T004013	HANDLE COVER/FRONT	1				
12	FBL5T004016	LCD PANEL HOLD TOP	2	30	EBM7T008019	BUTTON HOLDER	1	48	MF30080BJ27	SCREW F3.0*8,B(BNI)	4				
13	MF30080BJ27	SCREW F3.0*8,B(BNI)	8	31	DHP00062N10	SWITCH PUSH BUTTON	1	49	FAM0T005010	STAND BASE	1				
14	DDM0TWLC001	CABLE ASSY M0TW MB-LCD	1	32	FBM7T003017	BUTTON SPRING	1	50	MS50100IFF1	SCREW M5.0*10,I(NI)	1				
15	FAM0T001014	PCB BKT	1	33	EBM7T002011	CONTROL BUTTON	3	51	GAL70001019	RUBBER FOOT	4				
16	MM30040IBJ9	SCREW M3.0*4.0-I(NI)	4	34	EBM7T003017	SEESAW BUTTON	1	52	MF30080PBJ4	SCREW F3.0*8-P(NI)	2				
17	EBL70023013	WIRE MOUNTS	1	35	EAM0T003017	LCD COVER	1	53	EBM7T006016	TV BOX BASE/DUMMY	1				
18	DDM0TWIV007	CABLE ASSY M0TW MB-INV	1	36	MF30080BJ27	SCREW F3.0*8,B(BNI)	4	54	EBM7T007012	TV BOX COVER/DUMMY	1				

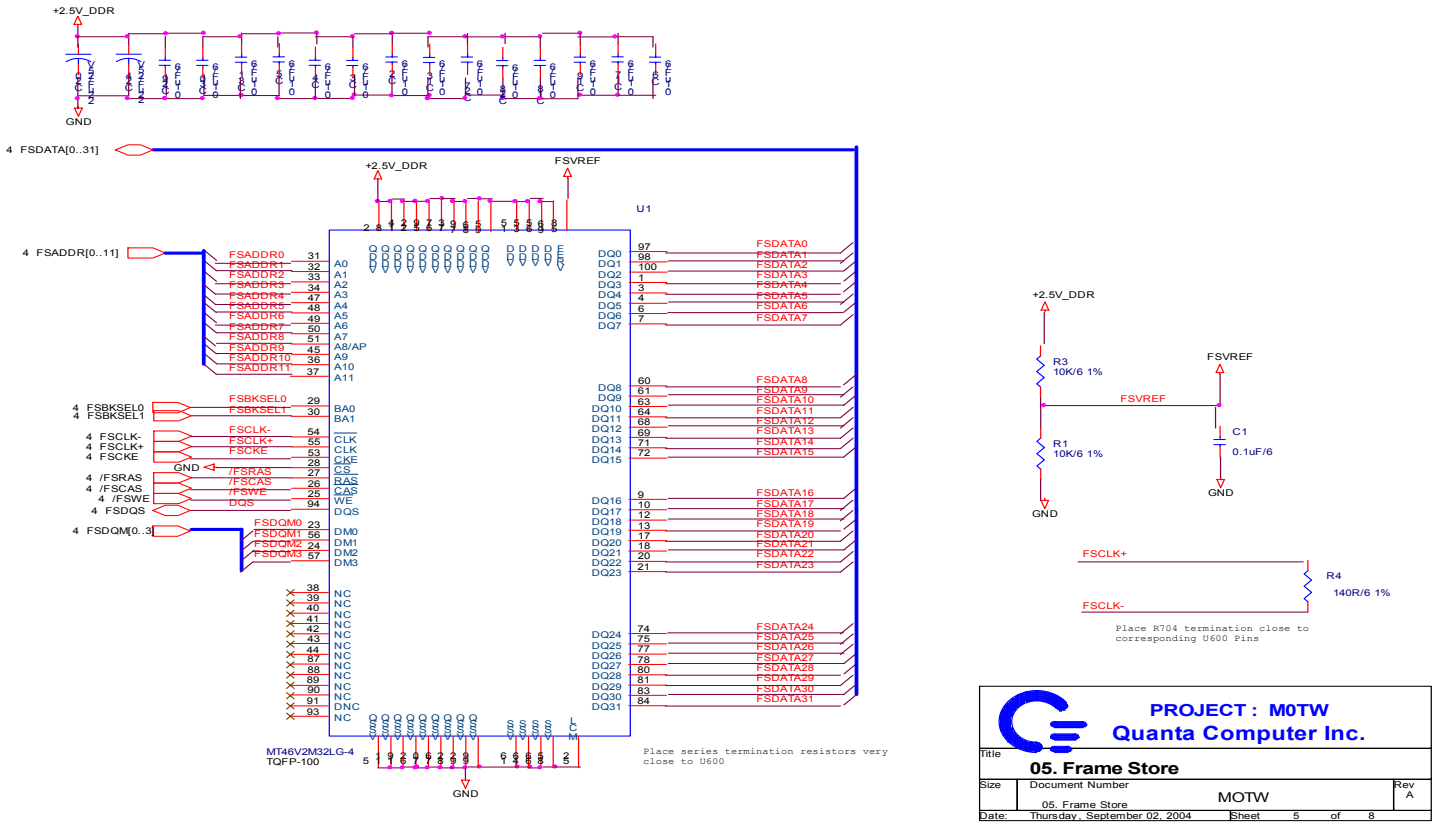
Chapter 7

SCHEMATIC DIAGRAM

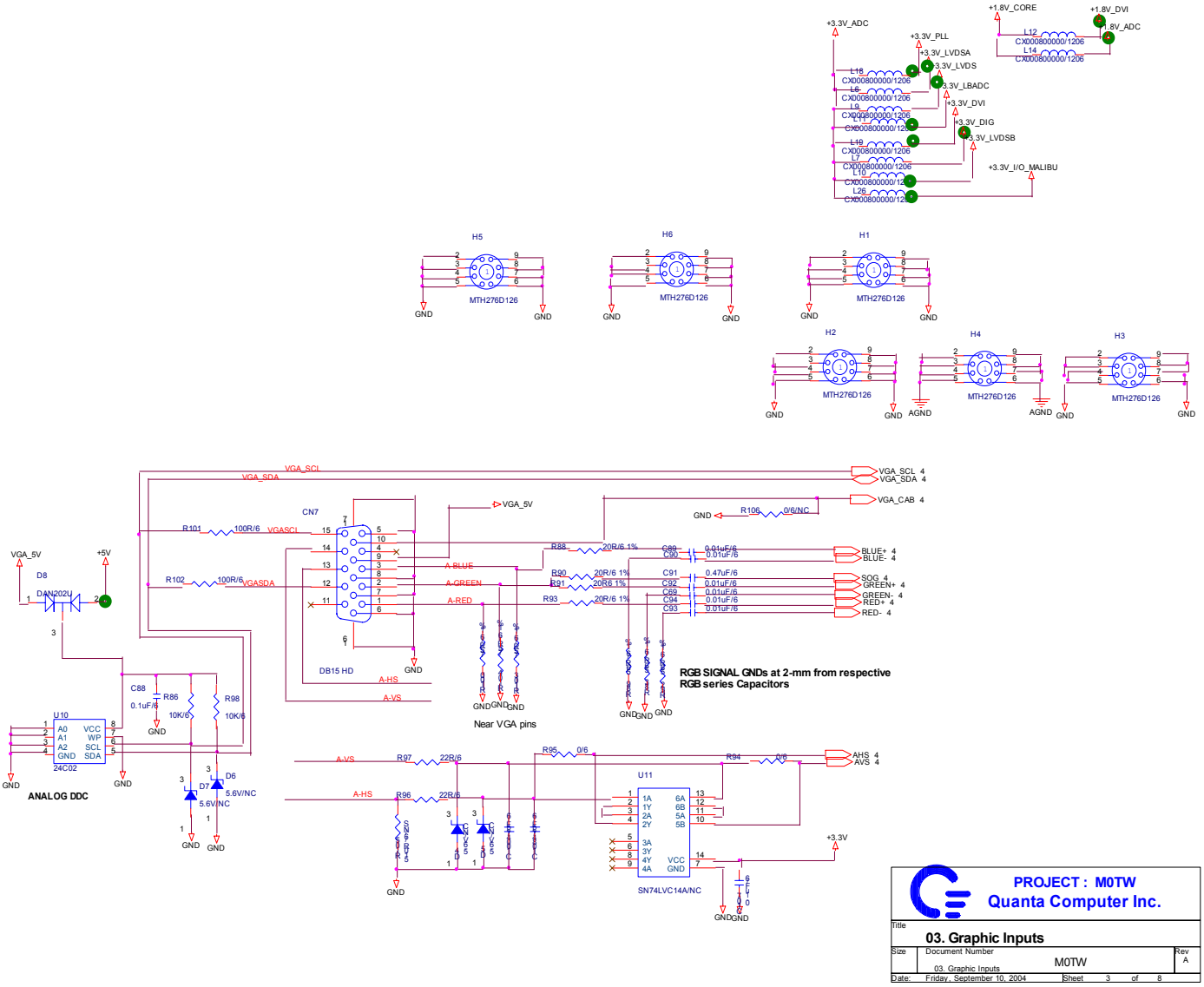
Main Board Circuit



	PROJECT : M0TW Quanta Computer Inc.	
Title	08. Audio	
Size	Document Number 08. Audio	Rev A
Date: Tuesday, September 14, 2004	Sheet 8 of 8	



	PROJECT : M0TW Quanta Computer Inc.	
Title	05. Frame Store	
Size	Document Number 05. Frame Store	Rev A
Date: Thursday, September 02, 2004	Sheet 5 of 8	



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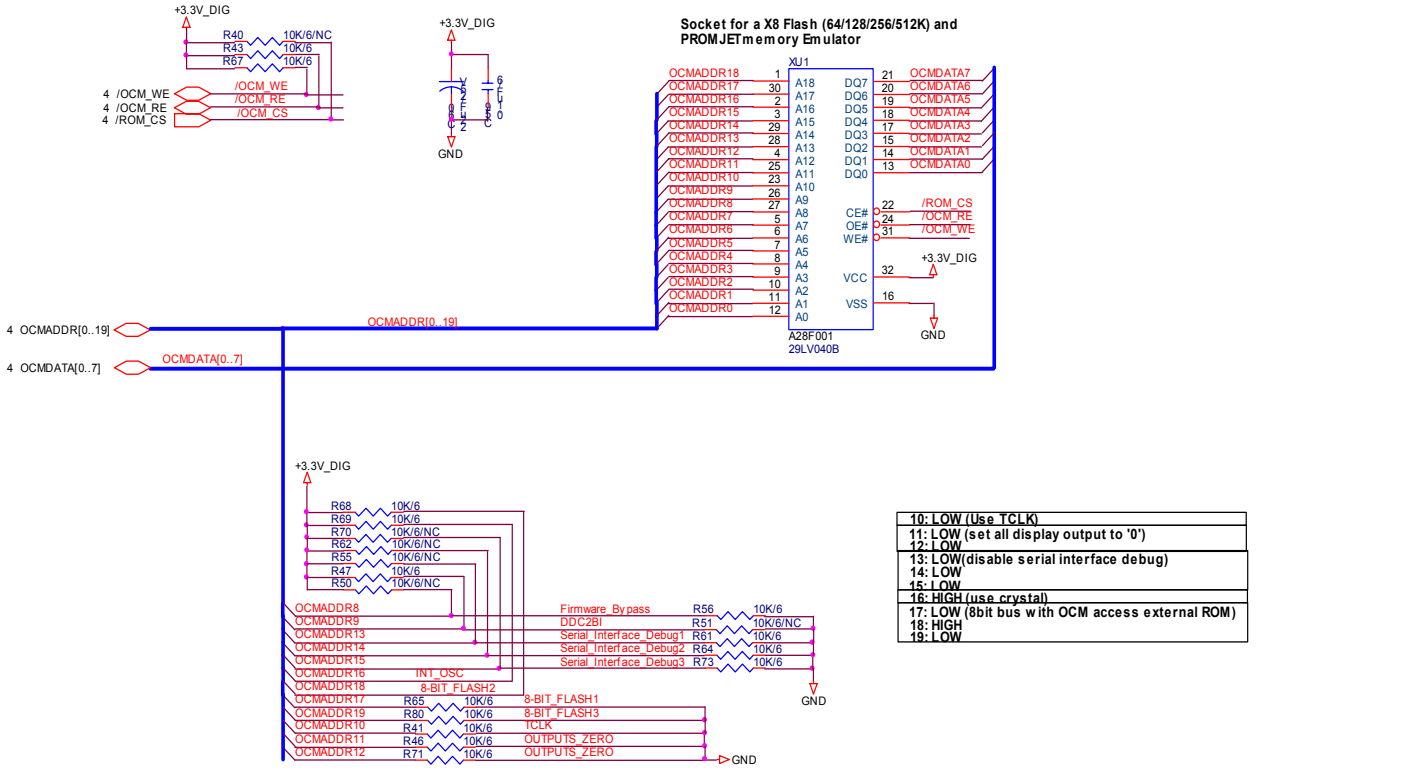
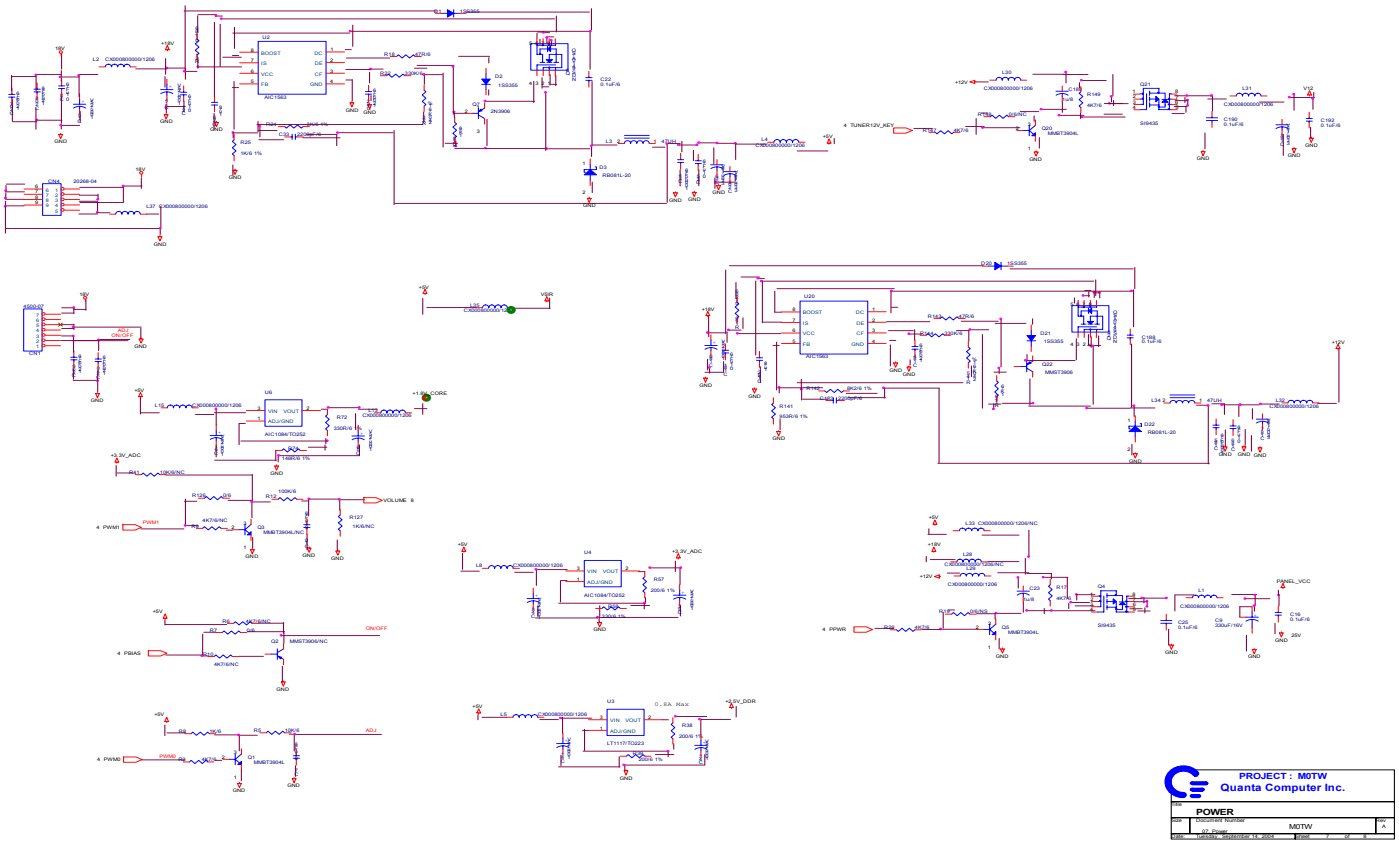
Size	Document Number 03. Graphic Inputs M0TW	Rev A
Date: Friday, September 10, 2004	Sheet 3 of 8	



10: LOW (Use TCLK)
11: LOW (set all display output to '0')
12: LOW
13: LOW(disable serial interface debug)
14: LOW
15: LOW
16: HIGH (use crystal)
17: LOW (8bit bus with OCM access external ROM)
18: HIGH
19: LOW

PROJECT : M0TW
Quanta Computer Inc.

Title	06. Memory I/F	
Size	Document Number: 06. Memory I/F — M0TW	Rev A
Date: Thursday, September 02, 2004	Sheet 6 of 8	



PROJECT : M0TW
Quanta Computer Inc.
POWER