

Acer B173

Service Guide

Service guide files and updates are available on the CSD web: for more information,

Please refer to <http://csd.acer.com.tw/>



100% Recycled Paper

Copyright

Copyright © 2003 by Acer Incorporated. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of Acer Incorporated.

Disclaimer

The information in this guide is subject to change without notice. Acer Incorporated makes no representations or warranties, either expresses or implied, with respect to the contents hereof and specifically disclaims any warranties of merchantability or fitness for any particular purpose. Any Acer Incorporated software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not Acer Incorporated, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software.

Acer is a registered trademark of Acer Corporation.

Intel is a registered trademark of Intel Corporation.

Pentium and Pentium II/III are trademarks of Intel Corporation.

Other brand and product names are trademarks and/or registered trademarks of their respective holders.

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.

Table of contents

Chapter 1 MONITOR FEATURE.....	9
Chapter 2 OPERATING INSTRUTION	17
Chapter 3 MACHINE ASSEMBLY.....	24
Chapter 4 TROBLE SHOOTING.....	29
Chapter 5 CONNECTOR INFORMATION.....	38
Chapter 6 FRU LIST.....	40
Chapter 7 SCHEMATIC DIAGRAM	42

Monitor Feature

LCD Panel	Driving system	TFT Color LCD
	Size	17"
	Pixel pitch	0.264 mm
	Viewable angle	AUO: 160(H) x 160 (V) degree
		SAM: 160(H) x 160 (V) degree
	Brightness	AUO: 300 cd/m ² (typ.)
		SAM: 300 cd/m ² (typ.)
	Contrast Ratio	AUO: 800:1(typ.)
SAM: 1000:1(typ.)		
Response time	5ms (Tr+Tf)	
Input	Video	R,G,B Analog, DVI box (optional)
	Separate Sync	H/V TTL
	H-Frequency	31-80KHZ
	V-Frequency	56-75HZ
Display Color		AUO: 16.2 million Colors SAM: 16.7 million colors
Maximum Dot Clock ®		135MHz
Max Resolution		1280x1024@75HZ
Plug & Play		VESA FPMPI
EPA ENERGY STAR	ON Mode	<37W
	OFF Mode	<1W
Audio output		Rated Power 2.0W rms(Per channel)
Input Connector		D-Sub 15 pin, DVI 24 pin,(optional)
Input Video Signal		Analog : 0.7Vp-p,75OHM
Screen Size (Active)		Horizontal : 337.9mm
		Vertical : 270.3mm
Power Source		90~264 Vac, 47~63HZ
Environmental Considerations		Operating Temp : 5 to 40 degree ; Storage Temp : -20 to 0 degree ; Operating Humidity : 20% to 80%
Weight (N.W.)		TBD kg
Dimension		430(W) x 425(H) x 215 (D) mm(with packing)

External Controls :	Switch	<ul style="list-style-type: none"> * Power Switch * MENU * < / Volume * > / Volume * AUTO * e-color
		<ul style="list-style-type: none"> * Contrast/brightness * Focus * Clock * H.Position * W.Position * Language * OSD Color temperature * OSD Position & Timeout * Auto Config * Input * Information * Reset * Exit
Regulatory Compliance		cUL, UL, TUV, CE, TCO03, CSA, FCC

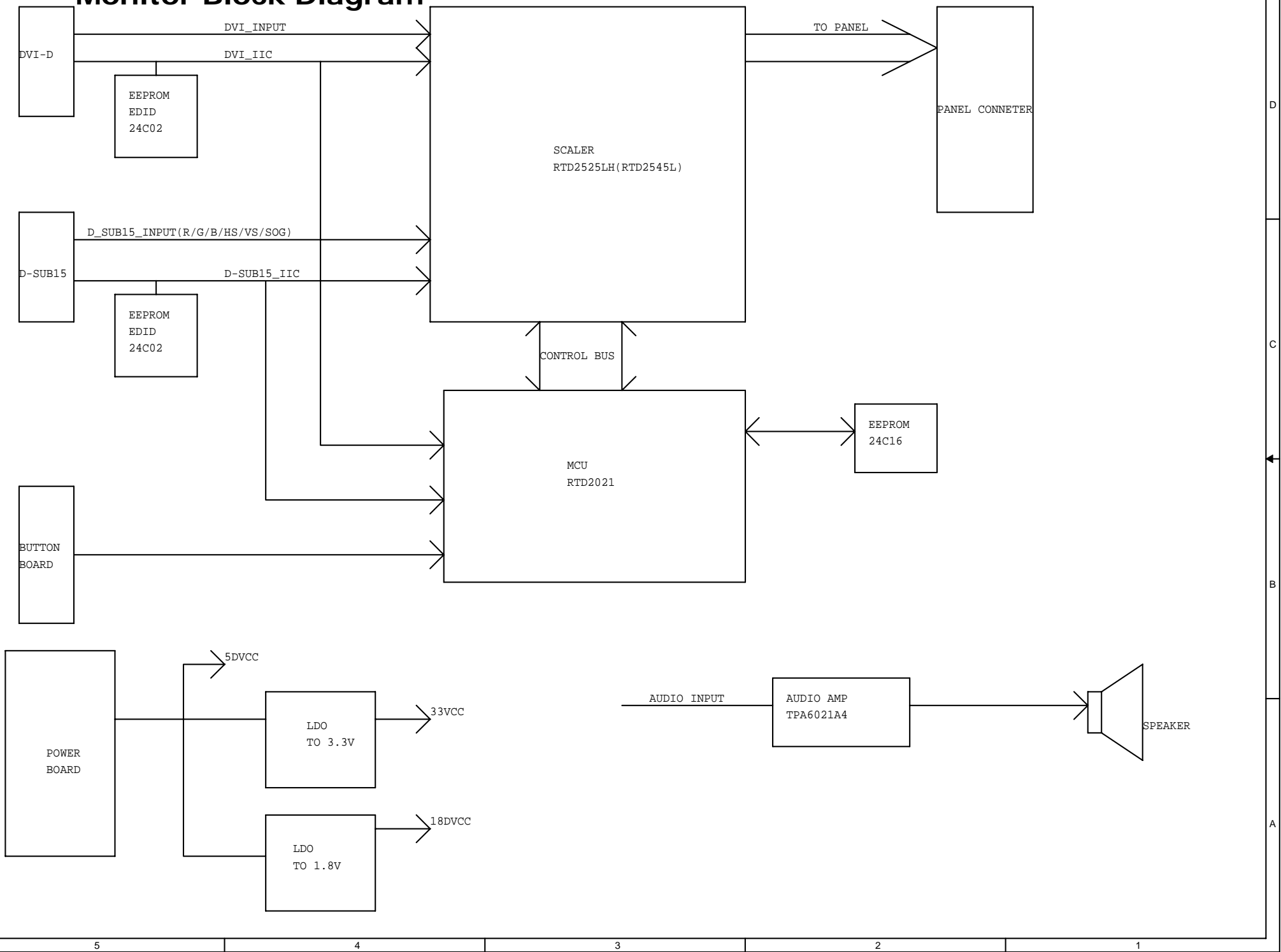
Timings

The product has 26 memory modes in total. 16 modes are preset and 10 modes are user definable.

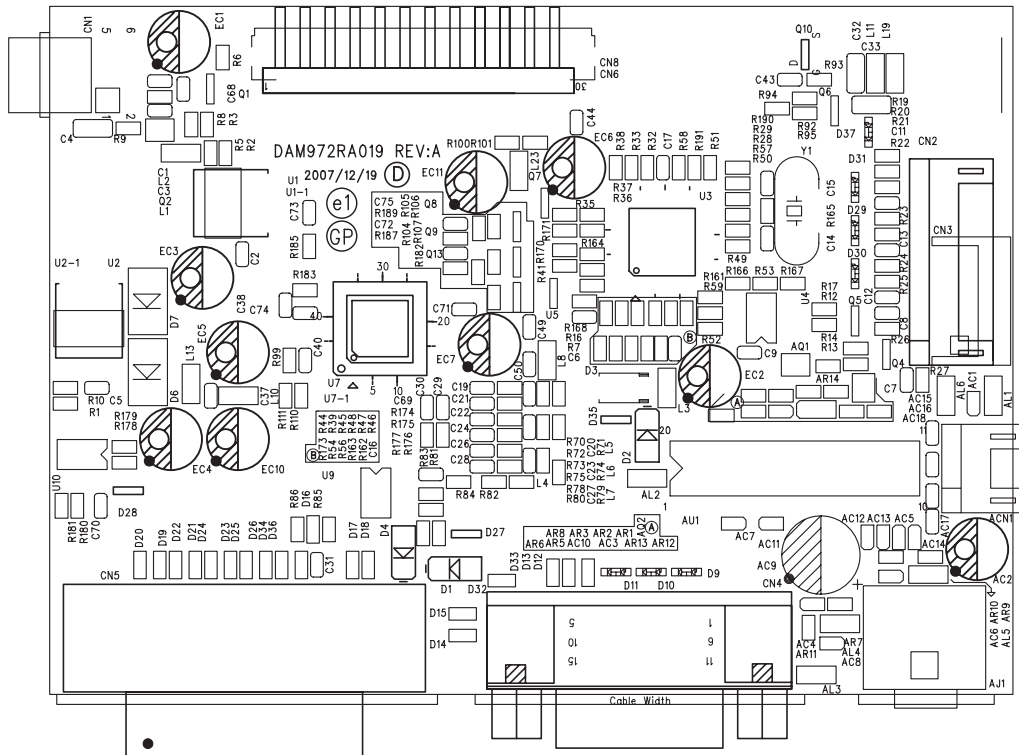
MODE NO.	1	2	3	4
RESOLUTION	720 x 400	640 x 480	640x480	640 x 480
Dot clock(MHz)	28.321	25.175	30.24	31.5
f h	31.469kHz	31.469kHz	35.0kHz	37.861kHz
H-Total (us)	31.78(900dots)	31.778 (800 dots)	28.571(864 dots)	26.413 (832 dots)
H-Sync (us)	3.813(108dots)	3.813 (96 dots)	2.116 (64 dots)	1.270(40 dots)
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

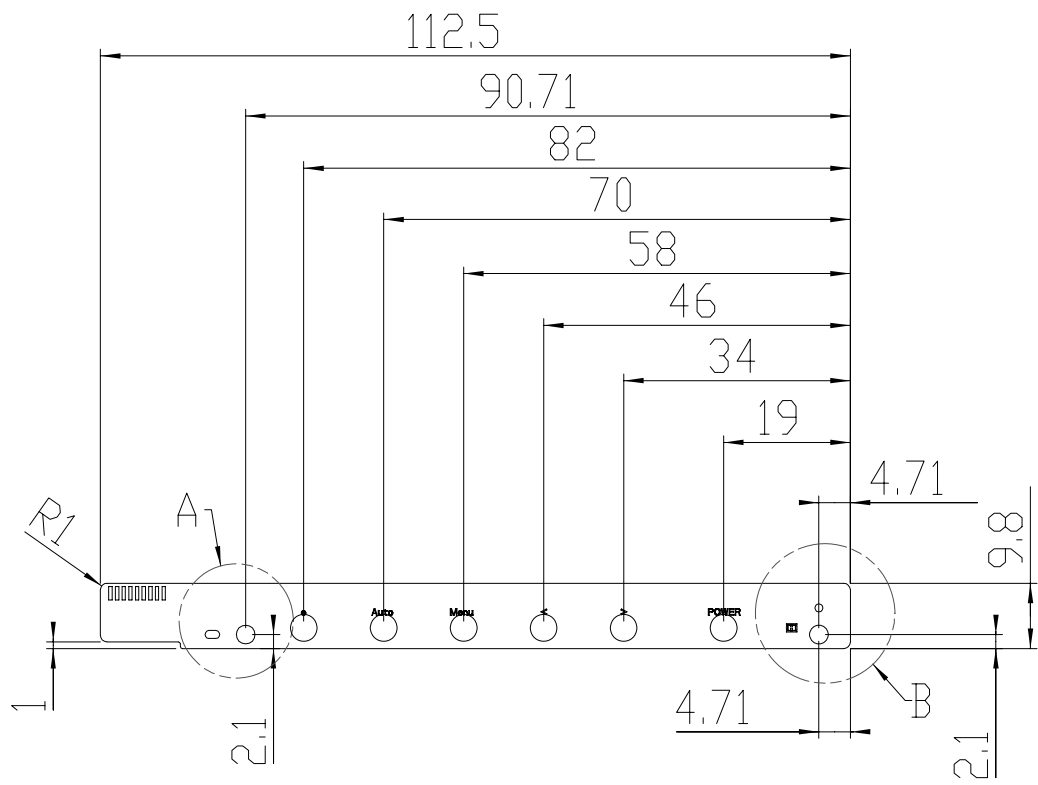
MODE NO.	9	10	11	12
RESOLUTION	800 x 600	832 x 624	1024 x 768	1024 x 768
Dot clock(MHz)	50	57.283	65	75
f h	48.077kHz	49.72kHz	48.363kHz	56.48kHz
H-Total (us)	20.80 (1040dots)	20.11(1152 dots)	20.677(1344 dots)	17.71(1328 dots)
H-Sync (us)	2.400 (120 dots)	1.12(64 dots)	2.092(136 dots)	1.81(136 dots)
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

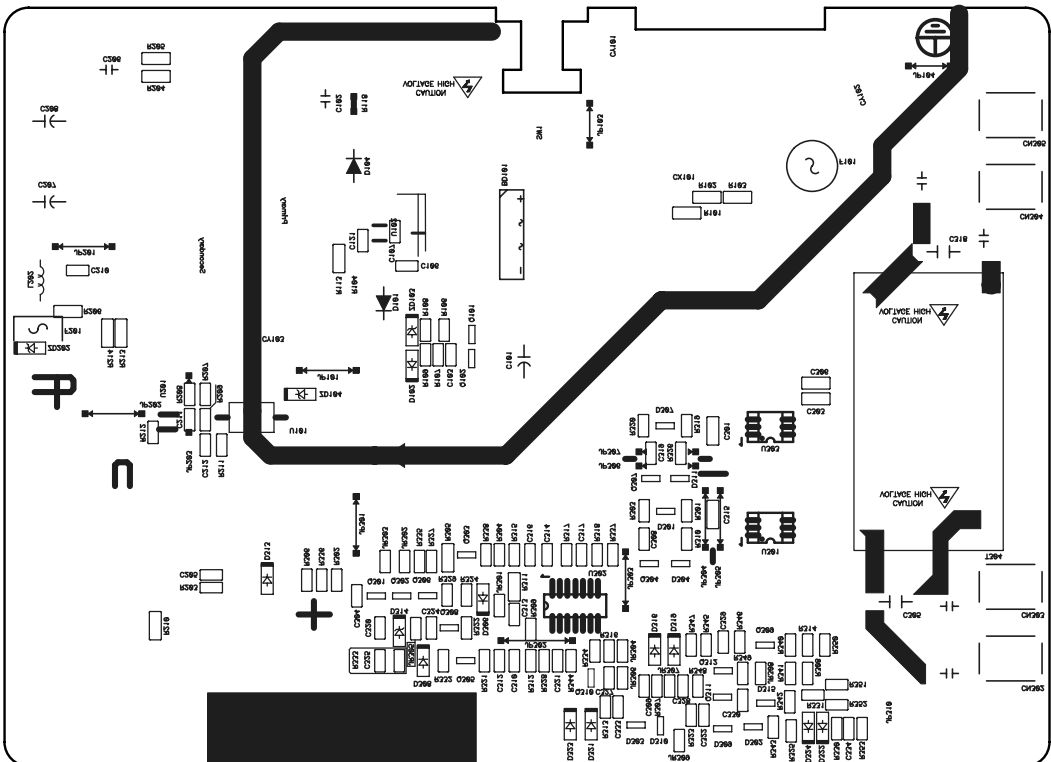
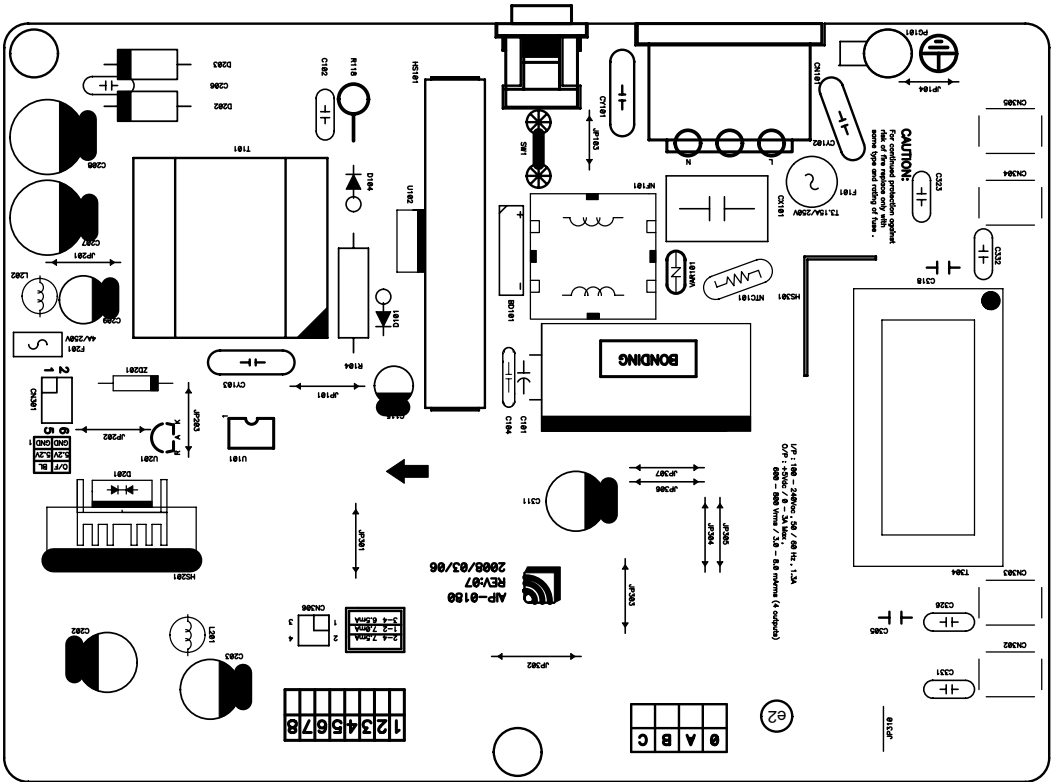
Monitor Block Diagram



PCB CONDUCTOR VIEW







OPERATING INSTRUCTIONS

Front Panel Definition

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


Key Definition:

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

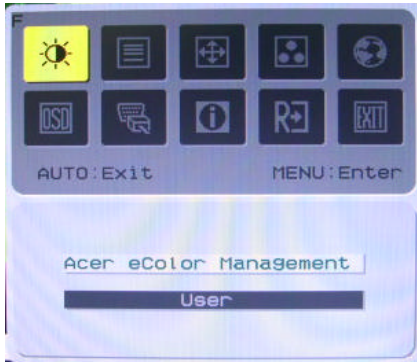
* Adjusting display settings(User can select the key "AUTO + < + POWER" to enter factory mode)



External Controls

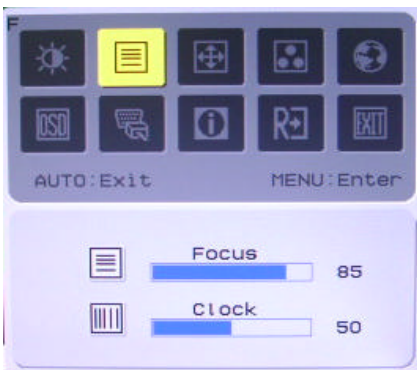
1		POWER	Power on/off Blue: power on Amber: in sleep mode
2	MENU	OSD Function	Press to view OSD. Press again to exit a selection in OSD.
3	<	LEFT / PLUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked < or > to adjust the volume.
4	>	RIGHT / MINUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked < 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
6	e	eColor	Adjusted Brightness and Contrast by e-color, there are 5 options for your reference: User, Text, Standard, Graphics, Movie

OSD menu



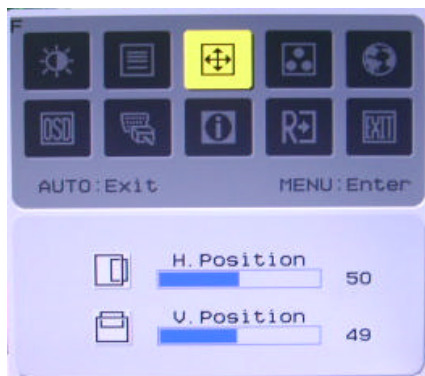
Acer eColor Management:
Brightness and Contrast adjusted by Acer eColor Management.

User:
Brightness and Contrast adjusted by User mode.



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.

V-Position:
This adjusts the vertical.

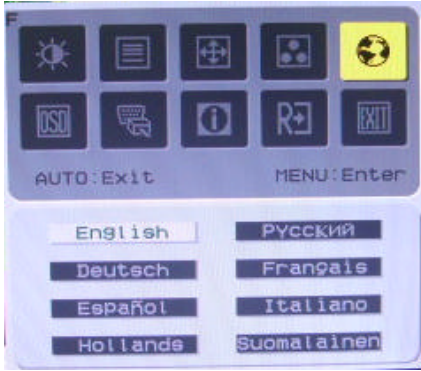


Color adjustment:
There are three ways to adjust color:

Warm (reddish white)

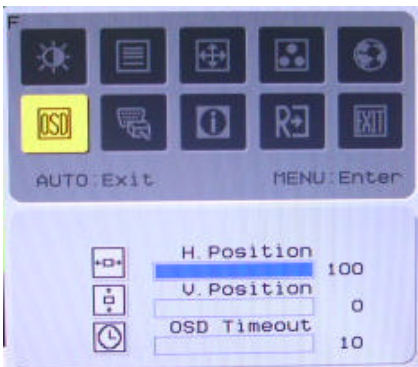
Cool (bluish white)

User (you can adjust the colors red, green and blue to the intensity you desire)



Language for EU:
English, Deutsch, Espanol, Hollands, Pyccknn, Francais, Italiano,

Suomalainen



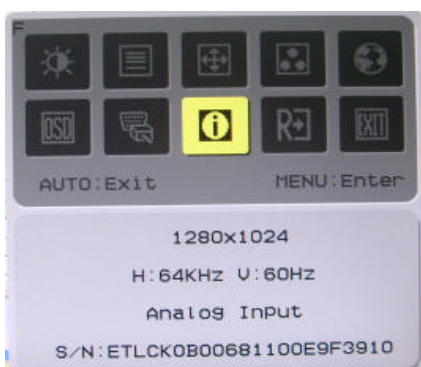
OSD Settings:

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



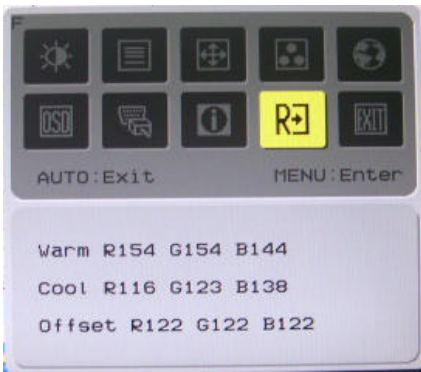
Input signal:

Select either **Analog Input** or **Digital Input** video.



Information:

This shows information about the screen.



This page only be visible in factory mode

R,G,B OFFSET :

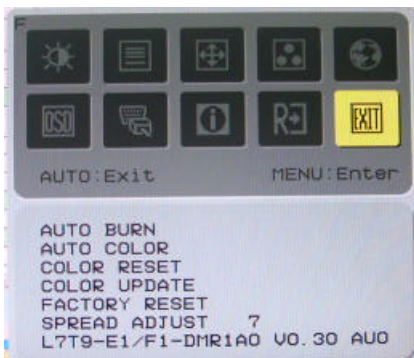
Adjust current RGB cut off level

R,G,B GAIN :

Adjust current RGB Driver value.

SPREAD :

Adjust chip set internal frequency spread effect for EMI testing.



This page only be visible in factory mode

AUTO BURN :

Use the chip set internal pattern for hot running monitor panel and inverter.

AUTO COLOR :

Perform Auto Balance measurement by chip set internal signal. And reference these values to initial all other color temperature detail parameters.

COLOR UPDATE:

Force presently R,G,B offset and gain parameters update to currently temperature memory address.

FACTORY RESET :

Recall to factory setting and power off immediately.

VERSION :

Display F/W version and panel vender and DDC serial no.

Acer e-color management



 key

	Brightness	Contrast
User	77	50
Text	44	50
Standard	77	50
Graphics	97	60
Movie	77	56

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.

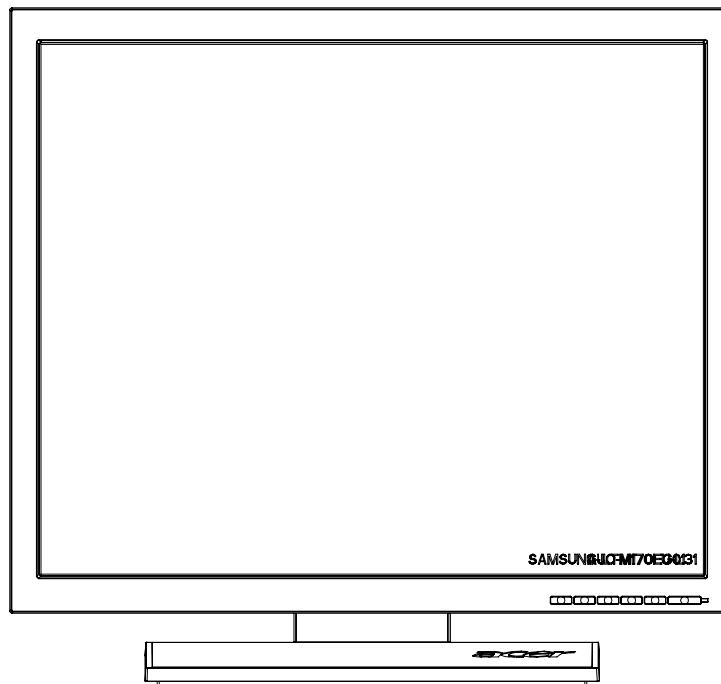
Please note that power supply card needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

Machine assembly

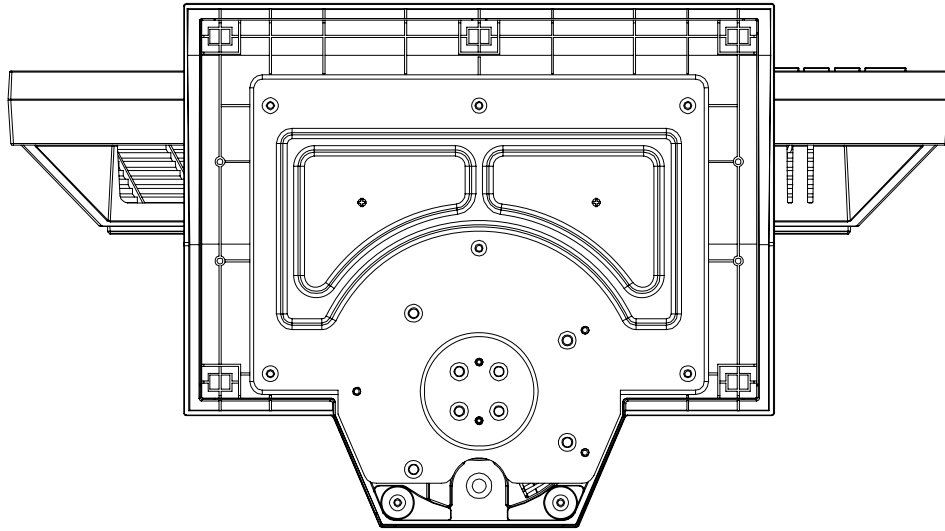
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

- 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.

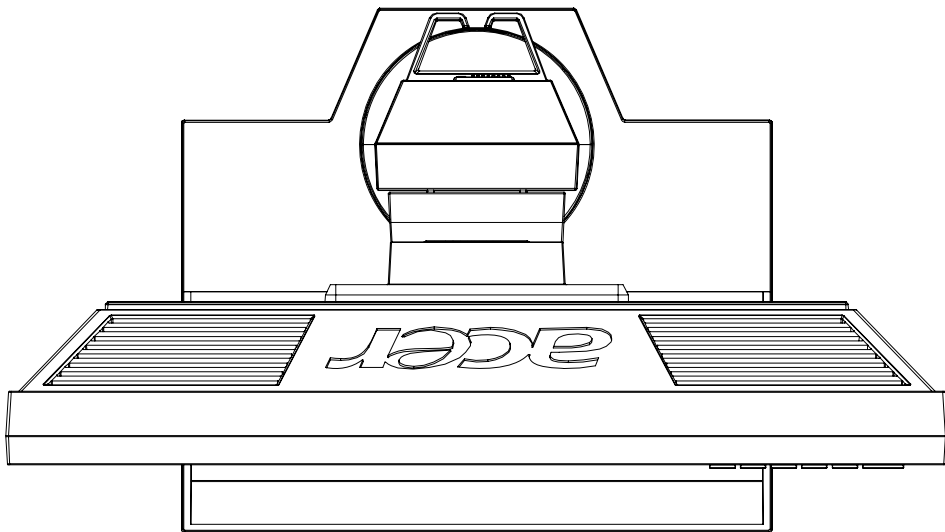
Front View: (unit: mm)



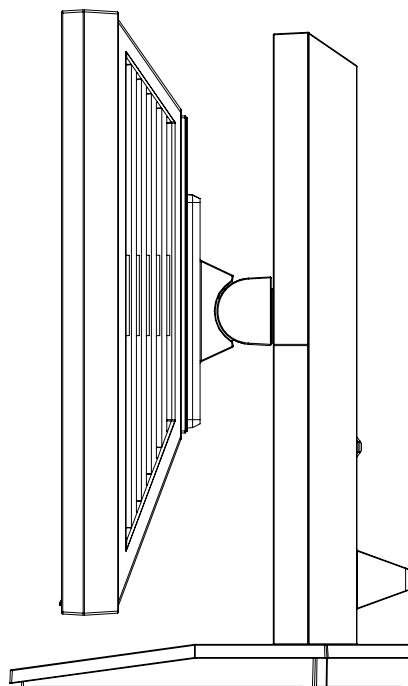
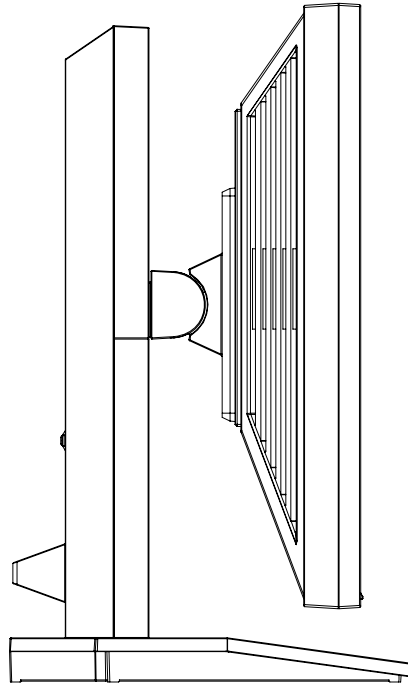
Real View:



Top View:



Side View: (unit: mm)



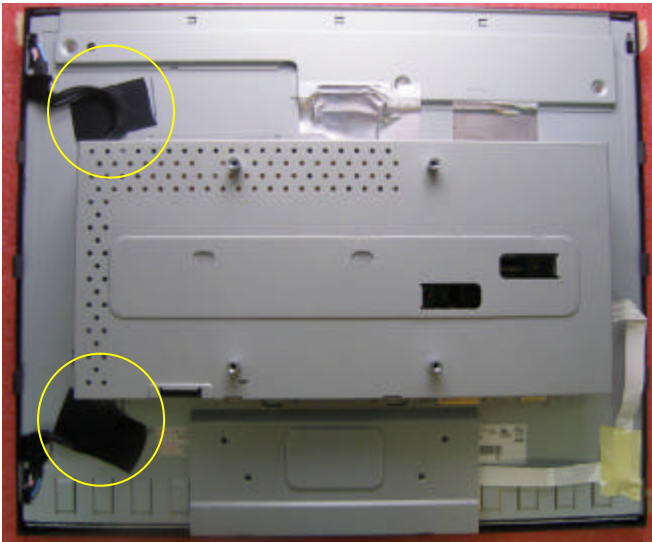
Assembly Procedure



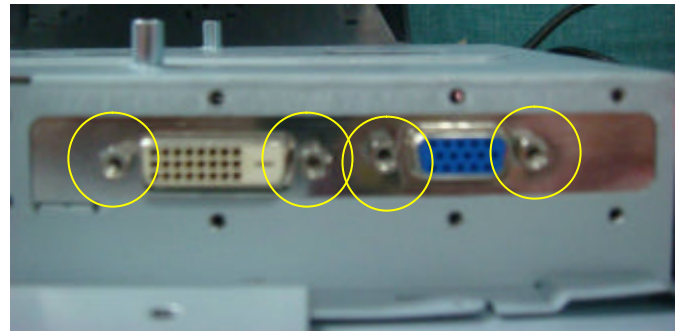
1. Remove 4pcs screws from adjusted stand.



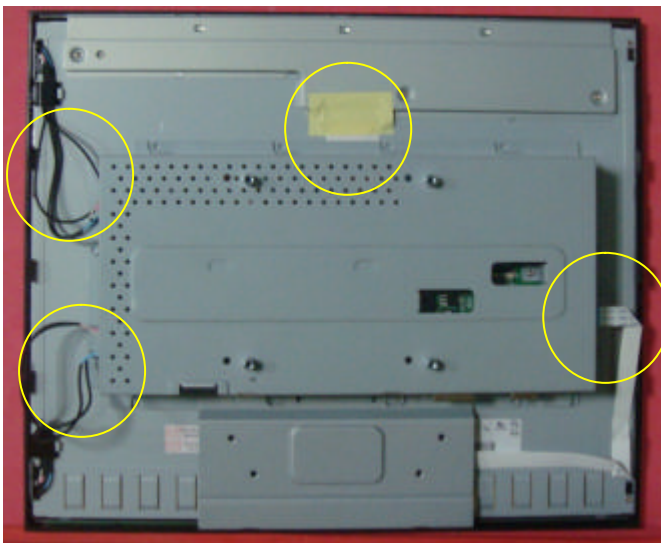
2. Take off the rear cover from LCD.



3. Tear off all the tapes and connectors.



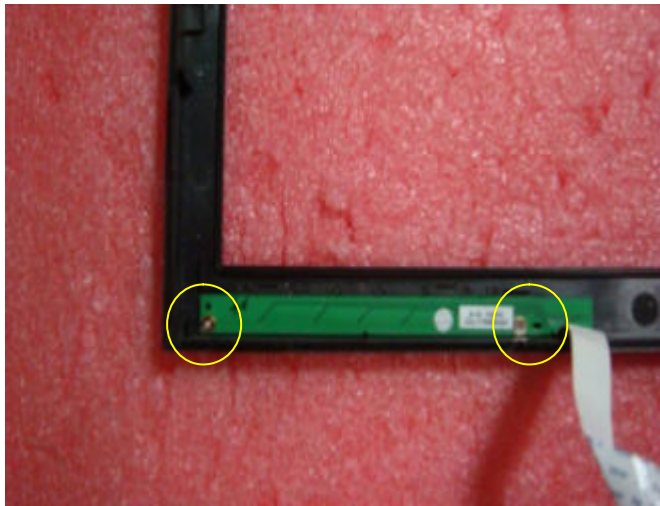
4. Remove 4pcs IO NUTS from joints.



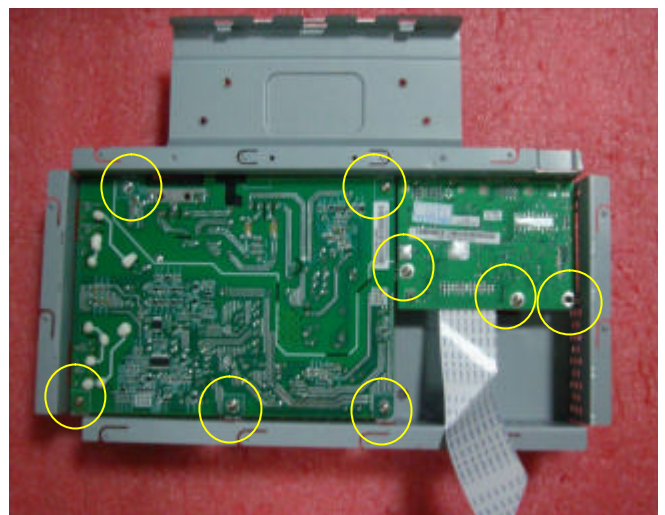
5. Tear off the lamp cables from p/b and the LVDs cable from panel.



6. Take off the LCD bezel from panel.



7. Take off 2pcs screws from b/b and take off it from bezel.

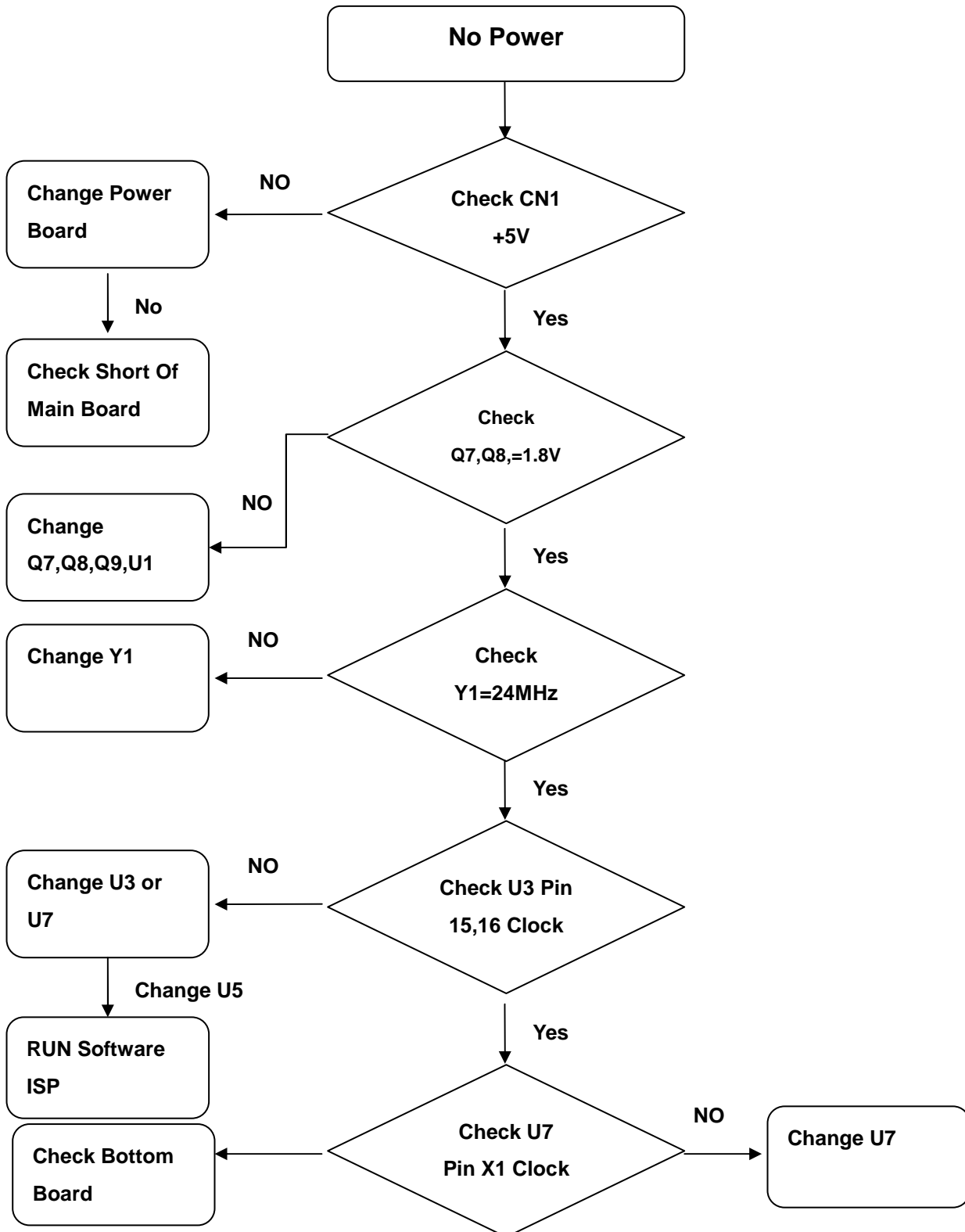


8. Remove 8pcs screws from m/b and p/b, then disconnect them from PCB shielding.

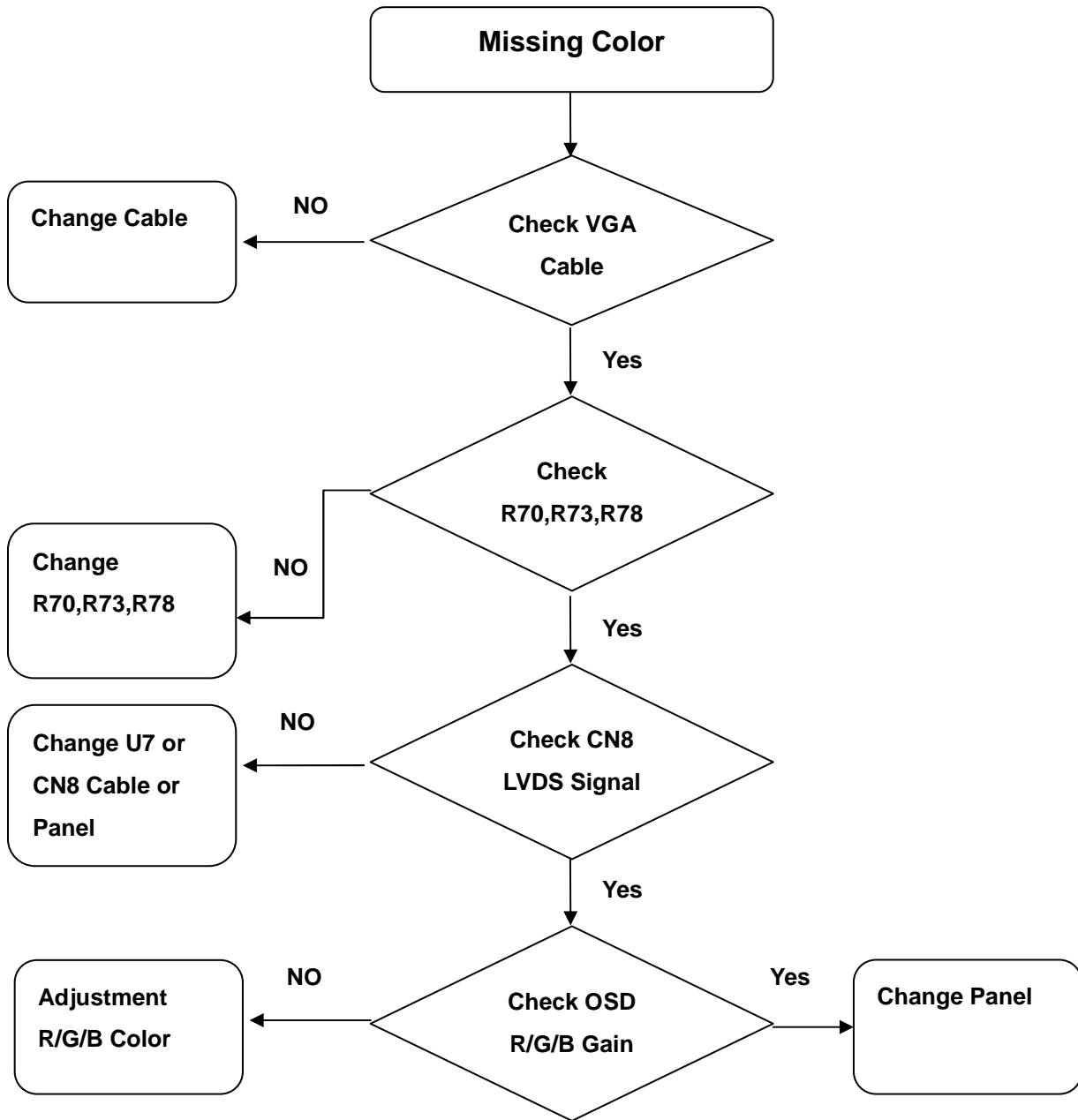
TROUBLE SHOOTING

This chapter provides trouble shooting information for B173

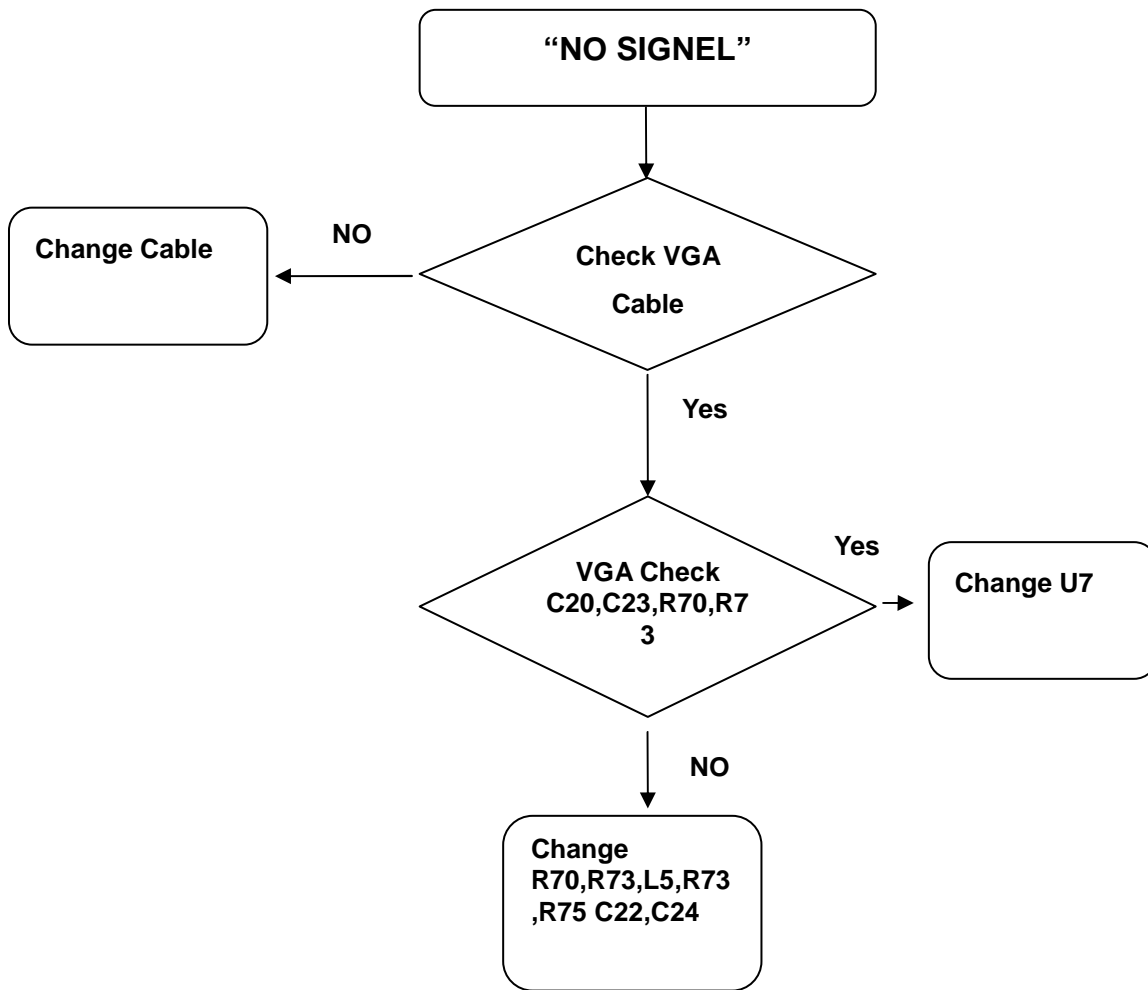
1. No Power



2. Missing Color



3. Always show "NO SIGNAL"



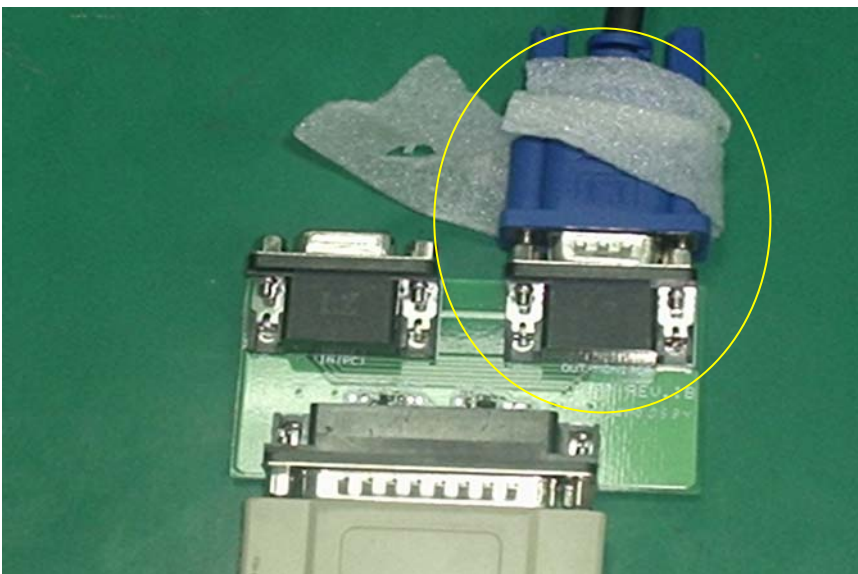
RTD Tool Only ISP Basic operations

Before write

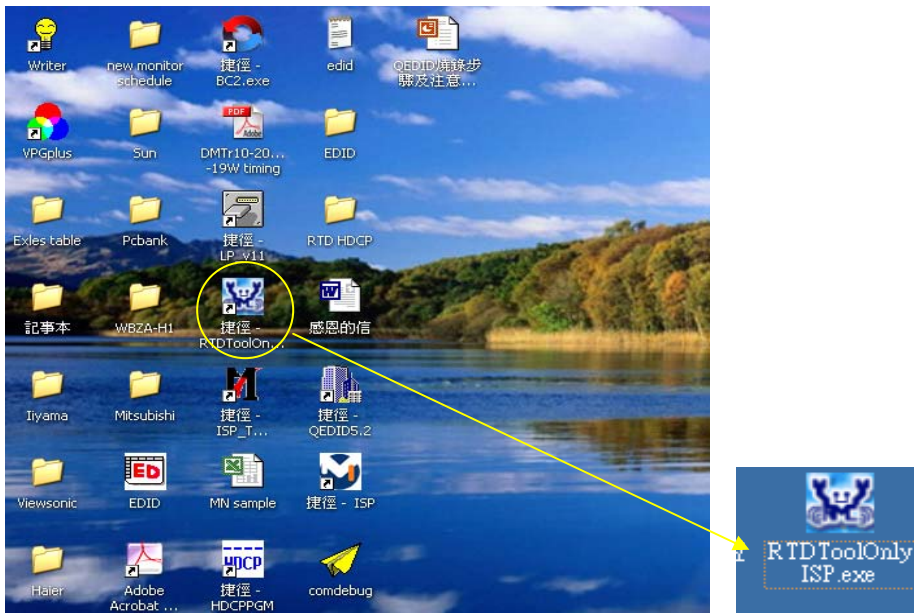
1. Please insure connect LPT cord to PC LPT Port.
2. The correct connection ISP tool to LPT Cord.



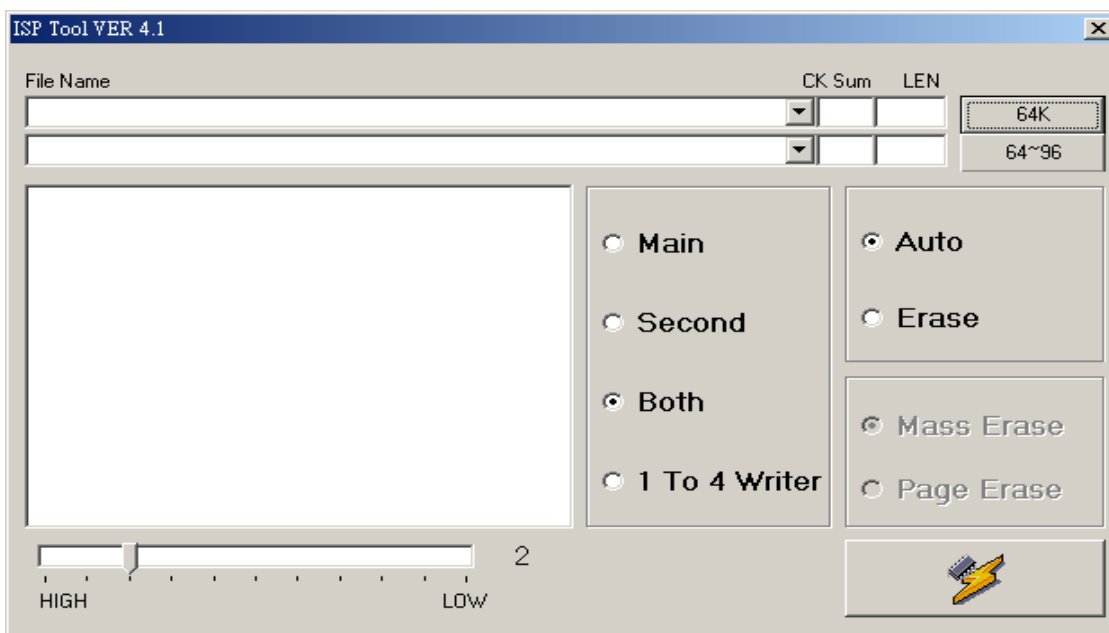
When write BIOS, Need connect VGA Cord to ISP tool



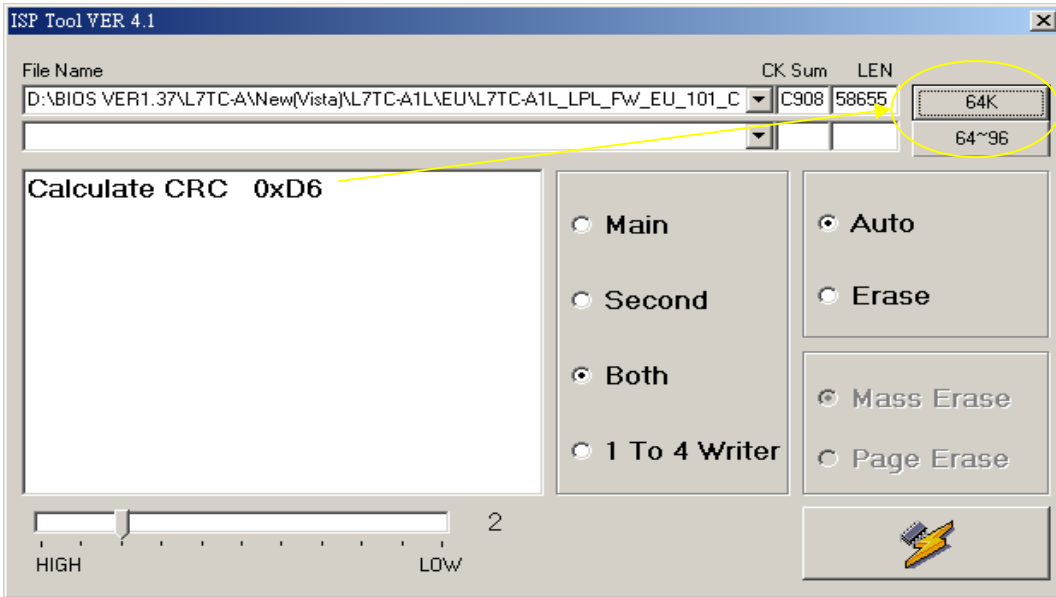
Double Click "RTD TOOL ONLY ISP" procedure ◦



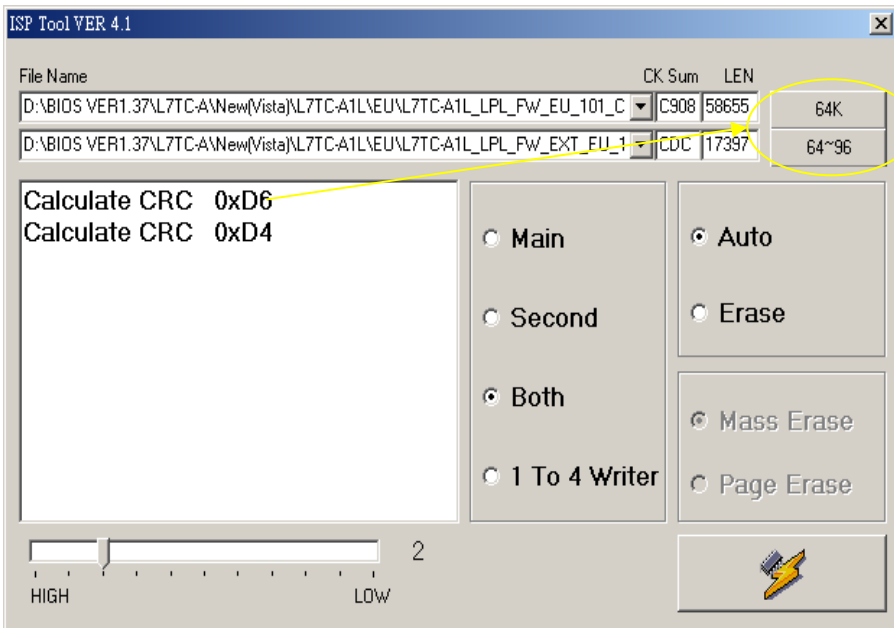
Pop out the follow operation surface



Click 64K, choose the first bios file (bios file choose from the local disk)



Click 64K~96K, choose the second bios file (the first and the second files save together)



Setup file properties

Main acts as the main writing file.

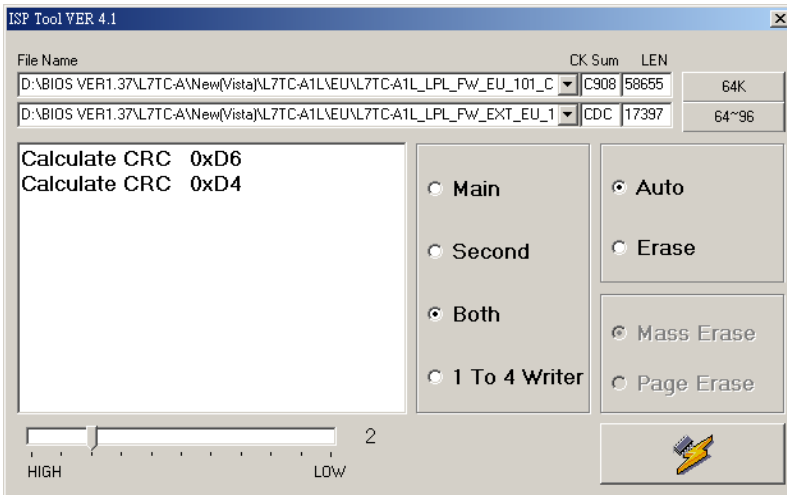
Second acts as the second writing file.

Both acts as both files writing together.


1TO 4 writer acts as 4PCS main boards writing together.

AUTO acts as the pc writing automatically.

Erase acts as procedure erased the former bios of monitor.



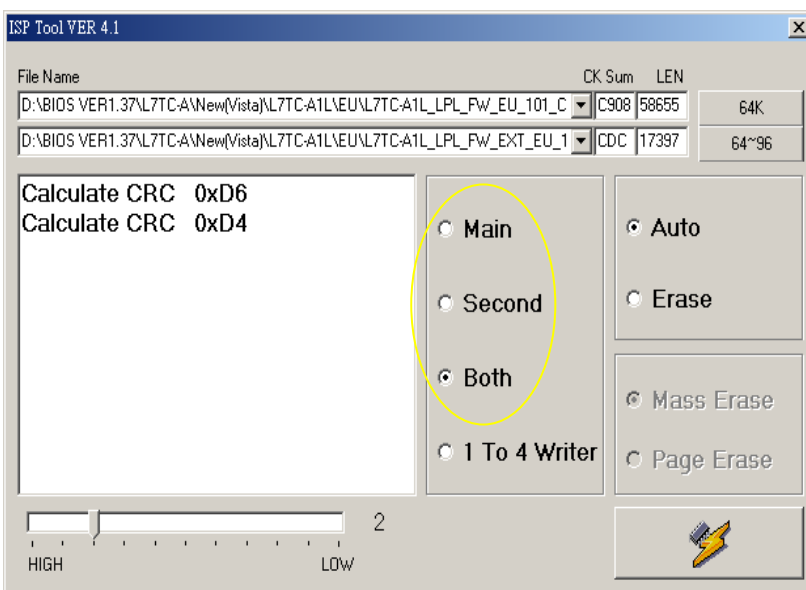
When write PCBANK(WDZV-W1) model bios, use the two files, setup file properties as follow:


1. Within 64K option, choose no Extend bios file;
2. Within 64K~~96K option, choose the Extend bios file;
3. Choose "Both" property;
4. Choose "auto";
5. Click , go to write.

Notice: The distinction "64K" and "64-96K" is from BIOS file name.

64K: WDZV-W1_SAM_FW_V100_0x90_061907

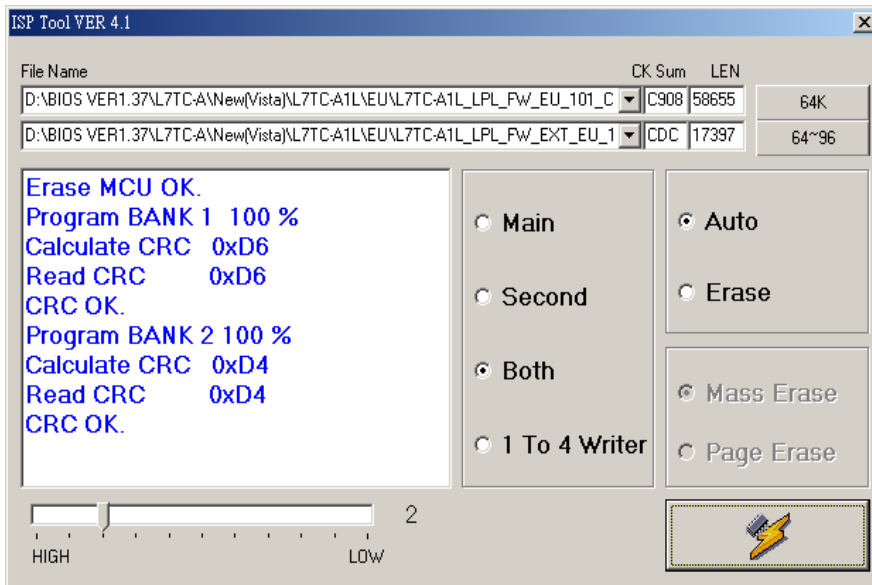
64-96K: WDZV-W1_SAM_FW_V100_0x89_Extend_061907



Click , go to writing, it is necessary for writing to turn on monitor .

During writing, can't cut off electricity, and VGA cord can't fall off.

After writing OK, will display "CRC OK".



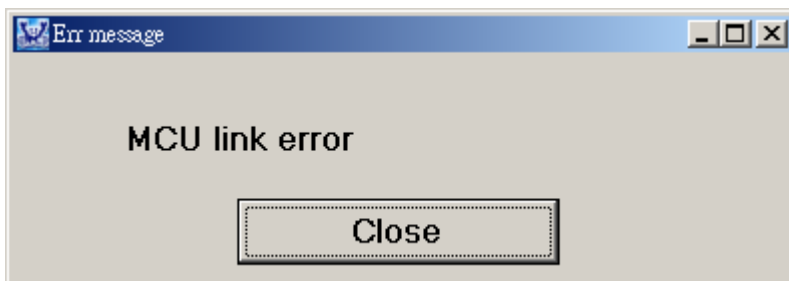
Notices:

Writing is not going, will come out the right message "MCU link error".

Analysis:

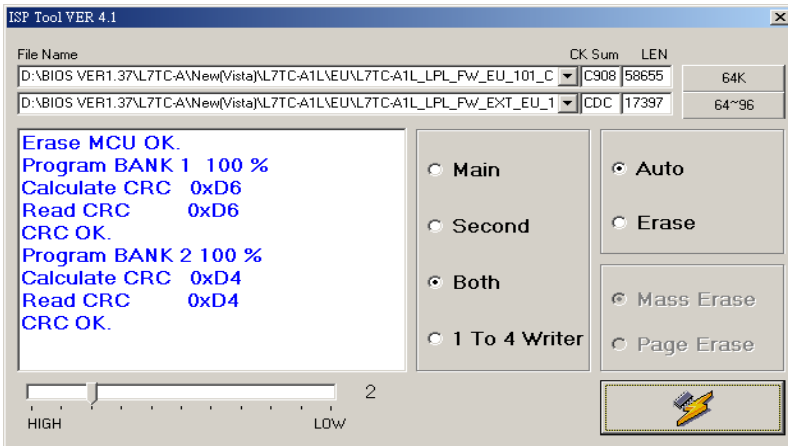
Check:

1. If connect to writing card and writing cords is ok or all tool are ok?
2. If monitor is "on" state (can't into factory state, please retry again)
3. If cords connections is ok?
4. If PC LPL is ok?
5. Monitor of main board is gook?



Notices:

warning! prohibit from choosing the error position of BIOS file "64K" and "64~94", Maybe writing, but writing to display the Chaos of OSD, abnormal.



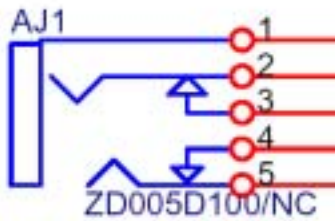
Connector Information

Phone jack stereo

PIN1. AC power cord: CEE22 typed connector

PIN2. Audio cable

PIN3. Audio: Line-in receptacle



15 pin mini D-Sub connector

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)

PIN	Signal
1	TMDS data2-
2	TMDS data2+

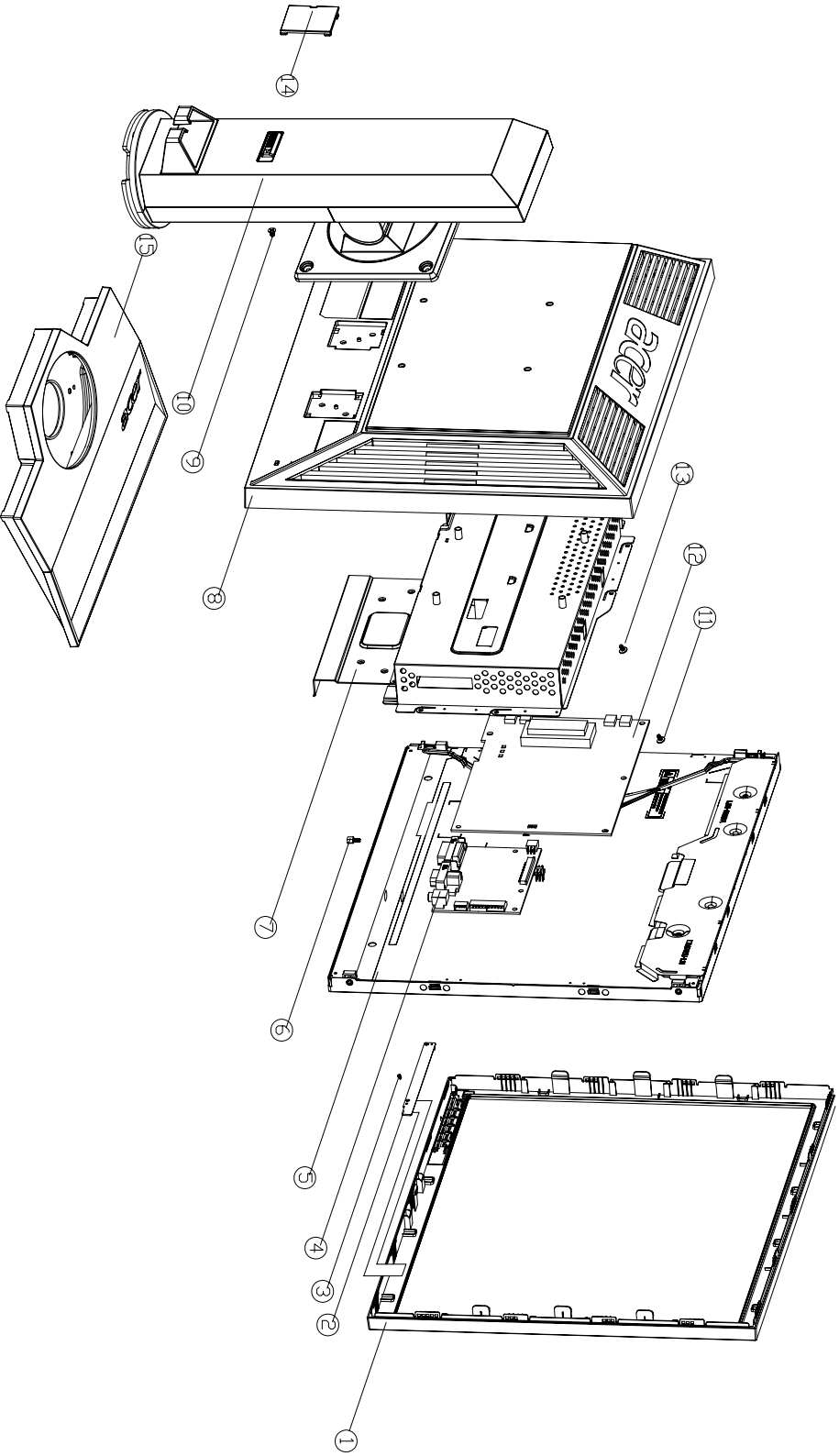
3	TMDS data2 shield
4	NC
5	NC
6	DDC clock
7	DDC data
8	Not connected
9	TMDS data1-
10	TMDS data1+
11	TMDS data1 shield
12	NC
13	NC
14	+5V
15	Ground (return for +5 V and H/V sync)
16	Hot plug detect
17	TMDS data0-
18	TMDS data0+
19	TMDS data0 shield
20	NC
21	NC
22	TMDS clock shield
23	TMDS clock+
24	TMDS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

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of B173. 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.



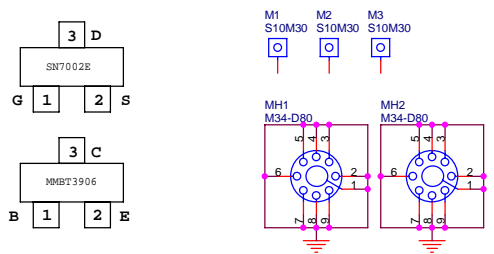
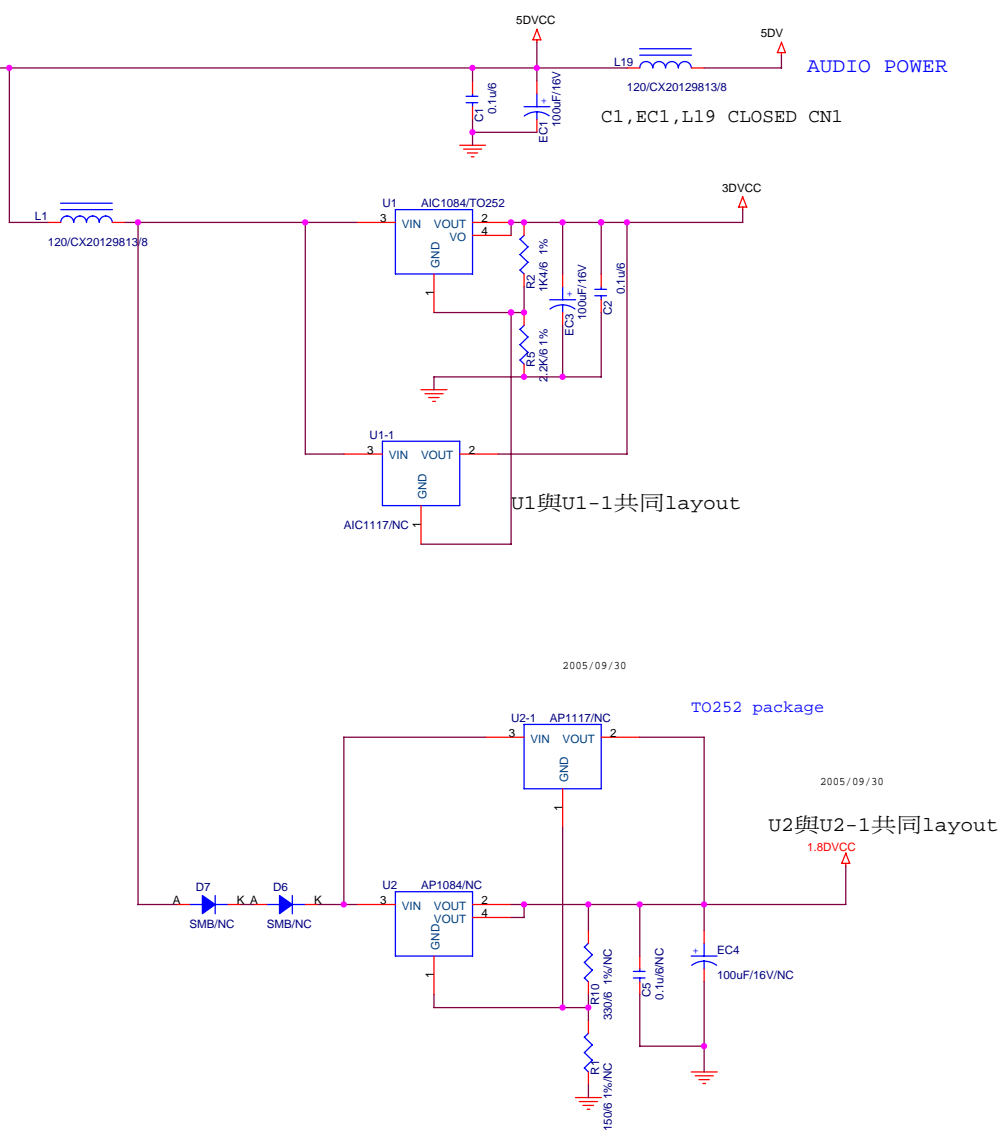
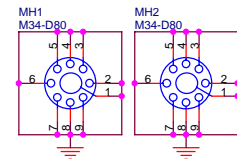
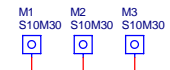
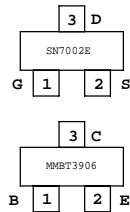
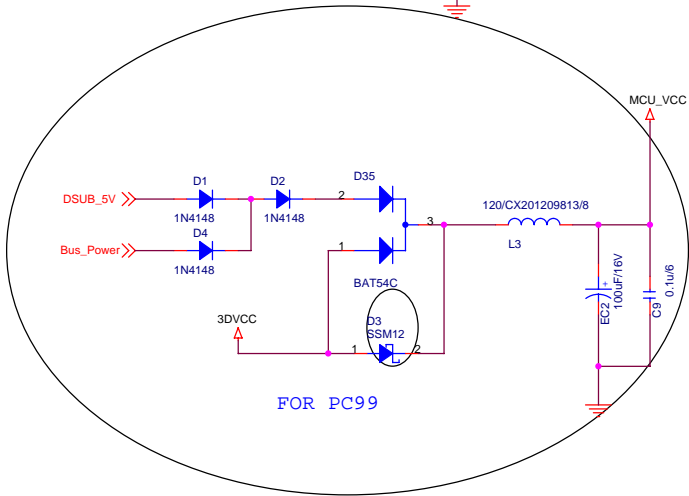
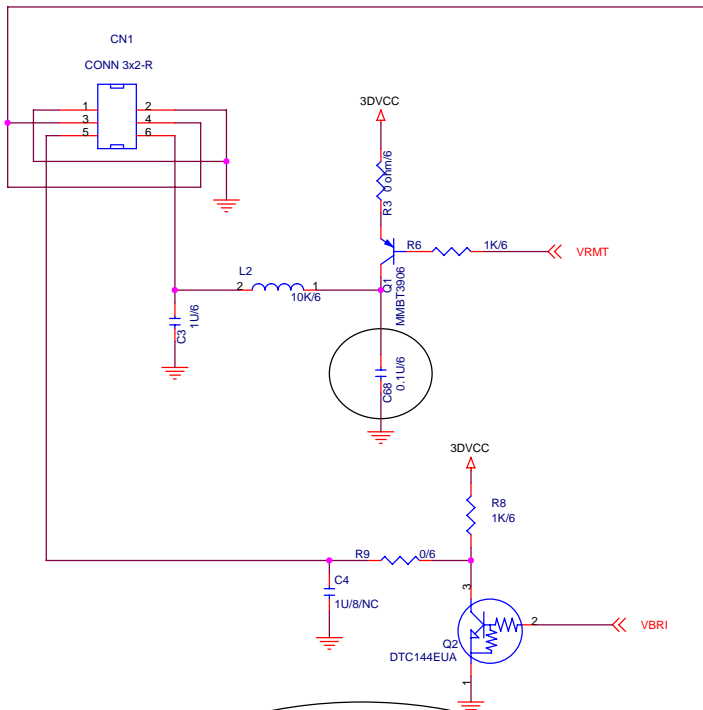
L719-F1

ITEM	Part Number	Part Description	Qty
01	3AL719-B012	L719-F1 LCD BEZEL SUB ASSY GP	1
02	2AL71E-B005	L71E BUTTON/B ASSY/L719-E1/XP	1
03	MF2002B-E108	SCREW F20x2.5-TND/XP	2
04	2M972B-E07	L71E M/B ASSY/L719-E1/RTD2E25-H/D/L	1
05	2AL719P-A00	L719-E1 PANEL KIT ASSY/ALU/SMS/XP	1
06	M8L-1100-018	ID NUT L100R-11004-REV/VA/XP	4
07	36L719-S019	L719-F1 PCB SHIELDING ASSY GP	1
08	36L719-S011	L719-F1 LCD COVER SUB ASSY GP	1
09	MM40120B240	SPRNG M40062-3R00-ACK/NY/DP/XP	4
10	KNL7190015	STAND ASSY L719-F1/KNL71901-R3A/XP	1
11	MF30060B-E6	SCREW F30x6-BND/XP	6
12	ASS3BACCSB01	PI 40V 4LCT5M122 M/SVPT5P04G-PI02A	1
13	MKS30060B-S010	SCREW K30x6-S0 BND/WASH GP	1
14	E8L7194012	HINGE COVER L719-F1/E8L71904-R3A/B	1
15	KNL71902011	BASE ASSY L719-F1/KNL71902-R3A/XP	1

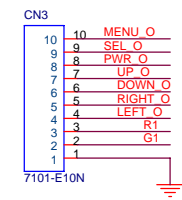
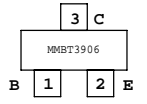
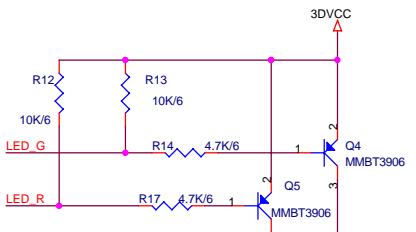
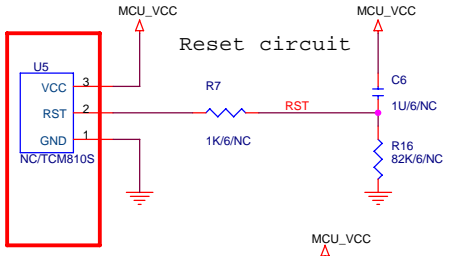
SCHEMATIC DIAGRAM

CONTENTS

SCHEMATIC	SHEET
CONTENT	36
POWER	37
MCU	38
VGA AND TMDS INPUT	39
RTD2525LH	40
AUDIO	41
BLOCK	42

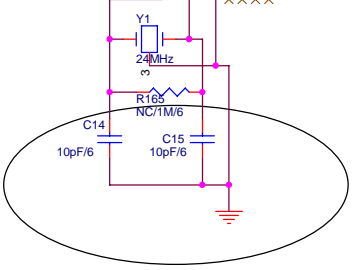
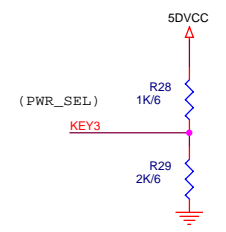
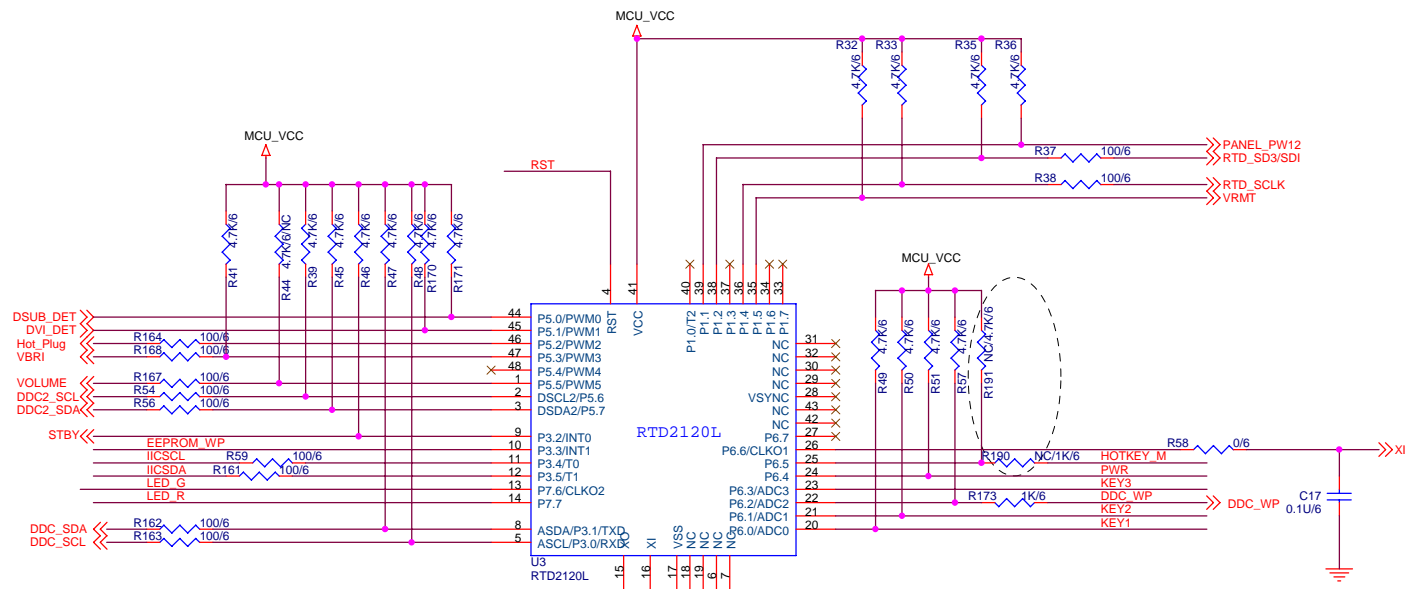
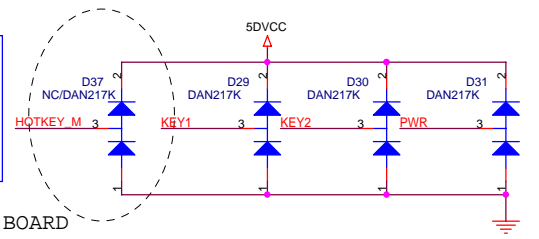
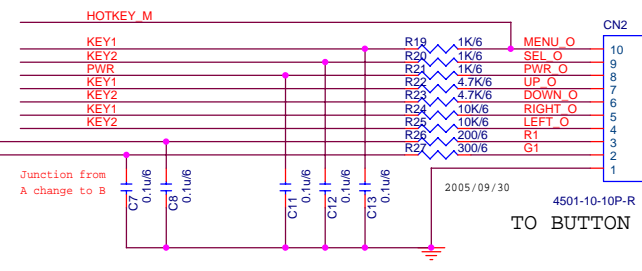
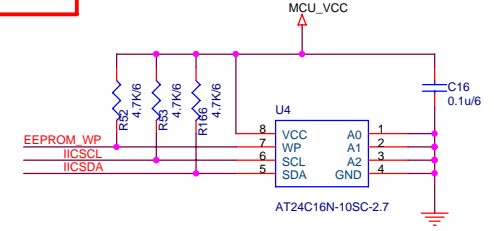


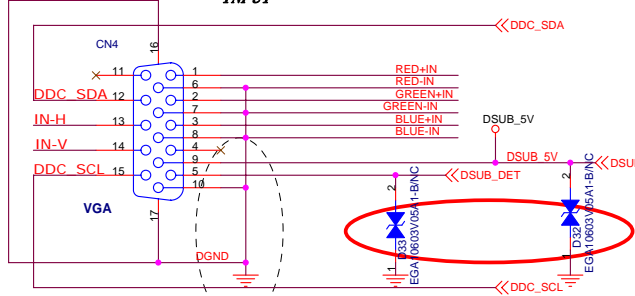
2007.11.22 pin define modify



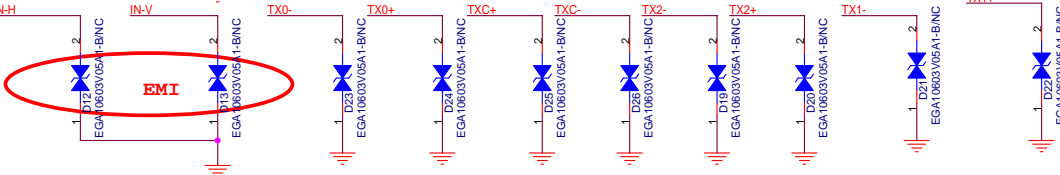
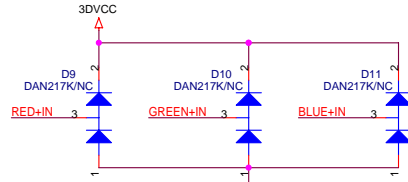
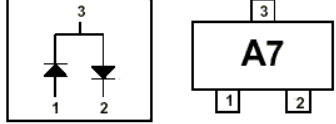
*Co-lay CN3/CN2 note:

	R24	R25
CN3	NC	NC
CN2	1K	1K

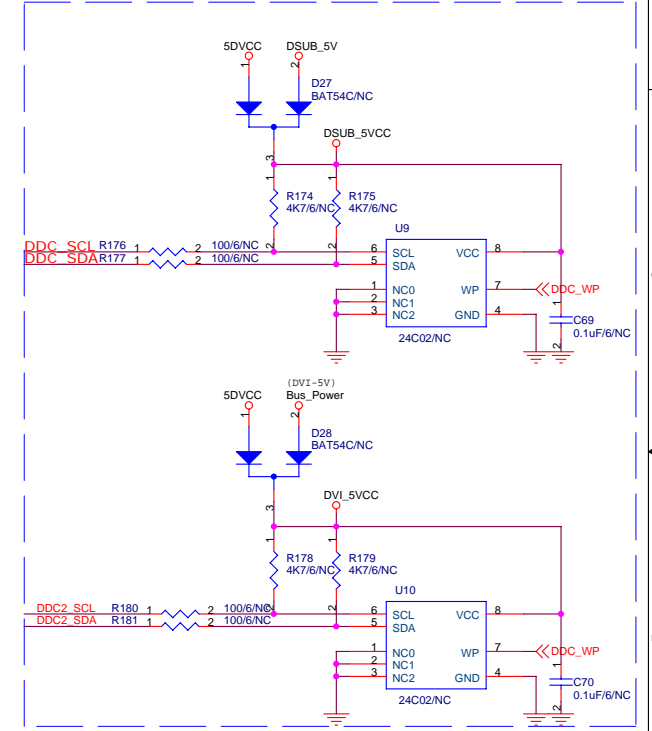
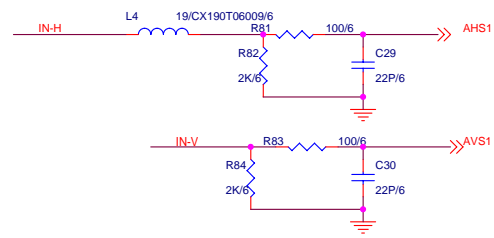
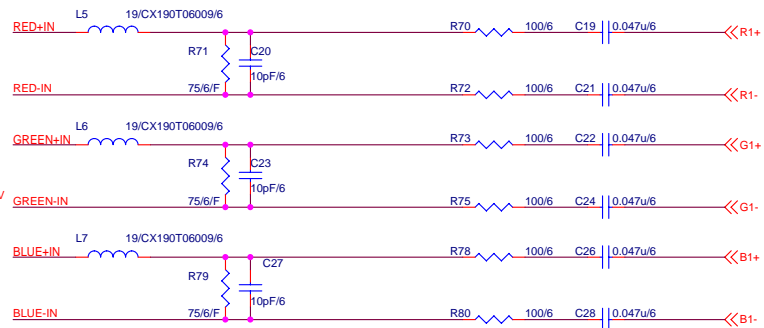
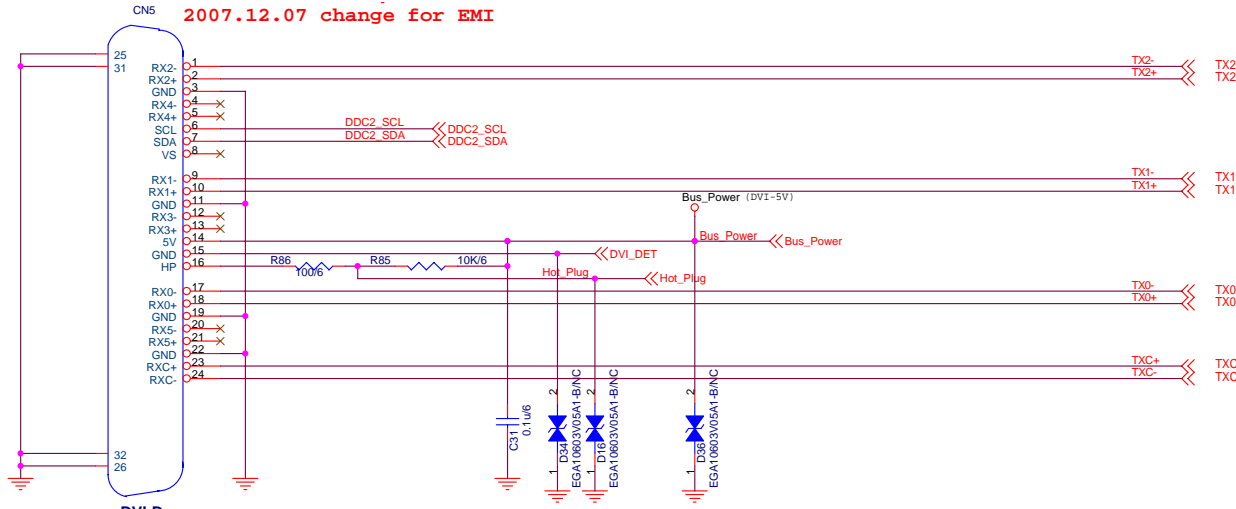




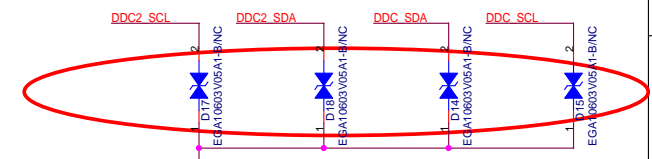
Connection Diagram



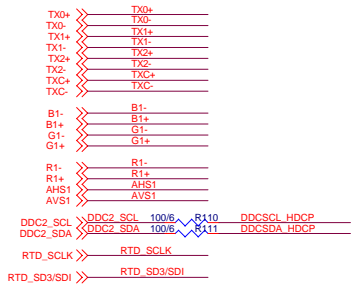
2007.12.07 change for EMI



EDID EEPROM(NC) ; IF EDID 放置於MCU DDCRAM 此部份NC

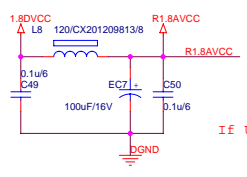
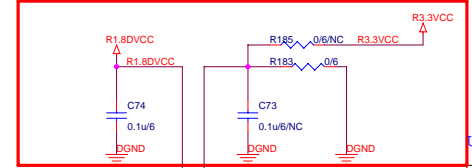


2007.12.07 change for EMI

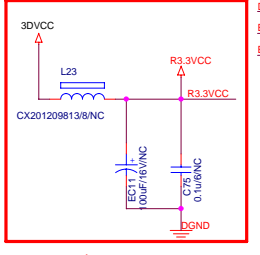
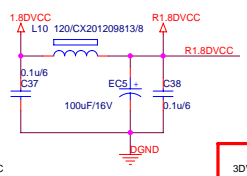


	R183	R185	C73
RTD2525LH/2545LH	0 ohm	NC	NC
RTD2545LR with OD	NC	0 ohm	0.1uF

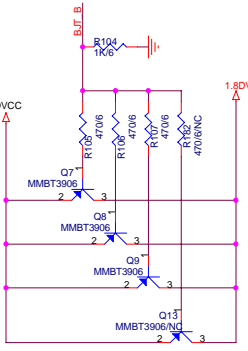
2007.11.14 modify/reserve for 2545LR



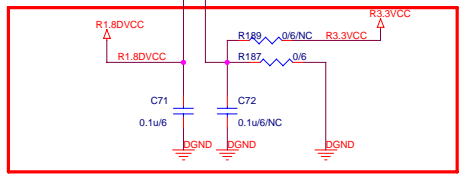
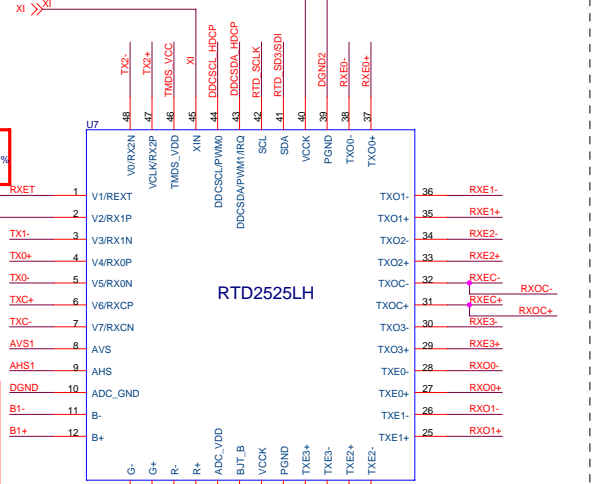
If U7=2545LR R99=6.2K



2007.11.14 modify/reserve for 2545LR

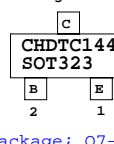
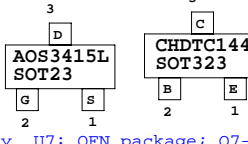
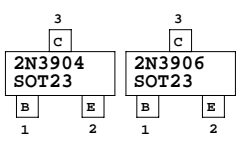


2525LH : 2x 3906
2545LH : 3x 3906
2545LR(OD function) : 4x 3906
IF U2(U2-1) 上件 ; (this part NC, R104 上件)

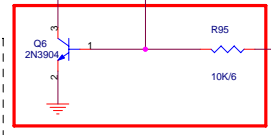
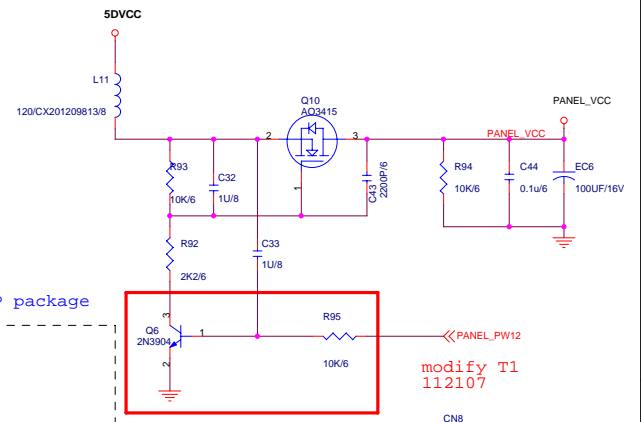
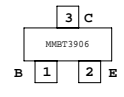
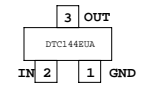
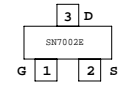
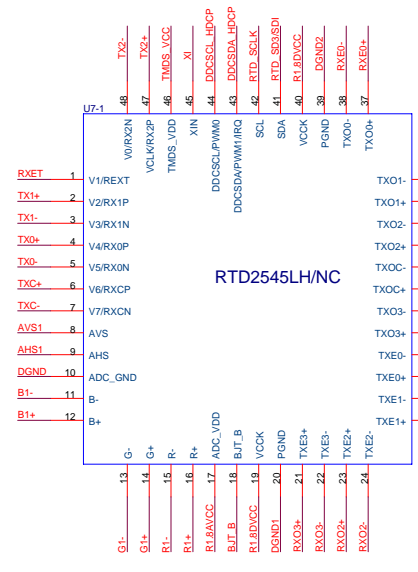


2007.11.14 modify/reserve for 2545LR

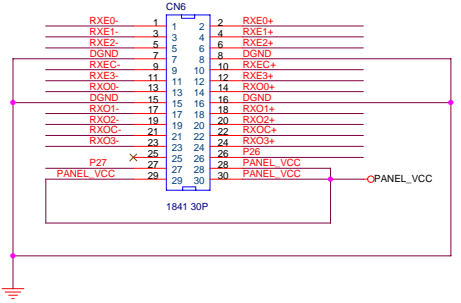
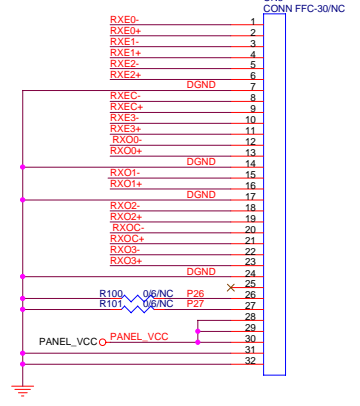
	R187	R189	C72
RTD2525LH/2545LH	0 ohm	NC	NC
RTD2545LR with OD	NC	0 ohm	0.1uF

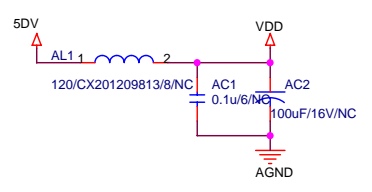


U7與U7-1 Co-Lay. U7: QFN package; Q7-1: QFP package

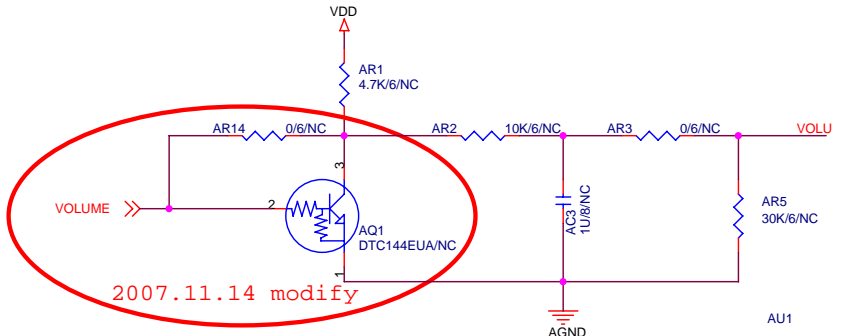


modify T1 112107

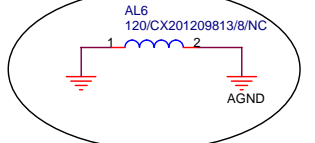
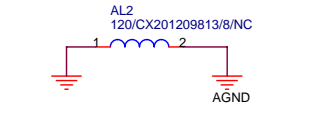
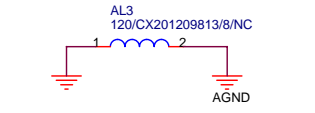
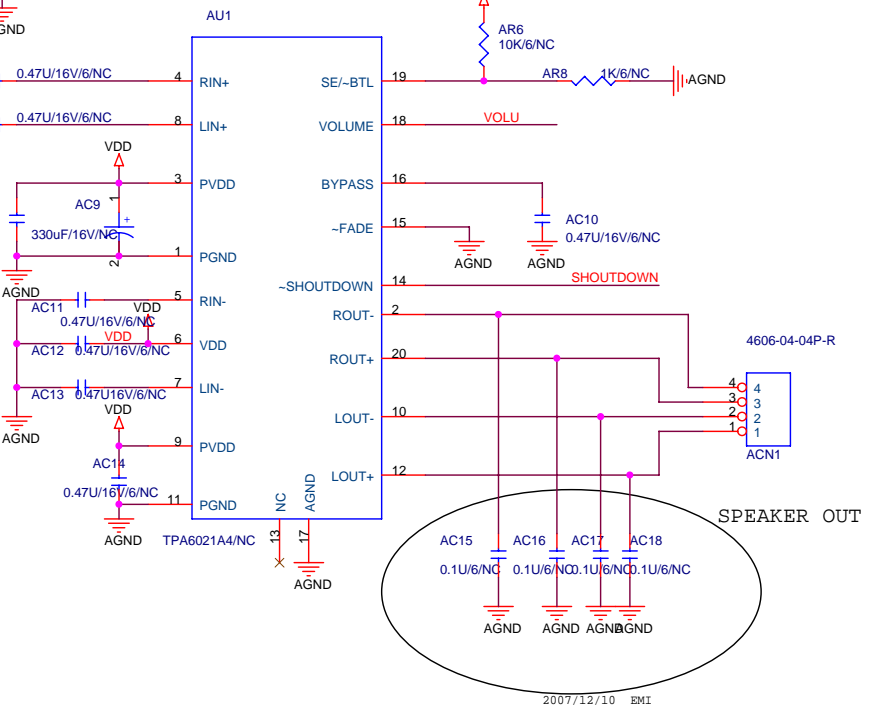
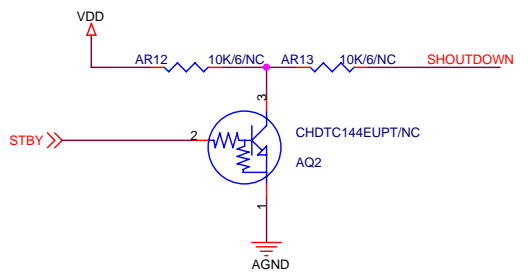
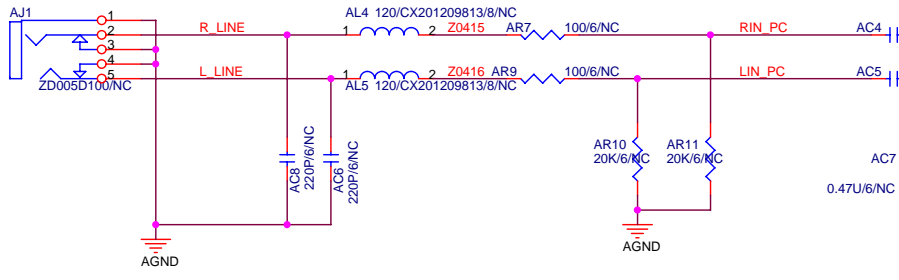




PC AUDIO-IN

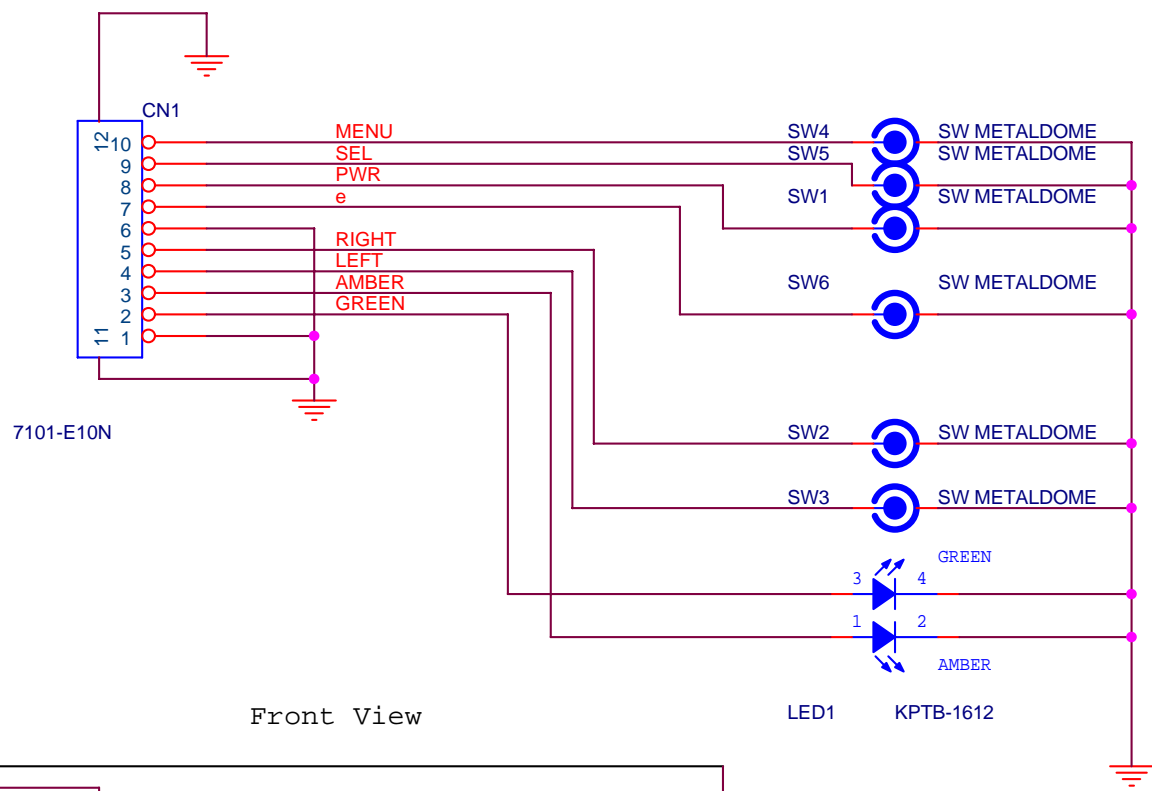


2007/01/16
for EMI
solution

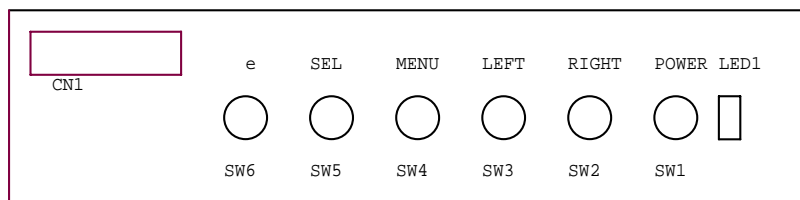


2006/10/19

Button Board



Front View



Power Board

