Acer AL1703 Service Guide

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Conventions

The following conventions are used in this manual:

Denotes actual messages that appear on screen
Gives bits and pieces of additional information related to the current topic.
Alerts you to any damage that might result from doing or not doing specific actions.
Gives precautionary measures to avoid possible hardware or software problems.
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.

- 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.

WARNING

Use only shielded signal cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

As an ENERGY STAR[®] Partner our company has determined that this product meets the ENERG 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.

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1.1 Test Conditions

Item	Condition
Temperature	Normal room temperature (25 ±2)
Humidity	50±10%
AC input voltage	100V ±2V, 120 ±2V, 60Hz / 240 ±2V, 50Hz
Brightness	Maximum with OSD setting
Contrast	Middle with OSD setting
Resolution setting	1280 x 1024 @60HZ
Color temperature	With OSD setting
Measuring instrument	Topcon luminance colorimeter BM-5A or equivalent
Others	Before measuring, "Auto Adjust" & "Auto Balance" must be done in
	advance

1.2 Features

- 17" SXGA TFT LCD Panel
- TN Mode Liquid Crystal
- D-SUB
- Audio Function (Optional)
- Support to 75Hz Refresh Rate
- Support VESA-DCC 2B plug & play function
- Support VESA-DPMS Power Management Function
- Super Wide Viewing Angle
- High Brightness & Contrast Ratio
- High Brightness & Contrast Angular Dependent
- Fast LC Response Time
- Light Weight

1.3 LCD panel Specification

Item		Specification
	Active Area	337.9 (H) x 270.34 (V) (17.0" diagonal)
	Driver Element	a-si TFT Active Matrix
	Pixel Number	1280 x R.G.B. x 1024
	Pixel Pitch	0.264 (H) x 0.264 (V)
	Pixel Arrangement	RGB Vertical Stripe
	Display Color	16.2M
LCD panel	Tran missive Mode	Normally White
	Viewing Angle	160 / 120
	(H/V)	
	Brightness	350
	Contrast Ratio	350
	LC Response Time	14 (Tr: 4 + Tf: 10)
	(Tr+Tf)	
	Separate Sync.	TTL Level
Graphic	Horizontal Sync.	Positive / Negative
Graphic	Vertical Sync.	Positive / Negative
	Input Connector	D-Sub mini 15 pins, DVI-D 24 pins (Optional)
	Auto Adjust	Clock, Phase, H Position & V Position
	Screen Scaling	VGA/SVGA/XGA/SXGA Full Screen Display
Performance	Power	VESA DPMS, DVI DMPM, ENERGY STAR [®] Compliance
	Management	
	Color Adjustment	User, 6500K, 7500K & 9300K
	OSD Language	English, French, German, Spanish, Italian, Japanese,
		Traditional Chinese, Simplified Chinese, Russian, Korean

(1) Definition of Viewing Angle (qx, qy):



Normal $x = \theta y = 0^{\circ}$

(2) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression and figure below.

Contrast Ratio (CR) = L255 / L0 L255: Luminance of gray level 255 L 0: Luminance of gray level 0 CR = CR (5) CR (X) is corresponding to the Contrast Ratio of the point X at Figure in Note (5).

Definition of luminance measured points and Brightness Uniformity:



Horizontal Line Number [pixel]

Luminance of center point: L=L(5) Brightness Uniformity Measurement points: Five specified points 1-5 Formula: Maximum [L (1), L (2), L (3), L (4), L (5)]/Minimum [L (1), L (2), L (3), L (4), L (5)]

(3) Definition of Response Time (T_R, T_F):



(4) Measurement Setup:

The LCD module should be stabilized at given temperature for 20 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 20 minutes in a windless room.



Chapter 2

2.1 Function Name

2.1.1 Front



No.	. Key		Descriptions	
1	Power Switch		Power on / Power off	
2		Green/Blue	Normal operation	
	LED	Orange	Power Management	
		Indicator	Off	Power off
3	AUTC	D/ EXIT	Adjust Clock, Phase, H Position and V Position aut	omatically / Exit
4	тп	RBO	Turbo Brightness Switch	A170E1- T01
	10	NBO	(Picture mode / Text mode / Economy mode)	
			D-Sub, DVI Input Source Selection/Turbo	A170E1- H01
			Brightness Switch	
5		+/ &	+ /QUICK MENU Access (Brightness)	
6		-/ 🕕	 - /QUICK MENU Access (Contrast) 	
7	ME	ENU	OSD control MENU button/Access Main/Sub-menu	l
8	Spe	eaker	2.5W x 2	

2.1.2 Back



No.	Name	Descriptions
9.	AUDIO-IN	d=3.5mm stereo mini Jack
10.	VGA-IN	D-sub mini 15pin Connector
11.	N/A	N/A
12.	DC-IN	DC Power Jack, d=2.0mm.
13.	Lock hole	Kinglock

2.2 OSD Menu Description

- Power : Press this key to control power ON/OFF of the Monitor. Green: normal display. Orange flicker: no signal input. Orange: power off.
- 2. Auto/Exit : When the input signal source is PC, used to execute auto adjustment
- 3. Input / Turbo : D-Sub, DVI input source selection
- 4. + IQ: Used to select the OSD function; when there is OSD menu, used to increase function value. Enter brightness control function directly when there is no OSD menu.
- -/•: Used to select the OSD function; when there is OSD menu, used to decrease function value. Enter contract control function directly when there is no OSD menu.
- 6. **Menu :** Use to display OSD menu; when there is OSD menu, used to execute OSD function or enter next layer of OSD menu; if executing OSD function, exit OSD function and save the value adjusted.



2.3 OSD Control

- Press the "Menu" button to start the OSD feature.
- Click the "+" or "-" button to select the function to be adjusted.
- Click the "Menu" button to access into the function to be adjusted.
- Click the "+" or "-" button to change the current setting of the function.
- To exit the OSD menu or go back to the previous action by clicking the "Auto/Exit" button. It will save the change automatically.
- To repeat above steps for changing the setting of other functions.

2.4 OSD Menu Screen



- The OSD disappears several seconds after you stop pressing the buttons while performing an adjustment.
- Any changes are automatically saved in the memory when the OSD disappears. Turning off the power should be avoided while using the menu.
- Adjustments for clock, phase and positions are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.
- The color will change from white to pink while the function is selected.

2.5 OSD Function Definition

Primary	Secondary	Description
Directory	Directory	·
Image	Brightness	Adjust the brightness of the screen.
	Contrast	Adjust the contrast of the image.
	Clock	Adjust the clock pulse of the image.
	Phase	Adjust the focus of the image.
	H. Position	Move the image left and right on the screen.
	V. Position	Move the image up and down on the screen.
	Sharpness	Adjust the picture sharpness of lower resolutions.
Audio	Volume	Adjust the volume of the audio.
	Mute	Set up the audio to be mute on or off.
Color	9300K	Set up the color temp. to be 9300K white color.
	7500K	Set up the color temp. to be 7500K white color.
	6500K	Set up the color temp. to be 6500K white color.
	User/Red	Adjust red/green/blue gain.
	User/Green	
	User/Blue	
Language	English	Select the language you want.
	Français	
	Italiano	
	Deutsch	
	Español	
	日本語	
	????	
	繁體中文	
Settings	OSD Timeout	Adjust OSD display time setting.
_	OSD Position	Move OSD display position to any one of the following 5
		positions within the overall screen.
		4 5
	Auto Setting	Set up to adjust clock, phase and positions automatically.
	Recall	Restore to factory settings
Input Source	Analog	Select Analog input source:
(Optional)	Digital	Soloot Digital input course:
(

- Brightness: Press the Brightness Button when the Menu is not displayed.
- Contrast: Press the Contrast Button when the Menu is not displayed.
- Auto Setting: Press the Auto Button when the Menu is not displayed.
- Turbo: Press the Input Button when the Menu is not displayed.
 - Pct: Picture Mode (High brightness)
 - Text: Text Mode (Normal)
 - Eco Economy (Brightness of back-light is reduced)
 - Changing to a lower brightness mode can lessen eye fatigue.
 - Change from Picture Mode to Text Mode when working with text.
 - Change from Text Mode to Economy Modes when viewing the screen for long periods.

2.6 Plug and Play

- The new VESA Plug and Play function is used which eliminates the complicated and time-consuming installation process.
- You can use the **Plug and Play** system without encountering usual installation problems. Your computer system can easily identify and automatically adjust the monitor.
- The LCD Monitor uses Display Data Channel (DDC) to send Extended Display Identification Data (EDID) to the computer system, so the computer system can be set to monitor auto adjust.

2.7 Power Saver

- Power control system, also called (Power Saver), is installed inside the LCD Monitor.
- If the monitor has not been used for a certain period of time, the system will turn the monitor to low voltage mode to save power. Slight moving or any click will return to the original image.
- The VGA card inside the computer handles *Power Saver*. You can use computer software to set the function.
- The LCD Monitor is compatible with EPA ENERGY STAR and NÜTEK if used with a VESA DPMS computer.
- To save power, turn off the power of the LCD monitor when not in use.

3.1 Disassembly Procedures

Picture	Description
	Push the hooks and stand bottom away
	Remove Hinge Cover
	Loosen and remove 6 screws to remove Stand Assy
	Loose and remove 2 screws.
	Separate Bezel hooks to take Bezel and Rear Cover apart.
	Lift up Rear Cover
	Remove the Tinfoil

	Remove FFC
	Loose and remove screw and remove Cover-FFC
	Loose and remove 2 screws
	Loose and remove 5 screws
	Remove the Cover of X-PCB
	Remove 4 pieces of Backlight wires.
88	Loose and remove 4 screws
	Remove Power PCBA

	Remove 2 pieces of FFC from AD PCBA
0	Loose and remove 1 screw
	Remove AD PCBA
	Disassembly PCBA complete.
	Loose and remove 4 crews
	Lift up LCD module and remove bezel.
	Remove FFC.
0-0	Separate both Audio Cable.

0-0-0-	Loose and remove 3 screws.
	Take OSD PCBA apart

3.2 Assembly Procedures

	Place OSD PCBA.
0-0-0-	Fasten 3 screws
	Insert Audit Cable to connectors of OSD PCBA
	Bezel assembly complete.
	Insert FFC.

Place LCD module.
Fasten 4 fixed screws
Insert new AD PCBA
Insert 2 pieces of FFC to AD PCBA
. Insert new Power PCBA
Fasten 4 fixed screws of Power PCBA
Insert 4 pieces of Backlight wires
Fasten 5 screws

	Join the cover hooks of X-PCB and fasten the screw
- All	Fasten 2 screws
	Place Cover-FFC and fasten screw
	Insert FFC
	Attach the Tinfoil
	Place Rear Cover
	Join hooks of Rear Cover with Bezel
	Fasten 2 screws

Place Stand Assy. Fasten 6 screws
Insert Stand Cover
Have the hook latched

4.1 Abnormal Display Troubleshooting







4.2 Abnormal (ON/OFF, LCD display, Keyboard) Troubleshooting

4.3 Abnormal (BIOS, OSD, Other Display) Troubleshooting



4.4 Audio Abnormal Troubleshooting



Connector Information

Chapter 5

5.1 Function Block Diagram



5.2 Connector Location



5.3 D-sub Mini 15pin Connector



Pin No.	Pin Function	Pin No.	Pin Function
1	Red video input	9	NC
2	Green video input	10	Ground
3	Blue video input	11	No connection
4	NC	12	DDC data
5	Ground	13	Horizontal sync (Composite sync)
6	Red video ground	14	Vertical sync
7	Green video ground	15	DDC clock
8	Blue video ground		

5.4 DC Connector DC Power Jack, d=3.0mm

5.5 Audio Connector (Optional) Phone Jack, d=3.5mm

5.6 Main Board Pin Assignment Introduction

5.6.1	CN-B	Pin	Assignment

Pin No.	Symbol	Description
1	INV_EN	Inverter enable
2	INV_ADJ	Brightness Adjustment
3	GND	Ground
4	GND	Ground
5	VIN_19V	Input source
6	GND	Ground
7	VIN_19V	Input source
8	VIN_19V	Input source

5.6.2 CN-A1 Pin Assignment

Pin No.	Symbol	Description
1	VCOM	PANEL COMMOM VOLTAGE
2	VCOM	PANEL COMMOM VOLTAGE
3	VCOM	PANEL COMMOM VOLTAGE
4	VCOM	PANEL COMMOM VOLTAGE
5	GND	GROUND
6	ESTH	EVEN PATH STAR PULSE
7	GND	GROUND
8	EB2P	EVEN PATH BLUE DATA BIT
9	EB2N	EVEN PATH BLUE DATA BIT
10	EB1P	EVEN PATH BLUE DATA BIT
11	EB1N	EVEN PATH BLUE DATA BIT
12	EB0P	EVEN PATH BLUE DATA BIT
13	EB0N	EVEN PATH BLUE DATA BIT
14	GND	GROUND
15	EG2P	EVEN PATH GREEN DATA BIT
16	EG2N	EVEN PATH GREEN DATA BIT
17	EG1P	EVEN PATH GREEN DATA BIT
18	EG1N	EVEN PATH GREEN DATA BIT
19	EG0P	EVEN PATH GREEN DATA BIT
20	EG0N	EVEN PATH GREEN DATA BIT
21	GND	GROUND
22	GMA10	GAMMA VOLTAGE
23	GMA9	GAMMA VOLTAGE
24	GMA8	GAMMA VOLTAGE
25	GMA7	GAMMA VOLTAGE
26	GMA6	GAMMA VOLTAGE
27	VSA	DATA IC VOLTAGE
28	VSA	DATA IC VOLTAGE
29	VSA	DATA IC VOLTAGE
30	VSA	DATA IC VOLTAGE
31	GMA5	GAMMA VOLTAGE
32	GMA4	GAMMA VOLTAGE
33	GMA3	GAMMA VOLTAGE
34	GMA2	GAMMA VOLTAGE
35	GMA1	GAMMA VOLTAGE
36	GND	GROUND
37	ECLKP	EVEN PATH CLOCK
38	ECLKN	EVEN PATH CLOCK

39	GND	GROUND
40	ER2P	EVEN PATH RED DATA BIT
41	ER2N	EVEN PATH RED DATA BIT
42	ER1P	EVEN PATH RED DATA BIT
43	ER1N	EVEN PATH RED DATA BIT
44	ER0P	EVEN PATH RED DATA BIT
45	ERON	EVEN PATH RED DATA BIT

5.6.3 CN-A2 Pin Assignment

Pin No.	Symbol	Description
1	NC	NC
2	NC	NC
3	NC	NC
4	VGD	SCAN IC VOLTAGE
5	VGD	SCAN IC VOLTAGE
6	PANEL_VGL	PANEL DRIVING VOLTAGE
7	PANEL_VGL	PANEL DRIVING VOLTAGE
8	PANEL_VHL	PANEL DRIVING VOLTAGE
9	PANEL_VHL	PANEL DRIVING VOLTAGE
10	GVOFF	TIMING CONTROL PIN
11	XAO	TIMING CONTROL PIN
12	STV	SCAN IC START PULSE
13	CKV	SCAN IC CLOCK
14	OE	SCAN DATA OUTPUT ENABLE
15	OB2P	ODD PATH BLUE DATA BIT
16	OB2N	ODD PATH BLUE DATA BIT
17	OB1P	ODD PATH BLUE DATA BIT
18	OB1N	ODD PATH BLUE DATA BIT
19	OB0P	ODD PATH BLUE DATA BIT
20	OB0N	ODD PATH BLUE DATA BIT
21	GND	GROUND
22	OG2P	ODD PATH GREEN DATA BIT
23	OG2N	ODD PATH GREEN DATA BIT
24	OG1P	ODD PATH GREEN DATA BIT
25	OG1N	ODD PATH GREEN DATA BIT
26	OG0P	ODD PATH GREEN DATA BIT
27	OG0N	ODD PATH GREEN DATA BIT
28	GND	GROUND

29	OCLKP	ODD PATH CLOCK
30	OCLKN	ODD PATH CLOCK
31	GND	GROUND
32	STB	DATA LATCH
33	POL	POLARITH INVERTING
34	GND	GROUND
35	OR2P	ODD PATH RED DATA BIT
36	OR2N	ODD PATH RED DATA BIT
37	OR1P	ODD PATH RED DATA BIT
38	OR1N	ODD PATH RED DATA BIT
39	OR0P	ODD PATH RED DATA BIT
40	OR0N	ODD PATH RED DATA BIT
41	OSTH	ODD PATH STAR PULSE
42	GND	GROUND
43	VSD	DATA IC VOLTAGE
44	VSD	DATA IC VOLTAGE
45	VSD	DATA IC VOLTAGE

5.6.4 CN-C Pin Assignment

Pin No.	Symbol	Description
1	GND	GROUND
2	GND	GROUND
3	GND	GROUND
4	AUDIO/L-	AUDIO OUTPUT
5	AUDIO/L+	AUDIO OUTPUT
6	AUDIO/R-	AUDIO OUTPUT
7	AUDIO/R+	AUDIO OUTPUT
8	PWR_SW	POWER KEY
9	LED_O	ORANGE LED
10	LED_G	GREEN LED
11	AUTO_ADJ	AUTO ADJUSTMENT
12	SOURCE_SEL	INPUT SOURCE SELECTION
13	KEY_UP	UP KEY
14	KEY_DOWN	DOWN KEY
15	MENU	MENU KEY

5.6.5 CN-E Pin Assignment

Pin No.	Symbol	Description
1	RIN	RED INPUT
2	GIN	GREEN INPUT
3	BIN	BLUE INPUT
4	GND	GROUND
5	GND	GROUND
6	RGN	RED INPUT GROUND
7	GGN	GREEN INPUT GROUND
8	BGN	BLUE INPUT GROUND
9	VGA_5V	VGA INPUT 5V
10	GND	GROUND
11	GND	GROUND
12	VGA_SDA	I2C
13	VGA_HS	H-SYNC
14	VGA_VS	V-SYNC
15	VGA_SCL	I2C

FRU (Field Replaceable Unit) List

Chapter 6

Part List

Picture	Partname	Description	Vendor
			Part No.
	Adapter	ADAPTER 3.16A 60W 3PIN UP060B1190-01B	2719060199
	FUNCTION BUTTON BOARD	PCBA For A170E1- T,A170E1-H01-K	35A17K012 0
	INVERTER BOARD	DC/AC Inverter,TWS- 444- 957,2560V(min)/5mA(typ e)	2714000012
	Main Board	AL1703 MAINBOARD (FIRMWARE CONTROL BOARD)	35A17S022 0
HUTTERN	CABLES	MAIN BOARD CABLE - FFC 55*23MM	3241702002
RTILL COLORADO	CABLE	FUNCTION BUTTON BOARD CABLE - FFC 180MM	3241700001

AUDIO CABLE	18AWG,180cm,Black,JC E	32F2818004
 MONITOR CABLE	30AWG,180cm,Black,JC E	32F3018003

Picture	Part name	Description	Vendor Part No.
	STAND BASE	ABS, Black	40A1792211
-	LCD FRONT BEZEL	Bezel Assy	40A1729245
	LCD BACK COVER	Rear Assy	40A1799909
	LCD STAND NECK	Stand Hinge Assy, SCREW-B,Black	40A1799217
	Hinge Cover	ABS Black	40A1792909

MAINBOAR D COVER	Cover_pcb_ad,D-Sub Only	41A1799107
FFC COVER	Cover-FFC	41A1799102



Iten	Part Nane	QTY
1	Y22A J3Z3E	1
2	BACKLIGHT UNIT	1
3	support platr assy	1
4	AJ_PCJ_ASSY	1
5	POWER_PCB_ASSY	1
6	COIVER FPC	1
7	COIVER_AD	1
8	Y2ZA_EC9_C2D	1
9	COIVER_PASTIC	1
LD	HINGE_ASSY	1
tt	HINGE COVER	2
12	FFC	5
13	OSD FFC	1
14	al tape	1
15	Y22A NEITTOB ENAT2	1
16	SCREV D3#8L	4
17	SCREV M3×4L	5
<u>1</u> 8	SCREV M3#4L	5
19	SCREV D3×01	z
20	SCREW M3#GL	6
21	SCREV M3#4L	z
22	SCREV M3#4L	з
23	FFC	2
24	TFT-PANEL	1
25	Metal Frame Front	1

Schematic Diagram



Main Board









