Acer Monitor VG252Q LIFECYCLE EXTENSION GUIDE

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Safety Notice

Any person attempting to service this chassis must familiarize with the chassis and be aware of the necessary safety precautions to be used when serving electronic equipment containing high voltage



Important Safety Notice

Product Announcement:

This product is certificated to meet RoHS Directive and Lead-Free produced definition. Using approved critical components only is recommended when the situation to replace defective parts. Vender assumes no liability express or implied, arising out of any unauthorized modification of design or replacing non-RoHS parts. Service providers assume all liability.

Qualified Repairability:

Proper service and repair is important to the safe, reliable operation of all series products. The service providers recommended by vender should being aware of notices listed in this service manual in order to minimize the risk of personal injury when perform service procedures. Furthermore, the possible existed improper repairing method may damage equipment or products. It is recommended that service engineers should have repairing knowledge, experience, as well as appropriate product training per new model before performing the service procedures.

NOTICE:

! To avoid electrical shocks, the products should be connect to an authorized power cord, and turn off the master power switch each time before removing the AC power cord.

! To prevent the product away from water or explosed in extremely high humility environment.

! To ensure the continued reliability of this product, use only original manufacturer's specified parts.

! To ensure following safety repairing behavior, put the replaced part on the components side of PWBA, not solder side.

! To ensure using a proper screwdriver, follow the torque and force listed in assembly and disassembly procedures to screw and unscrew screws.

! Using Lead-Free solder to well mounted the parts.

! The fusion point of Lead-Free solder requested in the degree of 220°C.

1. Exploded Diagram

1.1 Product Exploded Diagram





ltem	ODM DESCRIPTION
14	FFC LVDS
15	ASSY SHD
16	FFC CRTL
17	SCRW
18	ASSY RC
19	PCBA CTRL BD
20	ASSY CLMN
21	ASSY BASE

2. Wiring connectivity diagram

There are two types of wiring diagrams for model VG252Q. The wiring connectivity position will be different according to the ACTUAL PCBA connector position. Please base on different SKU refer to below diagram.

NOTE: INF BD= Interface Board, PWR BD=Power Board, CTRL BD= Control Board

1. SKU with USB.



2. SKU without USB.



3. Mechanical Instruction

Tools Required

List the type and size of the tools that would typically can be used to disassemble the product to a point

where components and materials requiring selective treatment can be removed.

- Tool Description:
- working table
- Screw-driver: Philips-head screwdriver, Hex-head screwdriver
- Knife
- glove
- cleaning cloth
- ESD protection

4. Disassembly and Assembly SOP



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S3	Tear off 4 tapes of the SPK wire, extract the SPK wire from the	e IF BD and disassemble	
Disassemble SPK and	the SPK from the MF as picture 1.		
Lamp wire	Tear off the black tape of the lamp wire, tear off black mylar on SHD and extract the		
	lamp wire from the P/BD as picture 2.		
	Extract the LED wire from the IF BD and tear off the wire from	the SHD as picture 3.	
PICTURE 1	PICTURE 2	PICTURE 3	
S4	Unlock 2 TRIM screws and disassemble the ASSY TRIM from	n the MF as picture 1.	
Disassemble ASSY	Disassemble the LED BD from the Trim and extract the LED v	wire from the LED BD as	
Trim	picture 2.		
PICTURE	1 PICTURE 2		
S5	Extract 1 FFC wires from the panel as picture 1.		
Disassemble SHD and	Unlock 9 screws from the MF and disassemble the MF from the	he Pane as picture 2.	
MF.	Extract the lamp wire from the panel as picture 2.		
PICTURE 1	PICTURE 2	PICTURE 3	
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5. Troubleshooting

TROUBLESHOOTING

Before sending your LCD monitor for servicing, please check the trouble-shooting list below to see if you can self-diagnose the problem.

Problems	Current Status	Remedy
No Picture	LED ON	 Using OSD, adjust brightness and contrast to maximum or reset to their default settings.
	LED OFF	Check the power switch.
		• Check if AC power cord is properly connected to the monitor.
	LED displays amber color	 Check if video signal cable is properly connected at the back of monitor.
		Check if the power of computer system is ON.
Abnormal Picture	Unstable Picture	• Check if the specification of graphics adapter and monitor is in compliance which may be causing the input signal frequency mismatch.
	Display is missing, center shift, or too small or too large in display size	 Using OSD, adjust RESOLUTION, CLOCK, CLOCK-PHASE, H-POSITION and V-POSITION with non-standard signals.
		 Using OSD, in case of missing full-screen image, please select other resolution or other vertical refresh timing. Using OSD, in case of missing full-screen image, please select other resolution or other vertical
		 refresh timing. Wait for a few seconds after adjusting the size of the image before changing or disconnecting the signal cable or powering OFF the monitor.
Abnormal Sound (Only Audio-Input model) (Optional)	No sound, or sound level is too low	 Check the audio cable with the host PC is connected.
		• Check if the volume setup of the host PC is in minimum position and try to raise the volume level.

(VGA Mode)

(HDMI/DP Mode)

Problems	Current Status	Remedy
No Picture	LED ON	 Using OSD, adjust brightness and contrast to maximum or reset to their default settings.
	LED OFF	Check the power switch.
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	LED displays amber color	 Check if video signal cable is properly connected at the back of monitor.
		• Check if the power of computer system is ON.
Abnormal Sound (Only Audio-Input model) (Optional)	No sound, or sound level is too low	Check the audio cable with the host PC is connected.
		• Check if the volume setup of the host PC is in minimum position and try to raise the volume level.

6. FRU List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of ACER VG252Q. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For AUTHORIZED SERVICE PROVIDERS, your office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional office to order FRU parts for 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 to dispose it properly, or follow the rules set by your regional office on how to return it.

Category	ACER DESCRIPTION	Description	PART NO.
LCD			
	LED LCD Panel AUO 24.5' FHD M250HAN01.3 U1 400nit 5ms 1000:1	LCM24.5 M250HAN01.3 U1 AUO	KL.24505.019
BOARD			
IF BD	MAIN BOARD 2H1DP+S+L+OD VG252Q-X ERP	PCBA IF BD MI 2HDPS VG252QX L5	55.TH6M3.005
P/ BD	POWER BOARD 2H1DP+S+L+OD VG252Q-X	PCBA SPS BD MI VG252Q-X	55.TH6M3.006
CTRL BD	FUNCTION KEY BOARD WITH 5-DIRECTION BUTTON AND WIRE	PCBA CTRL BD MI VG252Q	55.TH6M3.003
	LED BOARD WITH WIRE	PCBA LED BD MI VG252Q	55.TH6M3.004