Acer Monitor V227Q 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.

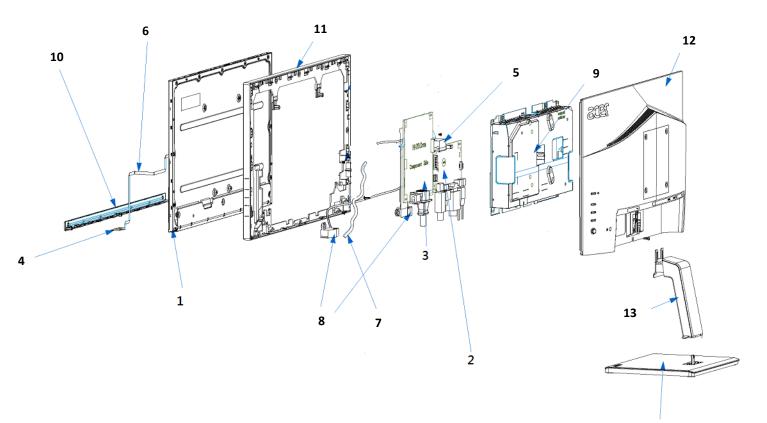
! To ensure using a proper screwdriver, follow the torque and force listed in assembly and disassembly procedures to screw and unscrew screws.

! 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



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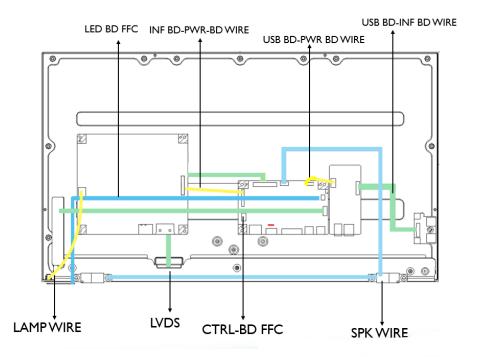
ltem	ODM DESCRIPTION
1	LCDM
2	PCBA IF BD
3	PCBA SPS BD
4	PCBA LED BD
5	FFC LVDS
6	FFC LED
7	WIRE
8	SPK
9	ASSY SHD
10	ASSY FT
11	MF
12	ASSY RC
13	ASSY CLMN
14	ASSY BASE

2. Wiring connectivity diagram

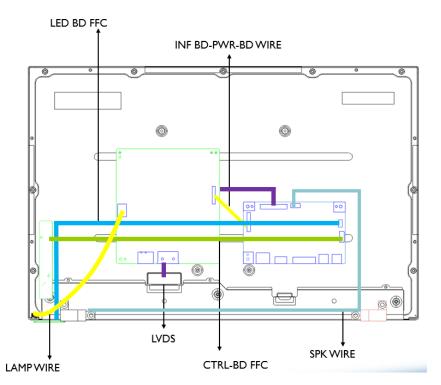
There are two types of wiring diagrams for model V227Q. The wiring connectivity position will be different according to the ACTUAL PCBA connector position. Please base on different SKU refer to below diagram.

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

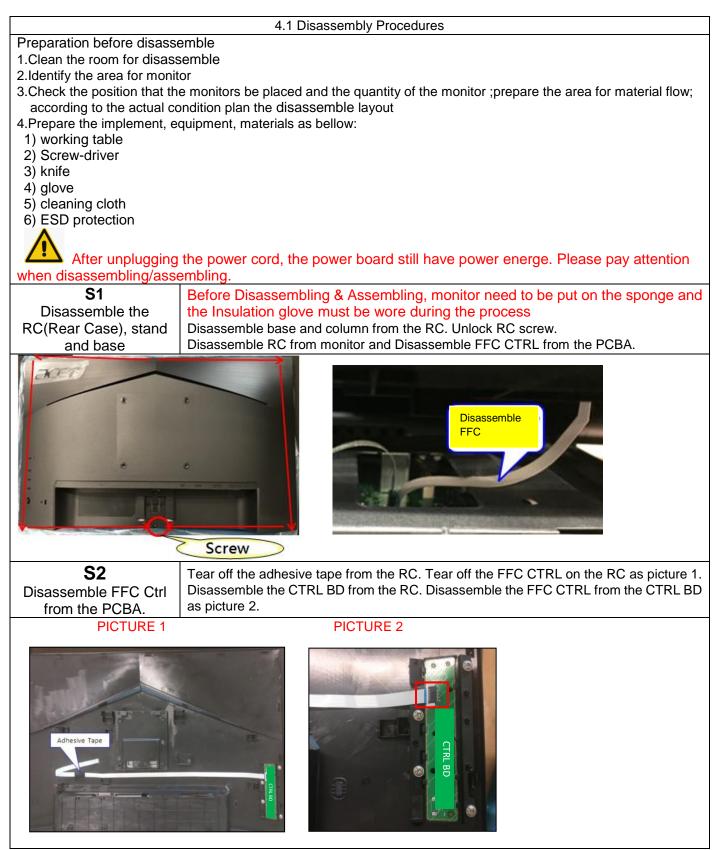
List the type and size of the tools that would typically can be used to disassemble the product to a point

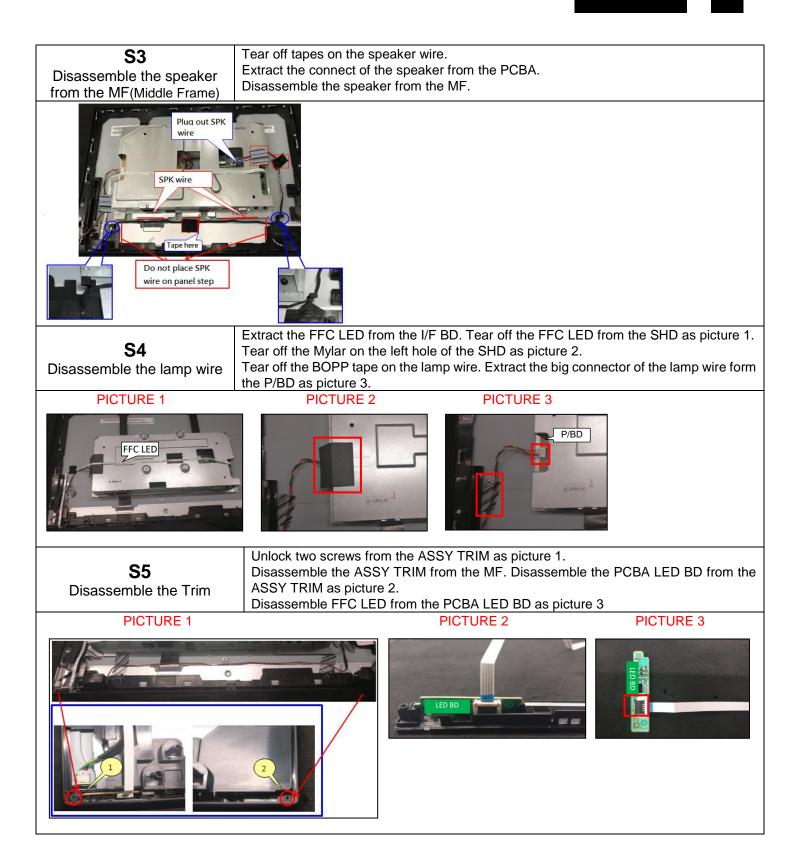
where components and materials requiring selective treatment can be removed. Tool Description:

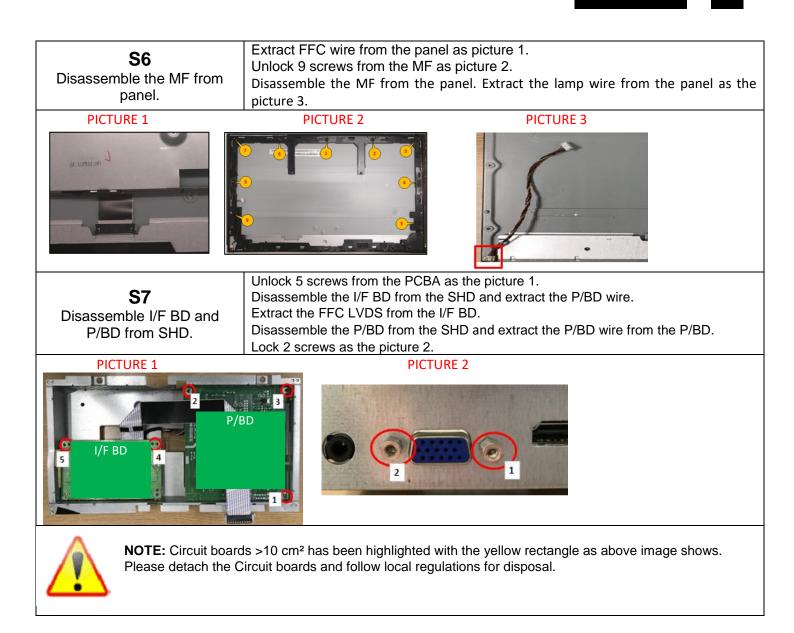
- working table
- Screw-driver: Philips-head screwdriver, Hex-head screwdriver
- Knife
- glove
- cleaning cloth
- ESD protection

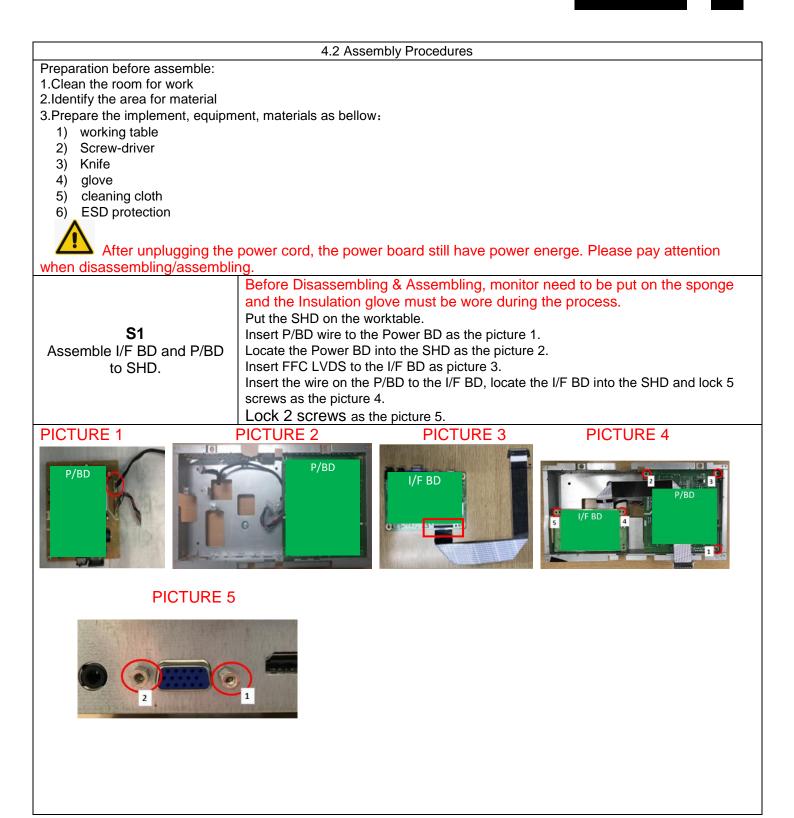
4. Disassembly and Assembly SOP

V227Q

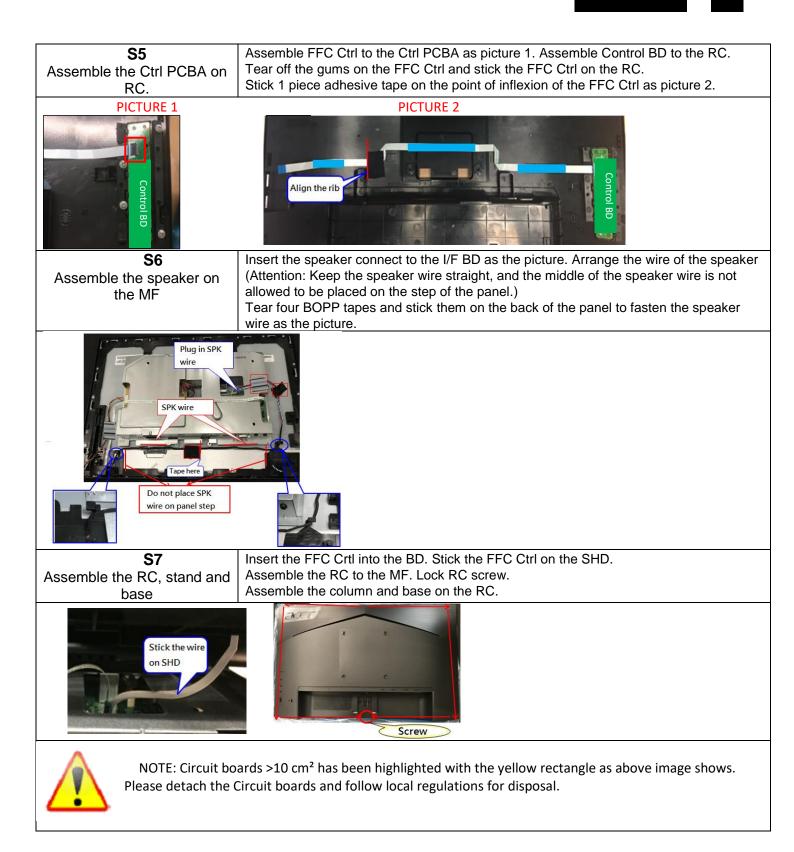








S2 Assemble the MF and panel	Take the Panel on the sponge cushion. Insert the little connector of the lamp wire to panel as the picture 1, thread the lamp wire out of the hole of the MF. Assemble the MF onto the panel. Lock 9 screws to the MF as the picture as the picture 2. Insert the FFC wire to the Panel as the picture 3. Assemble the SHD on the MF as the picture 4.		
PICTURE 1	PICTURE 2	PICTURE 3	PICTURE 4
		H. SUMOS (SH)	
S3 Assemble the ASSY TRIM	the picture 3	BD into the ASSY TRIM. I on the MF and lock two	MD screws to the ASSY TRIM as
PICTURE 1	PICTURE 2		PICTURE 3
	LED BD		
			D .Stick 1 piece BOPP tape to
S4 Assemble the lamp wire	fasten the lamp wire as the picture 1. Affix a Mylar on the left hole of the SHD as the picture 2. Tear off the four gums on the FFC LED and stick the FFC LED on regular mark wire on the SHD as the picture 3. Insert the FFC LED into the I/F BD		
PICTURE 1	PICTURE 2	Р	ICTURE 3
			Align the edge



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.

(VGA 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.
		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.
		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.
(Only Audio- s	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 V227Q. 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	•		
1/4 	LED LCD Panel AUO 21.5" FHD None Glare M215HAN01.1 L0-Z19 1000:1 14ms 250nits	LCDM 21.5W M215HAN01.1 L0 Z	KL.21505.035
BOARD			
IF BD		PCBA IF BD MI ADH+SPK B227Q	55.TCYM3.003
P/BD	POWER BOARD SPK WITH WIRE V227Q	PCBA SPS BD MI V227Q	55.TCZM3.001
CTRL BD	FUNCTION KEY BOARD WITH BUTTON	PCBA CTRL BD MI B277	55.TBTM3.003
	LED BOARD	PCBA LED BD SMD B277	55.TBTM3.006