

Service  
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Simplified

# Service Manual

## Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all DELL Company Equipment. The service procedures recommended by DELL and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. DELL could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, DELL has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by DELL must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, DELL Company will be referred to as DELL.

### WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from DELL. DELL assumes no liability, express or implied, arising out of any unauthorized modification of design.

Servicer assumes all liability.

### FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

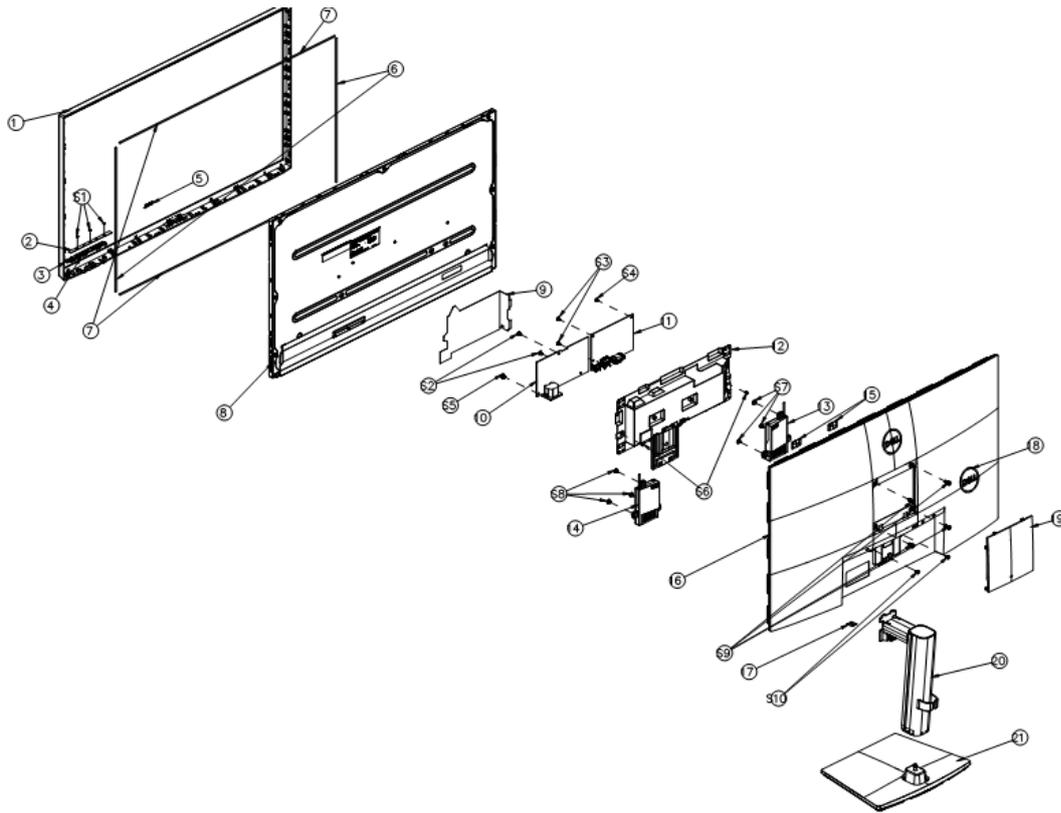
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

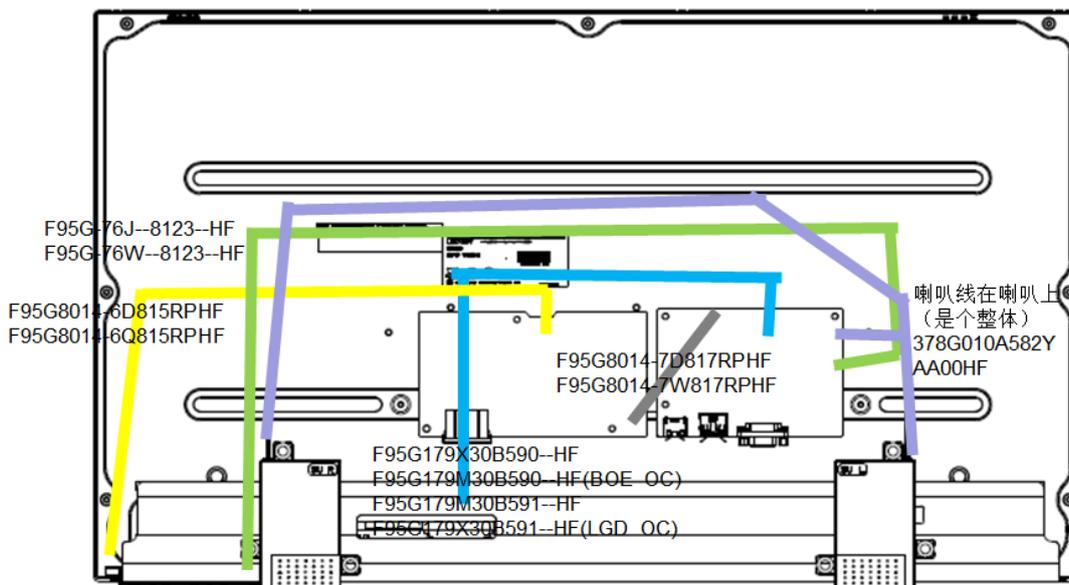
- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body is grounded through wristband.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

# 1. Exploded view diagram with list of items



ITEM	POINT	PARTS NUMBER	PARTS NAME	Q'TY
1	ME001	Q34GA359-VH-1R0130	BEZEL	1
2	ME002		KEY_BOARD	1
3	ME003	Q33G2074-VH-1S0100	KEY_POWER	1
4	ME004	Q33G2075-VH-1S0100	KEY_FUNCTION	1
5	ME005	Q23G3155700013	DELL_LOGO_F	1
6	ME006			
7	ME007	Q16G00038320000A00	SPONGE_TB	1
8	ME008		PANEL	1
9	ME009		MYLAR	1
10	ME010		POWER_BOARD	1
11	ME011		MAIN_BOARD	1
12	ME012	Q15G5030101201	MAIN_FRAME	1
13	ME013		SPEAKER_L	1
14	ME014		SPEAKER_R	1
15		P15G8299--10	VESA_BRACKET	2
16	ME015	Q34GA360-VH-2R0130	REAR_COVER	1
17		Q15G0233--2	KENSINGTON_PLATE	1
18	ME016	Q23G3155700016	DELL_LOGO_R	1
19	ME017	Q34GA361-VH-1S0100	COVER_VESA	1
20	ME018	Q37G1523011011	HINGE_ASSI;Y	1
21	ME019	Q37G1522011011	BASE_ASSI;Y	1
S1	MES01	Q01G6019--2	SCREW_KEY	3
S2	MES02	0D1G1030--7120	SCREW_POWER_BOARD	2
S3	MES03	0D1G1030--7120	SCREW_MAIN_BOARD	2
S4	MES04	0D1G1030--7120	SCREW_MAIN_BOARD	1
S5	MES05	0M1G3840--8120	SCREW_AC	1
S6	MES06	0M1G30302.5120	SCREW_PANEL	2
S7	MES07	0Q1G1830--6120	SCREW_SPEAKER_L	2
S8	MES08	0Q1G1830--6120	SCREW_SPEAKER_R	2
S9	MES09	0M1G2940-10225	SCREW_VESA	4
S10	MES10	0M1G3030--6-47-CR3	SCREW_REAR_COVER	2

## 2. Wiring connectivity diagram



## 3. 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:

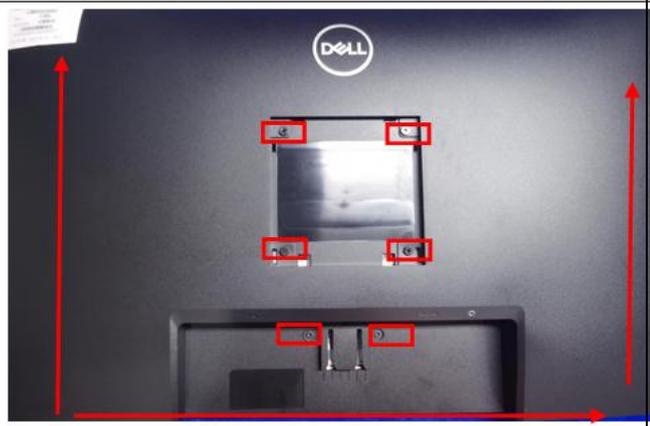
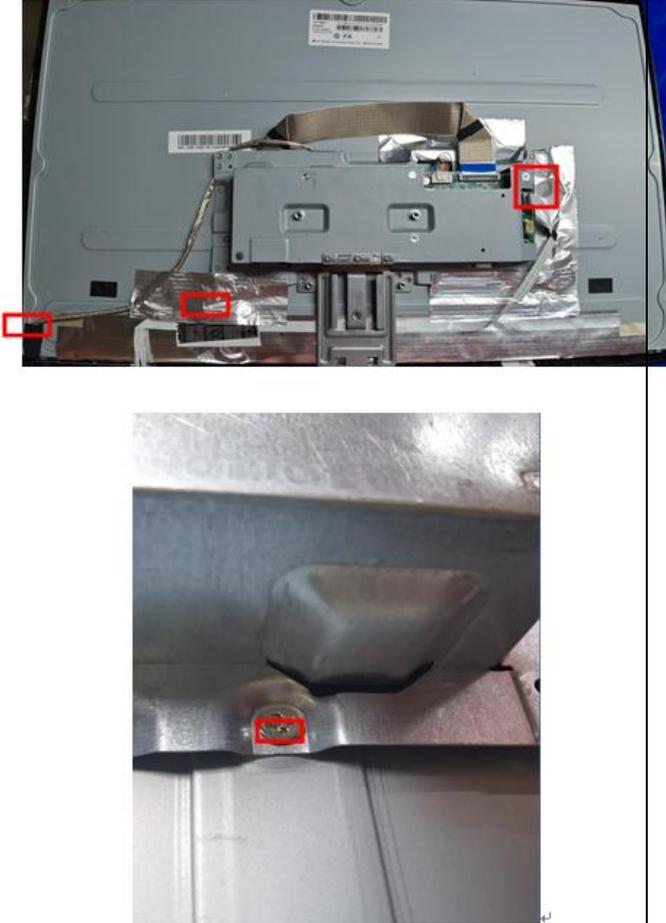
- Screwdriver (Phillip-head, Hexagonal head)
- Penknife

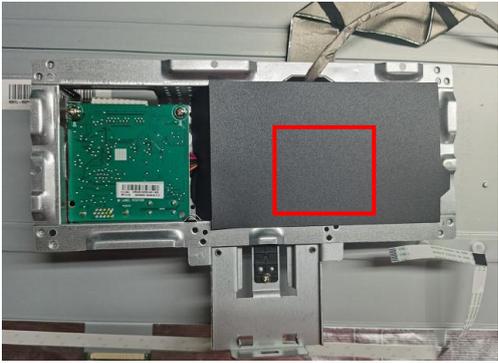
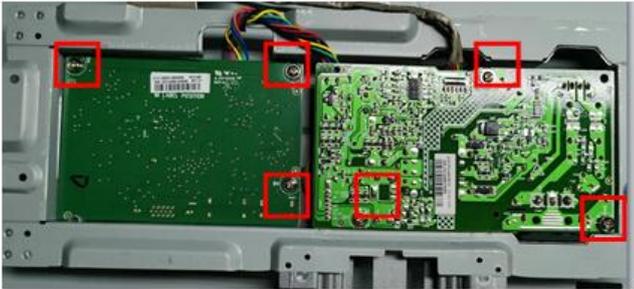
### 3.1 Disassembly Procedures

Tools: 2 Power screwdrivers ( $\phi=5\text{mm}$ ,  $L=60\text{mm}$ ); 1 small cross screwdriver; turnbuckle driver;

Setting: Power screwdriver torque  $A=6\text{ kgF.Cm}$

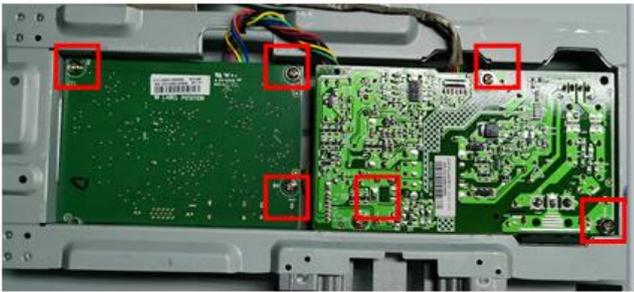
Step	Figure	TOOL	Remark
Remove the Base ass'y.			<p>Unscrew the screw loosely by hand and pull out the stand.</p> <p>Note: Put the monitor on a flat, soft and clean surface.</p>

			<p>Unscrew the 4 screws by the Philips-head Screwdriver and insert the scraper into the button site to open the rear cover</p>
<p>Remove the Rear cover</p>			<p>Disconnect speaker cables</p>
<p>Remove the mainframe</p>			<p>Remove all the aluminum foil and the cable connectors and Unscrew the two screws on the two sites of mainframe</p>

			remove the mylar on the powerboard
<b>Remove the mainboard and power board</b>			Unscrew the screws on the boards
			Unscrew the two Hexagonal screws
<b>Mainboard and powerboard</b>			

<p>panel</p>			
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### 3.2 Assembly Procedures:

<p>Assemble the boards</p>	 		<p>screw the screws on the mainboard and powerboard</p>
<p>Assemble the maylar</p>			

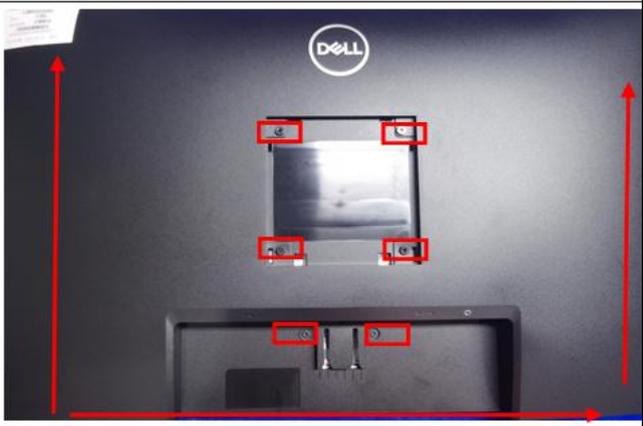
**Assemble  
the  
mainframe**



stick all the  
aluminum foil and  
connect the cable  
and screw the two  
screws on the two  
sites of mainframe

**connect the  
speake  
cables**



<p><b>Assemble the rear cover</b></p>			<p>screw the six screws by the Philips-head Screwdriver</p>
<p><b>Assemble the stand ass'y</b></p>			<p>Tighten the screw on the stand ass'y</p>

#### 4. Trouble shooting instructions

**⚠ WARNING:** Before you begin any of the procedures in this section, follow the [Safety instructions](#).

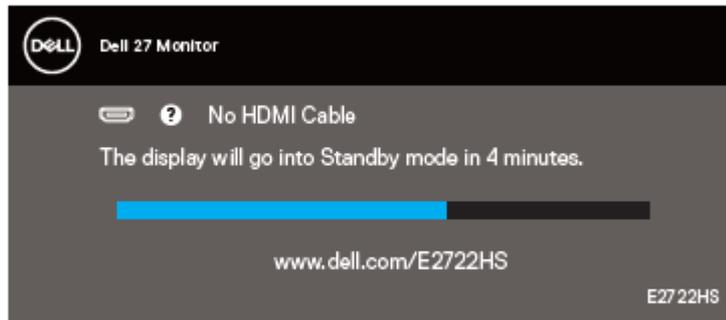
##### Self-Test

Your monitor provides a self-test feature that allows you to check if your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

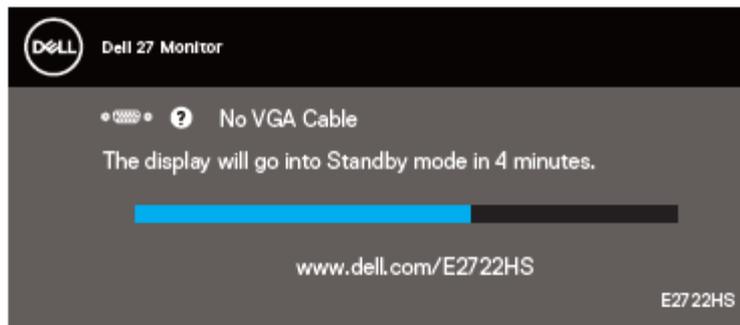
1. Turn off both your computer and the monitor.
2. Disconnect all video cables from the monitor. This way, the computer doesn't have to be involved.
3. Turn on the monitor.

If the monitor is working correctly, it detects that there is no signal and one of the following message appears. While in self-test mode, the power LED remains white.

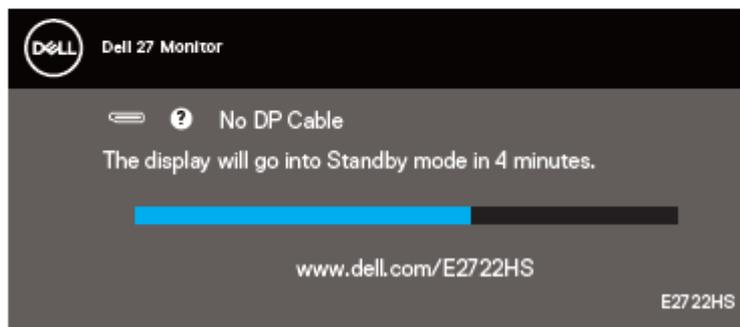
## E2722HS



or



or



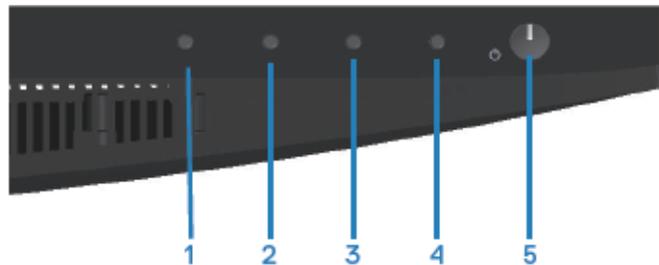
4. Turn Off your monitor and reconnect the video cable; then turn on your computer and the monitor.

If your monitor remains dark after you reconnect the cables, check your video controller and computer.

## Built-in diagnostics

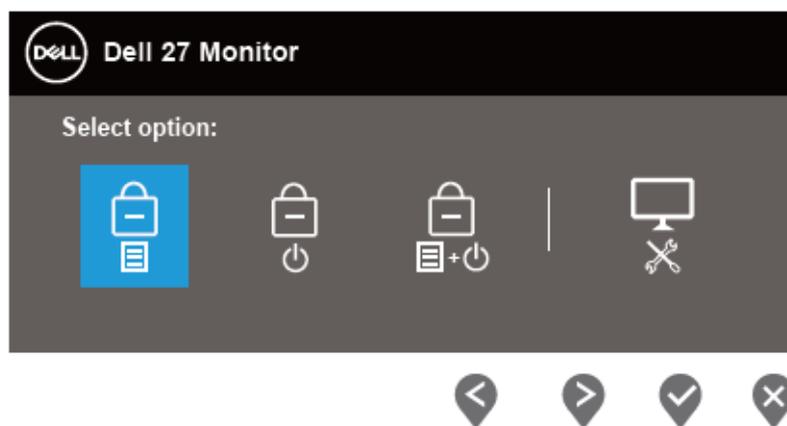
Your monitor has a built-in diagnostic tool that helps you determine if any screen abnormality you experience is an inherent problem with your monitor, or with your computer and video card.

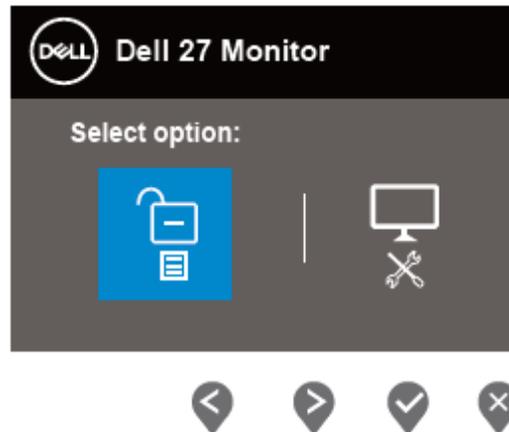
 **NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in self-test mode.**



To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold the Exit button (button 4) for four seconds to enter the OSD lock/unlock menu.





4. Select the  icon to run the built-in diagnostics.
5. Carefully inspect the screen for abnormalities.
6. Press the Up button (button 1) on the back cover again. The color of the screen changes to grey.
7. Inspect the display for any abnormalities.
8. Repeat step 6 and 7 to inspect the display in red, green, blue, black, white and text pattern screens.

The test is complete when the text pattern screen appears. To exit, press the Up button (button 1) again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.