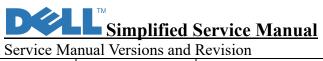


Simplified Service Manual LCD Monitor E1916HV



No.	Version	Release Date	Revision
1	1.0	2015/04/20	Initial Release
2	2.0	2021/02/26	ErP lot 5 additional requirements



1.	IMPORTANT SAFETY NOTICE
	EXPLODED VIEW DIAGRAM WITH LIST OF ITEMS
3.	WIRING CONNECTIVITY DIAGRAM
4.	LIST OF TOOLS / EQUIPMENT
	DISASSEMBLY AND ASSEMBLY PROCEDURES
6.	TROUBLE SHOOTING INSTRUCTIONS



Simplified Service Manual

1. Important Safety notice

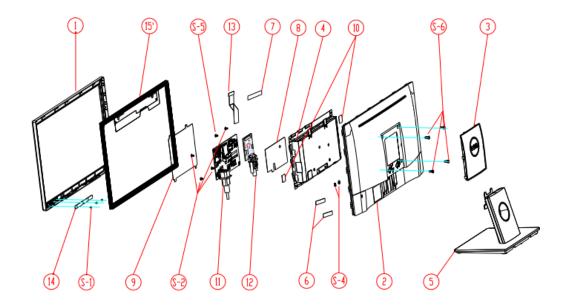
Connecting Your Monitor

MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

- 1. Turn off your computer and disconnect the power cable.
- Connect VGA cable to the corresponding video port on the back of your computer.

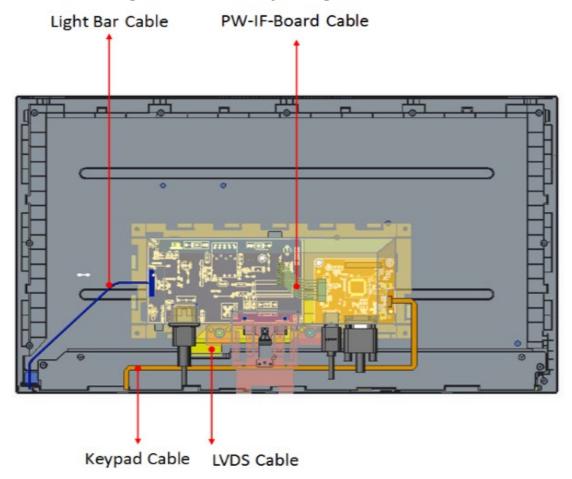
2. Exploded view diagram with list of items







3. Wiring connectivity diagram



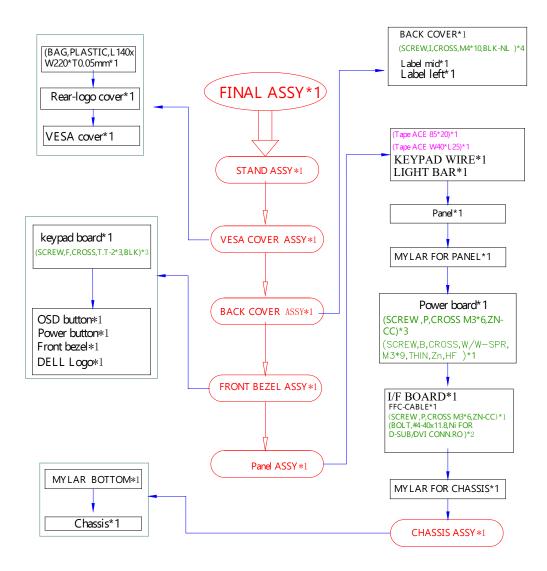
4. List of tools / equipment

- 1. Philips-head screwdriver
- 2. Hex-head screwdriver

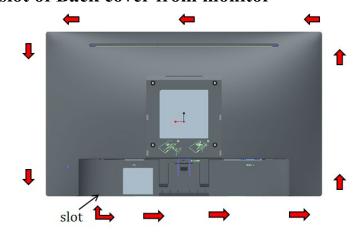


5. Disassembly and Assembly Procedures

LE19PB DISASSEMBLY BLOCK

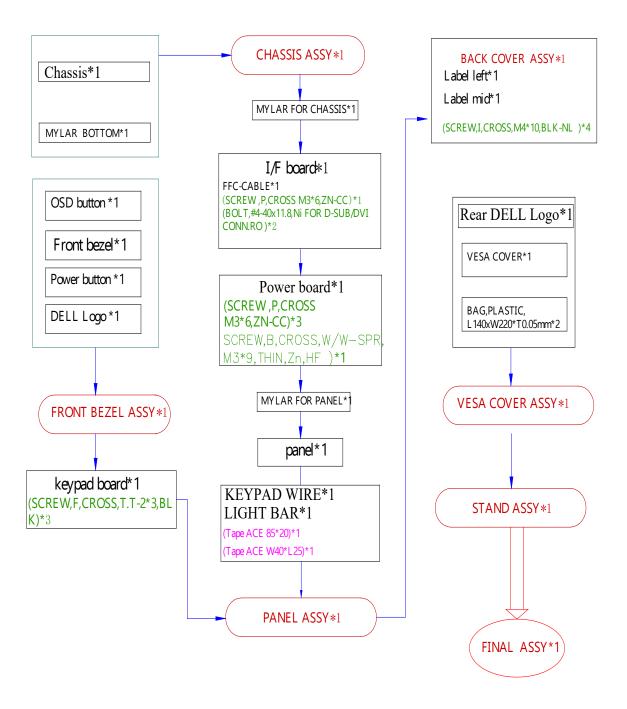


Note: 1. The arrows point out the direction of disassembly. **Disassemble the slot of Back cover from monitor**





LE19PB ASSEMBLY BLOCK





6. Trouble shooting instructions

Troubleshooting

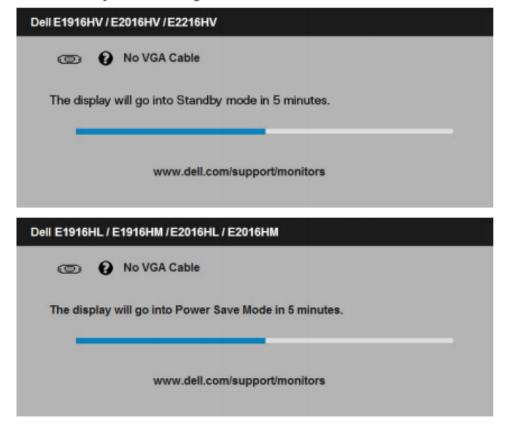
MARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

Your monitor provides a self-test feature that allows you to check whether 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:

- Turn off both your computer and the monitor.
- Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove VGA cables from the back of computer.
- Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.



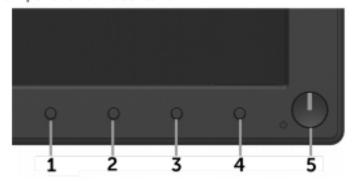


- 4. This message also appears during normal system operation, if the video cable becomes disconnected or damaged. The monitor will enter Standby mode after 5 minutes if left at this state.
- Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

Built-in Diagnostics

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

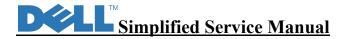


NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in self-test mode.

To run the built-in diagnostics:

- Ensure that the screen is clean (no dust particles on the surface of the screen).
- Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
- Press and hold the Button 1 and Button 4 on the front panel simultaneously for 2 seconds. A gray screen appears.
- 4. Carefully inspect the screen for abnormalities.
- Press the Button 4 on the front panel again. The color of the screen changes to red.
- Inspect the display for any abnormalities.
- Repeat steps 5 and 6 to inspect the display in green, blue, black, white screens.

The test is complete when the Text screen appears. To exit, press the **Button 4** 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.



Common Problems

The following table provides general information about common monitor problems you might encounter and the possible solutions.

Common symptoms	What you experience	Possible solutions
No video/Power LED off		Ensure that the video cable connecting the monitor and the computer is properly connected and secure.
		Verify that the power outlet is functioning properly using any other electrical equipment.
		Ensure that the power button is depressed fully.
		Ensure that the correct input source is selected using the Input Source Select button.
		Check the "Power LED Button" option under Energy in OSD Menu.
No video/Power LED on	No picture or no brightness	Increase brightness & contrast controls via OSD.
		Perform monitor self-test feature check.
		Check for bent or broken pins in the video cable connector.
		Ensure that the correct input source is selected using the Input Source Select menu.
		Run the built-in diagnostics.
Poor focus	Picture is fuzzy, blurry,	Perform Auto Adjust via OSD.
	or ghosting	Adjust the Phase and Pixel Clock controls via OSD.
		Eliminate video extension cables.
		• Reset the monitor to Factory Settings.
		Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery video	Wavy picture or fine movement	Perform Auto Adjust via OSD.
		Adjust the Phase and Pixel Clock controls via OSD.
		Reset the monitor to Factory Settings.
		Check environmental factors.
		Relocate the monitor and test in another room.



Missing pixels	LCD screen has spots	Cycle power on-off.
		Pixel that is permanently off is a natural defect that can occur in LCD technology.
		For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.
Stuck-on pixels	LCD screen has bright	Cycle power on-off.
	spots	Pixel that is permanently off is a natural defect that can occur in LCD technology.
		For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: http://www.dell.com/support/monitors.
Brightness problems	Picture too dim or too	 Reset the monitor to Factory Settings.
	bright	Auto Adjust via OSD.
		Adjust brightness and contrast controls using OSD.
Geometric distortion	Screen not centered correctly	 Reset the monitor to Factory Settings.
		Auto Adjust via OSD.
		Adjust horizontal and vertical controls using OSD.
Horizontal/Vertical	Screen has one or	 Reset the monitor to Factory Settings.
lines	more lines	Perform Auto Adjust via OSD.
		Adjust Phase and Pixel Clock controls via OSD.
		Perform monitor self-test feature check and determine if these lines are also in self-test mode.
		Check for bent or broken pins in the video cable connector.
Synchronization		Reset the monitor to Factory Settings.
problems	appears torn	Perform Auto Adjust via OSD.
		Adjust Phase and Pixel Clock controls via OSD.
		Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode.
		Check for bent or broken pins in the video cable connector.
		• Restart the computer in the safe mode.



Safety-related issues	Visible signs of smoke or sparks	Do not perform any troubleshooting steps.
		Contact Dell immediately.
Intermittent problems	Monitor malfunctions on & off	Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.
		• Reset the monitor to Factory Settings.
		Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing color	Picture missing color	Perform monitor self-test feature check.
		Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.
		Check for bent or broken pins in the video cable connector.
Wrong color	Picture color not good	Change the Color Mode in the Color OSD to Graphics or Video depending on the application.
		Try different Color Preset Settings in Color OSD. Adjust R/G/B value in Color OSD if the Color Management is turned off.
		Change the Input Color Format to PC RGB or YPbPr in the Color OSD.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	Set the screen to turn off after a few minutes of screen idle time. These can be adjusted in Windows Power Options or Mac Energy Saver setting.
		Alternatively, use a dynamically changing screensaver.

Specific symptoms	What you experience	Possible solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	Check the Aspect Ratio setting in the Display OSD. Reset the monitor to Factory Settings .
Cannot adjust the monitor with the buttons on the front	OSD does not appear on the screen	Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
panel		Check whether the OSD menu is locked. If yes, press and hold the button beside the Power button for 10 seconds to unlock (for more information, see Lock).
No Input Signal when user controls are pressed	No picture, the LED light is white. When you press "up", "down" or "Menu" key, the message " No input signal" will appear.	Check the signal source. Ensure that the computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard.
		Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary.
		Reset the computer or video player.
The picture does not fill the entire screen	The picture cannot fill the height or width of the screen	Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Due the built is disposation.
		Run the built-in diagnostics.

Dell Soundbar Problems

Common symptoms	What you experience	Possible solutions
No sound for system where the Soundbar draws power from an AC adapter	No power to Soundbar - the power indicator is off	Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (white LED) on the front of the Soundbar is illuminated.
		 Confirm that the power cable from the Soundbar is plugged into the adapter.
No sound	Soundbar has power - power indicator is on	Plug the audio line-in cable into the computer's audio out jack.
		Set all volume controls to their maximum and ensure that the mute option is not enabled.
		Play some audio content on the computer (example, audio CD, or MP3).
		Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting.
		Clean and reseat the audio line-in plug.
		Test the Soundbar using another audio source (For example: portable CD player, MP3 player).