

Simplified Service Manual–S2422HGB

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1. General Safety Instructions

Use the following safety guidelines to help ensure your own personal safety and to help protect your equipment and working environment from potential damage.

NOTE: In this section, equipment refers to monitors.

IMPORTANT NOTICE FOR USE IN HEALTHCARE ENVIRONMENTS:

Dell products are not medical devices and are not listed under UL or IEC 60601 (or equivalent). As a result, they must not be used within 6 feet of a patient or in a manner that directly or indirectly contacts a patient

1.1 SAFETY: General Safety

WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.

When setting up the equipment for use:

- Place the equipment on a hard, level surface. Leave 10.2 cm (4 in) minimum of clearance on all vented sides of the computer to permit the airflow required for proper ventilation.
- Restricting airflow can damage the computer or cause a fire.
- Do not stack equipment or place equipment so close together that it is subject to recirculated or preheated air.
- NOTE: Review the weight limits referenced in your computer documentation before placing a monitor or other devices on top of your computer.
- Ensure that nothing rests on your equipment's cables and that the cables are not located where they can be stepped on or tripped over.
- Ensure that all cables are connected to the appropriate connectors. Some connectors have a similar appearance and may be easily confused (for example, do not plug a telephone cable into the network connector).
- Do not place your equipment in a closed-in wall unit or on a bed, sofa, or rug.
- Keep your device away from radiators and heat sources.
- Keep your equipment away from extremely hot or cold temperatures to ensure that it is used within the specified operating range.
- Do not push any objects into the air vents or openings of your equipment. Doing so can cause fire or electric shock by shorting out interior components.
- Avoid placing loose papers underneath your device. Do not place your device in a closed-in wall unit, or on a soft, fabric surface such as a bed, sofa, carpet, or a rug.

When operating your equipment:

- Do not use your equipment in a wet environment, for example, near a bath tub, sink, or swimming pool or in a wet basement.
- Do not use AC powered equipment during an electrical storm. Battery powered devices may be used if all cables have been disconnected.
- Do not spill food or liquids on your equipment.
- Before you clean your equipment, disconnect it from the electrical outlet. Clean your device with a soft cloth dampened with water. Do not use liquids or aerosol cleaners, which may contain flammable substances.
- Clean the monitor display with a soft, clean cloth and water. Apply the water to the cloth, then stroke the cloth across the display in one direction, moving from the top of the display to the bottom. Remove moisture from the display quickly and keep the display dry.
- Long-term exposure to moisture can damage the display. Do not use a commercial window cleaner to clean your display.
- If your equipment does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.

Protecting Against Electrostatic Discharge

Electrostatic discharge (ESD) events can harm electronic components inside your equipment. Under certain conditions, ESD may build up on your body or an object, such as a peripheral, and then discharge into another object, such as your computer. To prevent ESD damage, you should discharge static electricity from your body before you interact with any of your equipment's internal electronic components, such as a memory module. You can protect against ESD by touching a metal grounded object (such as an unpainted metal surface on your computer's I/O panel) before you interact with anything electronic. When connecting a peripheral (including handheld digital assistants) to your equipment, you should always ground both yourself and the peripheral before connecting it. In addition, as you work inside the equipment, periodically discharge any static charge your body may have accumulated.

You can also take the following steps to prevent damage from electrostatic discharge:

- When unpacking a static-sensitive component from its shipping carton, do not remove the component from the antistatic packing material until you are ready to install the component. Just before un wrapping the antistatic package, be sure to discharge static electricity from your body.
- When transporting a sensitive component, first place it in an antistatic container or packaging.
- Handle all electrostatic sensitive components in a static-safe area. If possible, use antistatic floor pads and work bench pads.

1.2 SAFETY: General Power Safety

Observe the following guidelines when connecting your equipment to a power source:

- Check the voltage rating before you connect the equipment to an electrical outlet to ensure that the required voltage and frequency match the available power source.
- Do not plug the equipment power cables into an electrical outlet if the power cable is damaged
- Norway and Sweden: If this product is provided with a 3-prong power cable, connect the power cable to a grounded electrical outlet only.
- If you use an extension power cable, ensure that the total ampere rating of the products plugged in to the extension power cable does not exceed the ampere rating of the extension cable.
- If you must use an extension cable or power strip, ensure the extension cable or power strip is connected to a wall power outlet and not to another extension cable or power strip. The extension cable or power strip must be designed for grounded plugs and plugged into a grounded wall outlet.
- If you are using a multiple-outlet power strip, use caution when plugging the power cable into the power strip. Some power strips may allow you to insert a plug incorrectly. Incorrect insertion of the power plug could result in permanent damage to your equipment, as well as risk of electric shock and/or fire. Ensure that the ground prong of the power plug is inserted into the mating ground contact of the power strip.
- Be sure to grasp the plug, not the cable, when disconnecting equipment from an electric socket.

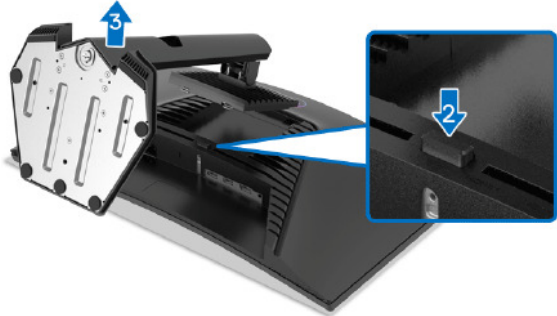

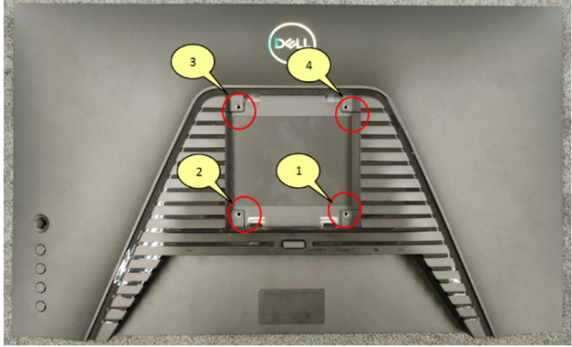
If your equipment uses an AC adapter:

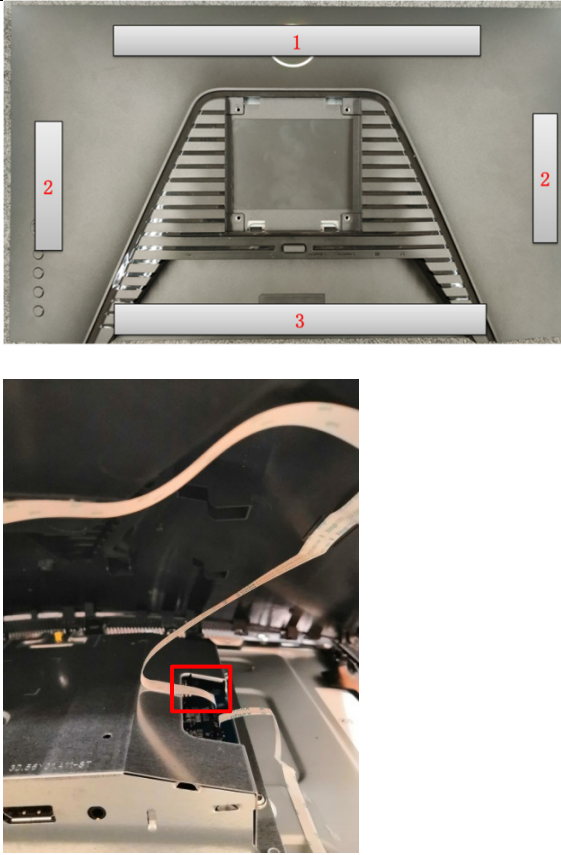
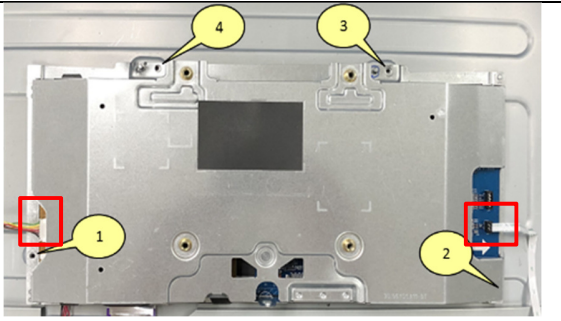
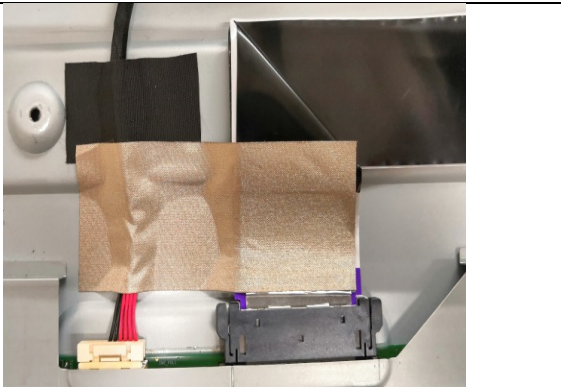
- Use only the Dell provided AC adapter approved for use with this device. Use of another AC adapter may cause a fire or explosion.
- NOTE: Refer to your system rating label for information on the proper adapter model approved for use with your device.
- Place the AC adapter in a ventilated area, such as a desk top or on the floor, when you use it to run the computer or to charge the battery. Do not cover the AC adapter with papers or other items that will reduce cooling; also, do not use the AC adapter inside a carrying case.
- The AC adapter may become hot during normal operation of your computer. Use care when handling the adapter during or immediately after operation.
- It is recommended that you lay the adapter on the floor or desk so that the green light is visible. This will alert you if the adapter should accidentally go off due to external effects. If for any reason the green light goes off, disconnect the AC power cord from the wall for a period of ten seconds, and then reconnect the power cord.
- Japan Only: Use only the Dell-provided AC power cable with the AC adapter. Use of any other power cable may damage the device or AC adapter or may present risk of fire or electric shock.

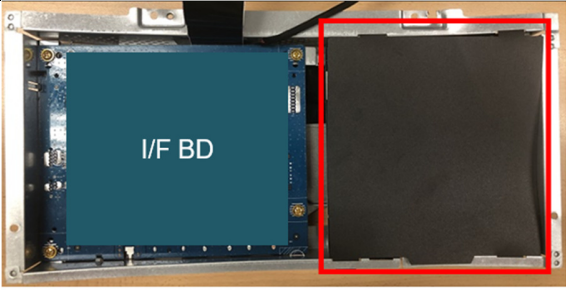
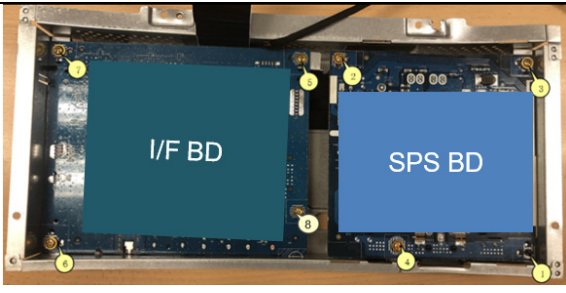
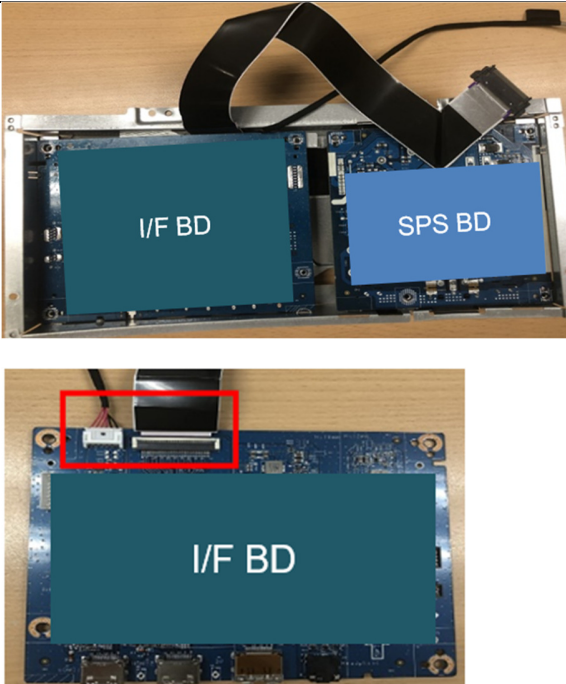
2. Disassembly SOP

Preparation before disassemble

1. Clean the room for disassemble
2. Identify the area for monitor
3. Check the position that the monitors be placed and the quantity of the monitor; prepare the area for material flow; according to the actual condition plan the disassemble layout
4. Prepare the implement, equipment, material as bellow:
 - 1) Working table
 - 2) Screw-driver
 - 3) Gloves
 - 4) Cleaning cloth
 - 5) ESD protection
 - 6) S2422HGB Curve Sponge Jig

Item	Picture	Operation	Tool	Notes
1		<p>To remove the stand:</p> <ol style="list-style-type: none"> 1. Place the monitor on S2422HGB Curve Sponge Jig 2. Press and hold the stand release button 3. Lift the stand up and away from the monitor. 	<p>S2422HGB Curve Sponge Jig</p> 	<p>Panel and whole monitor head must be put on S2422HGB curve sponge jig to avoid panel damage.</p> <p>It is not allowed to place the front side of panel and monitor head on a flat surface</p>
2		<ol style="list-style-type: none"> 1. Unlock 4 RC screws 	<p>Screw-driver</p> <p>(Torsion of RC screw: 8~10Kg)</p>	



<p>3</p>		<ol style="list-style-type: none"> 1. Use hands or scraper bar to disassemble Rear Cover from monitor <p>Notice the disassembly order: Top Side=>Right/ Left Side=>Bottom Side</p> <ol style="list-style-type: none"> 2. Remove “CTRL BD FFC” from I/F BD and tear off it from Main SHD to take off Rear Cover 	<p>Scraper bar</p>	
<p>4</p>		<ol style="list-style-type: none"> 1. Remove “LENS BD (PWR BTN BD) FFC” from I/F BD 2. Remove Backlight wire from SPS BD 3. Unlock 4 screws on Main SHD 	<p>Screw-driver (Torsion of screw: 4.5±0.5Kg)</p>	
<p>5</p>		<ol style="list-style-type: none"> 1. Remove conductive cloth and acetate tape from panel 2. Unplug “LVDS FFC cable” and “WIRE 6P/10P” from panel 3. Take off Main SHD from Panel 		

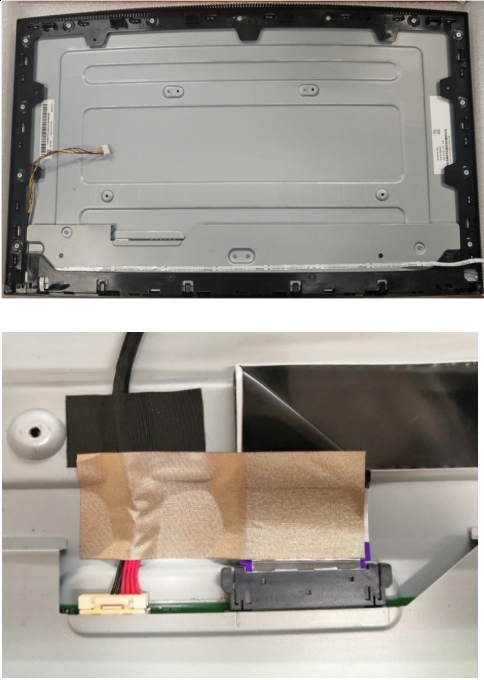

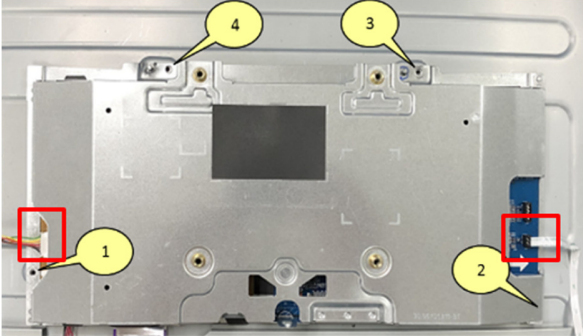

6		<ol style="list-style-type: none"> 1. Remove Mylar from SPS BD 		
7		<ol style="list-style-type: none"> 1. Unlock 8 PCBA screws 	Screw-driver (Torsion of screw: 8.5±1.0kg)	
8		<ol style="list-style-type: none"> 1. Disassemble I/F BD from Main SHD and remove SPS BD wire from I/F BD 2. Disassemble SPS BD from Main SHD 3. Remove "LVDS FFC cable" and "WIRE 6P/10P" from I/F BD 		

3. Assembly SOP

Preparation before assemble

1. Clean the room for work
2. Identify the area for material
3. Prepare the implement, equipment, material as bellow:
 - 7) Working table
 - 8) Screw-driver
 - 9) Glove
 - 10) Cleaning cloth
 - ESD protection

Item	Picture	Operation	Tools	Notes
1		<ol style="list-style-type: none"> 1. Insert "LVDS FFC cable" and "WIRE 6P/10P" into I/F BD 2. Assemble SPS BD to Main SHD 3. Insert SPS BD wire to I/F BD and assemble I/F BD to Main SHD 4. Lock 8 PCBA screws 	<p>Screw-driver (Torsion of screw: 8.5±1.0kg)</p>	
2		<ol style="list-style-type: none"> 1. Assemble Mylar to SPS BD 		

<p>3</p>		<ol style="list-style-type: none"> 1. Place Panel on S2422HGB Curve Sponge Jig 2. Insert "LVDS FFC cable" and "WIRE 6P/10P" into Panel 3. Paste an acetate tape on "WIRE 6P/10P" for position 4. Paste a conductive cloth on Panel and cables 	<p>S2422HGB Curve Sponge Jig</p> 	<p>Panel and whole monitor head must be put on S2422HGB curve sponge jig to avoid panel damage.</p> <p>It is not allowed to place the front side of panel and monitor head on a flat surface</p>
<p>4</p>		<ol style="list-style-type: none"> 1. Place Main SHD on Panel 2. Insert Backlight wire to SPS BD 3. Lock 4 screws to fix Main SHD on Panel 4. Insert "LENS BD (PWR BTN BD) FFC" to I/F BD 		
<p>5</p>		<ol style="list-style-type: none"> 1. Insert "CTRL BD FFC" into I/F BD and paste it on Main SHD 		

6		<ol style="list-style-type: none"> 1. Follow the order to assemble Rear Cover with Middle Frame 		
7		<ol style="list-style-type: none"> 1. Lock 4 RC screws 	<p>Screw-driver</p> <p>(Torsion of RC screw: 8~10Kg)</p>	
8		<p>Assemble stand with monitor head:</p> <ol style="list-style-type: none"> 1. Align and place the stand riser on the stand base. 2. Open the screw handle at the bottom of the stand base and turn it clockwise to secure the stand assembly. 3. Close the screw handle. 4. Insert the tabs on the stand riser into the slots on the display back cover and lower the stand assembly to snap it into place 		