

Dell Pro 14

PC14255

Owner's Manual

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Views of Dell Pro 14 PC14255

Right



Figure 1. Right View

1. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers. It provides data transfer speeds up to 5 Gbps.

2. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers.

Supports data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: If your computer is turned off or in a hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

NOTE: Certain USB devices may not charge when the computer is turned off or in a sleep state. In such cases, turn on the computer to charge the device.

3. RJ45 ethernet port (1 Gbps)

Connect an RJ45 ethernet cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps (maximum 1 Gbps).

4. Ethernet status LED

Indicates the connectivity status and network activity.

5. Security-cable slot

Attach a security cable to prevent unauthorized movement of your computer.

Left



Figure 2. Left view

1. Power-adaptor port

Connect a power adapter to provide power to your computer.

2. Battery-status light

Indicates the battery-charge status.

Solid white—Battery is charging.

Solid amber—Battery charge is low.

Off—Battery is fully charged.

3. HDMI 2.1 Transition-minimized differential signaling (TMDS) port

Connect to a TV, external display, or another HDMI-in enabled device. Supports video and audio output.

4. USB 40 Gbps port with Power Delivery and DisplayPort

Connect devices, such as external storage devices and printers. Supports USB and DisplayPort which enables you to connect to an external display using a display adapter. Supports data transfer rates of up to 40 Gbps.

- For computers shipped with AMD Ryzen AI 300 Series processors: Supports DisplayPort 2.1
- For computers shipped with AMD Ryzen 200 Series processors: Supports DisplayPort 1.4a

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: A 40 Gbps-certified cable is required to achieve the maximum performance of 40 Gbps.

NOTE: The USB port is backward compatible with USB 3.2, USB 2.0.

5. Global headset port

Connect headphones or a headset (headphone and microphone combo).

Top



Figure 3. Top view

1. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into a sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button steadily to log in.

NOTE: The power-status light on the power button is available only on computers without the fingerprint reader. Computers that are shipped with the fingerprint reader that is integrated on the power button will not have the power-status light on the power button.

NOTE: You can customize the power-button behavior in Windows.

2. Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two fingers tap to right-click.

Front

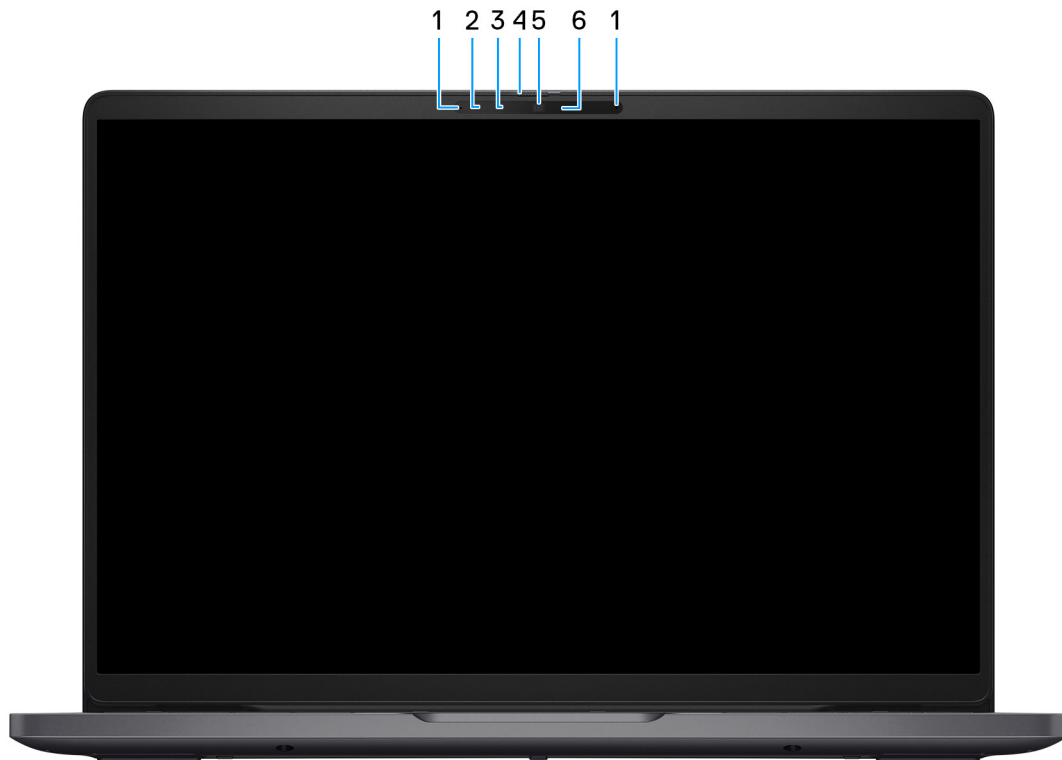


Figure 4. Front view

1. Microphones (2)

Provides digital sound input for audio recording and voice calls.

2. Infrared camera (optional)

Enhances security when paired with Windows Hello face authentication.

3. Infrared emitter (optional)

Emits infrared light, which enables the infrared camera to sense and track motion.

4. Privacy shutter

Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

5. Camera

Enables you to video chat, capture photos, and record videos.

6. Camera-status light

Turns on when the camera is in use.

Bottom

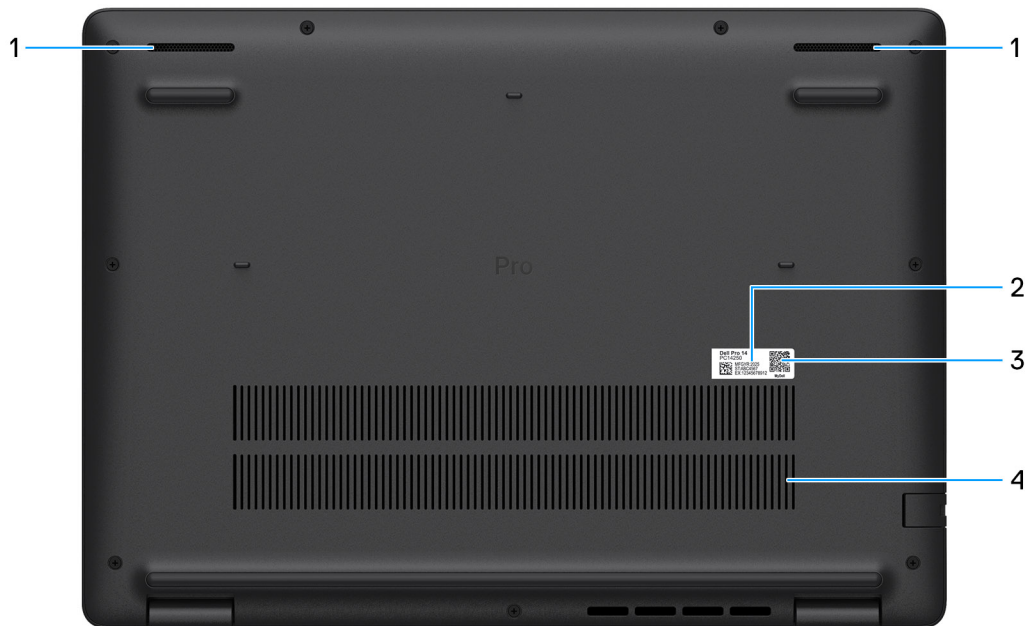


Figure 5. Bottom view

1. Speakers

Provide audio output.

2. Service Tag/Express Service Code label

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information. The Express Service Code is a numeric version of the Service Tag.

3. MyDell QR code

MyDell is your hub for content that is personalized to your Dell Pro 14 PC14255, including videos, articles, manuals, and easy access to support.

4. Air vents

Air vents provide ventilation for your computer. Clogged air vents can cause overheating and can affect the performance of your computer and potentially cause hardware issues. Keep the air vents clear of obstructions and clean them regularly to prevent the build-up of dust and dirt. For more information about cleaning air vents, search for articles in the Knowledge Base Resource at [Dell Support Site](#).

Locate the Service Tag or Express Service Code label of your computer

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information. The Express Service Code is a numeric version of the Service Tag.

For more information about how to find the Service Tag of your computer, search in the Knowledge Base Resource at the [Dell Support Site](#).



Figure 6. Service Tag/Express Service Code location

Battery-charge status light

The following table lists the battery-charge and status light behavior of your Dell Pro 14 PC14255.

Table 1. Battery charge and status light behavior

Power source	LED behavior	System power state	Battery charge level
AC adapter	Off	S0 or S5	Fully charged
AC adapter	Solid white	S0 or S5	< Fully charged
Battery	Off	S0 or S5	11-100%
Battery	Solid amber (590+/-3 nm)	S0 or S5	< 10%

- S0 (ON): The computer is turned on.
- S4 (Hibernate): The computer consumes the least power in the Hibernated state than in the ON or OFF state. The computer is almost in the OFF state. The context data is written to a storage device, allowing you to resume from where you left when the computer is turned on.
- S5 (OFF): The computer is in a shutdown state.

Table 2. Ethernet (RJ45) status LED

LED Behavior	Connection status
Solid Amber	The RJ45 cable is connected properly from the router or switch to the computer. The connection is active.

Table 2. Ethernet (RJ45) status LED (continued)

LED Behavior	Connection status
Blinking Amber	Data transfer is in progress.

Set up your Dell Pro 14 PC14255

About this task

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

Steps

1. Connect the power adapter and press the power button.



Figure 7. Connect the power adapter and press the power button.

NOTE: The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. Finish the operating system setup.

For Windows:

Follow the on-screen instructions to complete the setup. When setting up, it is recommended that you:

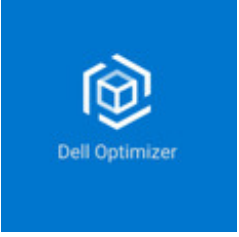
- Connect to a network for Windows updates.

NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the Internet, sign in with or create a Microsoft account.

3. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 3. Locate Dell apps

Resources	Description
	Dell Optimizer is an application designed to enhance computer performance and productivity by optimizing settings for power, battery, display, collaboration touchpad, and presence detection. It also provides access to applications purchased with your new computer. For more information, see Dell Optimizer User's Guide at Dell Support Site.
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.
	SupportAssist SupportAssist keeps your computer running at its best by optimizing settings, detecting issue, and removing viruses. It also notifies when updates are available for your computer. SupportAssist proactively checks the health of your computer hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running the Windows operating system. For more information, see Support Assist documentation at Dell Support Site.  NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Specifications of Dell Pro 14 PC14255

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro 14 PC14255.

Table 4. Dimensions and weight

Description	Values
Height:	
Front height	18.89 mm (0.74 in.)
Rear height	20.37 mm (0.80 in.)
Width	313.70 mm (12.35 in.)
Depth	225.30 mm (8.87 in.)
Weight  NOTE: The weight of your computer depends on the configuration that you ordered.	Minimum - 1.36 kg (2.99 lb)

Processor

The following table lists the details of the processors that are supported in your Dell Pro 14 PC14255.

Table 5. Processor (For computers shipped with AMD Ryzen AI 300 series)

Description	Option one	Option two	Option three
Processor type	AMD Ryzen AI 5 PRO 340	AMD Ryzen AI 7 350	AMD Ryzen AI 7 PRO 350
Configurable Thermal Design Power (cTDP)	15 W–54 W	15 W–54 W	15 W–54 W
Thermal Mode/Thermal Design Power (TDP)			
Optimized	15 W	15 W	15 W
Performance	18 W	18 W	18 W
Processor core count	6	8	8
Processor thread count	12	16	16
Processor speed	Up to 4.8 GHz	Up to 5.0 GHz	Up to 5.0 GHz
Processor cache L2	6 MB	8 MB	8 MB
Processor cache L3	16 MB	16 MB	16 MB
Integrated graphics	AMD Radeon 840M Graphics	AMD Radeon 860M Graphics	AMD Radeon 860M Graphics
Neural Processing Units (NPU) Performance	Up to 50 TOPS	Up to 50 TOPS	Up to 50 TOPS

Table 6. Processor (For computers shipped with AMD Ryzen 200 series)

Description		Option one	Option two	Option three	Option four	Option five	Option six
Processor type		AMD Ryzen 3 210	AMD Ryzen 3 PRO 210	AMD Ryzen 5 220	AMD Ryzen 5 PRO 215	AMD Ryzen 5 PRO 220	AMD Ryzen 5 PRO 230
Configurable Thermal Design Power (cTDP)		15 W–30 W	15 W–30 W	15 W–30 W	15 W–30 W	15 W–30 W	15 W–30 W
Thermal Mode/Thermal Design Power (TDP)							
	Optimized	15 W	15 W	15 W	15 W	15 W	15 W
	Performance	18 W	18 W	18 W	18 W	18 W	18 W
Processor core count		4	4	6	6	6	6
Processor thread count		8	8	12	12	12	12
Processor speed		Up to 4.7 GHz	Up to 4.7 GHz	Up to 4.9 GHz	Up to 4.7 GHz	Up to 4.9 GHz	Up to 4.9 GHz
Processor cache L2		4 MB	4 MB	6 MB	6 MB	6 MB	6 MB
Processor cache L3		8 MB	8 MB	16 MB	16 MB	16 MB	16 MB
Integrated graphics		AMD Radeon 740M Graphics	AMD Radeon 740M Graphics	AMD Radeon 740M Graphics	AMD Radeon 740M Graphics	AMD Radeon 740M Graphics	AMD Radeon 760M Graphics
Neural Processing Units (NPU) Performance		Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Up to 16 TOPS

Chipset

The following table lists the details of the chipset that is supported by your Dell Pro 14 PC14255.

Table 7. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	• AMD Ryzen AI 7 PRO 350 • AMD Ryzen AI 7 350 • AMD Ryzen AI 5 PRO 340 • AMD Ryzen 5 PRO 230 • AMD Ryzen 5 PRO 220 • AMD Ryzen 5 PRO 215 • AMD Ryzen 5 220 • AMD Ryzen 3 PRO 210 • AMD Ryzen 3 210
DRAM bus width	64-bit
Flash EPROM	64 MB
PCIe bus	Up to Gen4

Operating system

Your Dell Pro 14 PC14255 supports the following operating systems:

For computers shipped with AMD Ryzen AI 300 Series processors:

- Windows 11 Home
- Windows 11 Professional

For computers shipped with AMD Ryzen 200 Series processors:

- Windows 11 Home
- Windows 11 Professional
- Windows 10 Home
- Windows 10 Professional

 **NOTE:** If you downgrade your computer from Windows 11 to Windows 10 22H2, Dell Technologies support will follow the Microsoft Windows 10 End of Support plan.

Memory

The following table lists the memory specifications that are supported by your Dell Pro 14 PC14255.

Table 8. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR5
Memory speed	5600 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, 32 GB
Memory configurations supported	• 8 GB: 1 x 8 GB, DDR5, 5600 MT/s, single-channel • 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, dual-channel • 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, single-channel • 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, single-channel • 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, dual-channel • 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, dual-channel

External ports and slots

The following table lists the external ports and slots on your Dell Pro 14 PC14255.

Table 9. External ports and slots

Description	Values
Network port	One RJ45 ethernet port (1 Gbps)
USB ports	• One USB 3.2 Gen 1 (5 Gbps) port • One USB 3.2 Gen 1 (5 Gbps) port with PowerShare • Two USB (40 Gbps) port with Power Delivery and DisplayPort ◦ For computers shipped with AMD Ryzen AI 300 Series processors: Supports DisplayPort 2.1 ◦ For computers shipped with AMD Ryzen 200 Series processors: Supports DisplayPort 1.4a

Table 9. External ports and slots (continued)

Description	Values
	 NOTE: You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at Dell Support Site .
Audio port	One global headset port
Video port(s)	One HDMI 2.1 Transition-minimized differential signaling (TMDS) port
Media-card reader	Not applicable
Power-adaptor port	One 4.5 mm x 2.9 mm DC-in
Security-cable slot	One security-cable slot (wedge-shaped)

Internal slots

The following table lists the internal slots of your Dell Pro 14 PC14255.

Table 10. Internal slots

Description	Values
M.2	- One M.2 2230 slot for solid state drive - One M.2 2230 slot for WLAN card, Wi-Fi/Bluetooth  NOTE: To learn more about the features of different types of M.2 cards, search Dell Support Site .

Ethernet

The following table lists the wired ethernet Local Area Network (LAN) specifications of your Dell Pro 14 PC14255.

Table 11. Ethernet specifications

Description	Values
Model	Integrated Realtek RTL8111H-CG
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Dell Pro 14 PC14255.

Table 12. Wireless module specifications

Description	Values
Model number	MediaTek MT7922
Transfer rate	2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz

Table 12. Wireless module specifications (continued)

Description	Values
Wireless standards	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card  NOTE: The functionality of the Bluetooth wireless card may vary based on the operating system.	Bluetooth 5.3

Audio

The following table lists the audio specifications of your Dell Pro 14 PC14255.

Table 13. Audio specifications

Description		Values
Audio controller		Realtek ALC3204
Stereo conversion		Supported
Internal audio interface		High definition audio
External audio interface		One global headset (headphone and microphone combo) port
Number of speakers		Two
Internal-speaker amplifier		Supported (audio codec integrated)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average	2 W x 2 = 4 W
	Peak	2.5 W x 2 = 5 W
Microphone		Dual-array microphone

Storage

This section lists the storage options on your Dell Pro 14 PC14255.

Your Dell Pro 14 PC14255 supports one of the following storage configurations:

- One M.2 2230 solid state drive

Table 14. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid state drive, TLC	PCIe Gen4 NVMe, up to 64 Gbps	256 GB/512 GB
M.2 2230 solid state drive, QLC	PCIe Gen4 NVMe, up to 64 Gbps	512 GB/1 TB/2 TB

Keyboard

The following table lists the keyboard specifications of your Dell Pro 14 PC14255.

Table 15. Keyboard specifications

Description	Values
Keyboard type	- Backlit keyboard with Copilot key and fingerprint reader - Backlit keyboard with Copilot key - Non-backlit keyboard with Copilot key and fingerprint reader - Non-backlit keyboard with Copilot key
Keyboard layout	QWERTY
Number of keys	- Arabic, Chinese (Traditional), English International, English US, Hebrew, Ukrainian: 79 keys - Belgian, Bulgarian, Czech and Slovakian (MUI), English UK, French (European), French (European), German, Hungarian, Greek, Hebrew, Italian, Nordic (MUI), Portuguese Iberian, Portuguese Brazil, Russian, Spanish (Castillian), Spanish (Latin America), Swiss European (MUI), Turkish: 80 keys - Japanese: 83 keys
Key pitch	Horizontal= 19.05 mm Vertical= 18.05 mm
Keyboard shortcuts	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. - To type the alternate character, press Shift and the desired key. - To perform secondary functions, press Fn and the desired key. NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in the BIOS Setup program. NOTE: If Copilot in Windows is not available on your computer, pressing the Copilot key launches Windows search. For more information about Copilot in Windows, see the Knowledge Base Resource at the Dell Support site.

Keyboard shortcuts of Dell Pro 14 PC14255

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol that is shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol that is shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multimedia control, as indicated by the icon on the key. Press the function key to enable the task represented by the icon. For example, pressing F1 mutes the audio (see the table below).

However, if the function keys F1-F12 are needed for specific software applications, multimedia functionality can be disabled by pressing **Fn + Esc**. Later, multimedia control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

 **NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in the BIOS setup program.

Table 16. Function key primary behavior

Function key	Primary behavior
F1	Mute or unmute audio
F2	Decrease volume
F3	Increase volume
F4	Microphone Mute
F5	Keyboard Illumination/Backlight
F6	Decrease screen brightness
F7	Increase screen brightness
F8	Switch to external display
F10	Print screen
F11	Home
F12	End

The **Fn** key is also used with selected keys on the keyboard to invoke secondary functions.

Table 17. Secondary behavior

Function key	Secondary behavior
Fn + F1	Operating system and application-specific F1 behavior
Fn + F2	Operating system and application-specific F2 behavior
Fn + F3	Operating system and application-specific F3 behavior
Fn + F4	Operating system and application-specific F4 behavior
Fn + F5	Operating system and application-specific F5 behavior
Fn + F6	Operating system and application-specific F6 behavior
Fn + F7	Operating system and application-specific F6 behavior
Fn + F8	Operating system and application-specific F8 behavior
Fn + F9	Operating system and application-specific F9 behavior
Fn + F10	Operating system and application-specific F10 behavior
Fn + F11	Operating system and application-specific F11 behavior
Fn + F12	Operating system and application-specific F12 behavior
Fn + Ctrl	Open the application menu
Fn + Esc	Toggle between multimedia and function key behavior
Fn + PgUp	Scroll up the document or page
Fn + PgDn	Scroll down the document or page
Fn + Home	Move to the beginning of the document
Fn + End	Move to the end of the document
Copilot	Launch Copilot in Windows

Table 17. Secondary behavior (continued)

Function key	Secondary behavior
	NOTE: If Copilot in Windows is not available on your computer, the Copilot key launches Recall. If both Recall and Copilot in Windows are not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows and Recall, search in the Knowledge Base Resource at the Dell Support Site.

Camera

The following table lists the camera specifications of your Dell Pro 14 PC14255.

Table 18. Camera specifications

Description		Values
Number of cameras		Two NOTE: The second camera is optional and may not be included in all configurations.
Camera type		• HD RGB • FHD RGB • FHD RGB + IR
Camera location		Front camera
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	• 0.92 megapixels (HD) • 2.07 megapixels (FHD)
	Video	• 1280 x 720 (HD) at 30 fps • 1920 x 1080 (FHD) at 30 fps
Infrared camera resolution:		
	Video	640 x 360 at 15 fps
Diagonal viewing angle:		
	Camera	• 75.0 degrees (HD) • 80.2 degrees (FHD)
	Infrared camera	86.6 degrees

Touchpad

The following table lists the touchpad specifications of your Dell Pro 14 PC14255.

Table 19. Touchpad specifications

Description		Values
Touchpad resolution:		>300 DPI
Touchpad dimensions:		
	Horizontal	115.00 mm (4.52 in.)
	Vertical	67.00 mm (2.63 in.)
Touchpad gestures		For more information about the touchpad gestures available on Windows, search Microsoft Support Site .

Power adapter

The following table lists the power adapter specifications of your Dell Pro 14 PC14255.

Table 20. Power-adapter specifications

Description		Option one	Option two	Option three
Type		65W AC adapter, 4.5 mm barrel, E4	65W AC adapter, USB Type-C, PECOS	60W AC adapter, USB Type-C, 2-pin (Japan)
Connector dimensions:				
	External diameter	4.5 mm	Not applicable	Not applicable
	Internal diameter	2.9 mm	Not applicable	Not applicable
Power-adapter dimensions:				
	Height	29.5 mm	28 mm	22 mm
	Width	46 mm	51 mm	55 mm
	Depth	108 mm	112 mm	66 mm
Input voltage		100 VAC - 240 VAC	100 VAC - 240 VAC	100 VAC - 240 VAC
Input frequency		50 Hz - 60 Hz	50 Hz - 60 Hz	50 Hz - 60 Hz
Input current (maximum)		1.7 A	1.7 A	1.7 A
Output current (continuous)		3.34 A	20 V/3.25 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous)	20 V/3 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous)
Rated output voltage		19.5 VDC	20 VDC 15 VDC 9 VDC 5 VDC	20 VDC 15 VDC 9 VDC 5 VDC
Temperature range:				

Table 20. Power-adapter specifications (continued)

Description		Option one	Option two	Option three
	Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.				

Power adapter requirements (for computers that are shipped with a 3-cell, 45 Wh battery)

 **NOTE:** If you did not purchase the Dell-branded power adapter that is recommended for your computer, ensure that the power adapter you use meets the following requirements.

The following table lists the power adapter requirements for your Dell Pro 14 PC14255.

Table 21. Power adapter requirements

Description	Value
Power that is required from a power adapter to achieve optimal performance.	65 W
Power that charges the computer at a slower speed.  NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 60 W
Minimum power that is required from a power adapter to operate the computer and charge the battery.  NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	45 W
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	ExpressCharge 1.0 and ExpressCharge Boost supported  NOTE: Ensure that the computer with a 45 Wh battery is connected to a 65 W power adapter for this feature to be supported.  NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen. Select Power > Battery Configuration > ExpressCharge , then press Enter .

Power adapter requirements (for computers that are shipped with a 3-cell, 55 Wh battery)

 **NOTE:** If you did not purchase the Dell-branded power adapter that is recommended for your computer, ensure that the power adapter you use meets the following requirements.

The following table lists the power adapter requirements for your Dell Pro 14 PC14255.

Table 22. Power adapter requirements

Description	Value
Power that is required from a power adapter to achieve optimal performance.	65 W
Power that charges the computer at a slower speed. i NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 60 W
Minimum power that is required from a power adapter to operate the computer and charge the battery. i NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	45 W
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	ExpressCharge 1.0 supported and ExpressCharge Boost capable i NOTE: For ExpressCharge Boost mode, ensure that the computer with a 55 Wh battery is connected to a 90 W power adapter for this feature to be supported. i NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen. Select Power > Battery Configuration > ExpressCharge , then press Enter .

Battery

The following table lists the battery specifications of your Dell Pro 14 PC14255.

Table 23. Battery specifications

Description	Option one	Option two	Option three	Option four
Battery type	3-cell, 45 Wh, ExpressCharge 1.0, ExpressCharge Boost	3-cell, 45 Wh, ExpressCharge 1.0, ExpressCharge Boost, Long Life Cycle	3-cell, 55 Wh, ExpressCharge 1.0, ExpressCharge Boost Capable	3-cell, 55 Wh, ExpressCharge 1.0, ExpressCharge Boost Capable, Long Life Cycle
Battery voltage	11.25 VDC	11.25 VDC	11.70 VDC	11.70 VDC
Battery weight (maximum)	0.20 kg (0.44 lb)	0.20 kg (0.44 lb)	0.21 kg (0.48 lb)	0.21 kg (0.48 lb)
Battery dimensions:				
	Height	6.30 mm (0.25 in.)	6.30 mm (0.25 in.)	6.30 mm (0.25 in.)
	Width	255.05 mm (10.04 in.)	255.05 mm (10.04 in.)	255.05 mm (10.04 in.)
	Depth	73.00 mm (2.87 in.)	73.00 mm (2.87 in.)	73.00 mm (2.87 in.)
Temperature range:				
	Operating	Charge: 0°C to 45°C (32°F to 113°F)	- Charge: 0°C to 45°C (32°F to 113°F) - Discharge: 0°C to 70°C (32°F to 158°F)	Charge: 0°C to 45°C (32°F to 113°F)

Table 23. Battery specifications (continued)

Description		Option one	Option two	Option three	Option four
		Discharge: 0°C to 70°C (32°F to 158°F)		Discharge: 0°C to 70°C (32°F to 158°F)	Discharge: 0°C to 70°C (32°F to 158°F)
	Storage	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Battery operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate) i NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on dell support .		0°C to 15°C—4 hours (when the computer is off) 16°C to 45°C—2 hours (when the computer is off) 46°C to 50°C—3 hours (when the computer is off)	0°C to 15°C—4 hours (when the computer is off) 16°C to 45°C—2 hours (when the computer is off) 46°C to 50°C—3 hours (when the computer is off)	0°C to 15°C—4 hours (when the computer is off) 16°C to 45°C—2 hours (when the computer is off) 46°C to 50°C—3 hours (when the computer is off)	0°C to 15°C—4 hours (when the computer is off) 16°C to 45°C—2 hours (when the computer is off) 46°C to 50°C—3 hours (when the computer is off)
Coin-cell battery		Not supported	Not supported	Not supported	Not supported
⚠ CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components. ⚠ CAUTION: Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.					

Power requirements (for computers that are shipped with a 3-cell, 45 Wh battery)

i **NOTE:** The information in this section is applicable to the European Union (EU) countries.

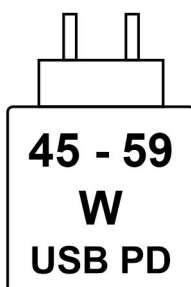


Figure 8. Pictogram for power charging requirements

The power that is delivered by the charger must be between a minimum of 45 Watts that is required by the radio equipment, and a maximum of 59 Watts in order to achieve the maximum charging speed.

This computer supports USB Power Delivery (PD) fast charging.

Power requirements (for computers that are shipped with a 3-cell, 55 Wh battery)

NOTE: The information in this section is applicable to the European Union (EU) countries.

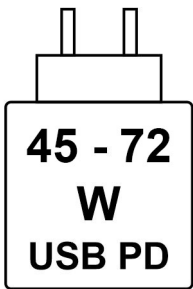


Figure 9. Pictogram for power charging requirements

The power that is delivered by the charger must be between a minimum of 45 Watts that is required by the radio equipment, and a maximum of 72 Watts in order to achieve the maximum charging speed.

This computer supports USB Power Delivery (PD) fast charging.

Display

The following table lists the display specifications of your Dell Pro 14 PC14255.

Table 24. Display specifications

Description		Option one	Option two	Option three
Display type		14-inch, Full High Definition Plus (FHD+)	14-inch, Full High Definition Plus (FHD+), Low Blue Light	14-inch, Full High Definition Plus (FHD+)
Touch options		Non-Touch	Non-Touch	Touch
Display-panel technology		In-Plane Switching (IPS)	In-Plane Switching (IPS)	In-Plane Switching (IPS)
Display-panel dimensions (active area):				
	Height	188.50 mm (7.42 in.)	188.50 mm (7.42 in.)	188.50 mm (7.42 in.)
	Width	301.59 mm (11.87 in.)	301.59 mm (11.87 in.)	301.59 mm (11.87 in.)
	Diagonal	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)
Display-panel native resolution		1920 x 1200	1920 x 1200	1920 x 1200
Luminance (typical)		300 nits	400 nits	300 nits
Megapixels		2.30	2.30	2.30
Color gamut		45% NTSC	100% sRGB	100% sRGB

Table 24. Display specifications (continued)

Description	Option one	Option two	Option three
Pixels Per Inch (PPI)	162	162	162
Contrast ratio (typical)	800:1	1000:1	800:1
Response time (maximum)	35 milliseconds	35 milliseconds	35 milliseconds
Refresh rate	60 Hz	60 Hz	30 Hz to 60 Hz
Horizontal view angle	+/- 80 degrees (minimum) +/- 85 degrees (typical)	+/- 80 degrees (minimum) +/- 85 degrees (typical)	+/- 80 degrees (minimum) +/- 85 degrees (typical)
Vertical view angle	+/- 80 degrees (minimum) +/- 85 degrees (typical)	+/- 80 degrees (minimum) +/- 85 degrees (typical)	+/- 80 degrees (minimum) +/- 85 degrees (typical)
Pixel pitch	0.1571 mm	0.1571 mm	0.1571 mm
Power consumption (maximum)	3.68 W	2.50 W	4.40 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell Pro 14 PC14255.

Table 25. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
Sensor pixel size	108 mm x 88 mm

Sensors

The following table lists the sensors of your Dell Pro 14 PC14255.

Table 26. Sensor

Sensor support
Hall Effect sensor

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Pro 14 PC14255.

Table 27. GPU—Integrated

Controller	Memory size	Processor
AMD Radeon 740M Graphics	Shared system memory	• AMD Ryzen 3 210 • AMD Ryzen 3 PRO 210 • AMD Ryzen 5 220 • AMD Ryzen 5 PRO 215 • AMD Ryzen 5 PRO 220
AMD Radeon 760M Graphics	Shared system memory	• AMD Ryzen 5 PRO 230
AMD Radeon 840M Graphics	Shared system memory	• AMD Ryzen AI 5 PRO 340
AMD Radeon 860M Graphics	Shared system memory	• AMD Ryzen AI 7 350 • AMD Ryzen AI 7 PRO 350

Multiple display support matrix

The following table lists the multiple display support matrix for your Dell Pro 14 PC14255.

Table 28. Multiple display support matrix

Graphics Card	Direct Graphics Controller Direct Output Mode	Supported external displays with computer internal display on	Supported external displays with computer internal display off
AMD Radeon 740M Graphics	Integrated	3	4
AMD Radeon 760M Graphics	Integrated	3	4
AMD Radeon 840M Graphics	Integrated	3	4
AMD Radeon 860M Graphics	Integrated	3	4

Hardware security

The following table lists the hardware security of your Dell Pro 14 PC14255.

Table 29. Hardware security

Hardware security
One wedge-shaped lock slot
Trusted Platform Module (TPM) 2.0 discrete
Mechanical camera privacy shutter
FIPS (Federal Information Processing Standards) 140-2 certification for Trusted Platform Module (TPM)
Trusted Computing Group (TCG) Certification for TPM
Chassis Intrusion Detection
BIOS - TPM clear and/or system boot lock after chassis intrusion detection

Operating and storage environment

This table lists the operating and storage specifications of your Dell Pro 14 PC14255.

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 30. Computer environment

Description	Operating	Storage
Temperature range	0°C to 40°C (32 °F to 104°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	90% (non-condensing)	95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	Not applicable
Shock (maximum)	140 G†	Not applicable
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10,000 ft)	-15.2 m to 10,668 m (-49.87 ft to 35,000 ft)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

* Measured using a random vibration spectrum that simulates the user environment.

† Measured using a 2 ms half-sine pulse.

Dell support policy

For information about Dell support policy, search [Dell Support Site](#).

Dell Optimizer

Dell Optimizer is an application that is designed to enhance computer performance and productivity by optimizing settings for power, battery, display, and presence detection. It also provides access to applications purchased with your new computer.

For more information, see *Dell Optimizer User's Guide* at [Dell Support Site](#).

Dell low blue light display

 **WARNING:** Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

The display on this computer is designed to minimize blue light and complies with TÜV Rheinland's requirement for low blue light displays.

Low blue light mode is enabled at the factory, so no further configuration is necessary.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 and 28 inches (50 cm and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Take an extended break for 20 minutes every two hours.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.

Working inside your computer

Safety instructions

Use the following safety guidelines to protect your computer from potential damage and to ensure your personal safety. Unless otherwise noted, each procedure in this document assumes that you have read the safety information that shipped with your computer.

-  **WARNING:** Before working inside your computer, read the safety information that is shipped with your computer. For more safety best practices, see [Dell Regulatory Compliance Home Page](#).
-  **WARNING:** Disconnect your computer from all power sources before opening the computer cover or panels. After you finish working inside the computer, replace all covers, panels, and screws before connecting your computer to an electrical outlet.
-  **WARNING:** For laptops, discharge the battery completely before removing it. Disconnect the AC power adapter from the computer and operate the computer solely on battery power—the battery is fully discharged when the computer no longer turns on when the power button is pressed.
-  **CAUTION:** To avoid damaging the computer, ensure that the work surface is flat, dry, and clean.
-  **CAUTION:** You should only perform troubleshooting and repairs as authorized or directed by the Dell technical support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty.
-  **CAUTION:** Before touching anything inside your computer, ground yourself by touching an unpainted metal surface, such as the metal at the back of the computer. While you work, periodically touch an unpainted metal surface to dissipate static electricity which could harm internal components.
-  **CAUTION:** To avoid damaging the components and cards, handle them by their edges, and avoid touching the pins and the contacts.
-  **CAUTION:** When you disconnect a cable, pull it by its connector or its pull tab, not the cable itself. Some cables have connectors with locking tabs or thumbscrews that you must disengage before disconnecting the cable. When disconnecting cables, keep them evenly aligned to avoid bending the connector pins. When connecting cables, ensure that the connector on the cable is correctly oriented and aligned with the port.
-  **CAUTION:** Press and eject any installed card from the media-card reader.

Before working inside your computer

About this task

 **NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

Steps

1. Save and close all open files and exit all open applications.
2. Shut down your computer. For Windows operating system, click **Start** >  **Power** > **Shut down**.
 **NOTE:** If you are using a different operating system, see the documentation of your operating system for instructions.
3. Turn off all the attached peripherals.
4. Disconnect your computer from the electrical outlet.

5. Disconnect all attached network devices and peripherals, such as keyboard, mouse, and monitor from your computer.
6. Remove any media card and optical drive from your computer, if applicable.
7. To clean the air vents, use a soft brush and move vertically.

 **NOTE:** Do not remove the base cover or use any blower to clean the vents.

8. Enter the Service Mode.

Service Mode

Service Mode is used to cut off power without disconnecting the battery cable from the system board before conducting repairs in the computer.

 **CAUTION:** If you are unable to turn on the computer to put it into Service Mode, disconnect the battery cable. To disconnect the battery cable, follow the steps in [Removing the battery](#).

 **NOTE:** Ensure that your computer is shut down and the power adapter is disconnected.

- a. Press and hold the B key and the power button for 3 seconds, or until the Dell logo appears on the screen.
- b. If the **Owner Tag** is set, it is displayed on the screen. Press any key to continue.

 **NOTE:** If the **Owner Tag** information is not already set, the computer automatically skips this step and proceeds to enter Service Mode.

- c. If the power adapter is still connected, a message appears on the screen prompting you to disconnect it. Disconnect the power adapter, then press any key to continue.
- d. When the **System Ready For Service** message appears on the screen, press any key to proceed. The computer emits three short beeps and shuts down immediately.
The computer shuts down and enters the Service Mode.

Safety precautions

This section details the primary steps to be followed before disassembling any device or component.

Observe the following safety precautions before any installation or break-fix procedures involving disassembly or reassembly:

- Turn off the computer and all attached peripherals.
- Disconnect the computer from AC power.
- Disconnect all network cables and peripherals from the computer.
- Use an ESD field service kit when working inside your computer to avoid electrostatic discharge (ESD) damage.
- Place the removed component on an anti-static mat after removing it from the computer.
- Press and hold the power button for 15 seconds to discharge the residual power in the system board.

Bonding

Bonding is a method for connecting two or more grounding conductors to the same electrical potential. This is done by using a field service electrostatic discharge (ESD) kit. When connecting a bonding wire, ensure that it is connected to bare metal and never to a painted or nonmetal surface. Ensure that the wrist strap is secure and in full contact with your skin. Remove all jewelry, watches, bracelets, or rings before grounding yourself and the equipment.

Electrostatic discharge—ESD protection

ESD is a major concern when you handle electronic components, especially sensitive components such as expansion cards, processors, memory modules, and system boards. A slight charge can damage circuits in ways that may not be obvious, such as intermittent problems or a shortened product life span. As the industry pushes for lower power requirements and increased density, ESD protection is an increasing concern.

Two recognized types of ESD damage are catastrophic and intermittent failures.

- **Catastrophic** – Catastrophic failures represent approximately 20 percent of ESD-related failures. The damage causes an immediate and complete loss of device functionality. An example of catastrophic failure is a memory module that has received a static shock and immediately generates a "No POST/No Video" symptom with a beep code that is emitted for missing or nonfunctional memory.

- **Intermittent** – Intermittent failures represent approximately 80 percent of ESD-related failures. The high rate of intermittent failures means that most of the time when damage occurs, it is not immediately recognizable. The memory module receives a static shock, but the tracing is merely weakened and does not immediately produce outward symptoms that are related to the damage. The weakened trace may take weeks or months to melt, and in the meantime may cause degradation of memory integrity, intermittent memory errors, and so on.

Intermittent failures that are also called latent or "walking wounded" are difficult to detect and troubleshoot.

Perform the following steps to prevent ESD damage:

- Use a wired ESD wrist strap that is properly grounded. Wireless anti-static straps do not provide adequate protection. Touching the chassis before handling parts does not ensure adequate ESD protection on parts with increased sensitivity to ESD damage.
- Handle all static-sensitive components in a static-safe area. If possible, use anti-static floor pads and workbench pads.
- When unpacking a static-sensitive component from its shipping carton, do not remove the component from the anti-static packing material until you are ready to install the component. Before unwrapping the anti-static packaging, use the anti-static wrist strap to discharge the static electricity from your body.

NOTE: You can protect against ESD and discharge static electricity from your body by touching a metal-grounded object before you interact with anything electronic, for example, an unpainted metal surface on your computer's I/O panel. When connecting a peripheral (including handheld digital assistants) to your computer, you should always ground both yourself and the peripheral before connecting it to the computer. In addition, as you work inside the computer, periodically touch a metal-grounded object to remove any static charge that your body may have accumulated.

For more information about the wrist strap and ESD wrist strap tester, see [Components of an ESD Field Service Kit](#).

- Before transporting a static-sensitive component, place it in an anti-static container or packaging.

ESD Field Service kit

The unmonitored field service kit is the most commonly used service kit. Each Field Service kit includes three main components: anti-static mat, wrist strap, and bonding wire.

CAUTION: It is critical to keep ESD-sensitive devices away from internal parts that are insulated and often highly charged, such as plastic heat sink casings.

Working environment

Before the ESD Field Service kit is deployed, conduct an evaluation of the site to ensure proper setup and readiness. For example, deploying the kit for a server environment is different than for a desktop or laptop environment. Servers are typically installed in a rack within a data center; desktops or laptops are typically placed on office desks or cubicles. Always look for a large open flat work area that is free of clutter and large enough to deploy the ESD kit with additional space to accommodate the type of computer that is being repaired. The workspace should also be free of insulators that can cause an ESD event. On the work area, insulators such as styrofoam and other plastics should always be moved at least 12 inches or 30 centimeters away from sensitive parts before physically handling any hardware components.

ESD packaging

All ESD-sensitive devices must be shipped and received in static-safe packaging. Metal, static-shielded bags are preferred. However, you should always return the damaged component using the same ESD bag and packaging that the new part arrived in. The ESD bag should be folded over and taped shut and all the same foam packing material should be used in the original box that the new part arrived in. ESD-sensitive devices should be removed from packaging only at an ESD-protected work surface, and parts should never be placed on top of the ESD bag because only the inside of the bag is shielded. Always place parts in your hand, on the anti-static mat, in the computer, or inside an ESD bag.

Components of an ESD Field Service kit

The components of an ESD Field Service kit are:

- **Anti-Static Mat** – The anti-static mat is dissipative and parts can be placed on it during service procedures. When using an anti-static mat, your wrist strap should be snug and the bonding wire should be connected to the anti-static mat and to any bare metal on the computer being worked on. Once deployed properly, service parts can be removed from the ESD bag and

placed directly on the anti-static mat. ESD-sensitive items are safe in your hand, on the anti-static mat, in the computer, or inside an ESD bag.

- **Wrist Strap and Bonding Wire** – If an anti-static mat is not being used, the wrist strap and bonding wire should be connected directly between your wrist and an exposed metal part of the hardware. If you are using an anti-static mat, connect the wrist strap and bonding wire to the anti-static mat to ensure protection for any hardware placed on the mat. The physical connection of the wrist strap and bonding wire between your skin, the anti-static mat, and the hardware is known as bonding. Use only Field Service kits with a wrist strap, anti-static mat, and bonding wire. Never use wireless wrist straps. Always be cautious that the internal wires of a wrist strap are prone to damage from normal wear and tear, and must be checked regularly with a wrist strap tester in order to avoid accidental ESD hardware damage. It is recommended to test the wrist strap and bonding wire at least once per week.
- **ESD Wrist Strap Tester** – The wires inside an ESD strap are prone to damage over time. When using an unmonitored ESD kit, it is recommended to test the wrist strap regularly—ideally before each service session, and at a minimum, once per week. The most reliable method for testing is with a wrist strap tester. To perform the test, connect the bonding wire of the wrist strap to the tester while wearing the strap. Press the test button to initiate the check. A green LED indicates a successful test, while a red LED and audible alarm signal a failure.

NOTE: It is recommended to always use the traditional wired ESD grounding wrist strap and protective anti-static mat when servicing Dell products. In addition, it is critical to keep sensitive parts separate from all insulator parts while servicing the computer.

Transporting sensitive components

When transporting ESD sensitive components such as replacement parts or parts to be returned to Dell, it is critical to place these parts in anti-static bags for safe transport.

After working inside your computer

About this task

CAUTION: Leaving stray or loose screws inside your computer may severely damage your computer.

Steps

1. Replace all screws and ensure that no stray screws remain inside your computer.
2. Connect any external devices, peripherals, or cables you removed before working on your computer.
3. Replace any media cards, disks, or any other parts that you removed before working on your computer.
4. Connect your computer to their electrical outlets.

NOTE: To exit service mode, ensure to connect the AC adapter to the power-adapter port on your computer.

5. Press the power button to turn on the computer.

BitLocker

When updating the BIOS on a computer with BitLocker enabled, consider the following precautions.

CAUTION: If BitLocker is not suspended before updating the BIOS, the BitLocker key will not be recognized the next time that you reboot the computer. You are prompted to enter the recovery key to progress, and the computer displays a prompt for the recovery key on each reboot. If the recovery key is not known, this can result in data loss or an operating system reinstall. For more information, see Knowledge Article: [updating the BIOS on Dell computers with BitLocker enabled](#).

The installation of the following components triggers BitLocker:

- Hard disk drive or solid state drive
- System board

Recommended tools

The procedures in this document may require the following tools:

- Phillips screwdriver #0
- Phillips screwdriver #1
- Flat-head slotted screwdriver (less than 4mm)
- Plastic scribe

Screw list

NOTE: When removing screws from a component, it is recommended to note the screw type and the quantity of screws, and then place them in a screw storage box. This is to ensure that the correct number of screws and correct screw type is restored when the component is replaced.

NOTE: Some computers have magnetic surfaces. Ensure that the screws are not left attached to such surfaces when replacing a component.

NOTE: Screw color may vary depending on the configuration ordered.

Table 31. Screw list

Component	Screw type	Quantity	Screw torque strength	Screw image
Base cover	M2.5x6 (Captive)	9	2.55 kgf-cm to 3.45 kgf-cm	
Battery	M2x3 (Captive)	4	1.36 Kgf-cm to 1.84 Kgf-cm	
	M2x4	1	1.98 Kgf-cm to 2.42 Kgf-cm	
Solid state drive	M2x3	1	1.36 Kgf-cm to 1.84 Kgf-cm	
Wireless card	M2x3	1	1.36 Kgf-cm to 1.84 Kgf-cm	
Fan	M2x3	2	1.36 Kgf-cm to 1.84 Kgf-cm	
Power-adaptor port	M2.5x5	2	2.55 kgf-cm to 3.45 kgf-cm	
Heat sink	M2x5.4 (Captive)	4	1.36 Kgf-cm to 1.84 Kgf-cm	
I/O board	M2.5x5	2	2.55 kgf-cm to 3.45 kgf-cm	

Table 31. Screw list (continued)

Component	Screw type	Quantity	Screw torque strength	Screw image
	M2x3	3	1.36 Kgf-cm to 1.84 Kgf-cm	
Power button/Power button with fingerprint reader (optional)	M2x2	2	1.36 Kgf-cm to 1.84 Kgf-cm	
System board	M2.5x5	2	2.55 kgf-cm to 3.45 kgf-cm	
	M2x3	3	1.36 Kgf-cm to 1.84 Kgf-cm	
	M2x5	2	1.36 Kgf-cm to 1.84 Kgf-cm	
USB Type-C module	M2x5	3	1.36 Kgf-cm to 1.84 Kgf-cm	
Keyboard	M2x2.2	22	1.36 Kgf-cm to 1.84 Kgf-cm	
Keyboard support plate	M2x2.2	2 8	1.36 Kgf-cm to 1.84 Kgf-cm	
Display assembly	M2.5x5	4	2.55 kgf-cm to 3.45 kgf-cm	
Display panel assembly	M2.5x2.5	4	2.55 kgf-cm to 3.45 kgf-cm	
	M2.5x3.5	4	2.55 kgf-cm to 3.45 kgf-cm	

Major components of Dell Pro 14 PC14255

The following image shows the major components of Dell Pro 14 PC14255.

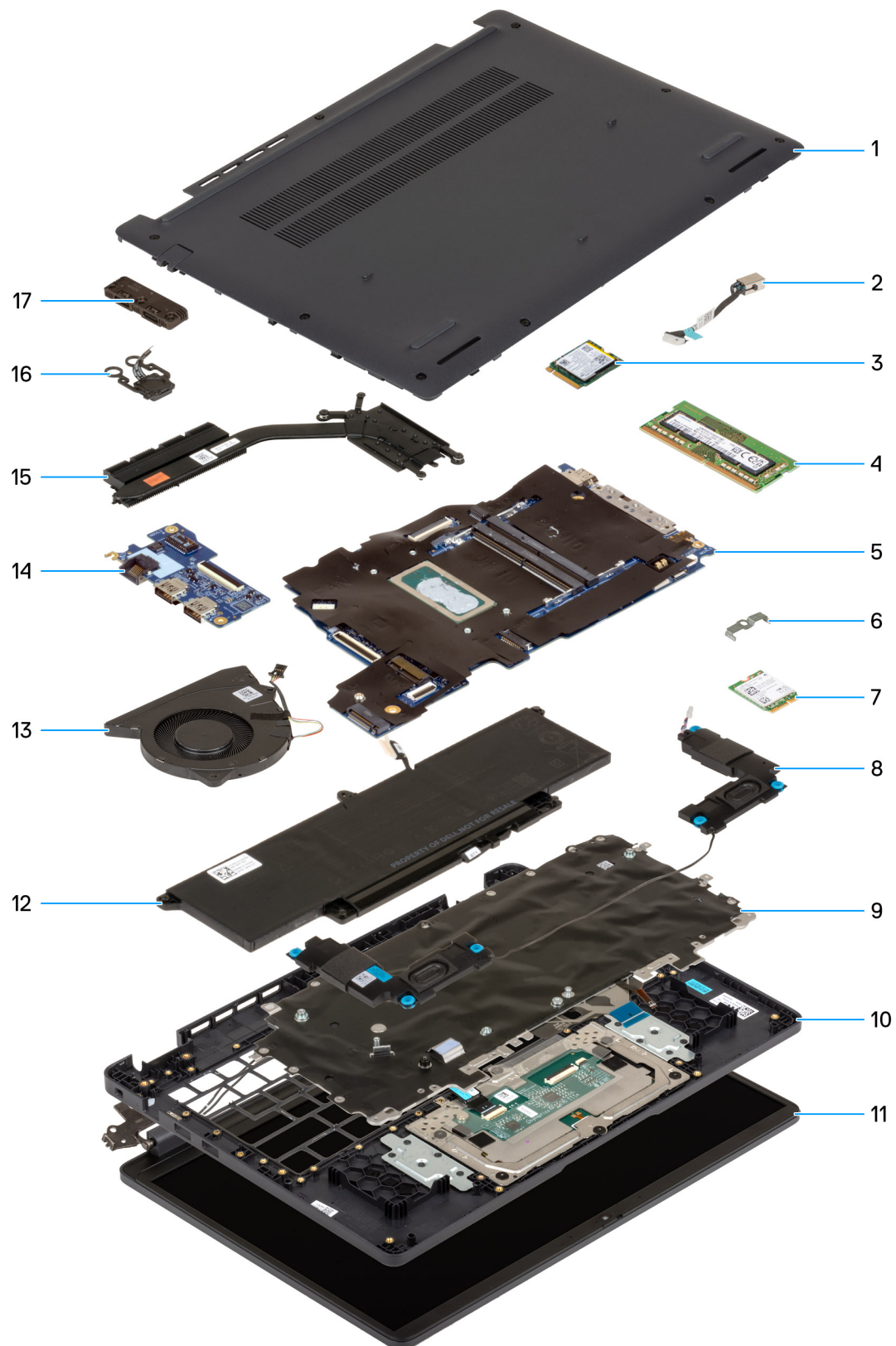


Figure 10. Major Components of your system/Exploded View

1. Base cover
2. Power-adapter port

3. Solid state drive
4. Memory module
5. System board
6. Wireless-card bracket
7. Wireless card
8. Speakers
9. Keyboard
10. Palmrest assembly
11. Display assembly
12. Battery
13. Fan
14. I/O board
15. Heat sink
16. Power button with fingerprint reader (optional)
17. USB Type-C module

 **NOTE:** Dell provides a list of components and their part numbers for the original computer configuration purchased. These parts are available according to warranty coverage purchased by the customer. Contact your Dell sales representative for purchase options.

Removing and installing Customer Replaceable Units (CRUs)

The replaceable components in this chapter are Customer Replaceable Units (CRUs).

 **CAUTION:** Customers can replace only the Customer Replaceable Units (CRUs) following the safety precautions and replacement procedures.

 **NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

Base cover

Removing the base cover

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).

About this task

The following images indicate the location of the base cover and provide a visual representation of the removal procedure.



9x
M2.5x6



Figure 11. Removing the base cover



Figure 12. Removing the base cover

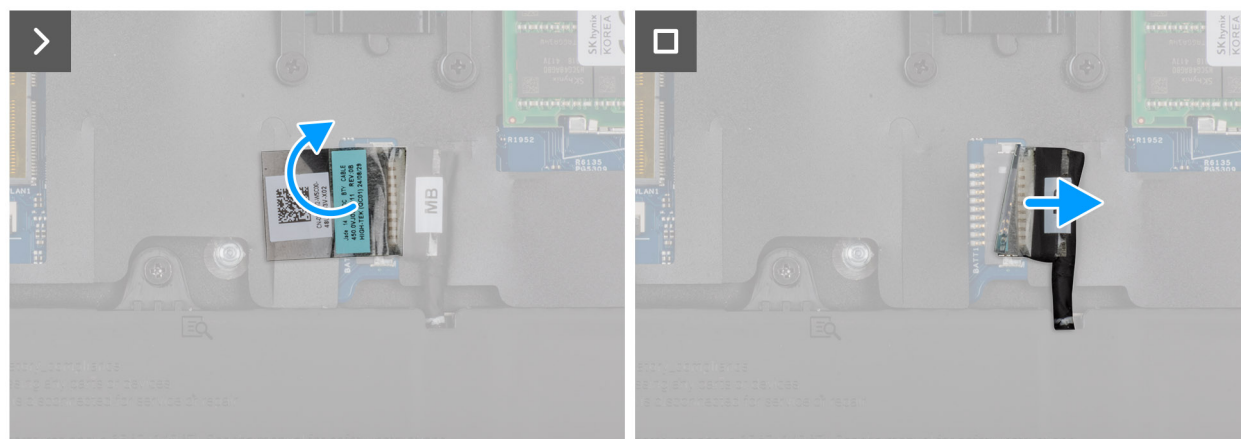


Figure 13. Disconnecting the battery cable

Steps

1. Loosen the nine captive screws (M2.5x6) that secure the base cover to the chassis.
2. Using a plastic scribe, pry open the base cover starting from the U-shaped indents at the bottom edge of the base cover near the hinges.
3. Pry open the top side of the base cover, then continue along the sides to fully detach the base cover.
4. Lift and remove the base cover from the chassis.
 - i NOTE:** Ensure that your computer is in Service Mode. If your computer is unable to enter Service Mode, disconnect the battery cable from the system board. To disconnect the battery cable, follow step 5 to step 7.
5. Peel the tape that secures the battery cable to the battery.
6. Disconnect the battery cable from the battery cable connector (BATT1) on the system board.

7. Press and hold the power button for five seconds to ground the computer and drain the flea power.

Installing the base cover

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the base cover and provide a visual representation of the installation procedure.

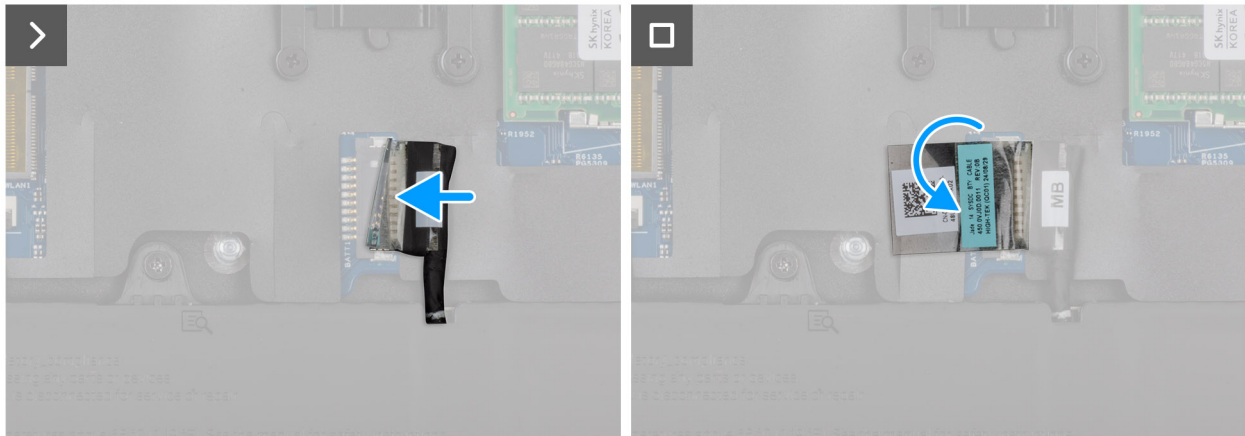


Figure 14. Connecting the battery cable



9x
M2.5x6

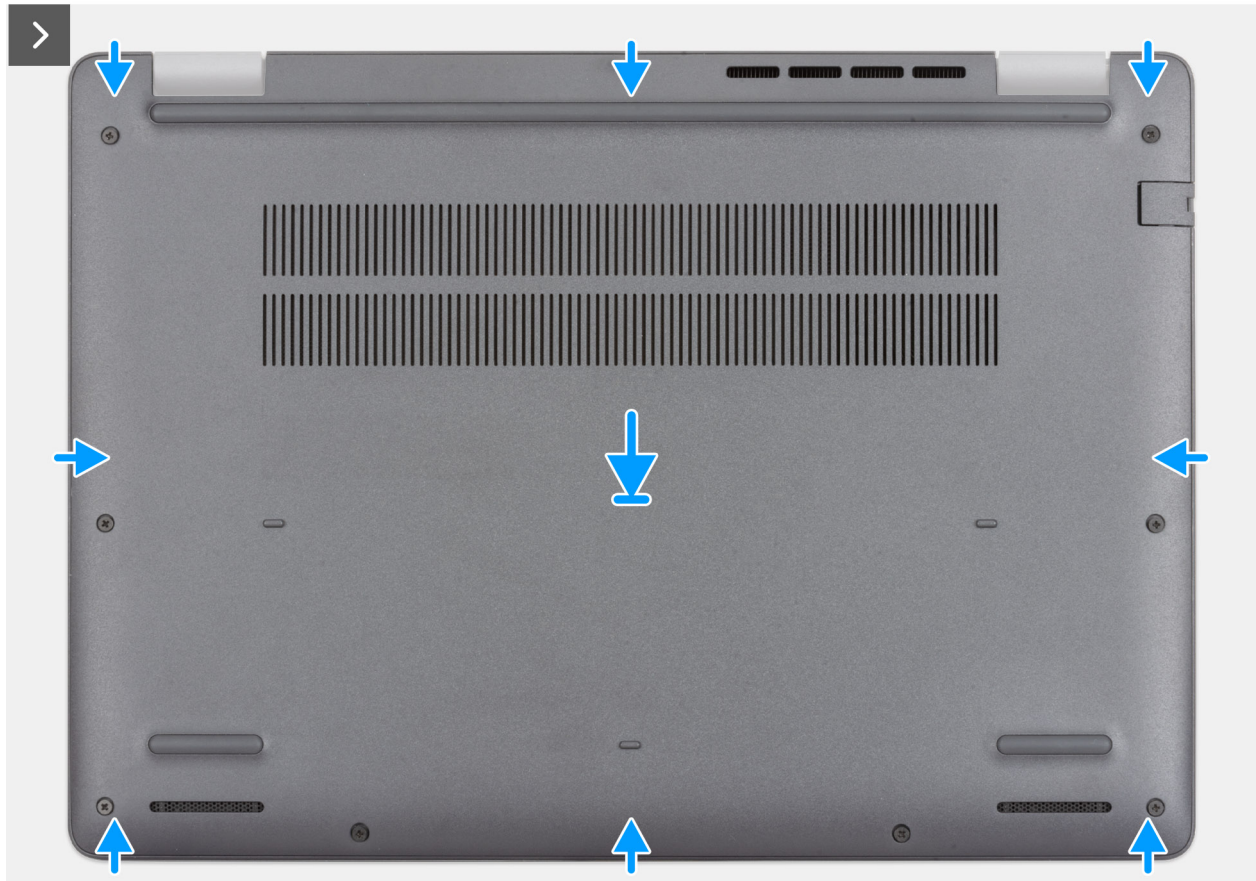


Figure 15. Installing the base cover



Figure 16. Installing the base cover

NOTE: If you have disconnected the battery cable, ensure to connect the battery cable. To connect the battery cable, follow step 1 in the procedure.

Steps

1. Connect the battery cable to the system board if the computer is not in service mode.
2. Align the screw holes on the base cover with the screw holes on the palm-rest assembly and snap the base cover into place.
3. Tighten the nine captive screws (M2.5x6) to secure the base cover to the chassis.

Next steps

1. Follow the procedure in [After working inside your computer](#).

Battery

Rechargeable Li-ion battery precautions

WARNING:

- Exercise caution when handling rechargeable Li-ion batteries.
- Discharge the battery completely before removing it. Disconnect the AC power adapter from the computer and operate the computer solely on battery power—the battery is fully discharged when the computer no longer turns on when the power button is pressed.
- Do not crush, drop, mutilate, or penetrate the battery with foreign objects.
- Do not expose the battery to high temperatures, or disassemble battery packs and cells.

- Do not apply pressure to the surface of the battery.
- Do not bend the battery.
- Do not use tools of any kind to pry on or against the battery.
- To prevent accidental puncture or damage to the battery and other components, ensure that no screws are lost or misplaced during the servicing of the computer.
- Always purchase genuine batteries from [Dell Site](#) or authorized Dell partners and resellers.
- Swollen batteries should not be used and should be replaced and disposed properly. For guidelines on how to handle and replace swollen rechargeable Li-ion batteries, see [Handling swollen rechargeable Li-ion batteries](#).

Removing the battery

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

 **CAUTION:** Removing the battery resets the BIOS setup settings to default. It is recommended that you note the BIOS setup settings before removing the battery.

The following image indicates the location of the battery and provides a visual representation of the removal procedure.

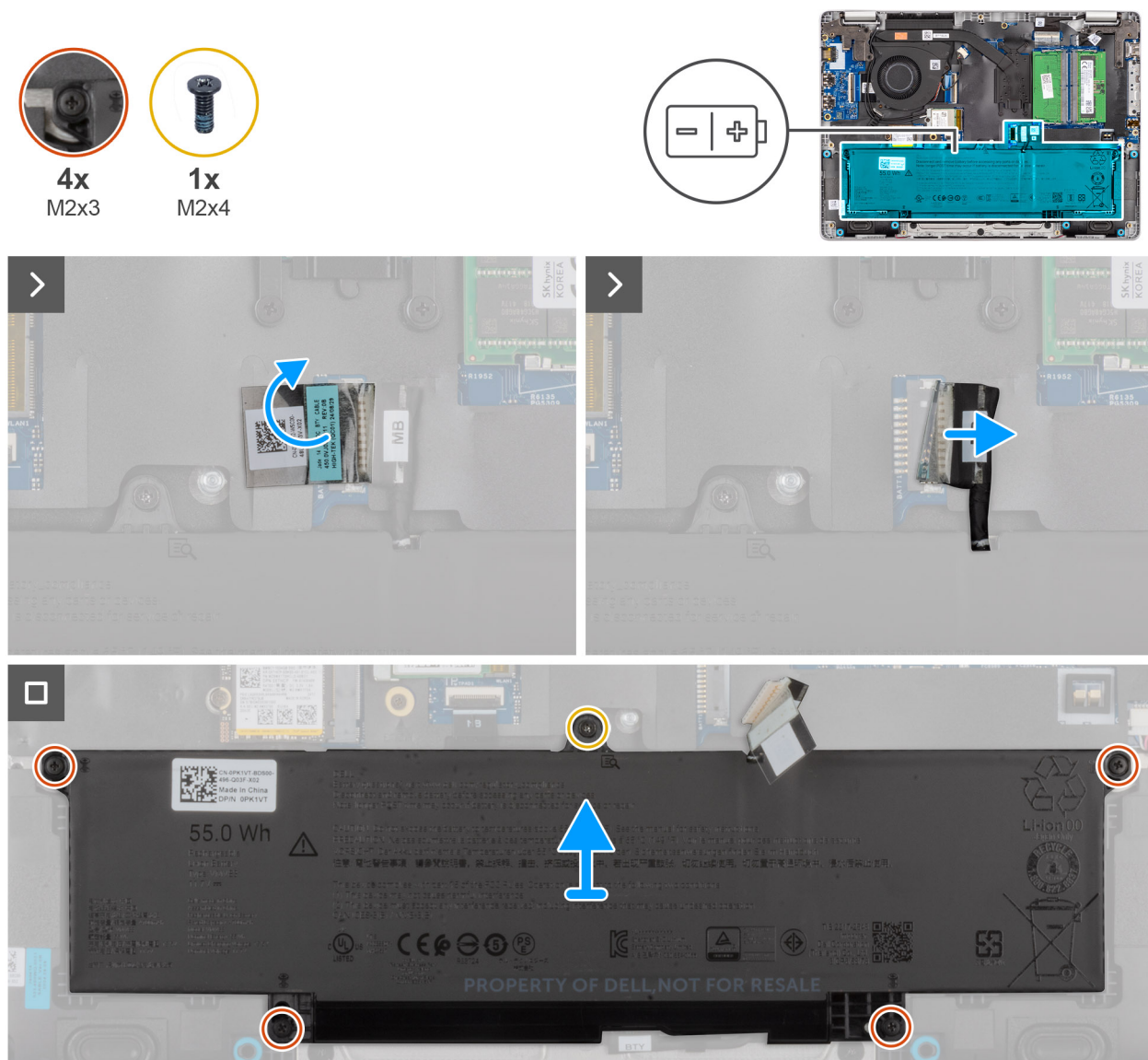


Figure 17. Removing the battery

Steps

1. Use the pull tab to disconnect the battery cable from the connector (BATT1) on the system board.
2. Remove the screw (M2x4) that secures the battery to the palm-rest assembly.
3. Loosen the four captive screws (M2x3) that secure the battery to the palm-rest assembly.
4. Lift the battery off the palm-rest assembly.
5. If you are replacing the battery, remove the battery cable to transfer it to the replacement battery. For more information, see [Removing the battery cable](#).

Installing the battery

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the battery and provides a visual representation of the installation procedure.

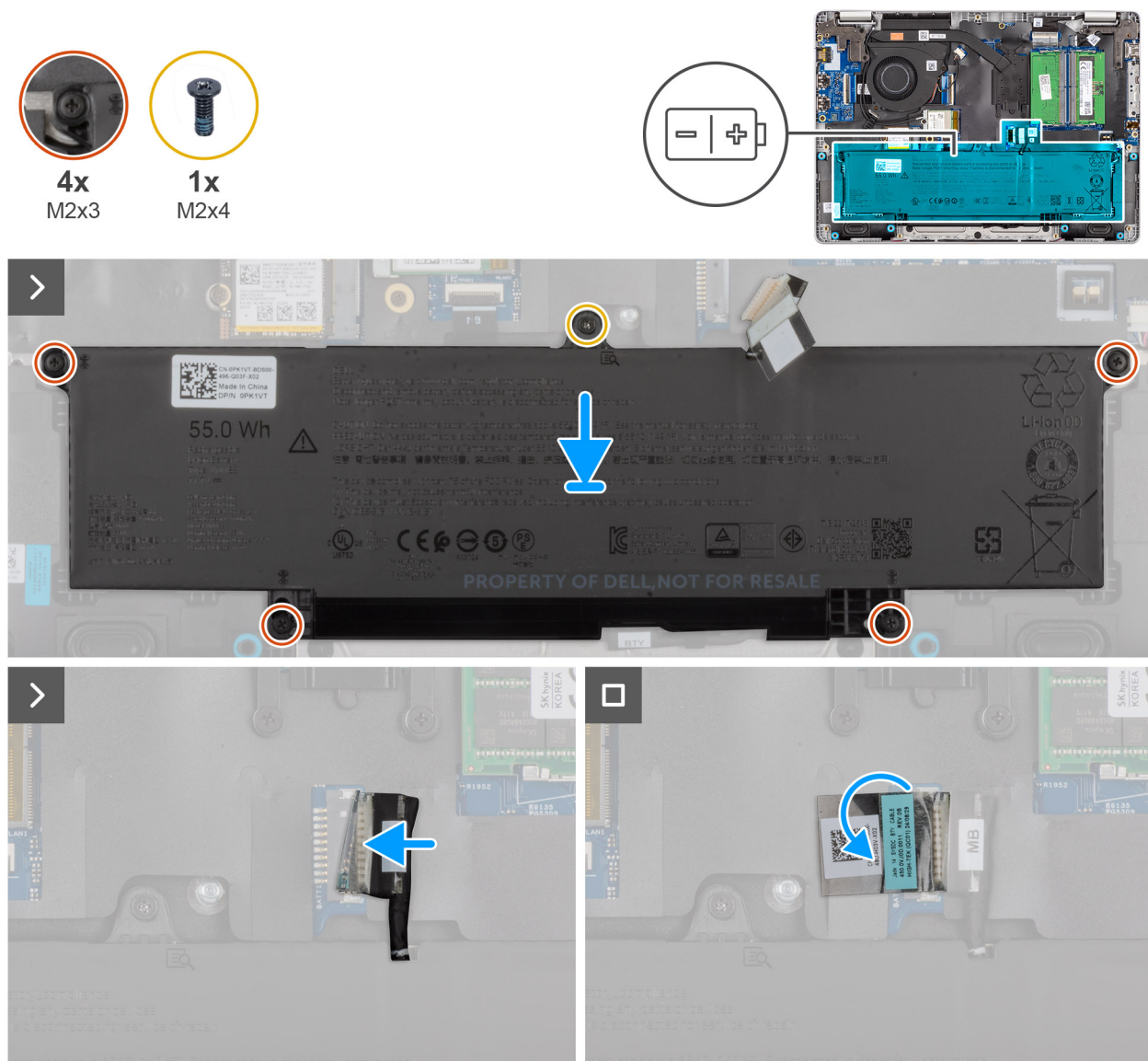


Figure 18. Installing the battery

Steps

1. If the battery cable was removed for replacing the battery, you must transfer the battery cable from the old battery to the replacement battery. For more information, see [Installing the battery cable](#).
2. Align the screw holes on the battery with the screw holes on the palm-rest assembly.
3. Tighten the four captive screws (M2x3) to secure the battery to the palm-rest assembly.
4. Replace the screw (M2x4) that secures the battery to the palm-rest assembly.
5. Connect the battery cable to the connector (BATT1) on the system board.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Battery cable

Removing the battery cable

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).

About this task

The following image indicates the location of the battery cable and provides a visual representation of the removal procedure.

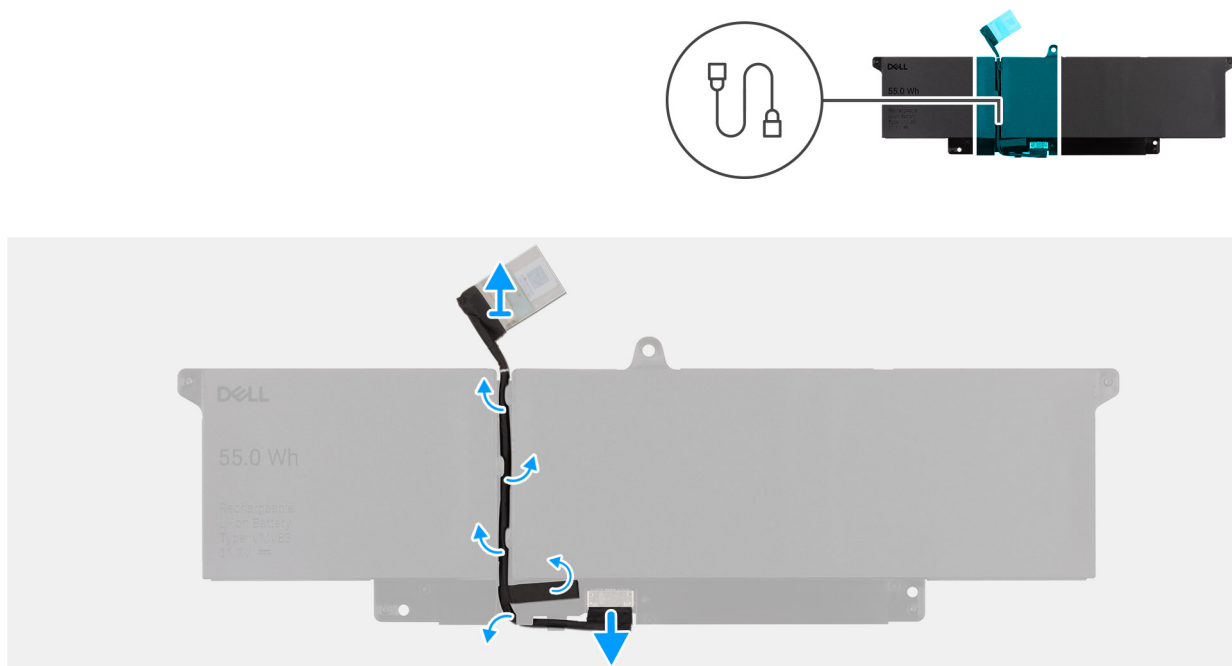


Figure 19. Removing the battery cable

Steps

1. Unroute the battery cable from the routing guides on the battery.
2. Disconnect the battery cable from the connector on the battery.
3. Lift the battery cable away from the battery.

Installing the battery cable

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the battery cable and provides a visual representation of the installation procedure.

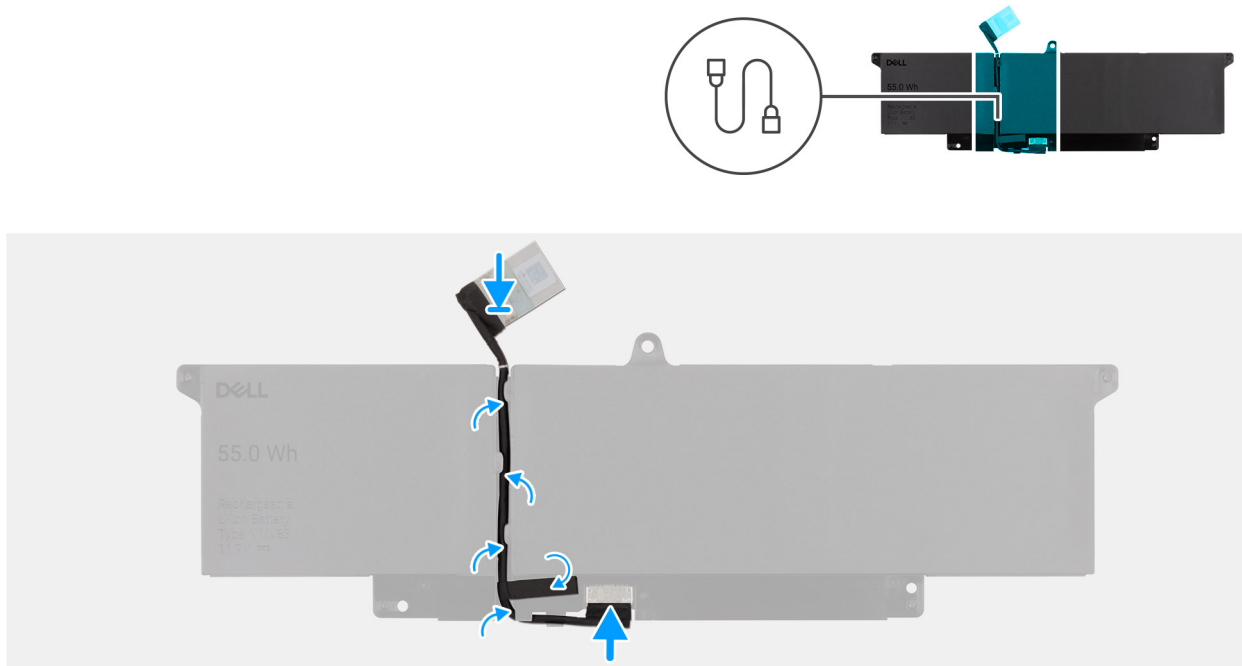


Figure 20. Installing the battery cable

Steps

1. Connect the battery cable to the connector on the battery.
2. Route the battery cable through the routing guides on the battery.
3. Turn the battery over.

Next steps

1. Install the [battery](#).
2. Install the [base cover](#).
3. Follow the procedure in [After working inside your computer](#).

Memory module

Removing the memory module

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the memory module and provides a visual representation of the removal procedure.

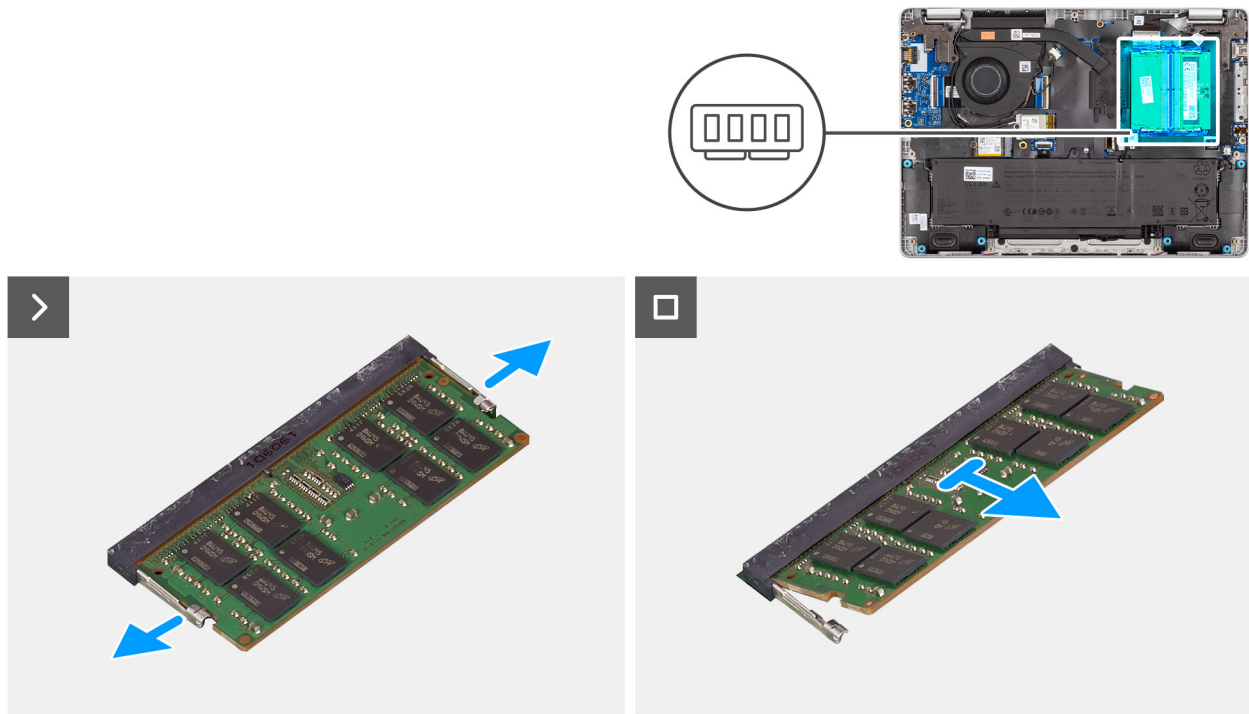


Figure 21. Removing the memory module

Steps

1. Pry the clips that secure the memory module until it pops up.
2. Remove the memory module from the slot.

NOTE: Repeat steps if there is more than one memory module installed on your computer.

CAUTION: To prevent damage to the memory module, hold the memory module by the edges. Do not touch the components or metallic contacts on the memory module as electrostatic discharge (ESD) can inflict severe damage on the components. To read more about ESD protection, see [ESD protection](#).

Installing the memory module

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The figure indicates the location of the memory module and provides a visual representation of the installation procedure.

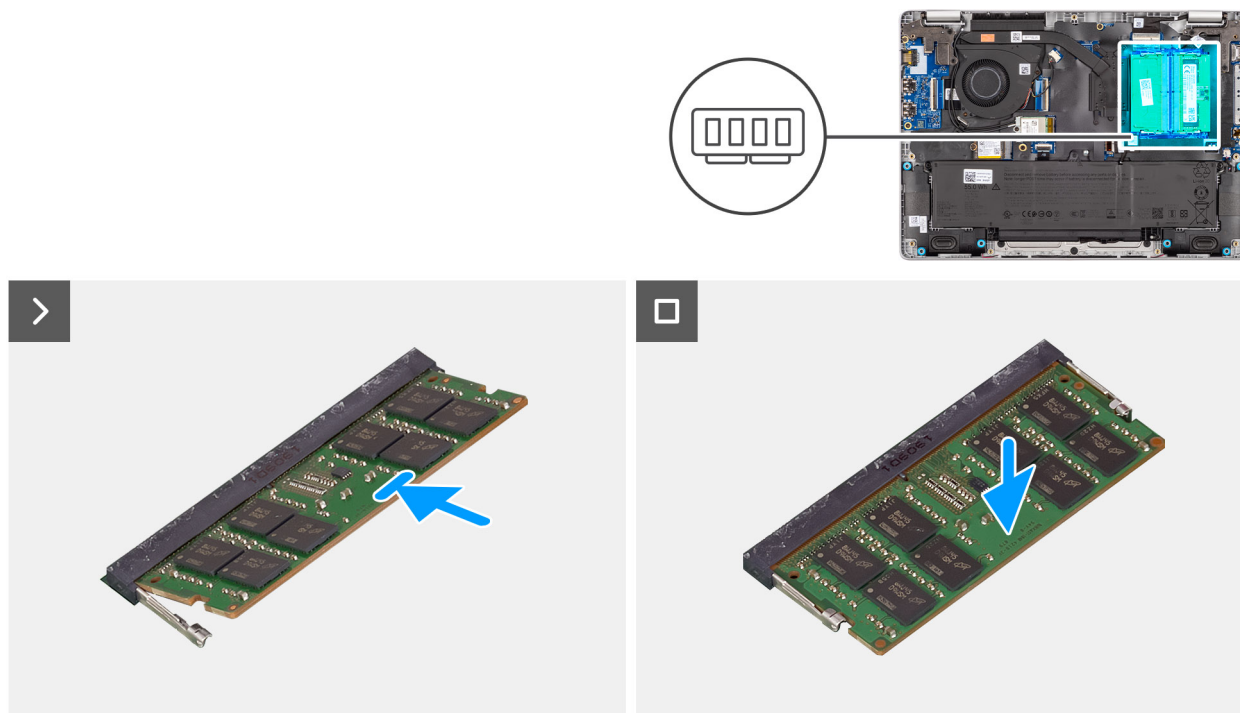


Figure 22. Installing the memory module

Steps

1. Align the notch on the memory module with the tab on the memory-module slot.
2. Slide the memory module firmly into the slot at an angle.
3. Press the memory module down until it clicks into place.

NOTE: If you do not hear the click, remove the memory module and reinstall it.

CAUTION: To prevent damage to the memory module, hold the memory module by the edges. Do not touch the components or metallic contacts on the memory module as electrostatic discharge (ESD) can inflict severe damage on the components. To read more about ESD protection, see [ESD protection](#).

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Solid state drive (SSD)

Removing the solid state Drive (SSD)

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the solid state drive (SSD) and provides a visual representation of the removal procedure.

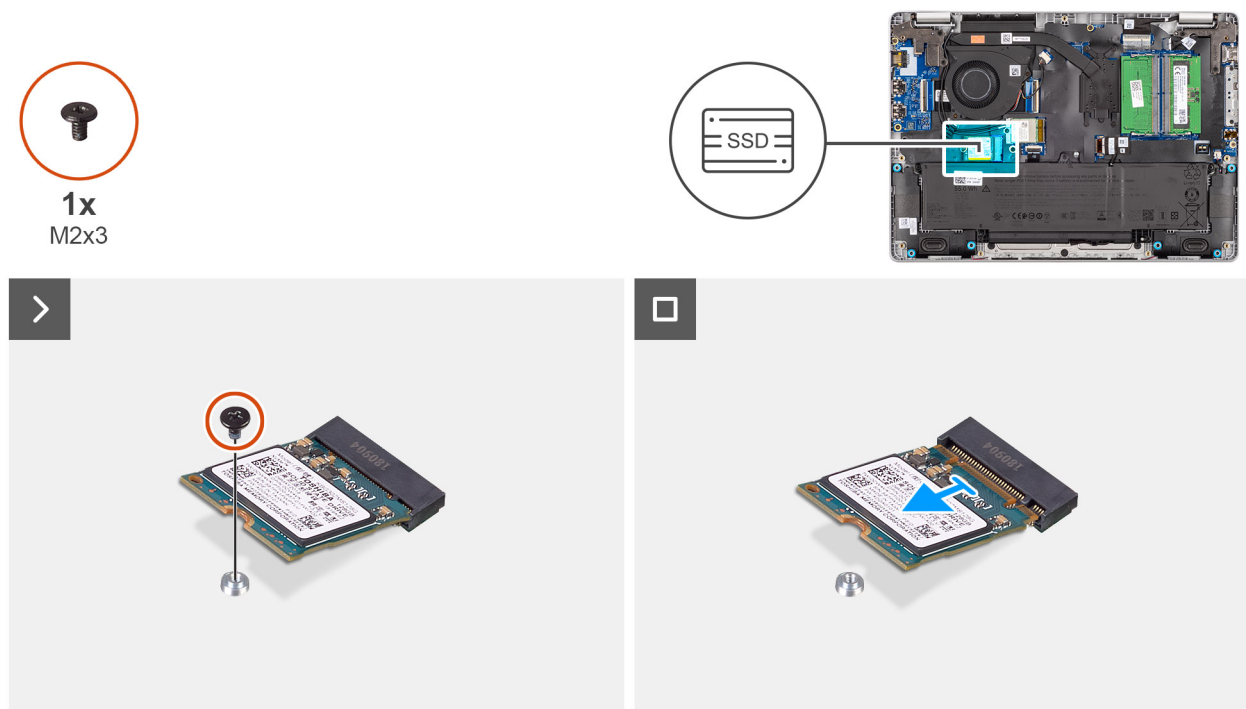


Figure 23. Removing the SSD

Steps

1. Remove the screw (M2x3) that secures the SSD to the system board.
2. Slide and remove the SSD from the M.2 slot on the system board.

Installing the solid state drive (SSD)

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the solid state drive (SSD) and provides a visual representation of the installation procedure.

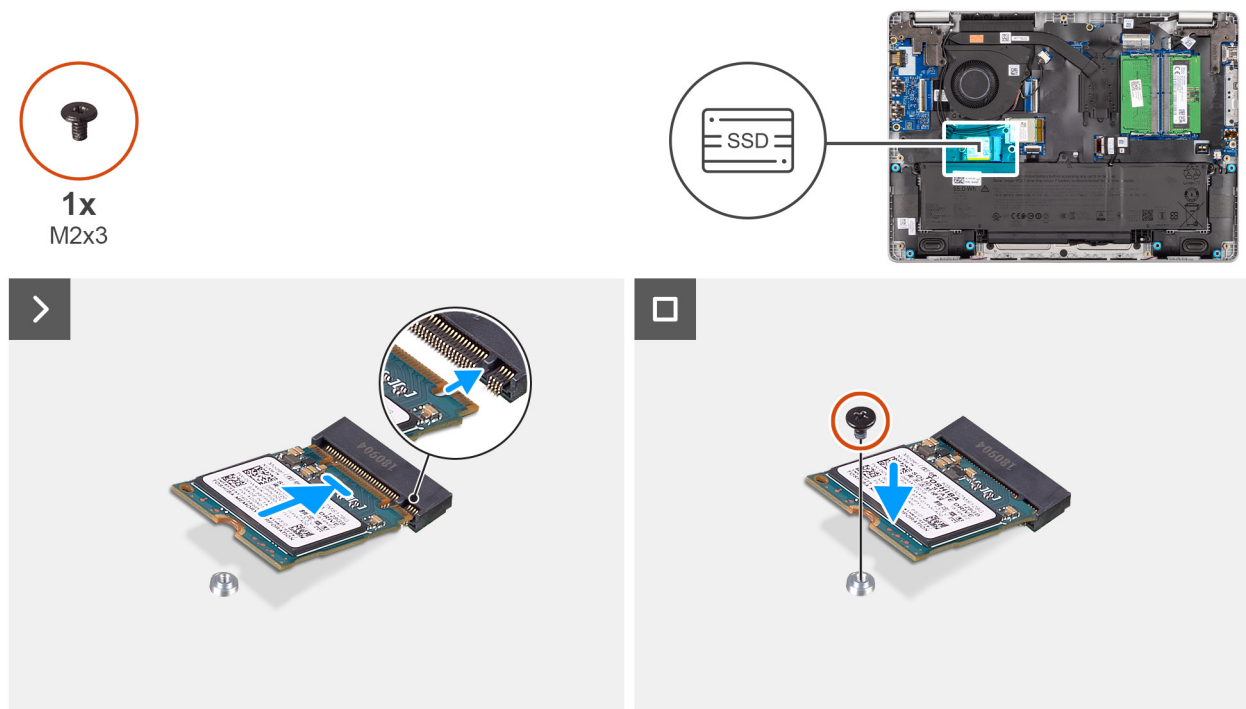


Figure 24. Installing the SSD

Steps

1. Align the notch on the SSD with the tab on the M.2 SSD slot on the system board.
2. Slide the M.2 2230 solid state drive into the SSD slot on the system board.
3. Align the screw hole on the SSD with the screw hole on the palm-rest assembly.
4. Replace the screw (M2x3) that secures the SSD to the system board.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Wireless Local Area Network (WLAN) card

Removing the wireless card

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the wireless card and provides a visual representation of the removal procedure.

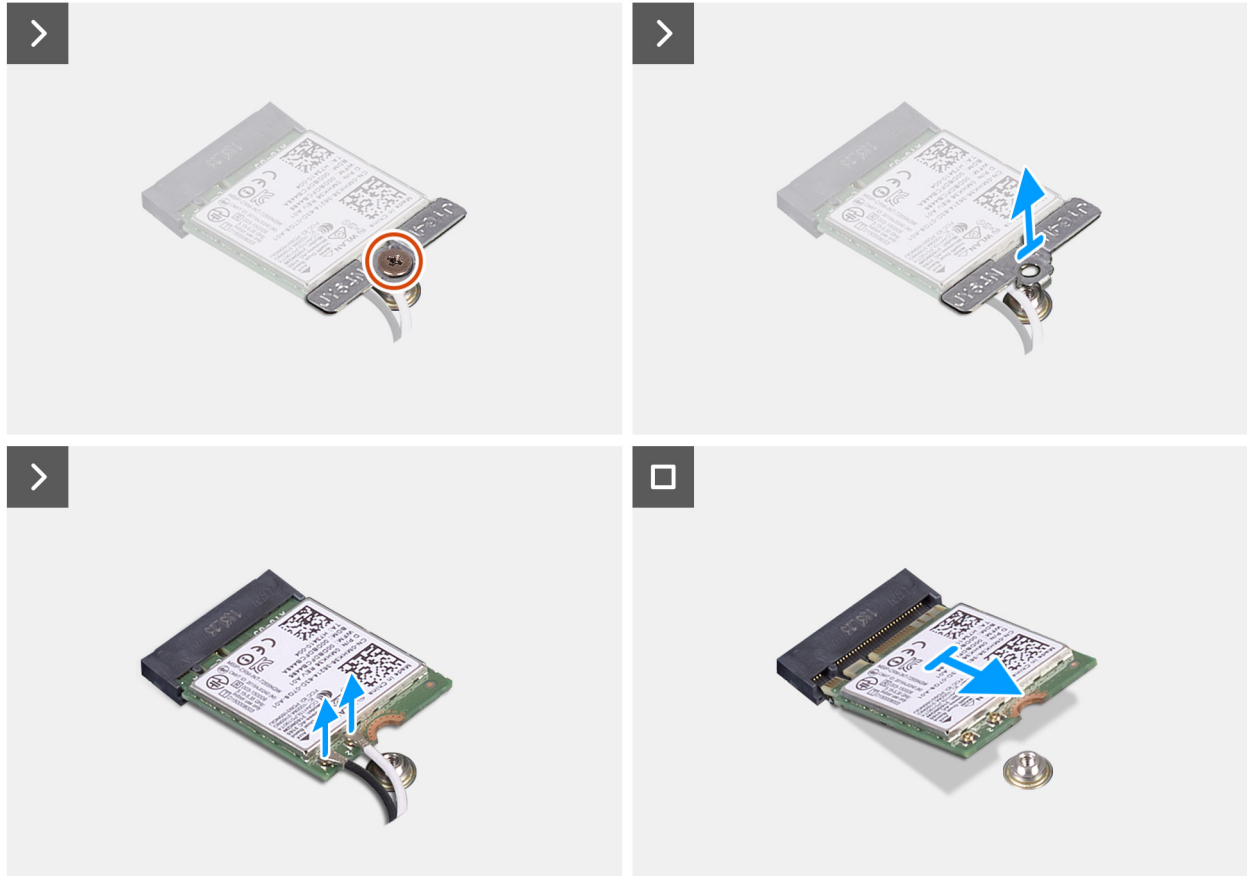
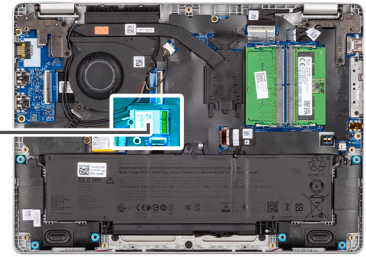


Figure 25. Removing the wireless card

Steps

1. Remove the screw (M2x3) that secures the wireless-card bracket to the system board.
2. Lift the wireless-card bracket from the wireless card.
3. Disconnect the WLAN antenna cables from the wireless card.
4. Slide and remove the wireless card from the wireless-card slot.

Installing the wireless card

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the wireless card and provides a visual representation of the removal procedure.

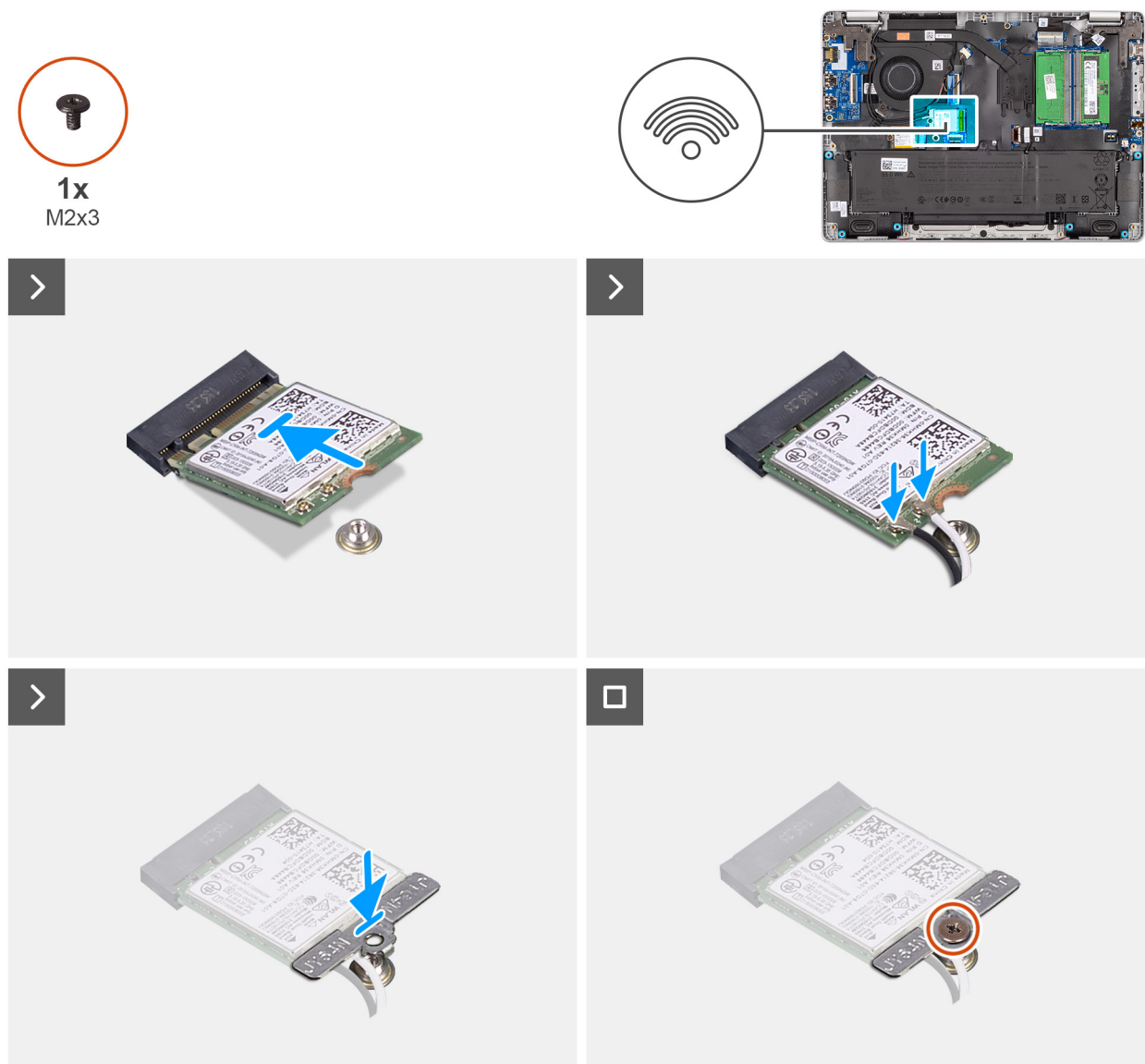


Figure 26. Installing the wireless card

Steps

1. Connect the WLAN-antenna cables to the respective connectors on the wireless card.

The following table provides the antenna-cable color scheme for the wireless card that is supported for your computer.

Table 32. WLAN-antenna cable color scheme

Connectors on the wireless card	Antenna-cable color
Main - White triangle (▲)	White cable
Auxiliary - Solid triangle (▲)	Black cable

2. Align the notch on the wireless card with the tab on the wireless-card slot.
3. Slide the wireless card at an angle into the wireless-card slot.
4. Place the wireless-card bracket on the wireless card.
5. Align the screw hole on the wireless-card bracket with the screw hole on the system board.
6. Replace the screw (M2x3) that secures the wireless-card bracket and the wireless card to the system board.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Speakers

Removing the speakers

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the battery and provides a visual representation of the removal procedure.

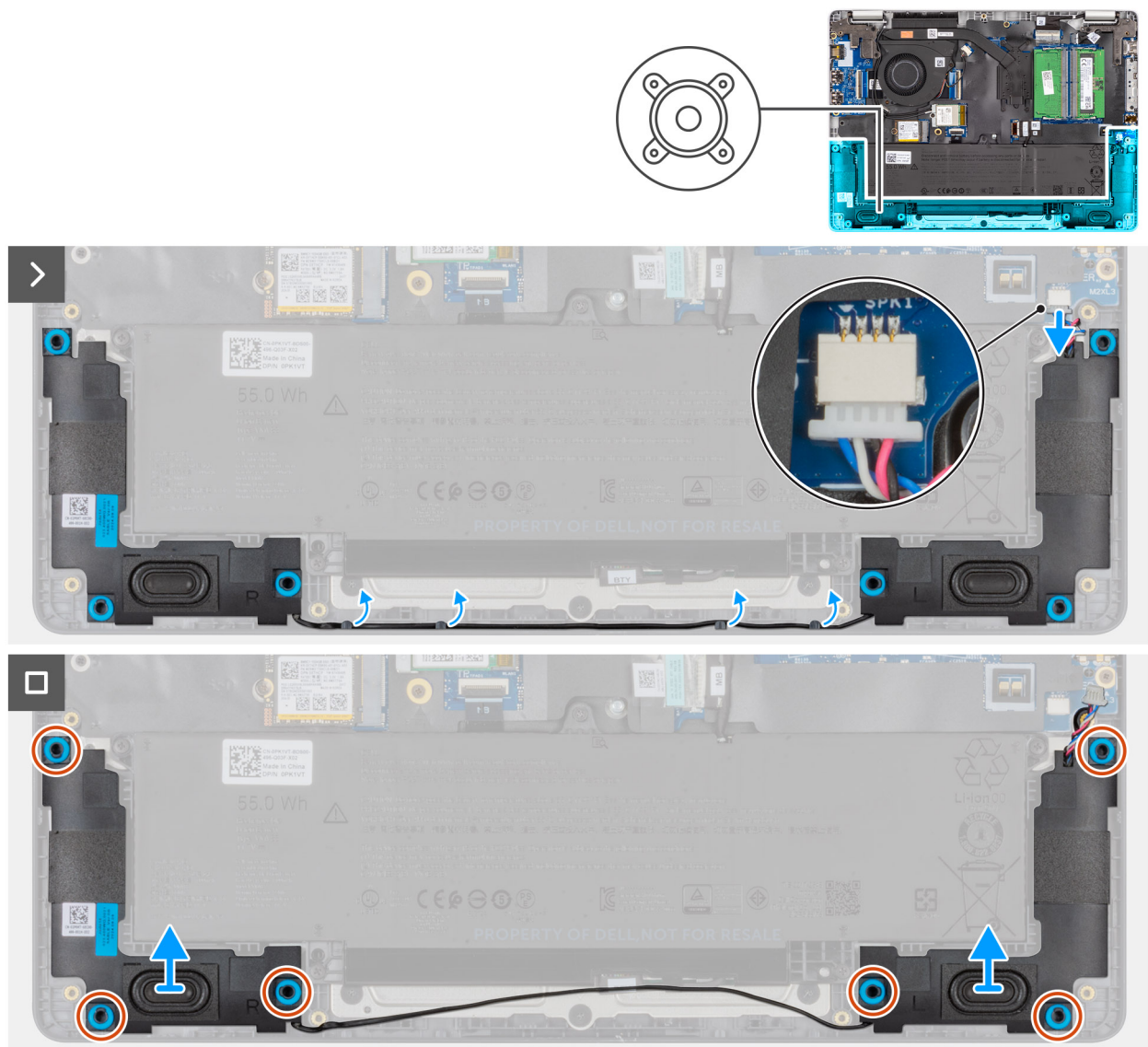


Figure 27. Removing the speakers

Steps

1. Disconnect the speaker cable from the connector (SPK1) on the system board.
2. Unroute the speaker cable from the routing guides on the palm-rest assembly.
3. Remove the speakers from the palm-rest assembly.

Installing the speakers

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

NOTE: If the rubber grommets are pushed out when removing the speakers, push them back in place before replacing the speakers.

The following images indicate the location of the speakers and provide a visual representation of the installation procedure .

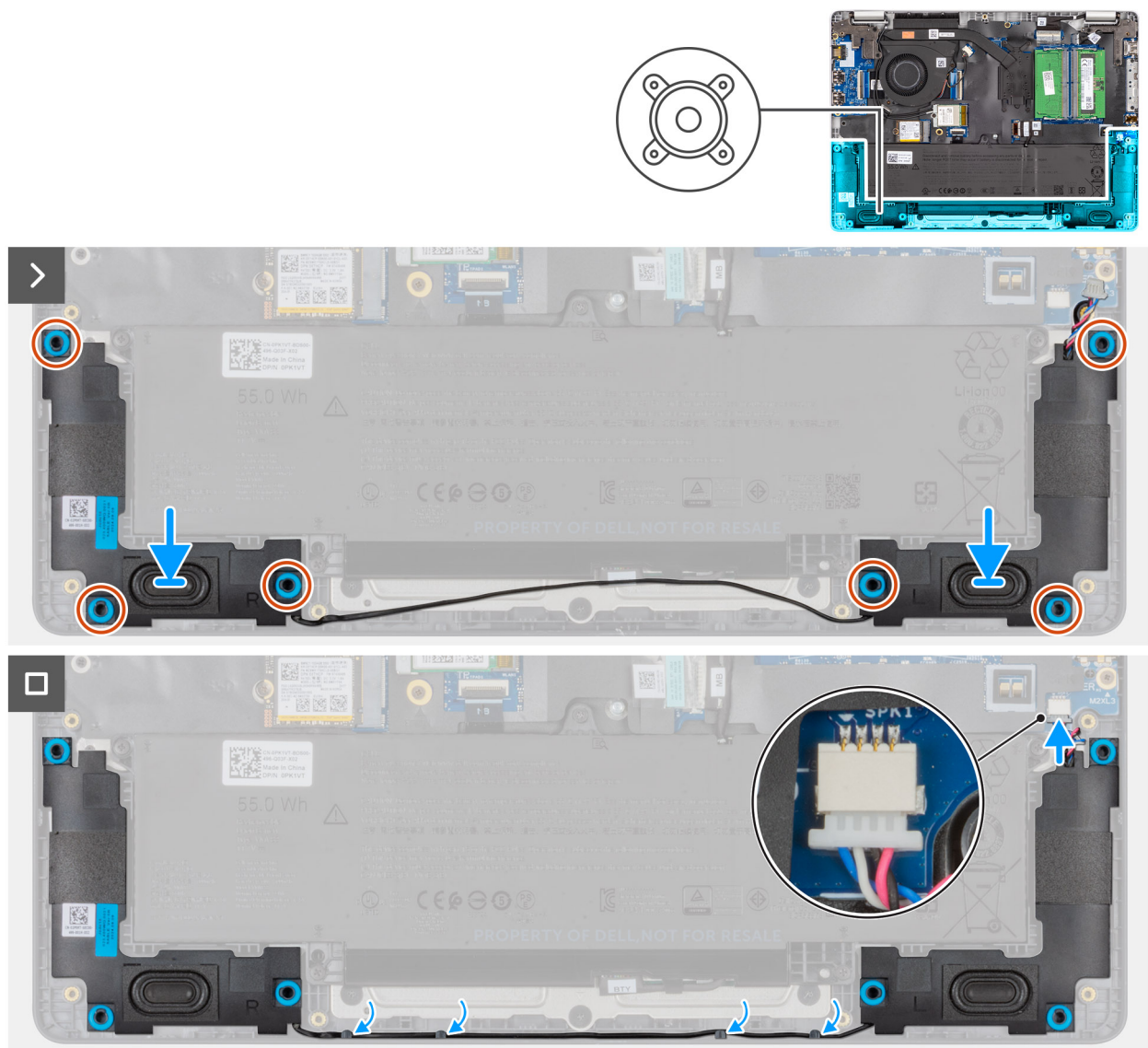


Figure 28. Installing the speakers

Steps

1. Using the alignment posts, place the speakers into their slots on the palm-rest assembly.

 **NOTE:** Ensure that the rubber grommets are seated into the slot and installed on the speakers properly.

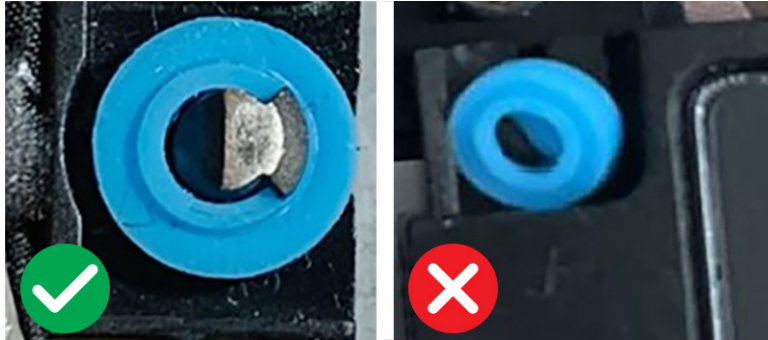


Figure 29. Rubber grommets

2. Route the speaker cables through the routing guides on the palm-rest assembly.
3. Connect the speaker cable to the connector (SPK1) on the system board.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Fan

Removing the fan

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the fan and provides a visual representation of the removal procedure.

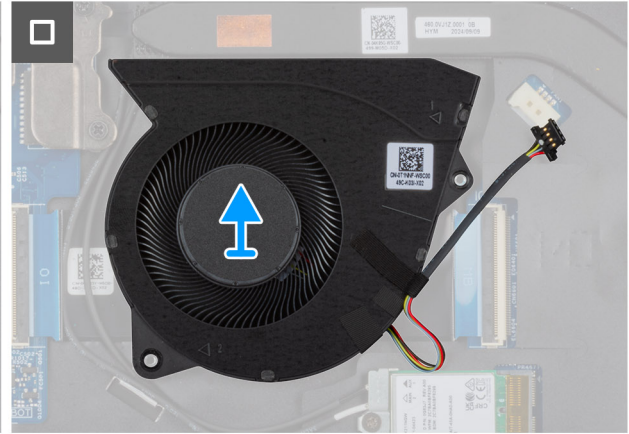
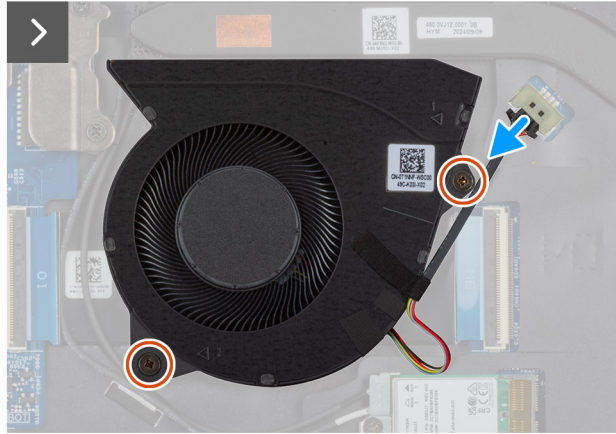
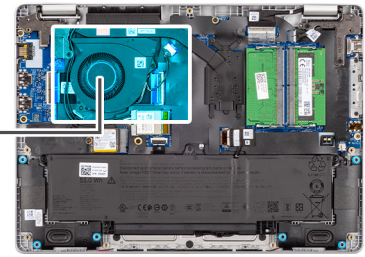
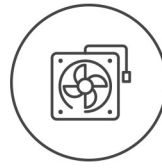


Figure 30. Removing the fan

Steps

1. Disconnect the fan cable from the connector (FAN1) on the system board.
2. Remove the two screws (M2x3) that secure the fan to the system board.
3. Lift and remove the fan from the system board.

Installing the fan

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the fan and provides a visual representation of the installation procedure.

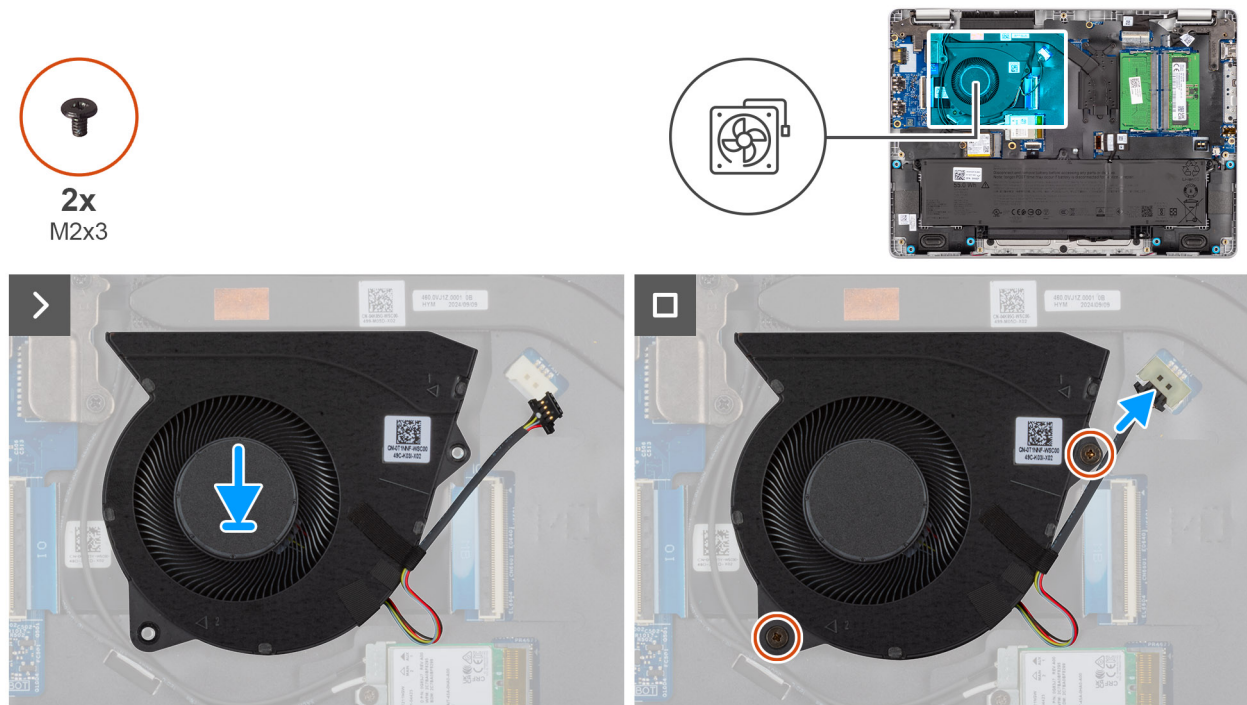


Figure 31. Installing the fan

Steps

1. Place and align the screw holes on the fan with the screw holes on the system board.
2. Replace the two screws (M2x3) that secures the fan to the system board.
3. Connect the fan cable to the connector (FAN1) on the system board.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Removing and installing Field Replaceable Units (FRUs)

The replaceable components in this chapter are Field Replaceable Units (FRUs).

 **CAUTION:** The information in this section is intended for authorized service technicians only.

 **CAUTION:** To avoid any potential damage to the component or loss of data, ensure that an authorized service technician replaces the Field Replaceable Units (FRUs).

 **CAUTION:** Dell Technologies recommends that these procedures be performed by trained technical repair specialists.

 **CAUTION:** Your warranty does not cover damages that may occur during FRU repairs that are not authorized by Dell Technologies.

 **NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

Power-adapter port

Removing the power-adapter port

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following images indicate the location of the power-adapter port and provide a visual representation of the removal procedure.

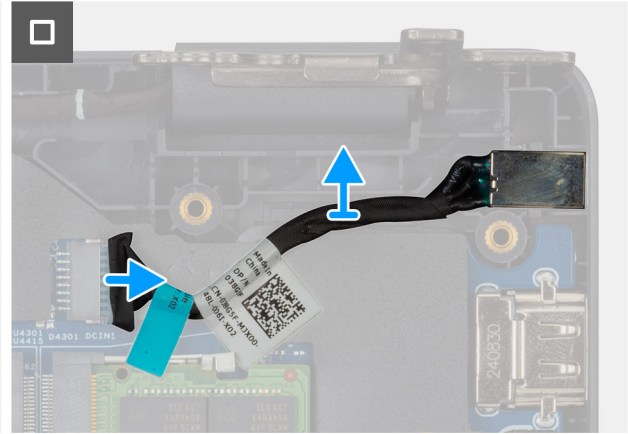
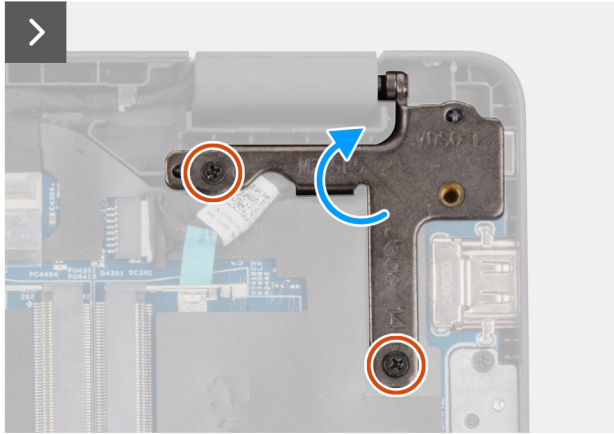
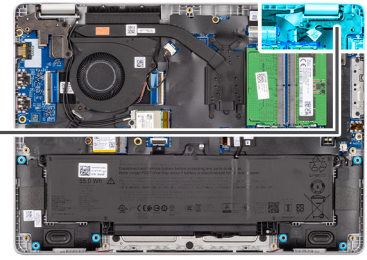
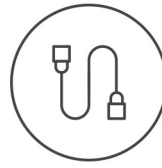


Figure 32. Removing the power-adapter port

Steps

1. Remove the two screws (M2.5x5) that secure the left display-hinge to the palm-rest assembly.
2. Lift the left display-hinge upward to access the power-adapter port.
3. Disconnect the power-adapter port cable from the connector (DCIN1) on the system board.
4. Remove the power-adapter port from the system board.

Installing the power-adapter port

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the power-adapter port and provide a visual representation of the installation procedure.



2x
M2.5x5

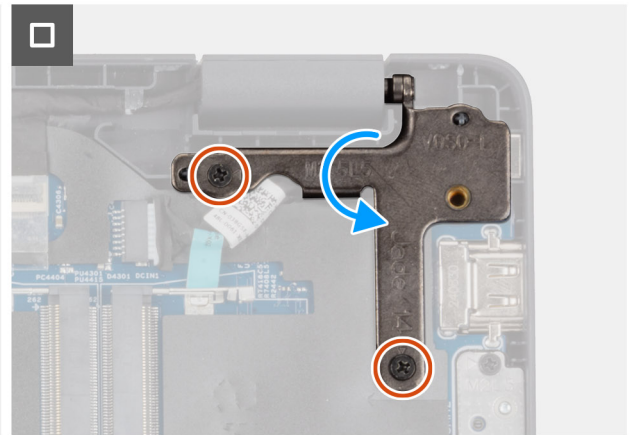
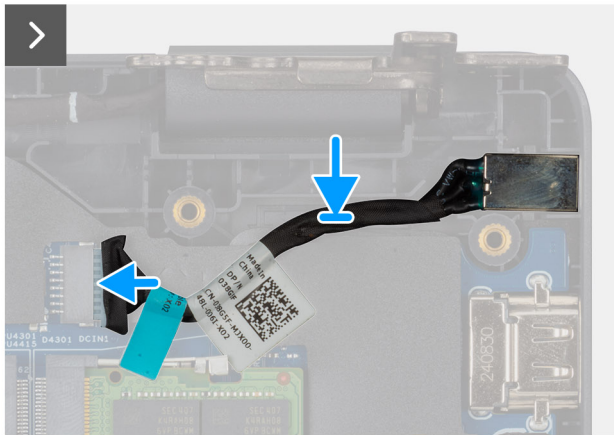
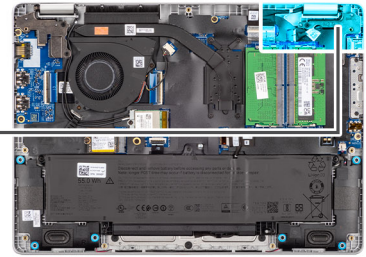
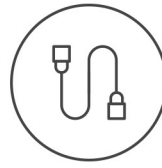


Figure 33. Installing the power-adapter port

Steps

1. Align and place the power-adapter port on the system board.
2. Connect the power-adapter port cable to the connector (DCIN1) on the system board.
3. Gently press the left display-hinge in a downward direction towards the power-adapter port.
4. Replace the two screws (M2.5x5) that secures the left display-hinge to the palm-rest assembly.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

Heat sink

Removing the heat sink

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following image indicates the location of the heat sink and provides a visual representation of the removal procedure.



4x
M2x5.4

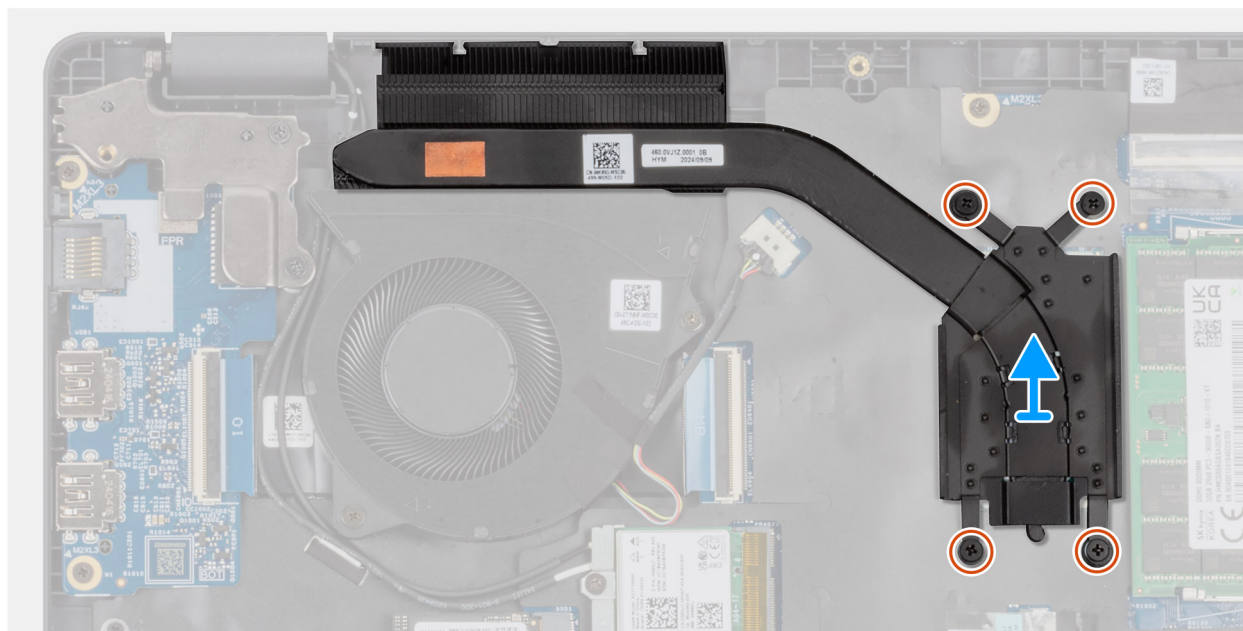
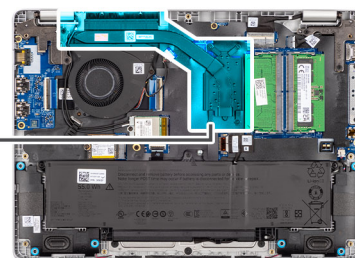


Figure 34. Removing the heat sink

Steps

1. Loosen the four captive screws (M2x5.4) that secure the heat sink to the system board.
i NOTE: Loosen the captive screws in the reverse sequential order mentioned on the heat sink [4 > 3 > 2 > 1].
2. Lift the heat sink from the system board.

Installing the heat sink

△ CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

i NOTE: If either the system board or the heat-sink is replaced, use the thermal grease that is provided in the kit to ensure that thermal conductivity is achieved.

The following image indicates the location of the heat sink and provides a visual representation of the installation procedure.



4x
M2x5.4

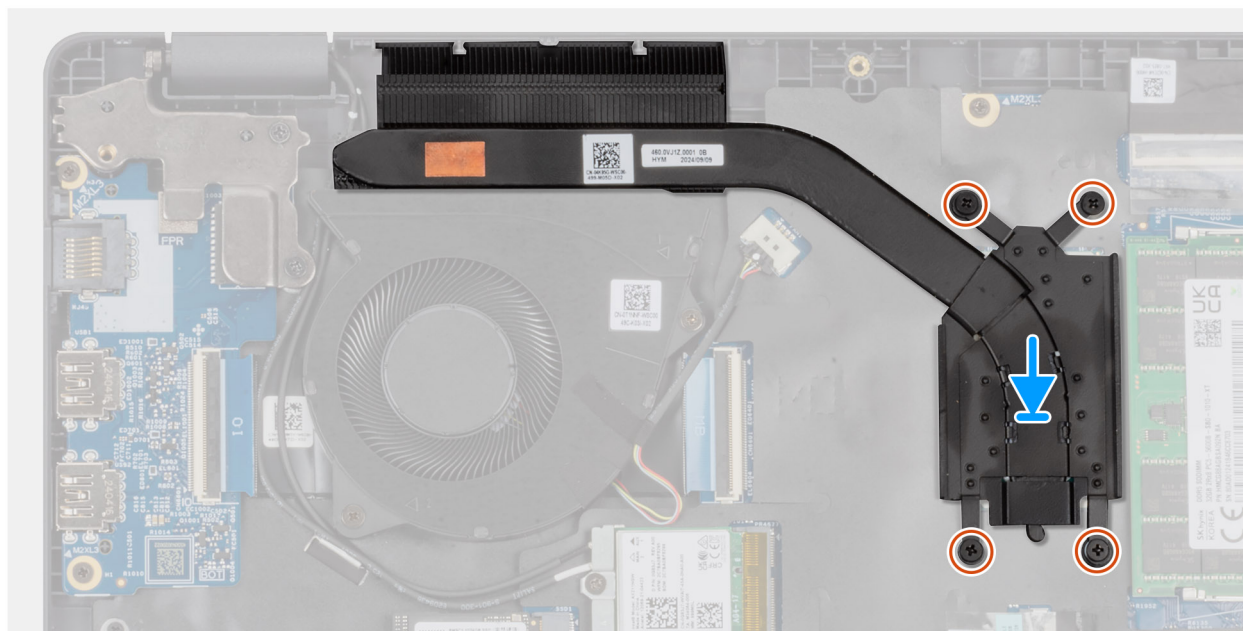
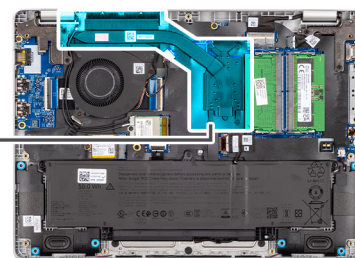


Figure 35. Installing the heat sink

Steps

1. Place the heat sink into its slot on the system board.
2. Align the screw holes on the heat sink to the screw holes on the system board.
3. Tighten the four captive screws (M2x5.4) that secure the heat sink to the system board.

NOTE: Tighten the captive screws in the sequential order mentioned on the heat sink [1 > 2 > 3 > 4].

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

I/O board

Removing the I/O board

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

About this task

The following images indicate the location of the I/O board and provide a visual representation of the removal procedure.

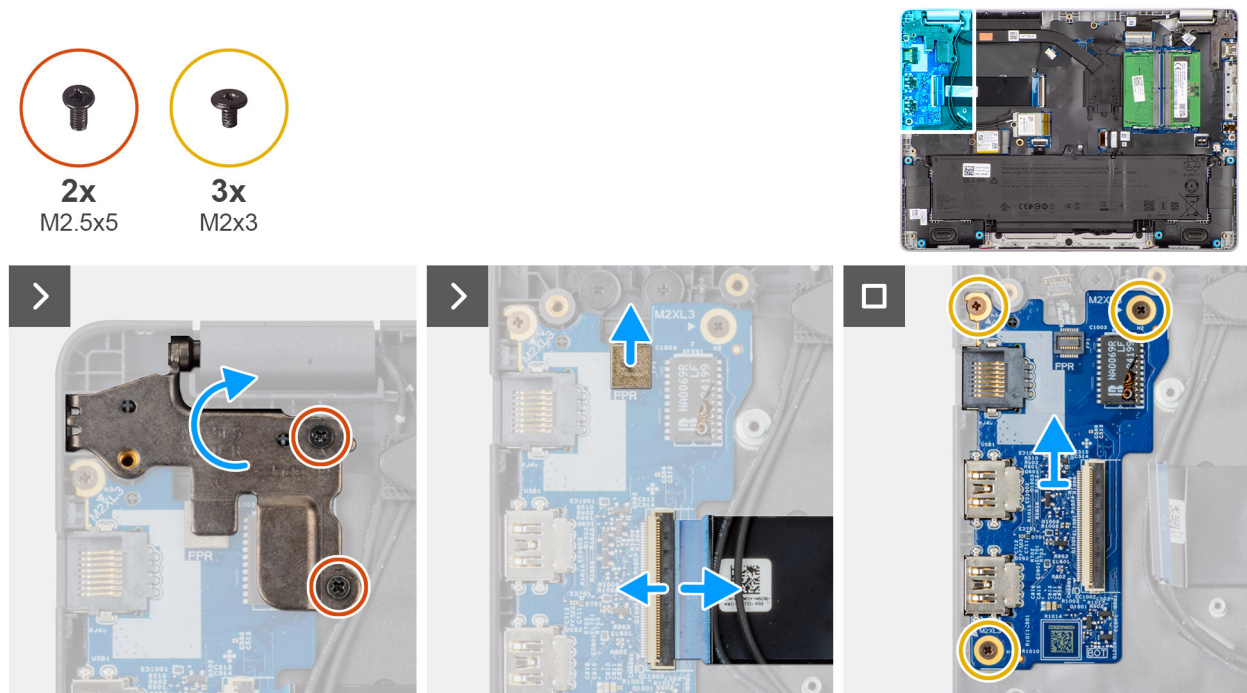


Figure 36. Removing the I/O board

Steps

1. Remove the two screws (M2.5x5) that secure the right display-hinge to the chassis.
2. Lift the right display-hinge upward to access the I/O board.
3. For computers shipped with fingerprint readers, disconnect the FPC cable of the fingerprint reader from the connector (FPR) on the I/O board.
4. Open the latch and disconnect the I/O-board cable from the connector (IO) on the I/O board.
5. Remove the three screws (M2x3) that secure the I/O board to the palm-rest assembly.
6. Lift the I/O board off the palm-rest assembly.

Installing the I/O board

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the I/O board and provide a visual representation of the installation procedure.

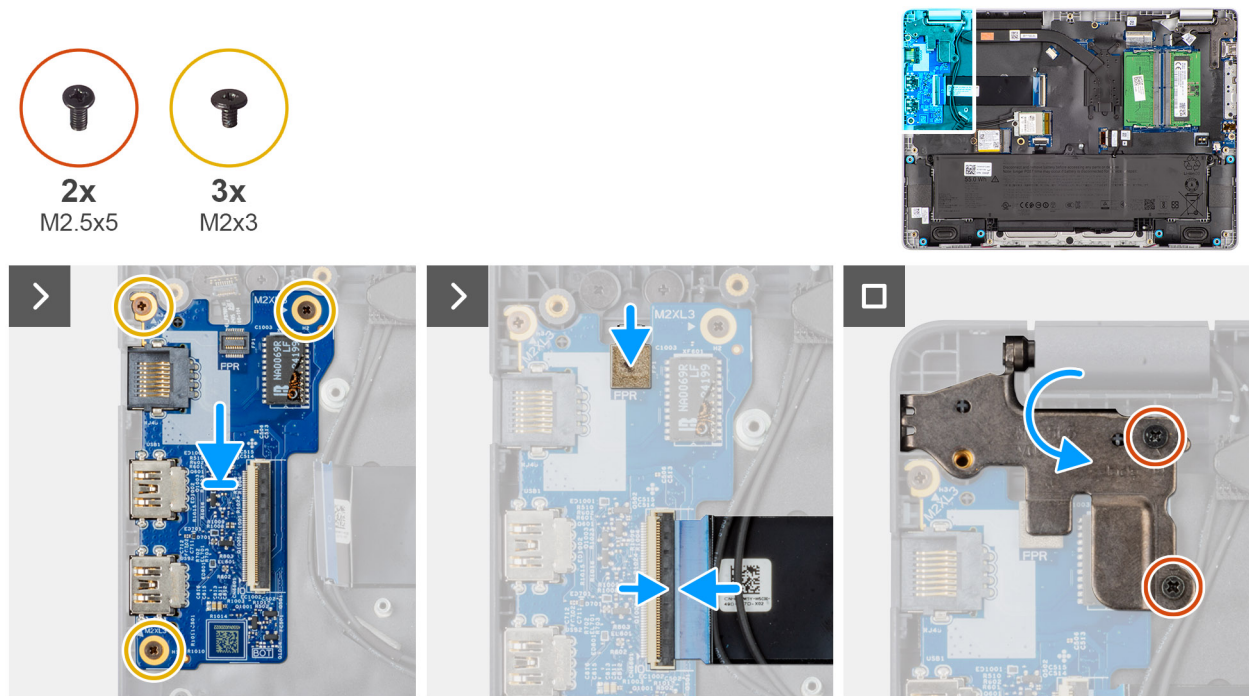


Figure 37. Installing the I/O board

Steps

1. Place and align the screw holes on the I/O board with the screw holes on the palm-rest assembly.
2. Replace the three screws (M2x3) that secure the I/O board to the palm-rest assembly.
3. Connect the I/O-board cable to the connector (IO) on the I/O board and close the latch.
4. For computers shipped with fingerprint readers, connect the FPC cable of the fingerprint reader to the connector (FPR) on the I/O board.
5. Gently press the right display-hinge in a downward direction towards the I/O board.
6. Replace the two screws (M2.5x5) that secure the right display-hinge to the palm-rest assembly.

Next steps

1. Install the [base cover](#).
2. Follow the procedure in [After working inside your computer](#).

I/O-board FPC

Removing the I/O-board FPC cable

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [fan](#).

About this task

The following image indicates the location of the I/O-board FPC cable and provides a visual representation of the removal procedure.

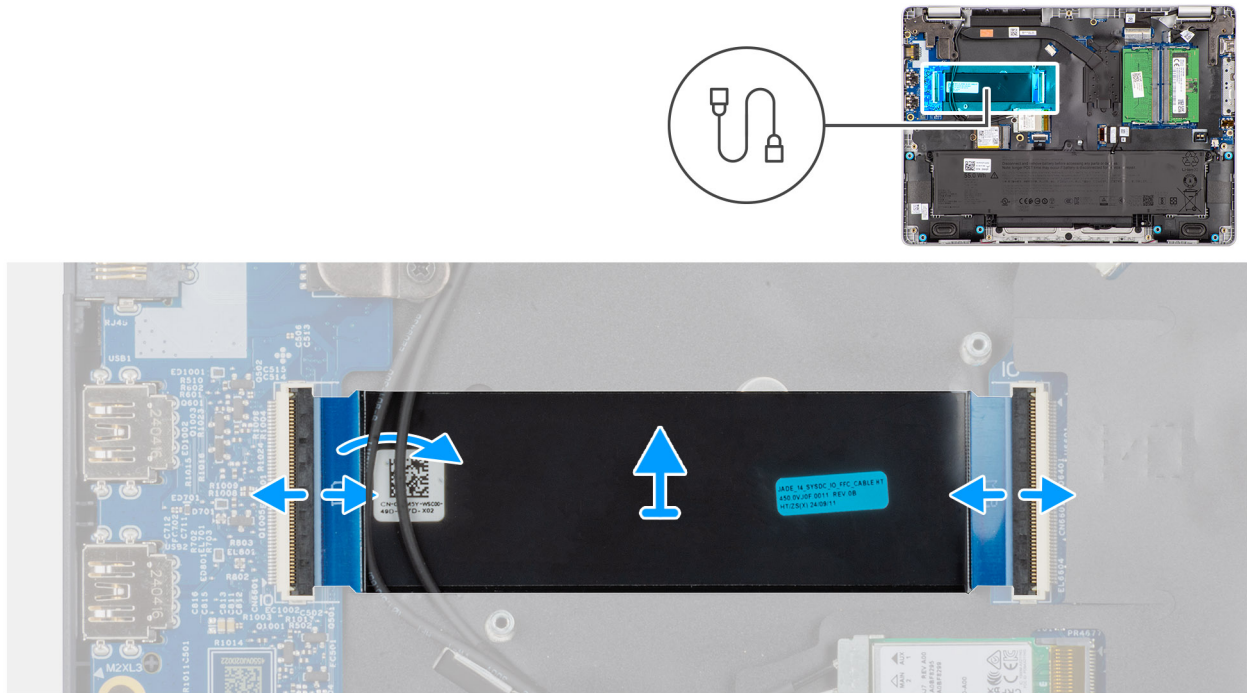


Figure 38. Removing the I/O-board FPC cable

Steps

1. Open the latch and disconnect the I/O-board FPC cable from the connector (IO) on the I/O board.
2. Open the latch and disconnect the other end of the I/O-board FPC cable from the connector on the system board.
3. Slide and lift the I/O-board FPC cable off the computer.

Installing the I/O board FPC cable

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the I/O-board FPC cable and provides a visual representation of the installation procedure.

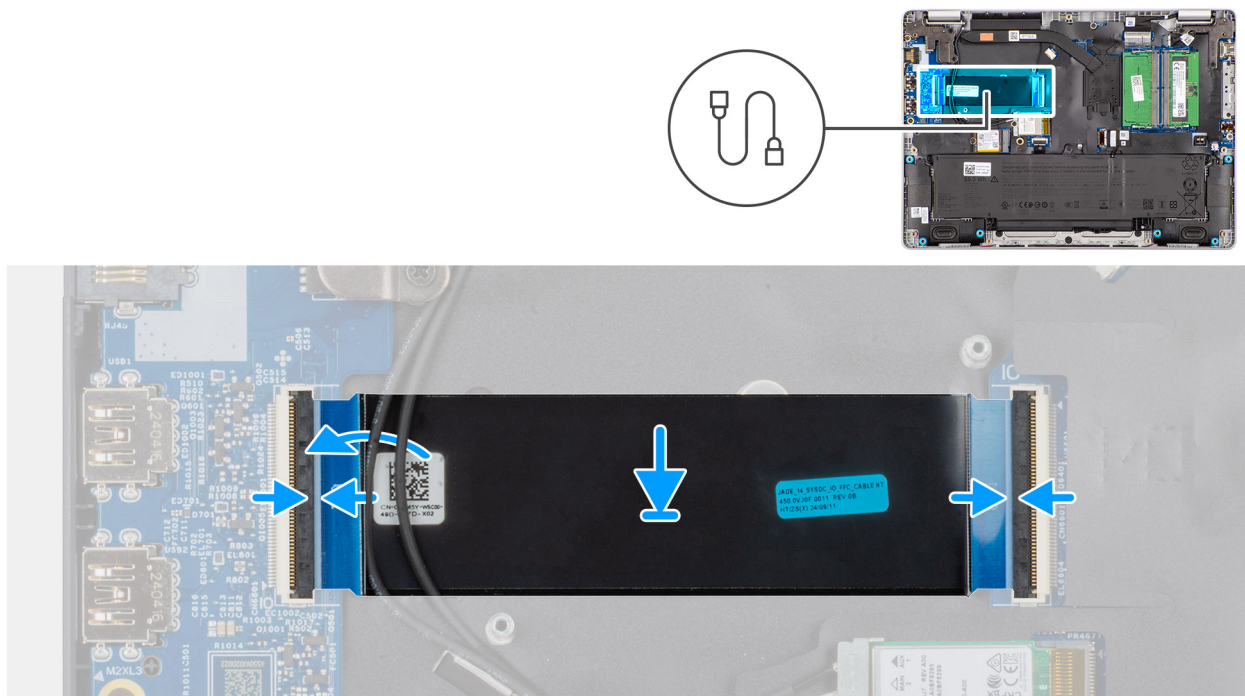


Figure 39. Installing the I/O board

Steps

1. Slide the I/O-board FPC cable beneath the WLAN antenna cables.
2. Connect the I/O-board FPC cable to the connector on the system board and close the latch to secure the cable in place.
3. Connect the other end of the I/O-board FPC cable to the connector (IO) on the I/O board and close the latch to secure the connector in place.

Next steps

1. Install the [fan](#).
2. Install the [base cover](#).
3. Follow the procedure in [After working inside your computer](#).

Power button with fingerprint reader

Removing the power button with fingerprint reader

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [fan](#).
4. Remove the [I/O board](#).

About this task

NOTE: For computers shipped without a fingerprint reader configuration, the power button removal steps remain the same.

The following images indicate the location of the power button and provide a visual representation of the removal procedure.

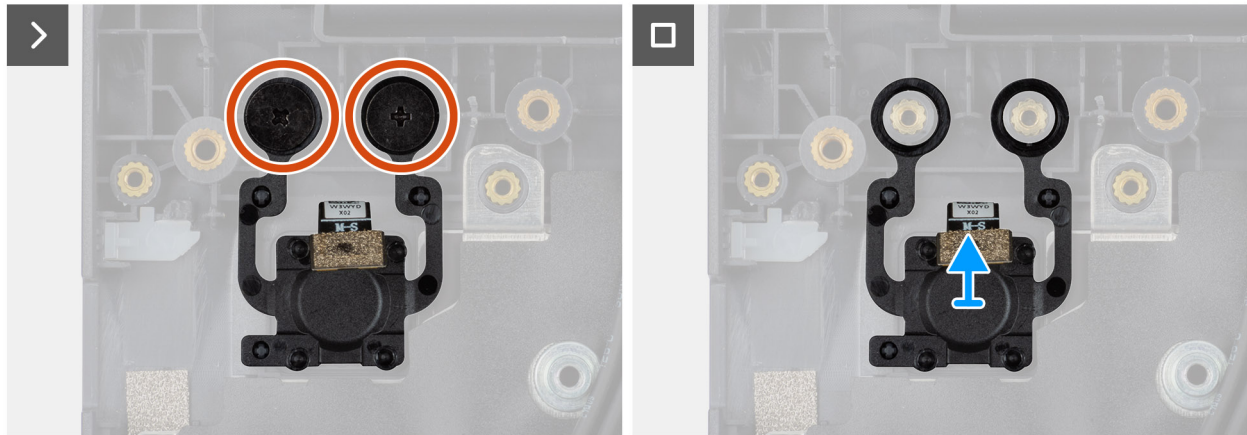
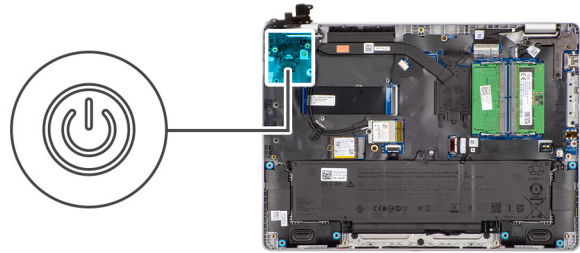


Figure 40. Removing the power button with fingerprint reader

Steps

1. Remove the two screws (M2x2) that secure the power button to the palm-rest assembly.
2. Lift the power button from the slot in the palm-rest assembly.

Installing the power button with a fingerprint reader

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

NOTE: For computers shipped without a fingerprint reader configuration, the power button installation steps remain the same.

The following images indicate the location of the power button and provide a visual representation of the installation procedure.

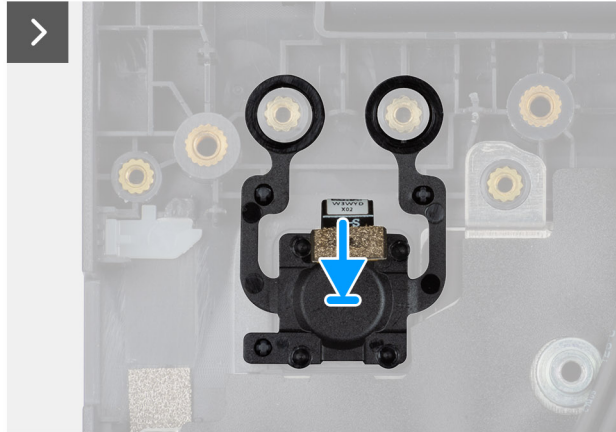
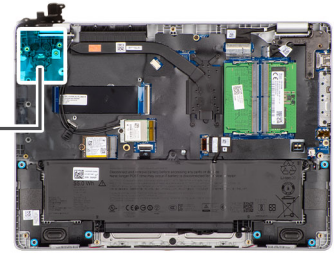


Figure 41. Installing the power button with a fingerprint reader

Steps

1. Align the screw holes on the power button with the screw holes on the palm-rest assembly.
2. Replace the two screws (M2x2) that secure the power button to the palm-rest assembly.

Next steps

1. Install the [I/O board](#).
2. Install the [fan](#).
3. Install the [base cover](#).
4. Follow the procedure in [After working inside your computer](#).

System board

Removing the system board

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).
4. Remove the [memory module](#).
5. Remove the [SSD](#).
6. Remove the [wireless card](#).
7. Remove the [fan](#).
8. Remove the [heat sink](#).
9. Remove the [display assembly](#).

About this task

The following image indicates the connectors on your system board.

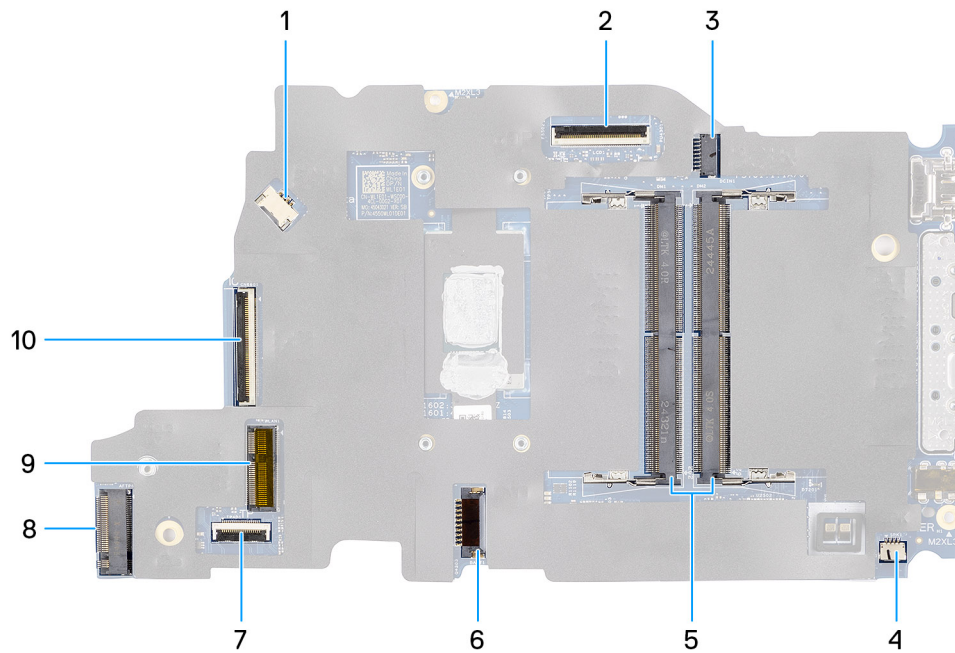
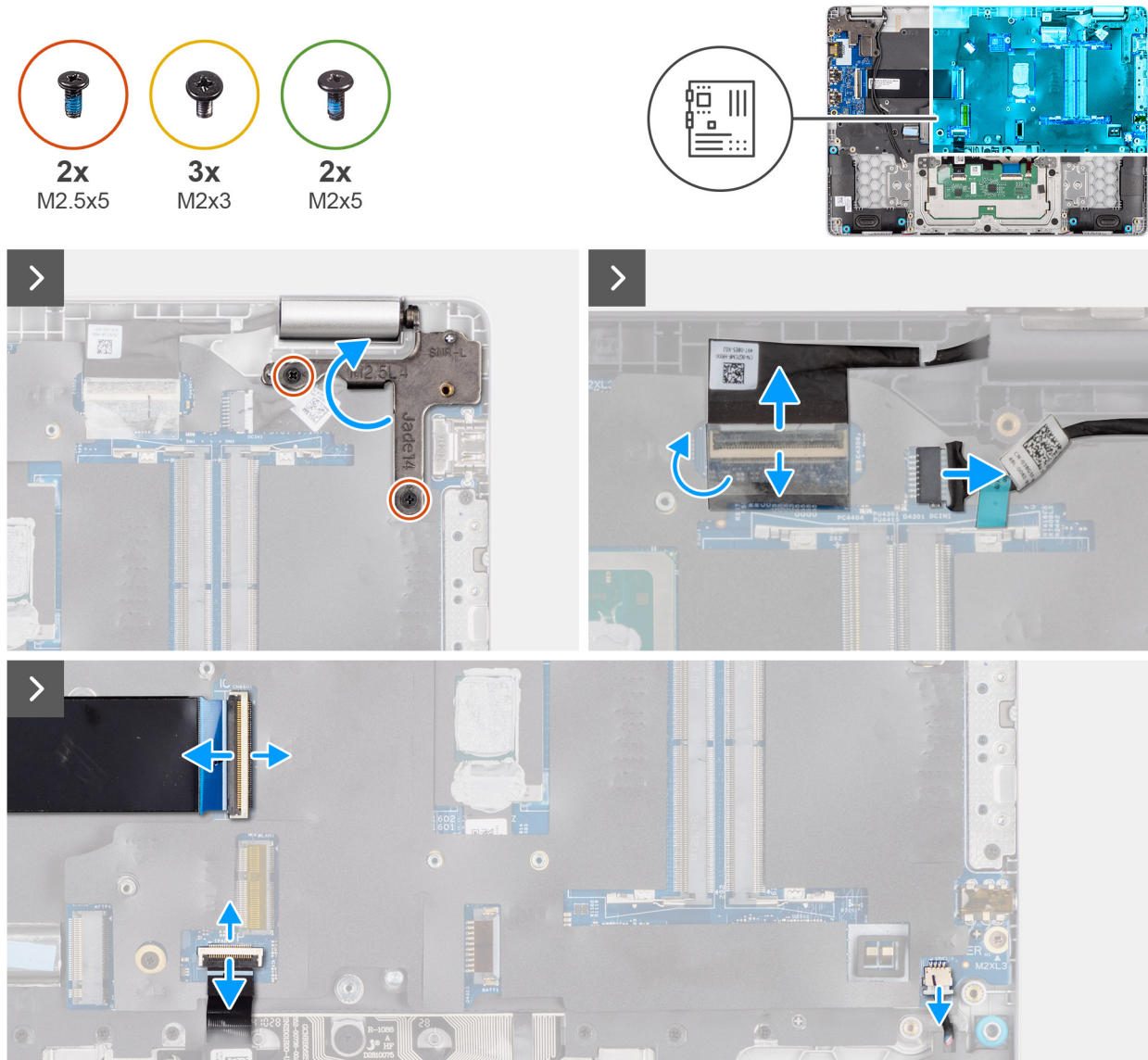


Figure 42. System-board connectors

1. Fan-cable connector (FAN1)
2. Display-cable connector (LCD1)
3. DC-in port connector (DCIN1)
4. Speaker-cable connector (SPK1)
5. Memory-module connectors (DM1 AND DM2)
6. Battery-cable connector (BATT1)
7. Touchpad-cable connector (TPAD1)
8. Wireless-card connector (WLAN1)
9. SSD slot
10. I/O-board cable connector (IO)

The following images indicate the location of the system board and provide a visual representation of the removal procedure.



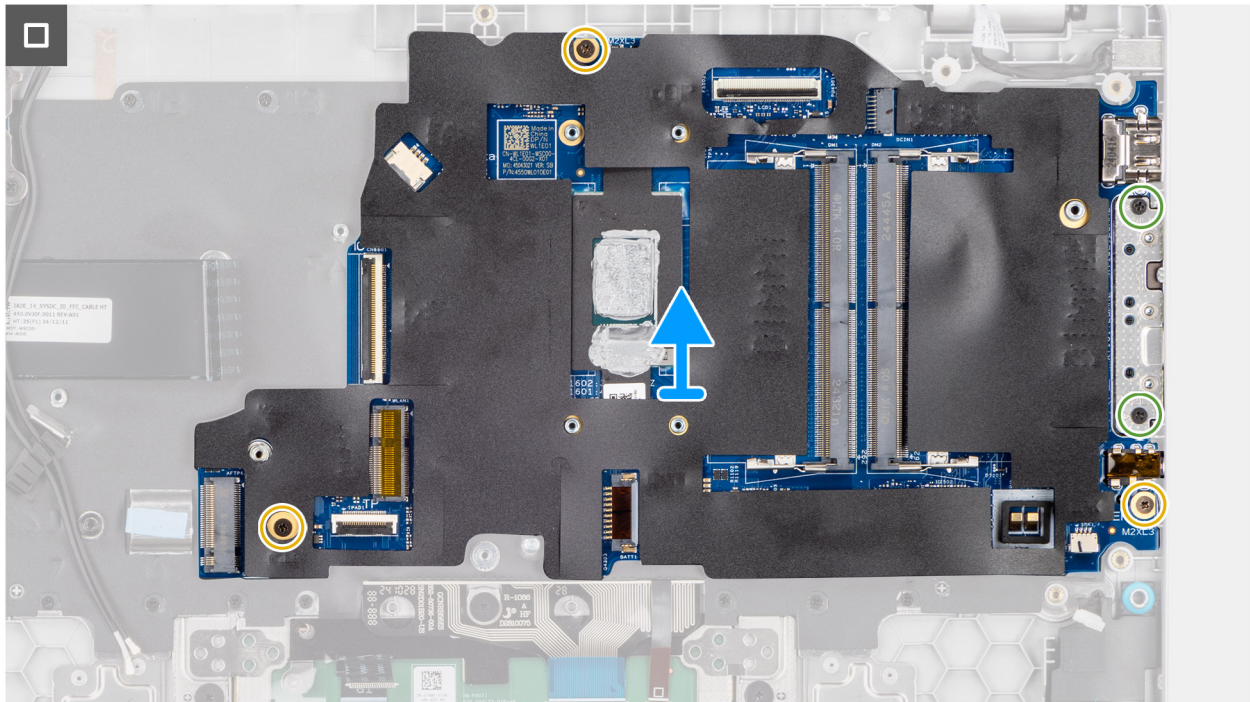


Figure 44. Removing the system board

Steps

1. Remove the two screws (M2.5x5) that secure the left display-hinge to the palm-rest assembly.
2. Lift the left display-hinge in an upward direction away from the system board.
3. Disconnect the following cables from the respective connectors on the system board:
 - Display cable (EDP)
 - Power-adapter port cable
 - Speaker cable
 - Touchpad cable
 - I/O-board cable
 - Fan cable
4. Remove the two screws (M2x5) that secure the Type-C module to the system board.
5. Remove the three screws (M2x3) that secure the system board to the palm-rest assembly.
6. Lift the system board off the palm-rest assembly.

Installing the system board

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the connectors on your system board.

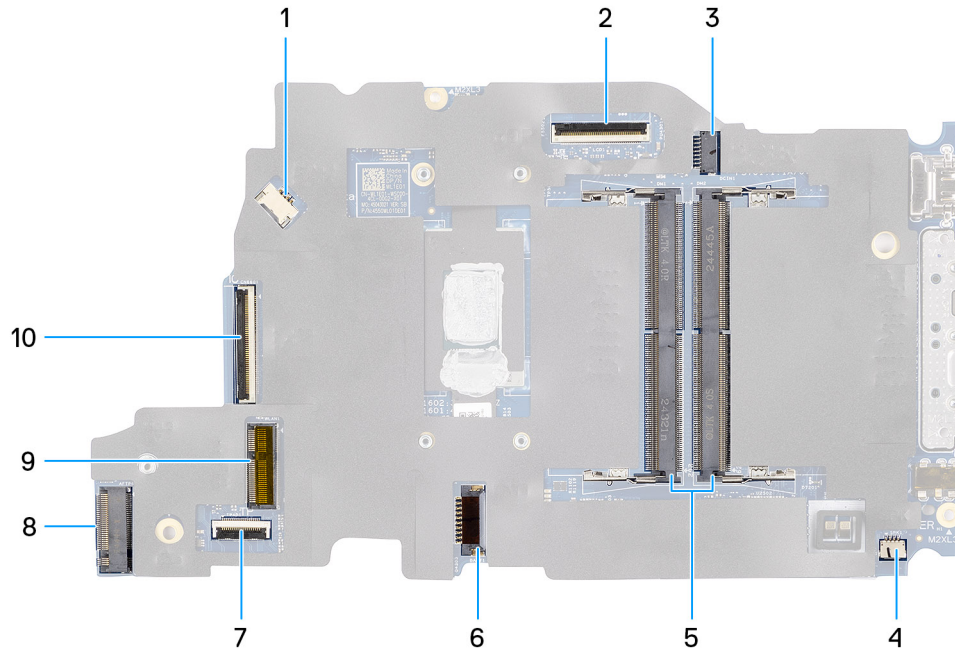
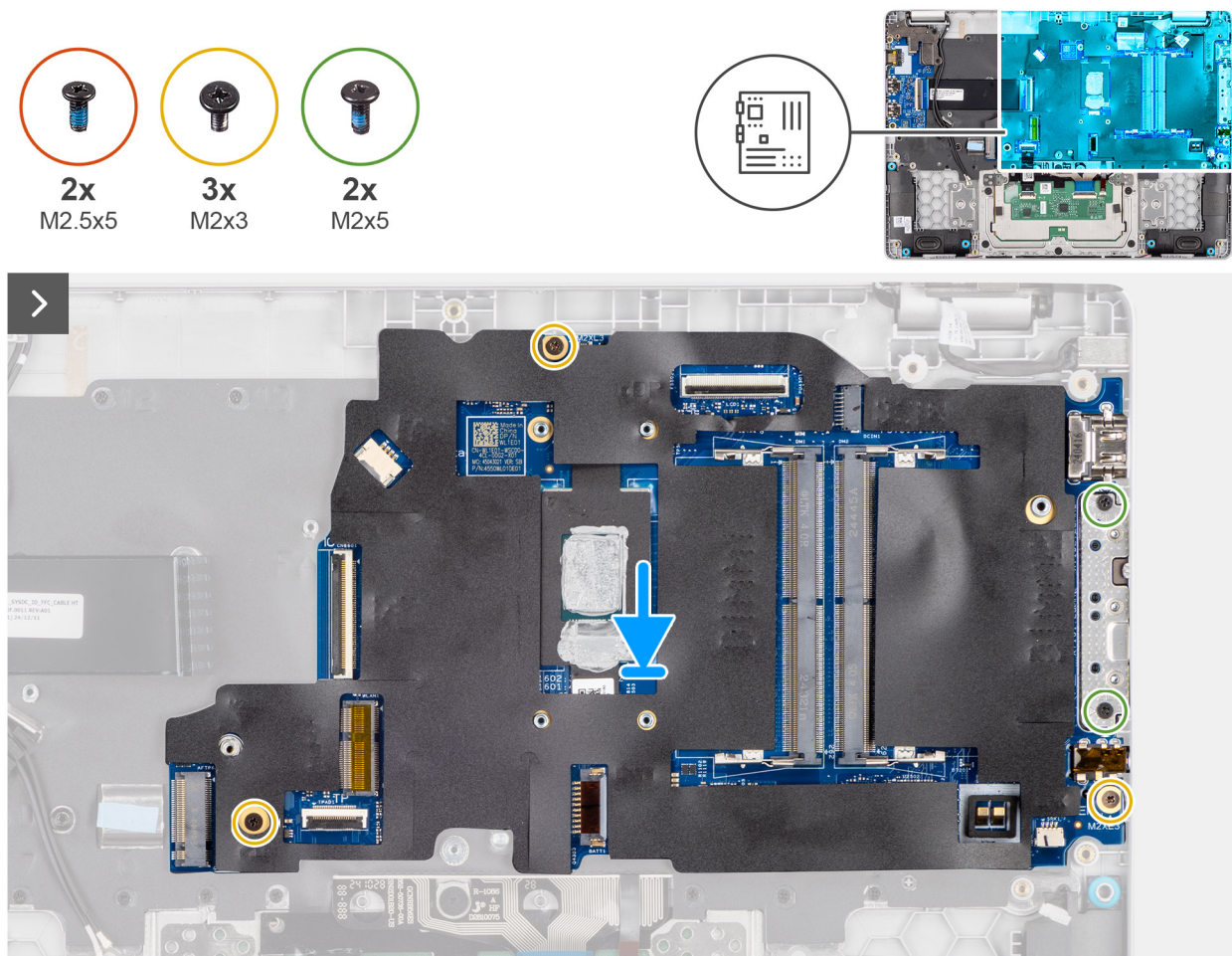


Figure 45. System-board connectors

1. Fan-cable connector (FAN1)
2. Display-cable connector (LCD1)
3. DC-in port connector (DCIN1)
4. Speaker-cable connector (SPK1)
5. Memory-module connectors (DM1 AND DM2)
6. Battery-cable connector (BATT1)
7. Touchpad-cable connector (TPAD1)
8. Wireless-card connector (WLAN1)
9. SSD slot
10. I/O-board cable connector (IO)

The following images indicate the location of the system board and provide a visual representation of the removal procedure.



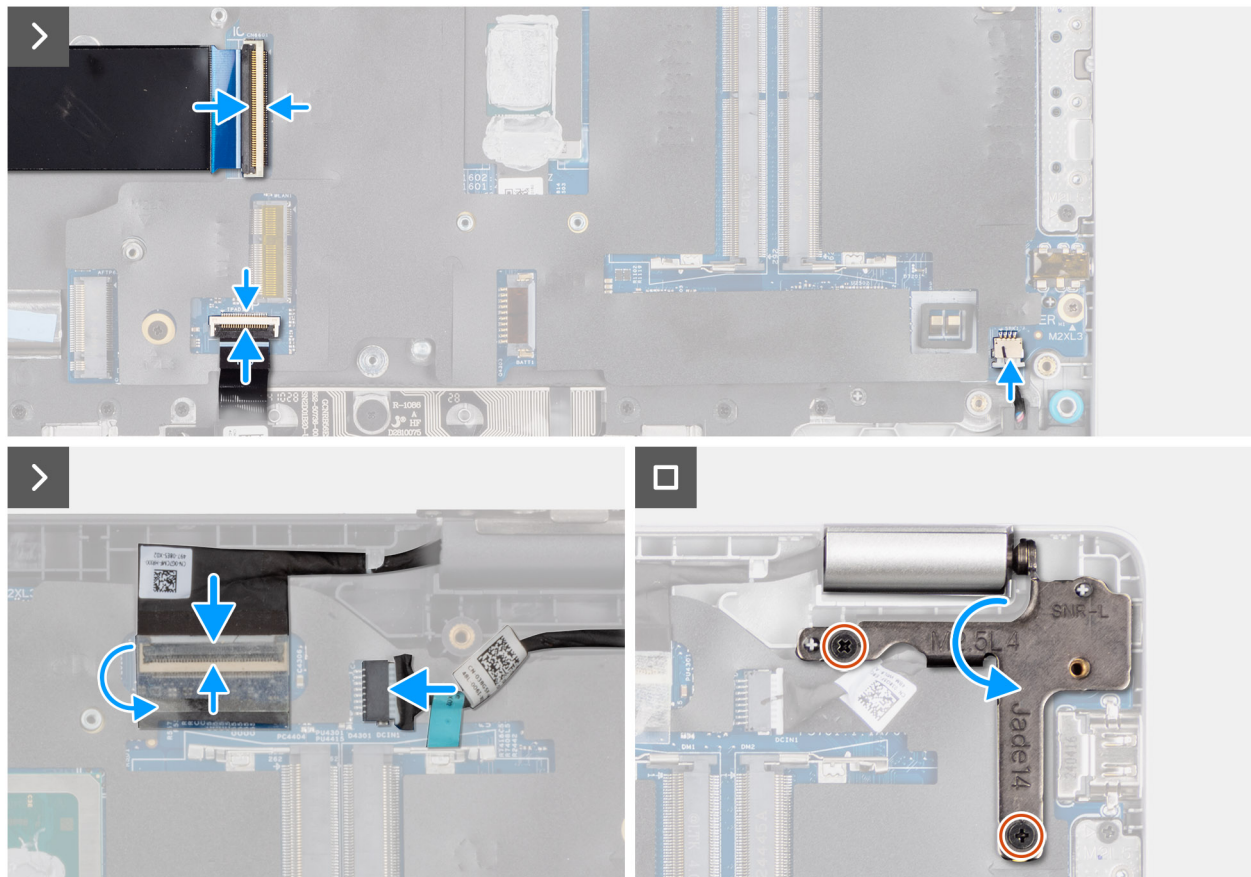


Figure 47. Installing the system board

Steps

1. Align the screw holes on the system board with the screw holes on the palm-rest assembly.
 2. Replace the three screws (M2x3) that secures the system board to the palm-rest assembly.
 3. Replace the two screws (M2x5) that secures the Type-C module to the system board.
 4. Connect the following cables to the respective connectors on the system board:
 - Fan cable
 - I/O-board cable
 - Touchpad cable
 - Speaker cable
 - Display cable (EDP)
 - Power-adapter port cable
 5. Gently press the left display-hinge in a downward direction towards the system board.
 6. Replace the two screws (M2.5x5) that secure the left display-hinge to the palm-rest assembly.
- NOTE:** When replacing the system board, ensure that the USB Type-C module is removed and transferred to the replacement system board.

Next steps

1. Install the [display assembly](#).
2. Install the [heat sink](#).
3. Install the [fan](#).
4. Install the [wireless card](#).
5. Install the [SSD](#).
6. Install the [memory module](#).
7. Install the [battery](#).
8. Install the [base cover](#).

9. Follow the procedure in [After working inside your computer](#).

USB Type-C module

Removing the USB Type-C module

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).
4. Remove the [memory module](#).
5. Remove the [SSD](#).
6. Remove the [wireless card](#).
7. Remove the [fan](#).
8. Remove the [heat sink](#).
9. Remove the [display assembly](#).
10. Remove the [system board](#).

About this task

 **NOTE:** The system board can be removed with the heat sink attached in order to simplify the procedure and preserve the thermal bond between the system board and the heat sink.

The following images indicate the location of the USB Type-C module and provide a visual representation of the removal procedure.

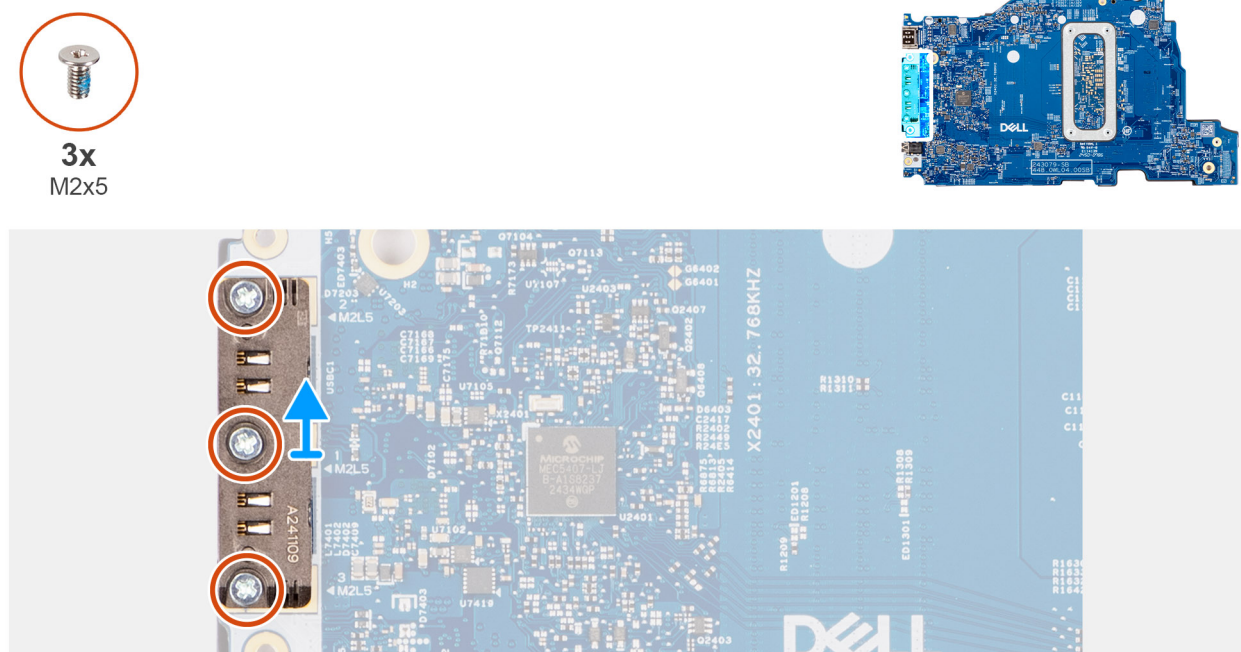


Figure 48. Removing the USB Type-C module

Steps

1. Turn the system board over and remove the three screws (M2x5) that secure the USB Type-C module to the bottom side of the system board.

2. Remove the USB Type-C module from the system board.

Installing the USB Type-C module

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the USB Type-C module and provide a visual representation of the installation procedure.

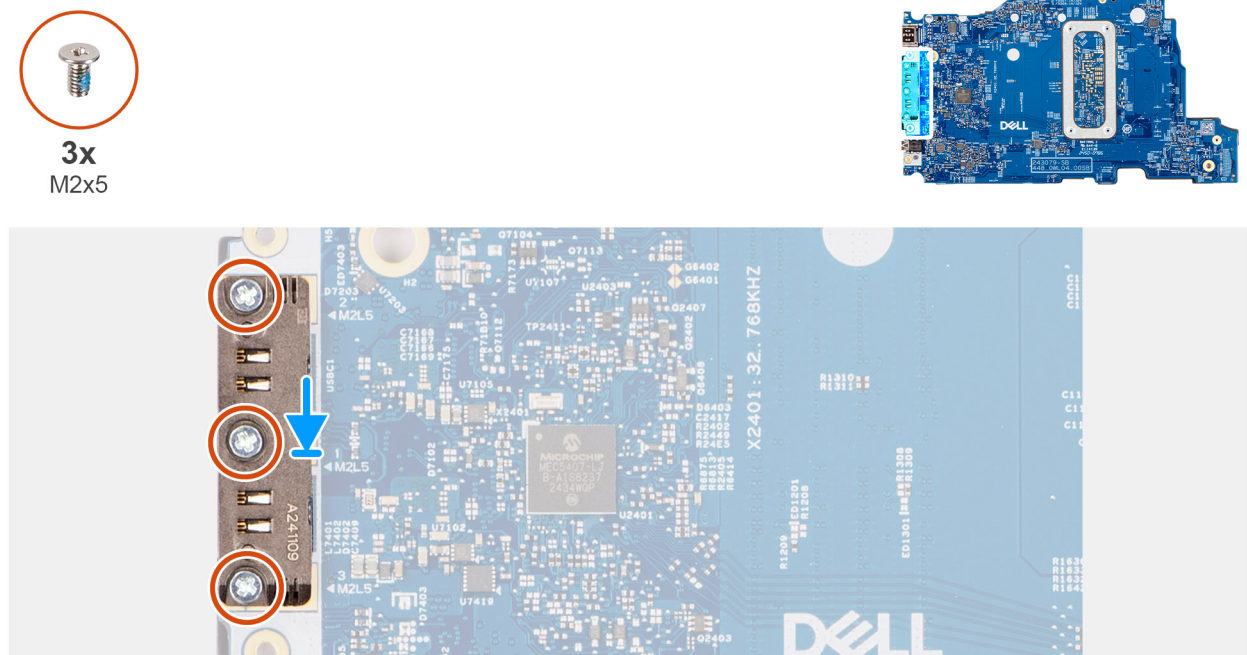


Figure 49. Installing the USB Type-C module

Steps

1. Place the USB Type-C module into the slot on the bottom side of the system board.
2. Replace the three screws (M2x5) that secure the USB Type-C module in place.
3. Turn the system board over.

Next steps

1. Install the [system board](#).
2. Install the [display assembly](#).
3. Install the [heat sink](#).
4. Install the [fan](#).
5. Install the [wireless card](#).
6. Install the [SSD](#).
7. Install the [memory module](#).
8. Install the [battery](#).
9. Install the [base cover](#).
10. Follow the procedure in [After working inside your computer](#).

Keyboard

Removing the keyboard

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).
4. Remove the [memory module](#).
5. Remove the [SSD](#).
6. Remove the [wireless card](#).
7. Remove the [fan](#).
8. Remove the [heat sink](#).
9. Remove the [display assembly](#).
10. Remove the [I/O board](#).
11. Remove the [system board](#).
12. Remove the [power-adaptor port](#).

About this task

 **NOTE:** The system board can be removed with the heat sink attached in order to simplify the procedure and preserve the thermal bond between the system board and the heat sink.

The following images indicate the location of the keyboard and provide a visual representation of the removal procedure.

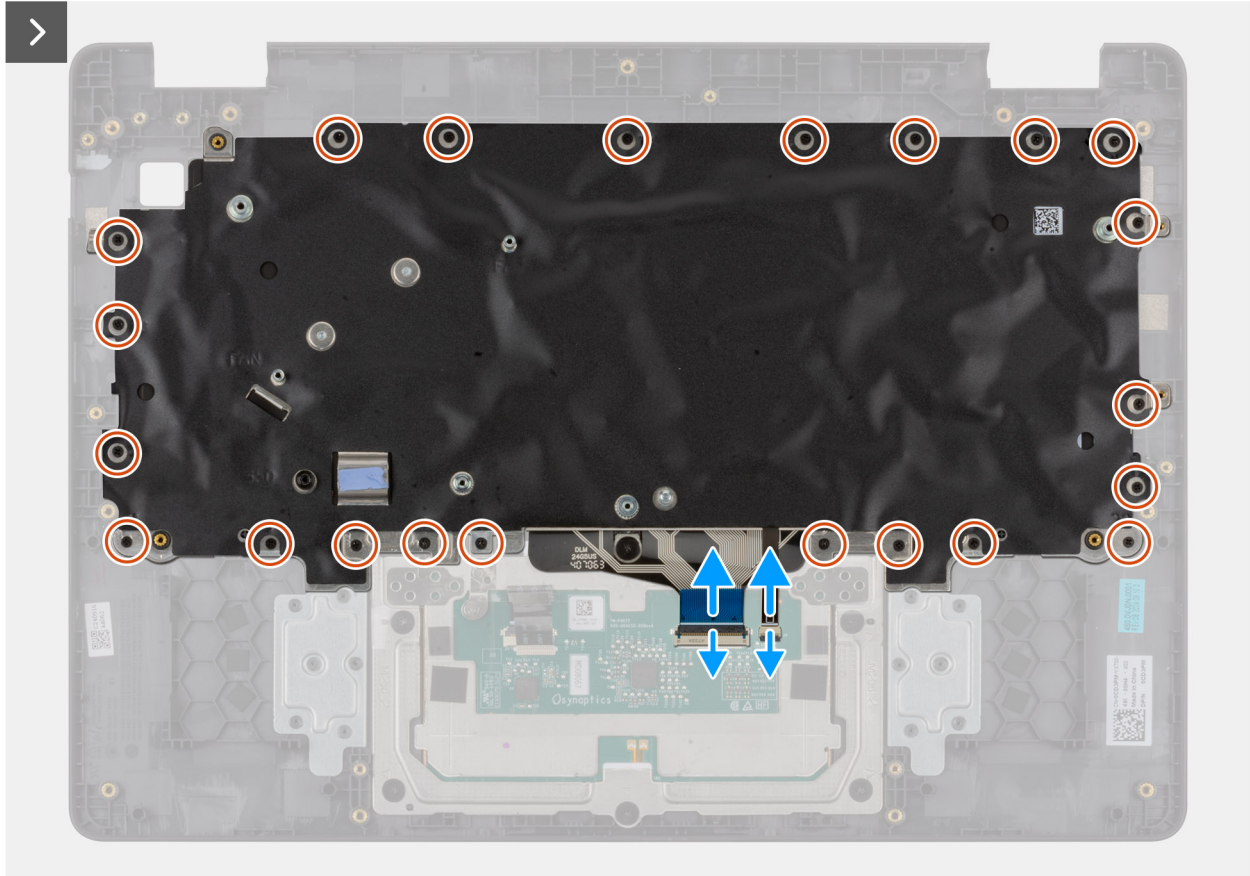
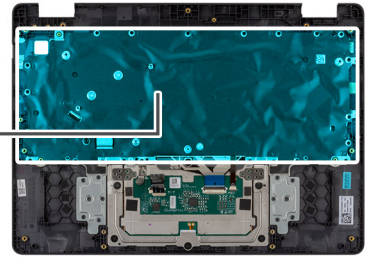


Figure 50. Removing the keyboard

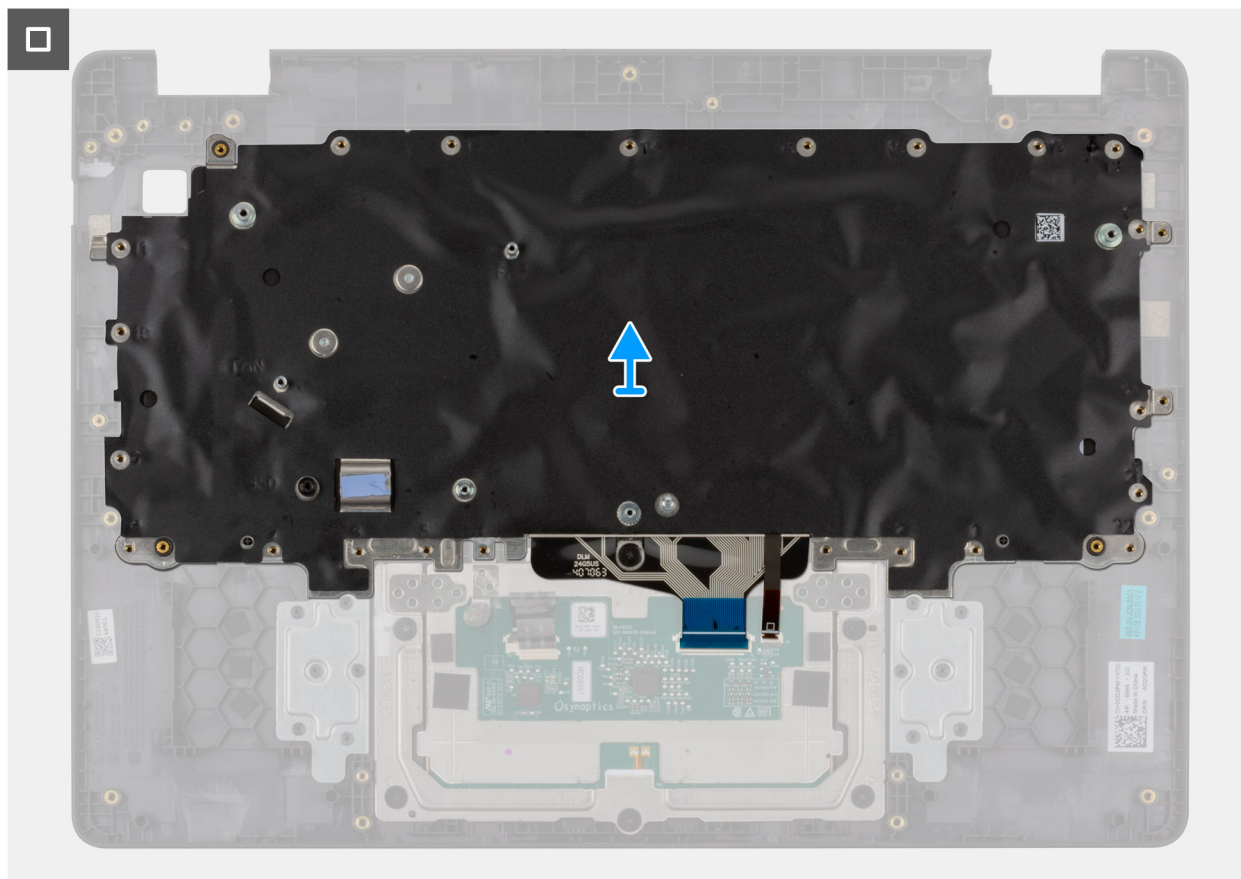


Figure 51. Removing the keyboard



Figure 52. Removing the keyboard

Steps

1. Disconnect the keyboard cable and the keyboard backlit cable from its connector on the touchpad.
2. Remove the 22 screws (M2x2.2) that secure the keyboard to the palm-rest assembly.
3. Lift the keyboard off the palm-rest assembly.

Installing the keyboard

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the keyboard and provide a visual representation of the installation procedure.



Figure 53. Installing the keyboard



22x
M2x2.2

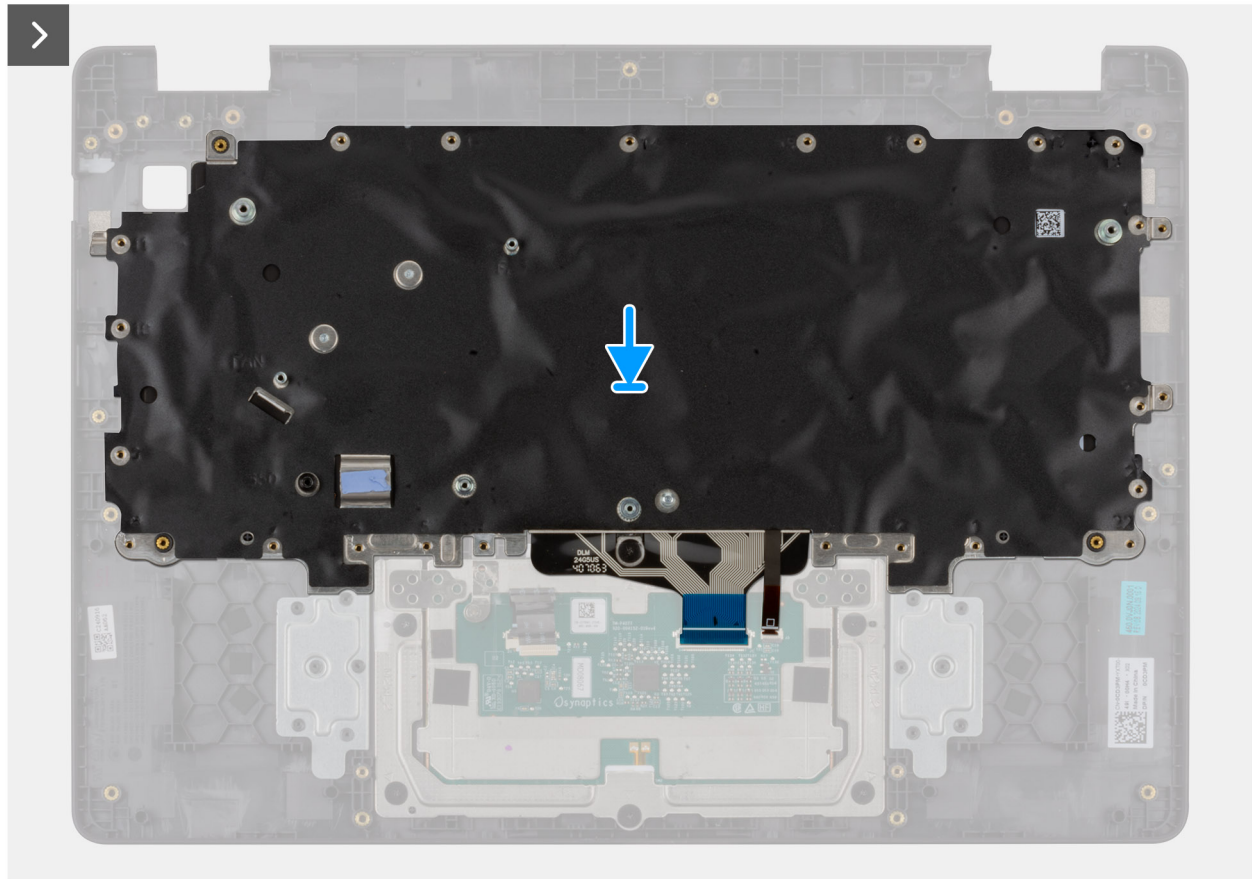
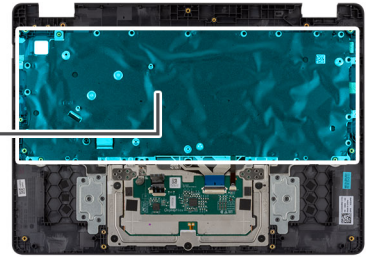


Figure 54. Installing the keyboard

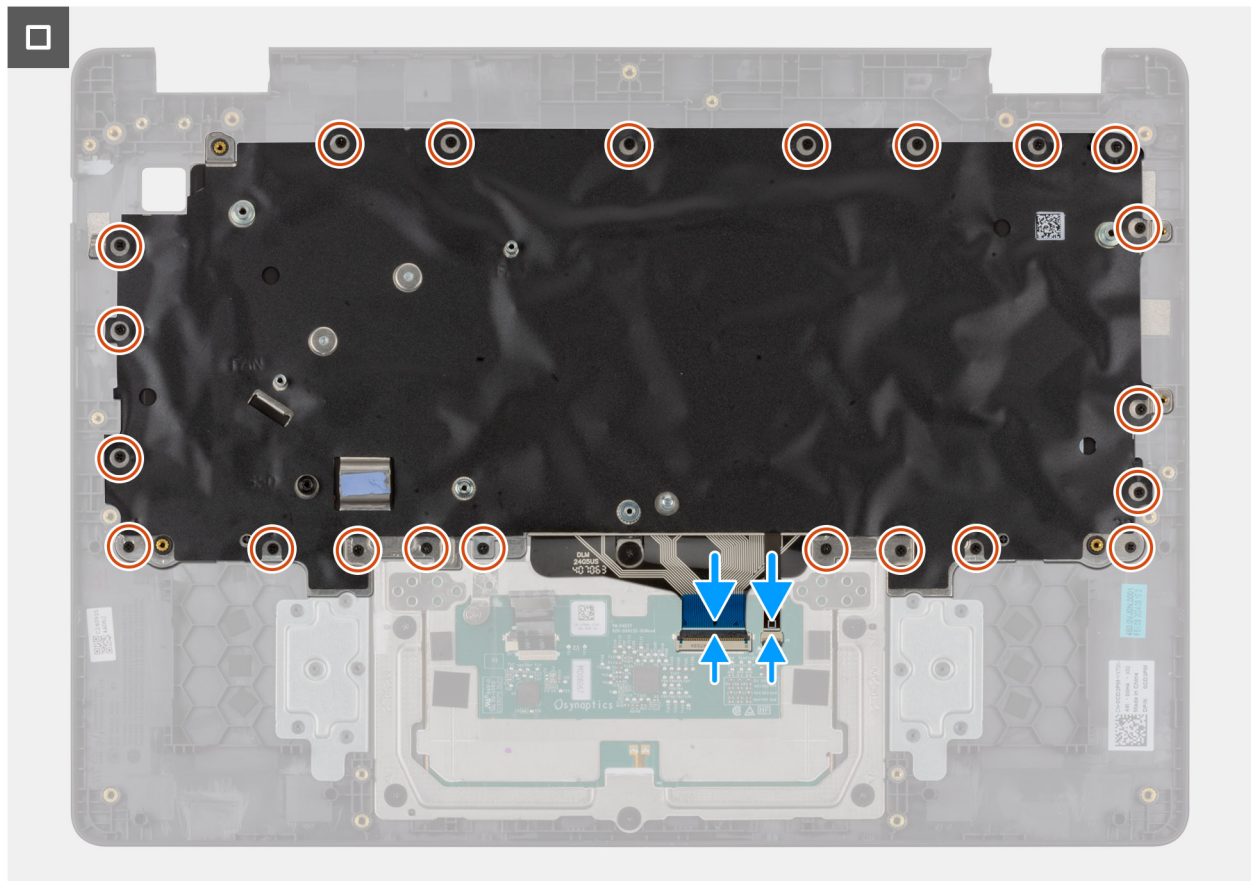


Figure 55. Installing the keyboard

Steps

1. Align the screw holes on the keyboard with the screw holes on the palm-rest assembly.
2. Connect the keyboard cable and the keyboard backlit cable to the connector on the touchpad.
3. Replace the 22 screws (M2x2.2) that secure the keyboard to the palm-rest assembly.

Next steps

1. Install the [power-adaptor port](#).
2. Install the [system board](#).
3. Install the [I/O board](#).
4. Install the [display assembly](#).
5. Install the [heat sink](#).
6. Install the [fan](#).
7. Install the [wireless card](#).
8. Install the [SSD](#).
9. Install the [memory module](#).
10. Install the [battery](#).
11. Install the [base cover](#).
12. Follow the procedure in [After working inside your computer](#).

Keyboard support plate

Removing the keyboard support plate

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).
4. Remove the [memory module](#).
5. Remove the [SSD](#).
6. Remove the [wireless card](#).
7. Remove the [fan](#).
8. Remove the [heat sink](#).
9. Remove the [display assembly](#).
10. Remove the [I/O board](#).
11. Remove the [system board](#).
12. Remove the [power-adapter port](#).
13. Remove the [Keyboard](#).

About this task

 **NOTE:** The system board can be removed with the heat sink attached in order to simplify the procedure and preserve the thermal bond between the system board and the heat sink.

The following images indicate the location of the keyboard support plate and provide a visual representation of the removal procedure.



Figure 56. Removing the keyboard support plate

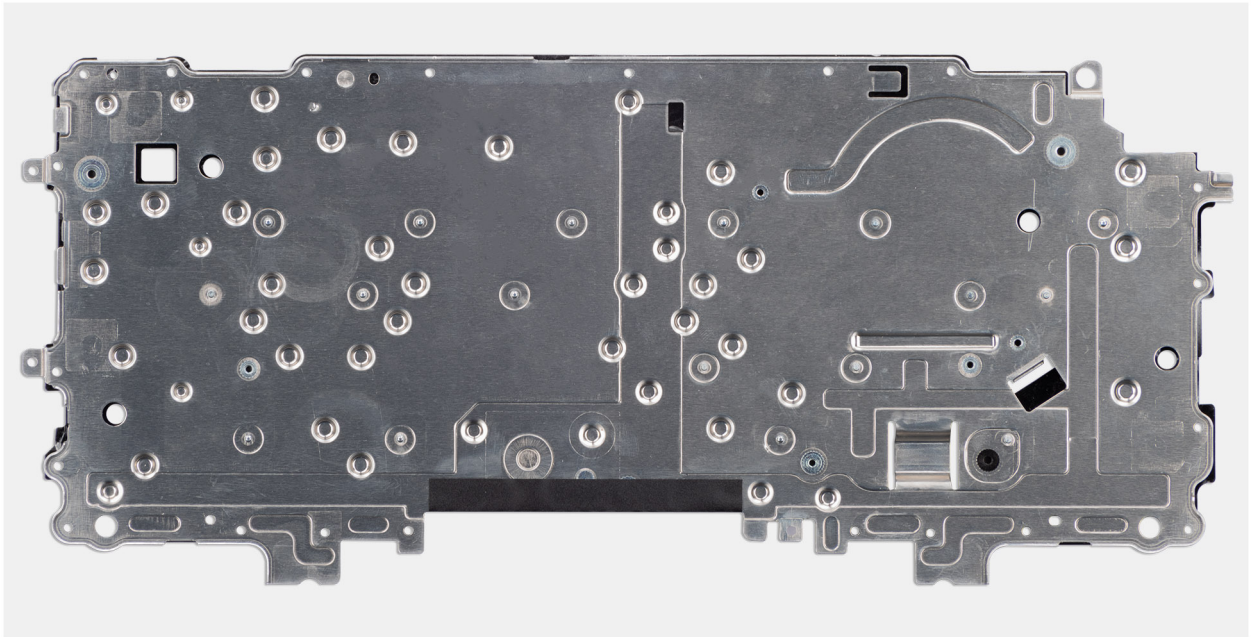


Figure 57. Removing the keyboard support plate

Steps

1. Remove the two (M2x2.2) screws that secure the keyboard to the keyboard support plate.
2. Lift the keyboard support plate off the keyboard.

Installing the keyboard support plate

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the keyboard support plate and provide a visual representation of the removal procedure.

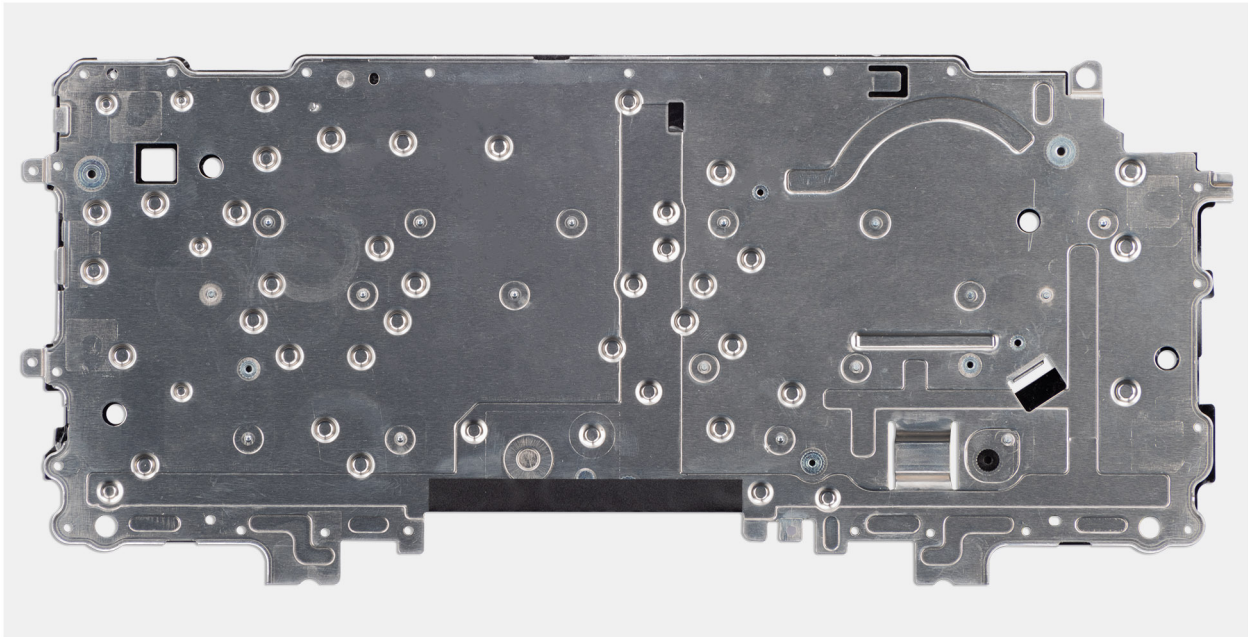


Figure 58. Installing the keyboard support plate



2x
M2x2.2



Figure 59. Installing the keyboard support plate

Steps

1. Align the screw holes on the keyboard with the screw holes on the keyboard support plate.
2. Replace the two (M2x2.2) screws that secure the keyboard to the keyboard support plate.

Next steps

1. Install the [Keyboard](#).

2. Install the [power-adaptor port](#).
3. Install the [system board](#).
4. Install the [I/O board](#).
5. Install the [display assembly](#).
6. Install the [heat sink](#).
7. Install the [fan](#).
8. Install the [wireless card](#).
9. Install the [SSD](#).
10. Install the [memory module](#).
11. Install the [battery](#).
12. Install the [base cover](#).
13. Follow the procedure in [After working inside your computer](#).

Palm-rest assembly

Removing the palm-rest assembly

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [battery](#).
4. Remove the [memory module](#).
5. Remove the [SSD](#).
6. Remove the [wireless card](#).
7. Remove the [fan](#).
8. Remove the [heat sink](#).
9. Remove the [display assembly](#).
10. Remove the [I/O board](#).
11. Remove the [power button](#).
12. Remove the [speakers](#).
13. Remove the [system board](#).
14. Remove the [power-adaptor port](#).
15. Remove the [keyboard](#).

About this task

-  **NOTE:** The system board can be removed with the heat sink attached in order to simplify the procedure and preserve the thermal bond between the system board and the heat sink.
-  **NOTE:** The palm-rest assembly cannot be further disassembled once all the prerequisites are completed. The touchpad is part of the palm-rest assembly. If the touchpad is malfunctioning and needs to be replaced, the entire palm-rest assembly must be replaced.

The image below shows the palm-rest assembly after the prerequisites have been completed. After performing the steps mentioned in the prerequisites, you are left with the palm-rest assembly.

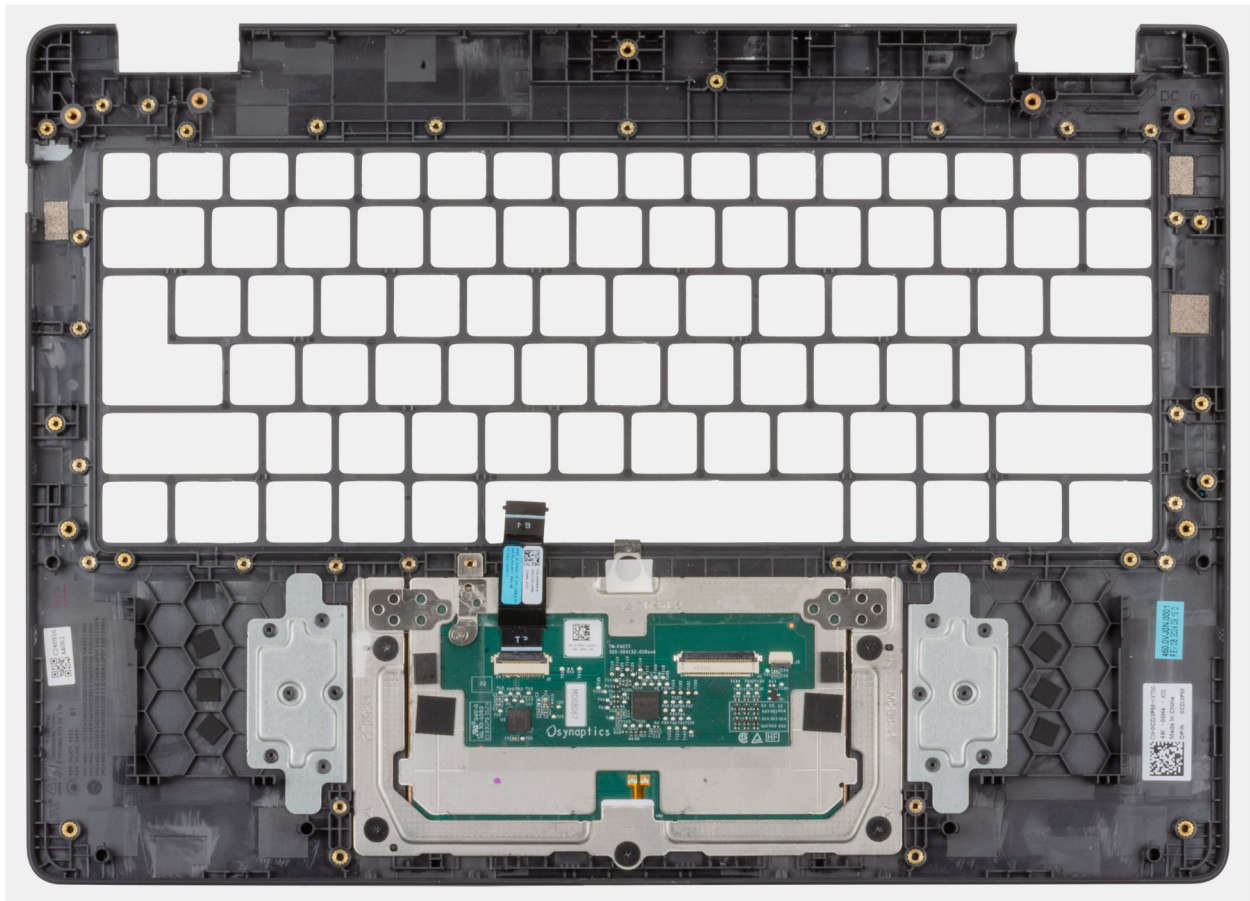


Figure 60. Removing the palm-rest and assembly

Installing the palm-rest assembly

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image shows the palm-rest assembly.

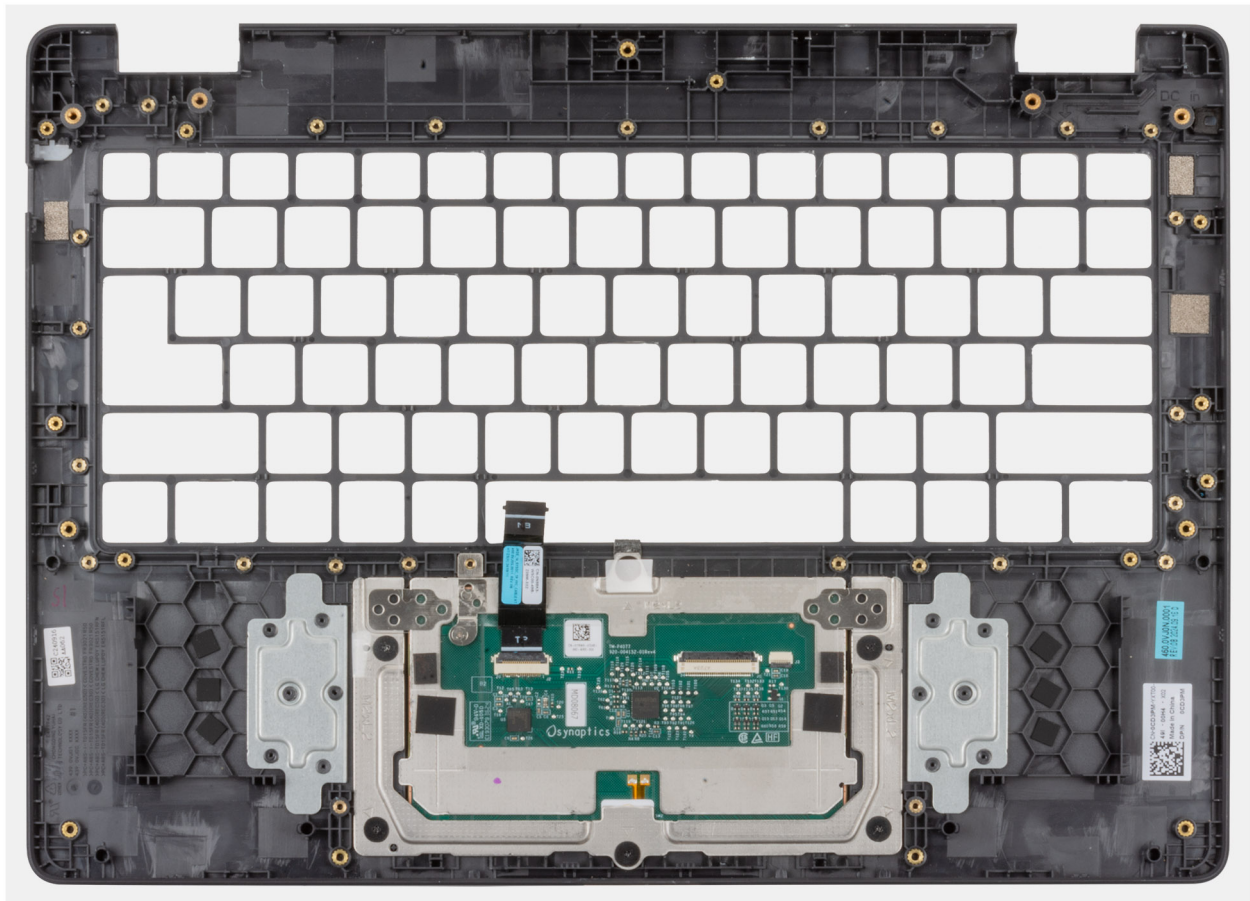


Figure 61. Installing the palm-rest assembly

Steps

Place the palm-rest assembly on a flat surface.

NOTE: The touchpad is part of the palm-rest assembly.

Next steps

1. Install the [keyboard](#).
2. Install the [power-adapter port](#).
3. Install the [system board](#).
4. Install the [speakers](#).
5. Install the [power button](#).
6. Install the [I/O board](#).
7. Install the [display assembly](#).
8. Install the [heat sink](#).
9. Install the [fan](#).
10. Install the [wireless card](#).
11. Install the [SSD](#).
12. Install the [memory module](#).
13. Install the [battery](#).
14. Install the [base cover](#).
15. Follow the procedure in [After working inside your computer](#).

Display assembly

Removing the display assembly

 **CAUTION:** The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [wireless card](#).

About this task

 **NOTE:** The display assembly is not a standalone serviceable component. It must be removed as a prerequisite to access and service the following components:

- Display bezel
- Display-panel assembly
- Camera
- eDP cable
- Display back-cover assembly

The following images indicate the location of the display assembly and provide a visual representation of the removal procedure.



4x
M2.5x5

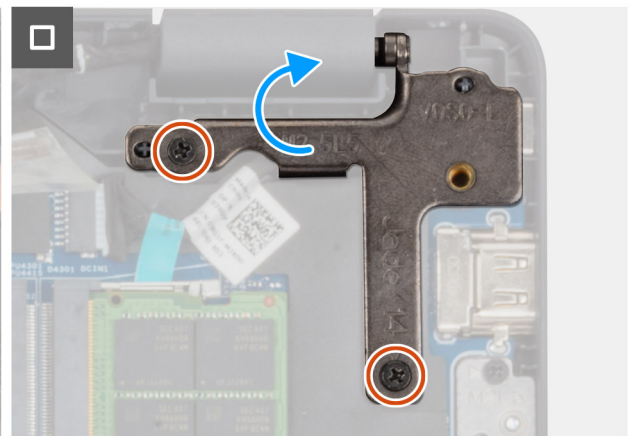
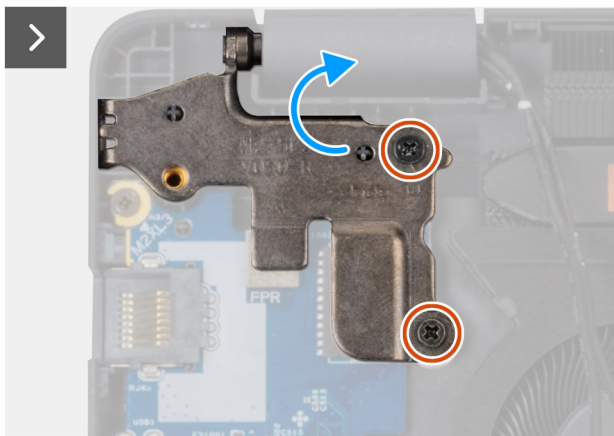
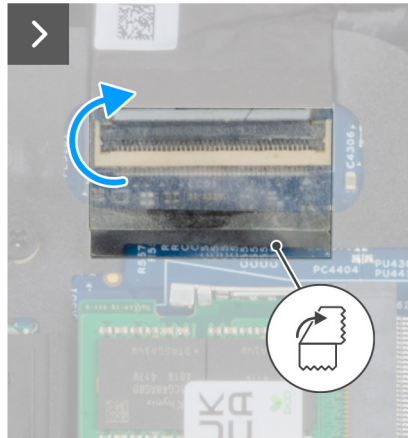
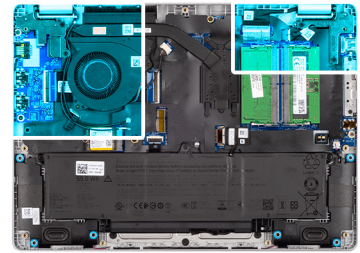


Figure 62. Removing the display assembly

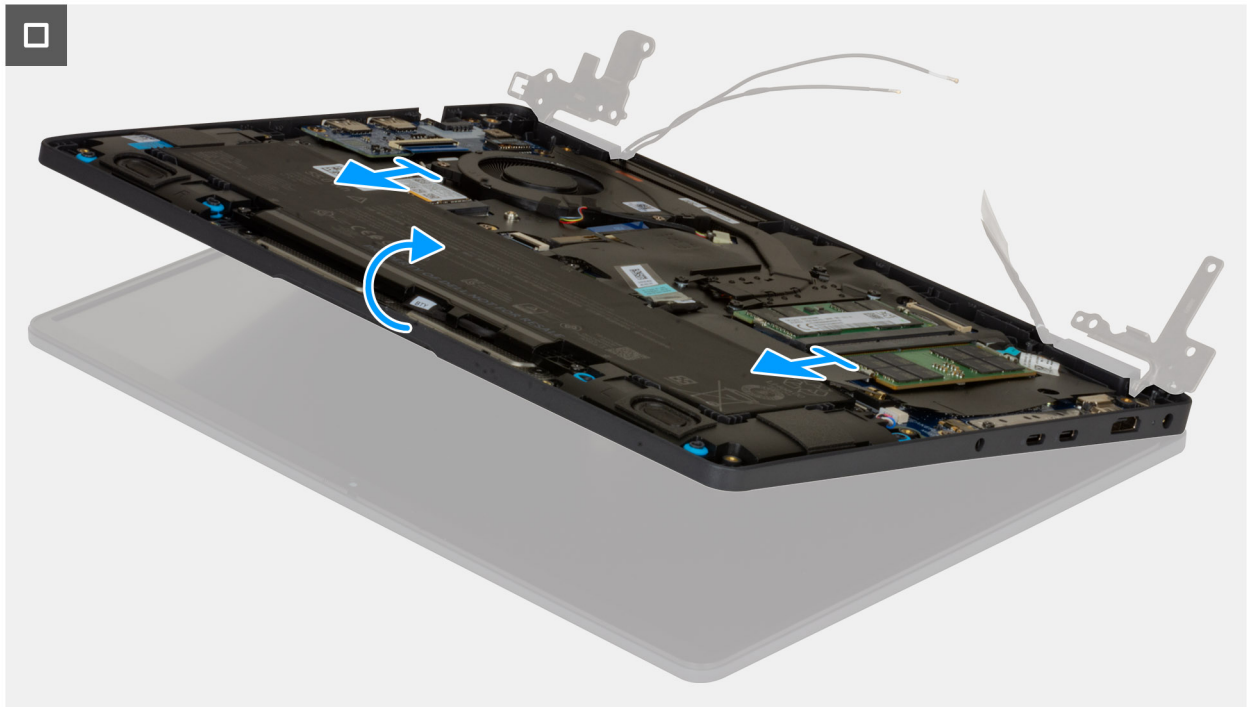


Figure 63. Removing the display assembly



Figure 64. Removing the display assembly

Steps

1. Place the system on a flat surface such that the palm-rest and keyboard assembly lies flat on the surface.

2. Unroute the WLAN antenna cables from the routing guides on the fan.
3. Peel away the mylar that secures the display cable to the system board.
4. Open the latch and disconnect the display cable from the connector (LCD1) on the system board.
5. Remove the four screws (M2.5x5) that secure the display hinges to the palm-rest and keyboard assembly.
6. Lift the left and right hinges in an upward direction, away from the computer.
7. Lift the palm-rest assembly at an angle and remove it from the display assembly.

Installing the display assembly

 **CAUTION:** The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

 **NOTE:** Ensure that the hinges are opened to the maximum before replacing the display assembly on the palm-rest and keyboard assembly.

The following images indicate the location of the display assembly and provide a visual representation of the installation procedure.

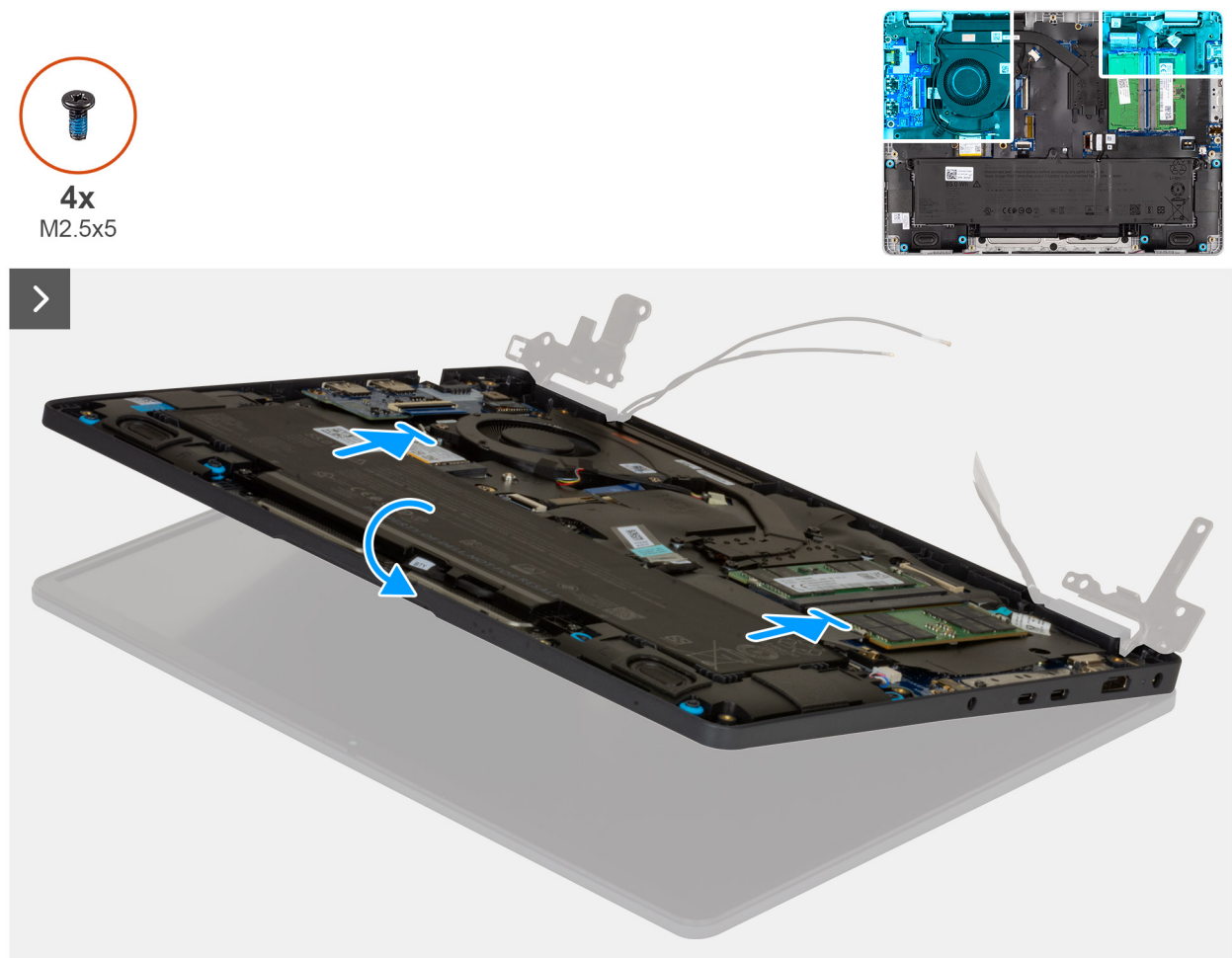


Figure 65. Installing the display assembly

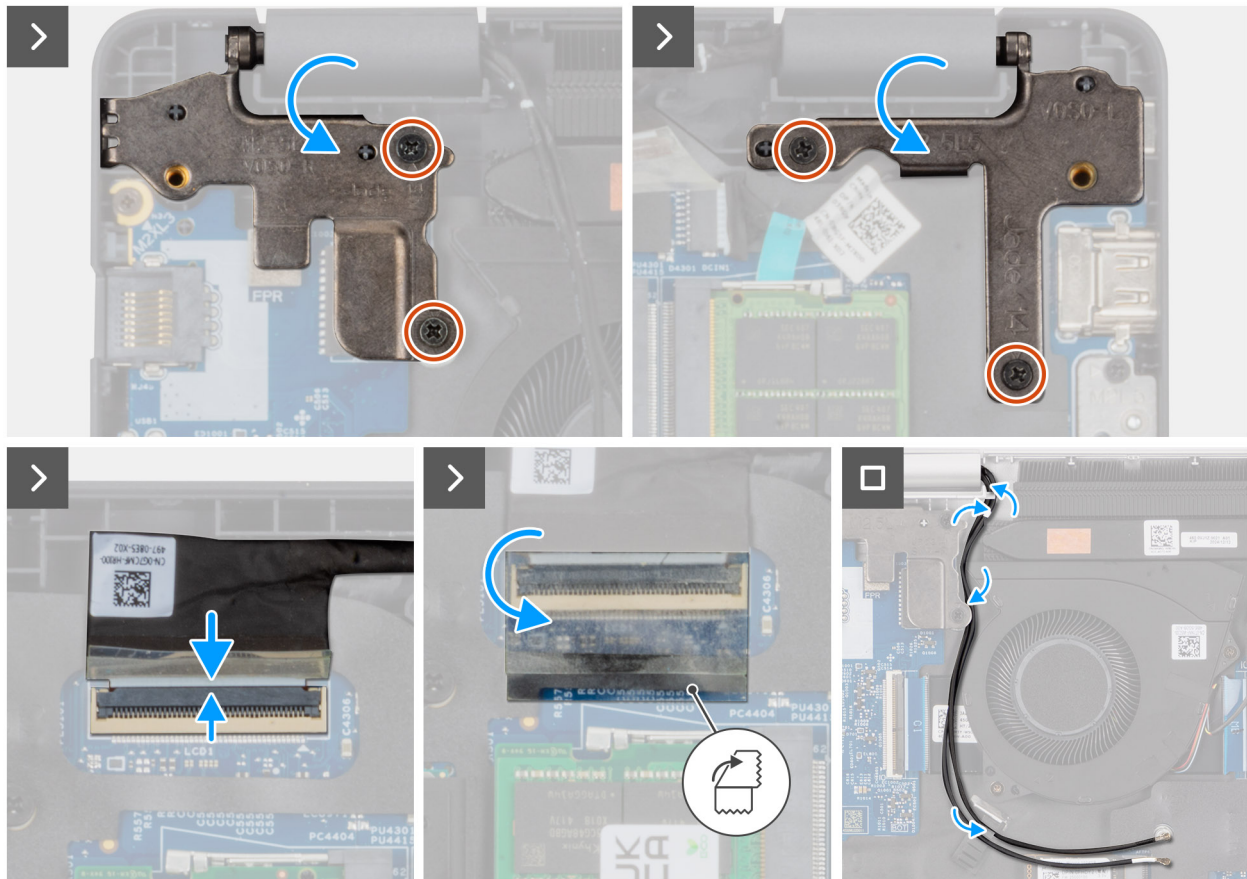


Figure 66. Installing the display assembly

Steps

1. Place the display assembly on a flat surface.
2. Slide the palm-rest keyboard assembly under the hinges of the display assembly.
3. Gently press down on the display hinges and align the screw holes on the display hinges with the screw holes on the palm-rest and keyboard assembly.
4. Replace the four screws (M2.5x5) that secure the display hinges to the palm-rest and keyboard assembly.
5. Open the latch and connect the display cable to its connector (LCD1) on the system board.
6. Adhere the mylar that secures the display cable to the system board.
7. Route the WLAN-antenna cables through the routing guides on the fan.

Next steps

1. Install the [wireless card](#).
2. Install the [base cover](#).
3. Follow the procedure in [After working inside your computer](#).

Display bezel

Removing the display bezel

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).

2. Remove the [base cover](#).
3. Remove the [display assembly](#).

About this task

The following images indicate the location of the display bezel and provide a visual representation of the removal procedure.

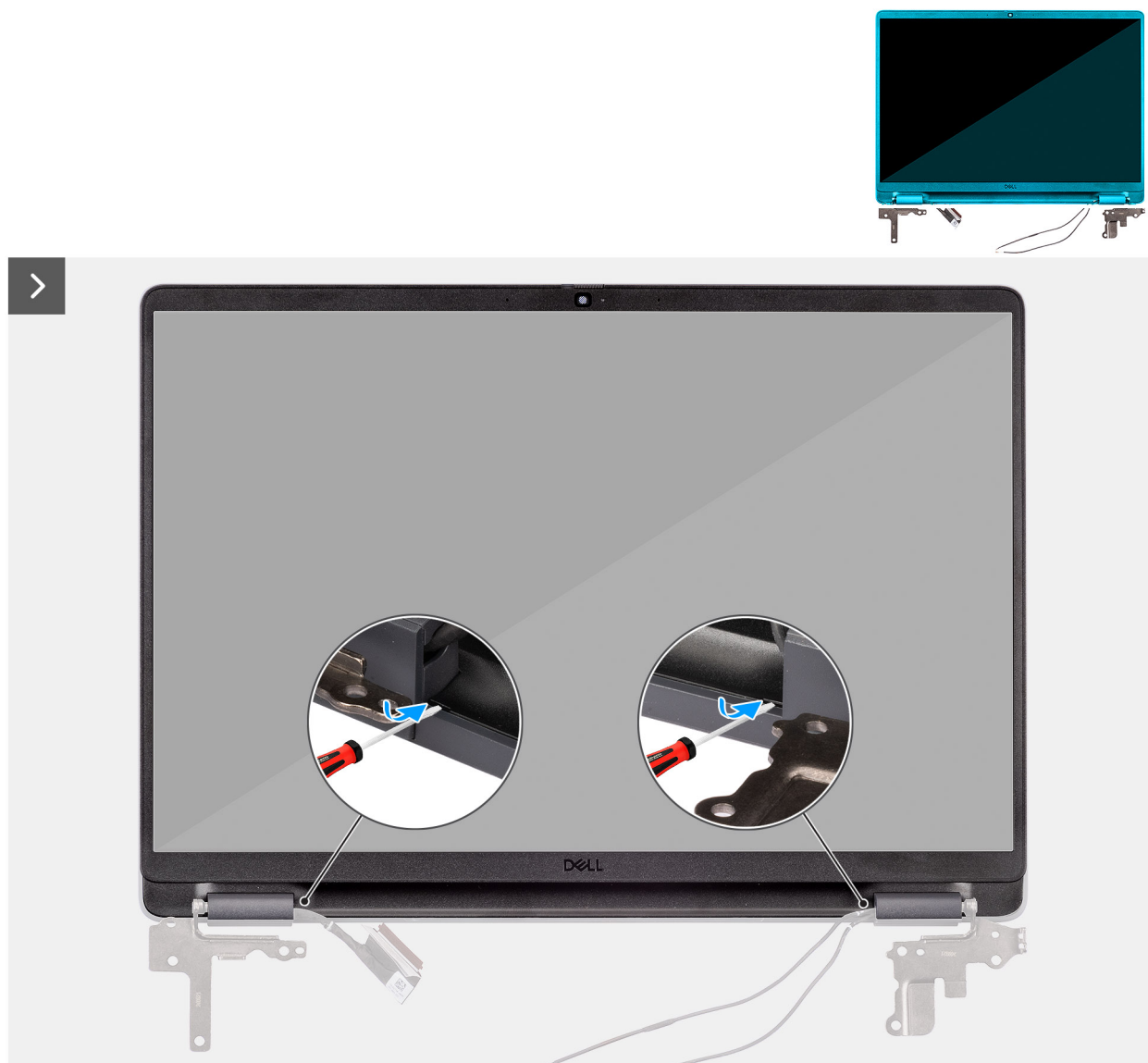


Figure 67. Removing the display bezel



Figure 68. Removing the display bezel

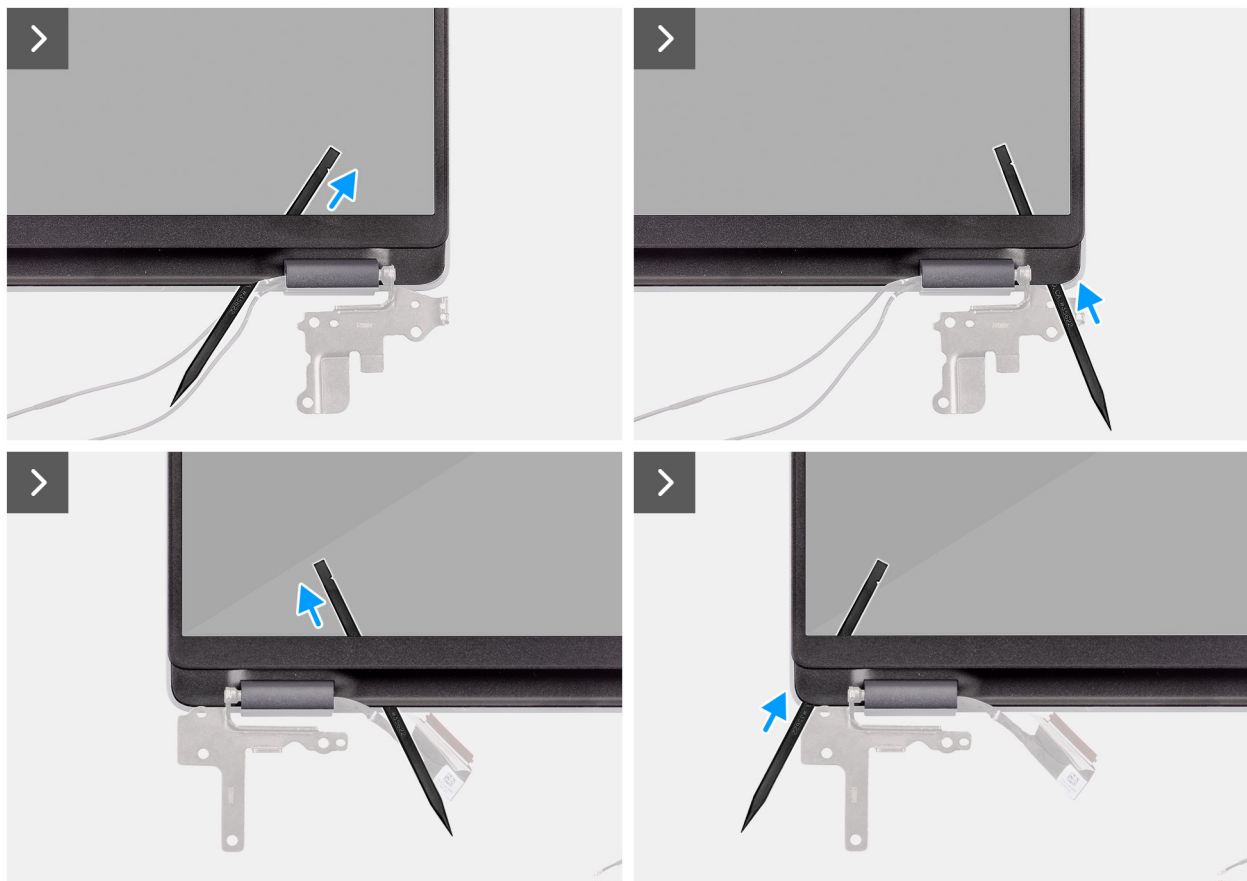


Figure 69. Removing the display bezel

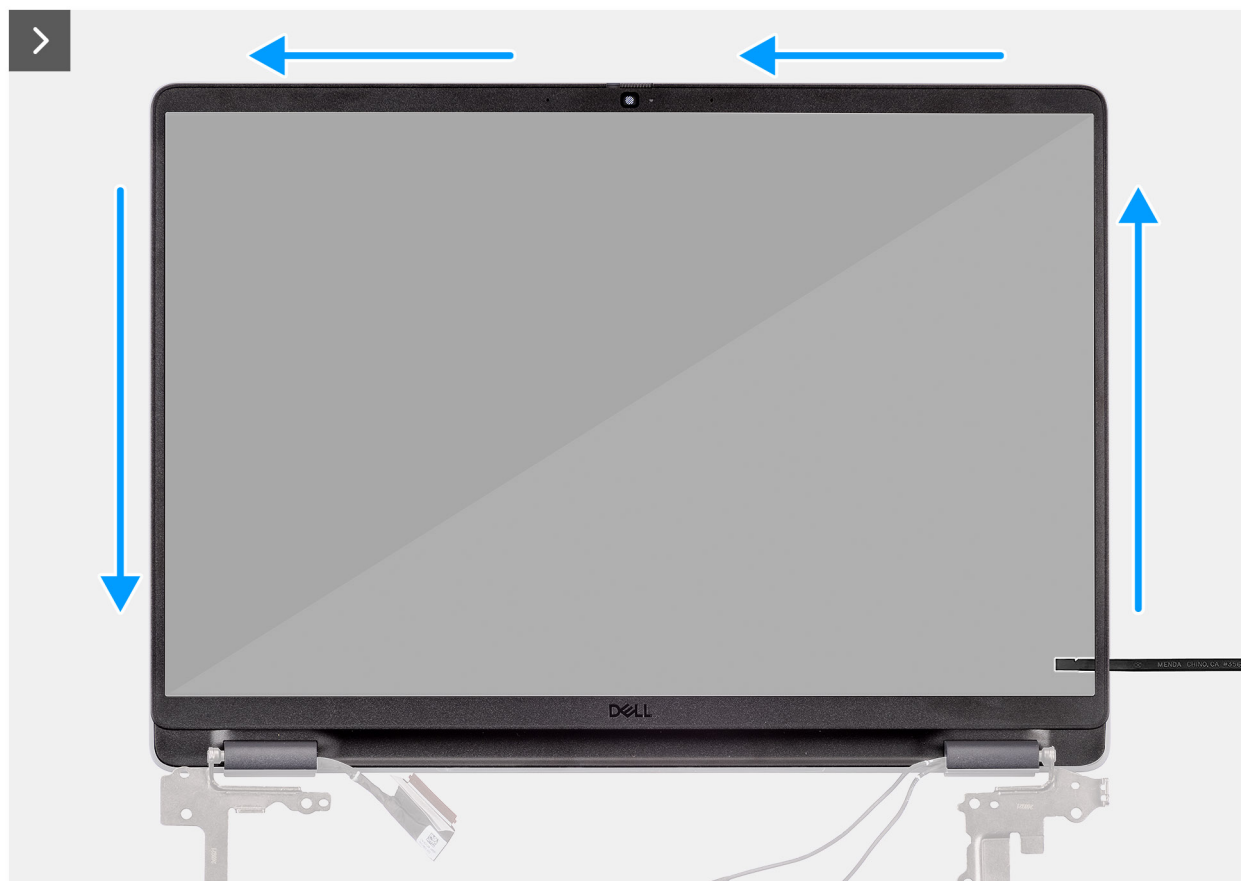


Figure 70. Removing the display bezel

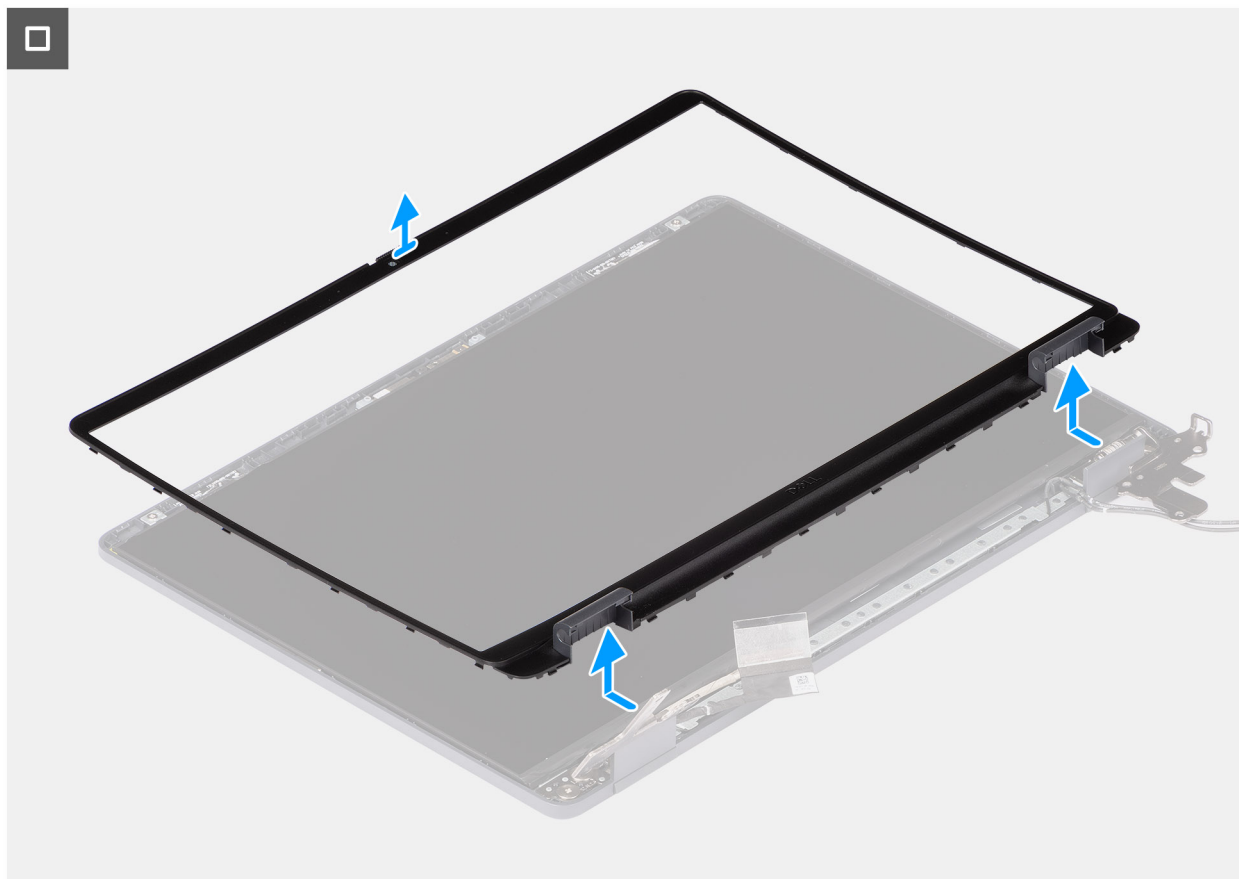


Figure 71. Removing the display bezel

Steps

1. Insert a flat-head screwdriver (maximum width: 4 mm) into the slots on the display bezel near the hinges, and gently apply pressure to release the bezel at both ends, creating a gap.
2. Insert the flat end of the scribe into the gap created under the display bezel.

NOTE: Do not use the flat head screwdriver to pry up the rest of the bezel. Instead, use the flat end of a plastic scribe to continue prying along the bezel.

CAUTION: When inserting the scribe into the bezel, keep it parallel to the display. Pressing it downward can damage the display.

3. Keeping the scribe parallel to the display, carefully slide it along the bottom edge of the bezel to release the latches on the lower side.
4. Insert the scribe diagonally into the hinge section to carefully release the adhesive near the portion of the bezel above the hinge.

CAUTION: Do not lift the scribe vertically as it damages the screen. Slide the scribe horizontally to disengage the adhesive and pry the bezel upwards.

5. Insert the scribe into the corner of the display bezel near the hinge. Keeping the scribe parallel to the display, carefully slide the scribe along the edges from one corner to the other (right to left or left to right).
6. Lift the display bezel from the display assembly.

Installing the display bezel

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the display bezel and provide a visual representation of the installation procedure.

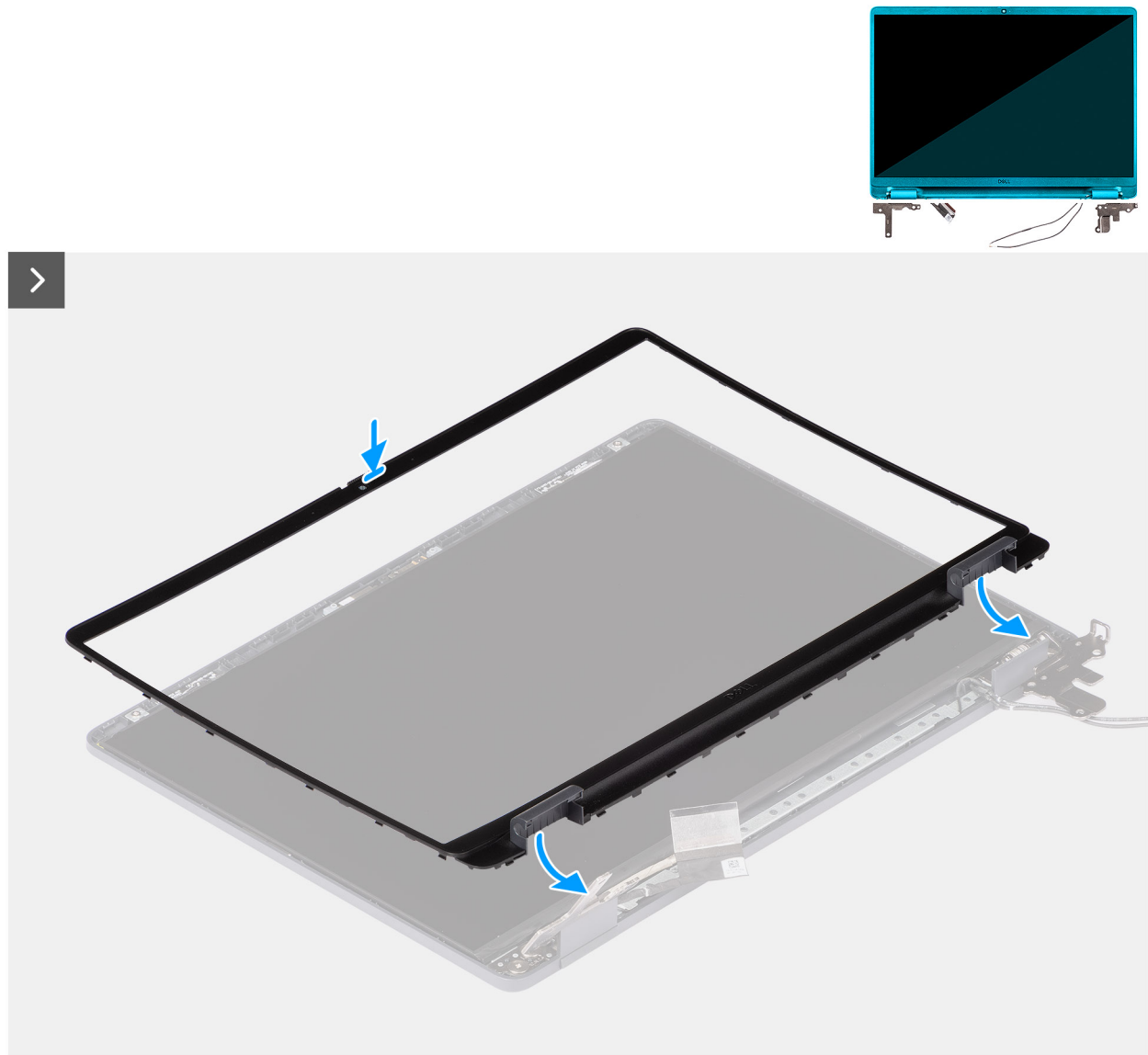


Figure 72. Installing the display bezel

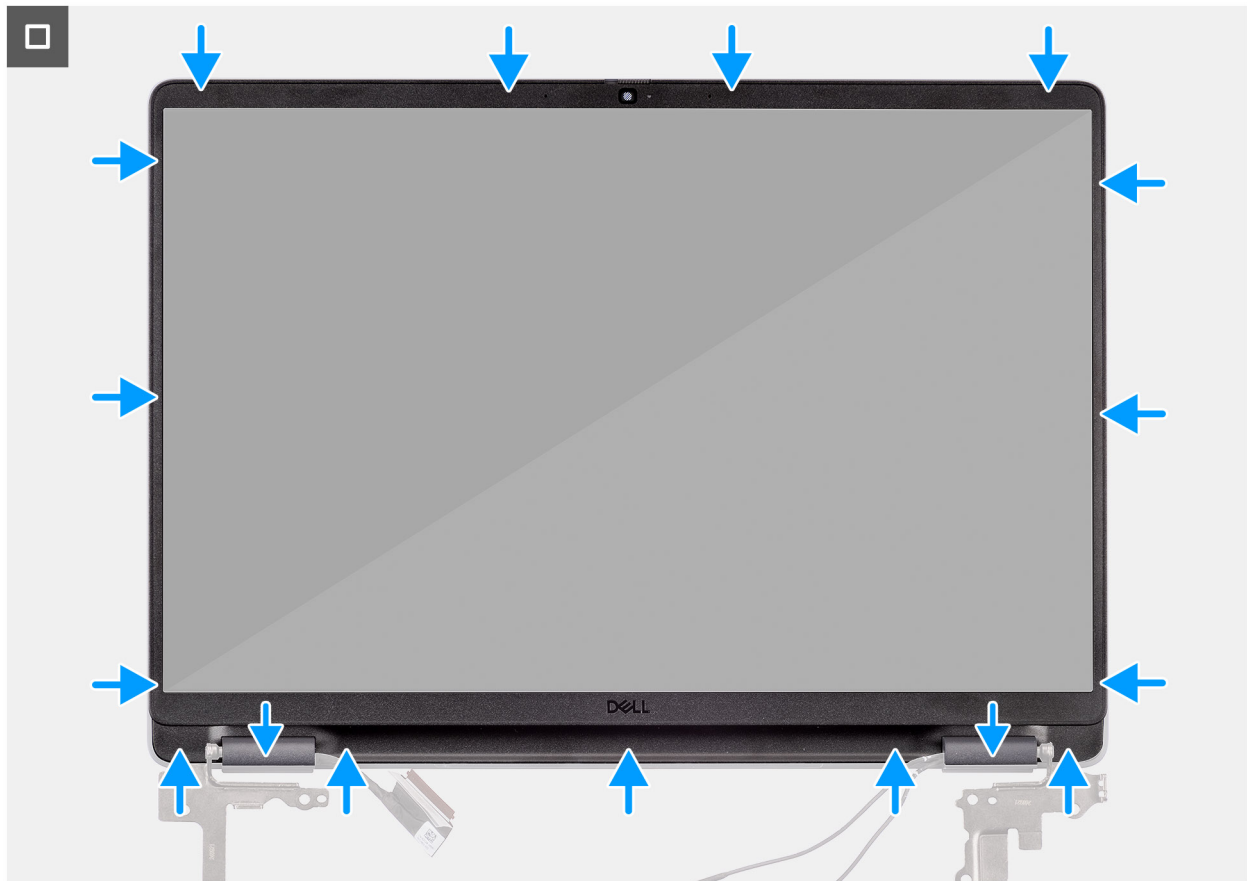


Figure 73. Installing the display bezel

Steps

NOTE: The holding tape secures the camera shutter to the replacement display bezel.

CAUTION: To avoid accidental removal or damage to the camera shutter on the replacement display bezel, avoid peeling off the holding tape abruptly.

1. Align and place the display bezel on the display assembly.
2. Gently press along the edges of the display bezel to secure it with the clips on the display assembly.

Next steps

1. Install the [display assembly](#).
2. Install the [base cover](#).
3. Follow the procedure in [After working inside your computer](#).

Display-panel assembly

Removing the display-panel assembly

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).

3. Remove the [display assembly](#).
4. Remove the [display bezel](#).

About this task

The following images indicate the location of the display-panel assembly and provide a visual representation of the removal procedure.

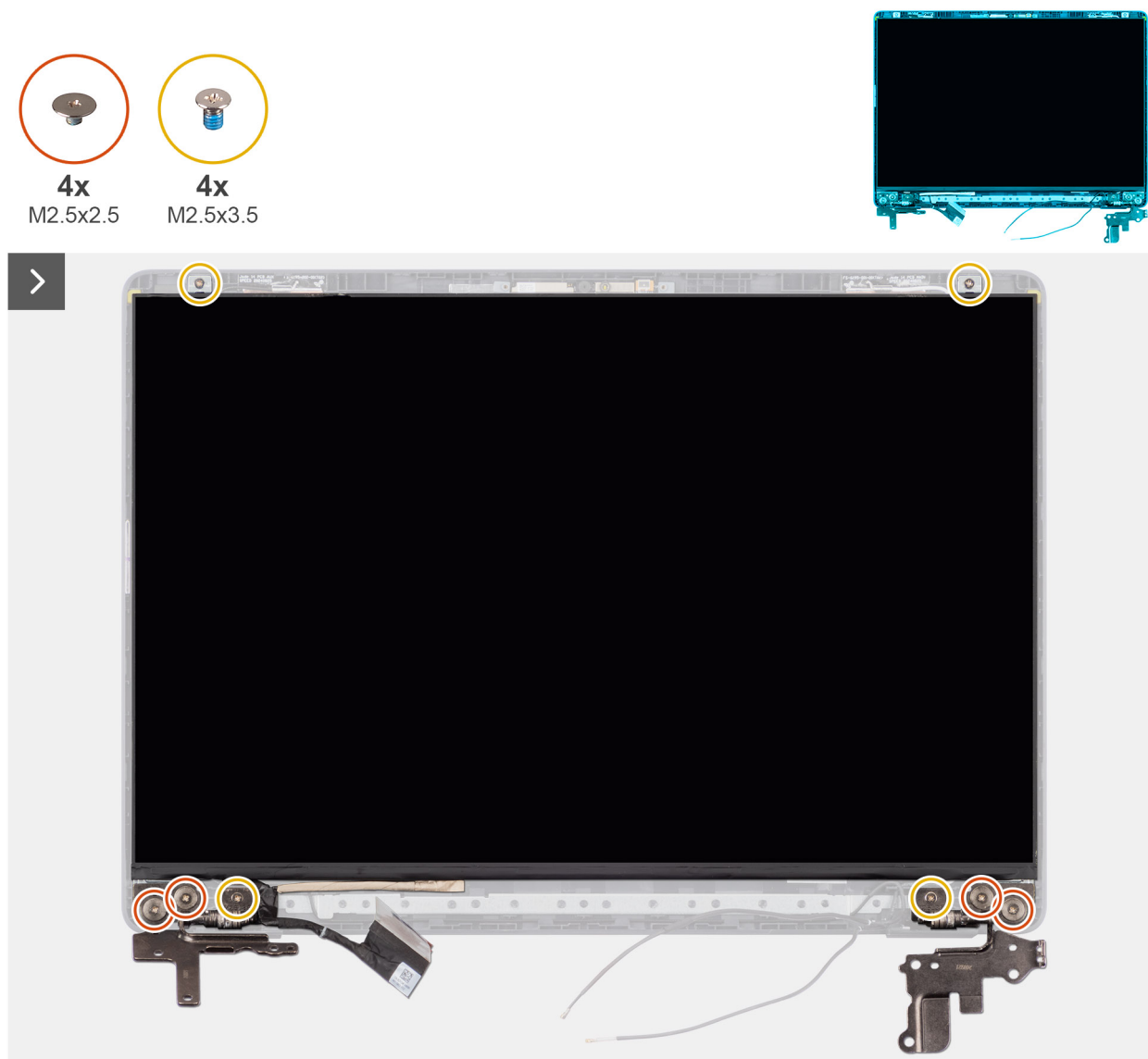


Figure 74. Removing the display-panel assembly



Figure 75. Removing the display-panel assembly



Figure 76. Removing the display-panel assembly



Figure 77. Removing the display-panel assembly

Steps

- i** **NOTE:** The display-panel assembly is preassembled with the display brackets as a single service part. Do not pull the Stretch Release tapes and separate the brackets from the display-panel.



1. Remove the four (M2.5x2.5) screws and four (M2.5x3.5) screws that secure the left and right hinges to the display back cover.

NOTE: While removing the display-panel assembly, disengage the display-panel tabs from the display cover before flipping it over.

2. Lift the lower portion of the LCD panel, slide it downwards, and then flip the panel over to access the display cable.
3. Peel the conductive tape on the display-cable connector.
4. Open the latch and disconnect the cable from the connector (LCD1) on the display-panel.
5. Lift the display-panel assembly away from the display back cover.

Installing the display-panel assembly

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following images indicate the location of the display-panel and provide a visual representation of the installation procedure.

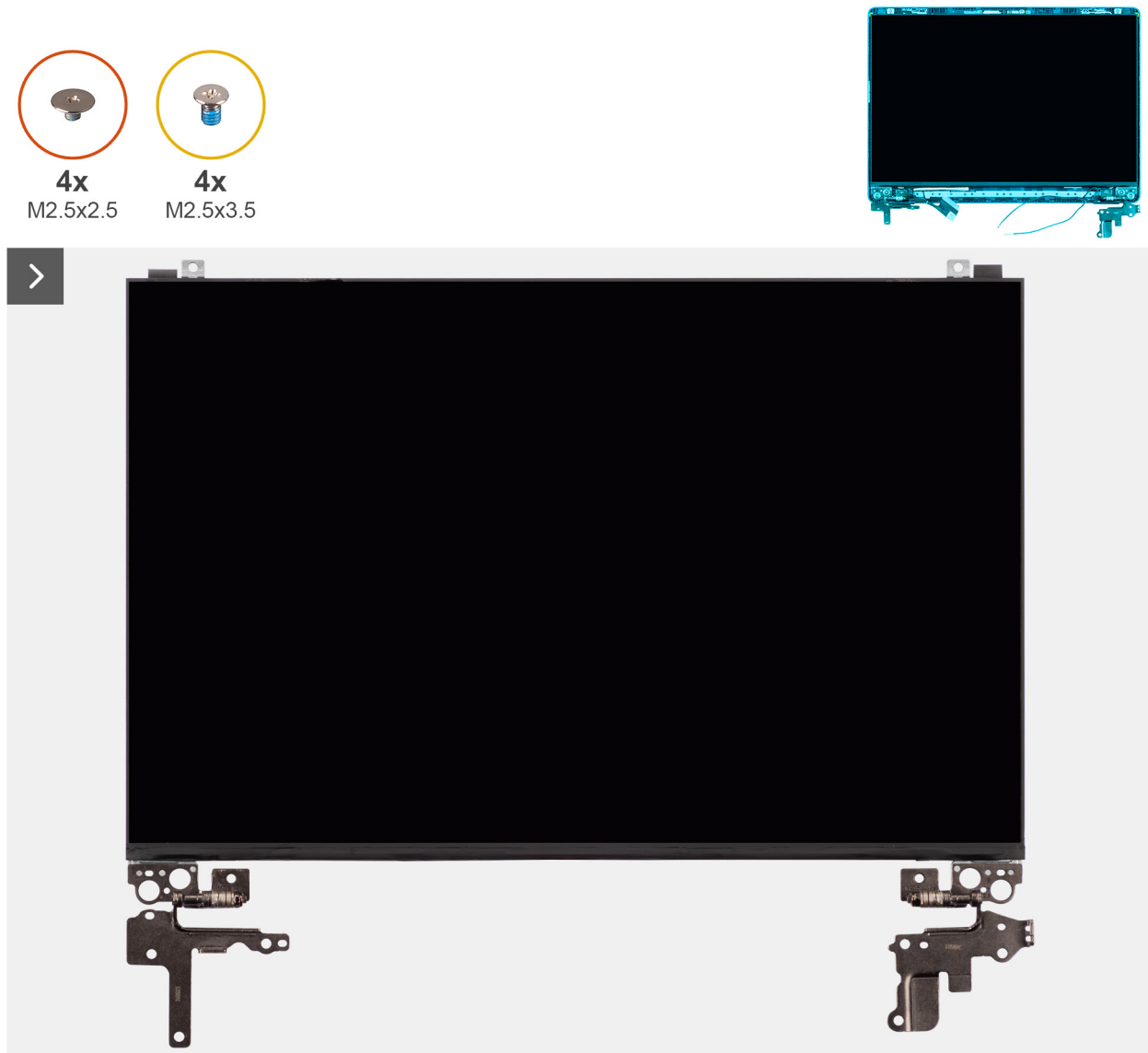


Figure 78. Installing the display-panel assembly



Figure 79. Installing the display-panel assembly



Figure 80. Installing the display-panel assembly



Figure 81. Installing the display-panel assembly

Steps

NOTE: The display-panel assembly is preassembled with the display brackets as a single service part. Do not pull the Stretch Release tapes to separate the brackets from the display-panel.

1. Place the display-panel assembly on a flat and clean surface.
2. Connect the display cable to the connector (LCD1) on the display-panel assembly and close the latch.
3. Adhere the conductive tape to secure the display cable to the display-panel assembly.
4. Insert the display-panel assembly tabs into the slots on the display cover.
5. Replace the four (M2.5x2.5) screws and four (M2.5x3.5) screws to secure the display-panel assembly to the display back cover.

Next steps

1. Install the [display bezel](#).
2. Install the [display assembly](#).
3. Install the [base cover](#).
4. Follow the procedure in [After working inside your computer](#).

Camera

Removing the camera

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [display assembly](#).
4. Remove the [display bezel](#).
5. Remove the [display-panel assembly](#).

About this task

The following image indicates the location of the camera and provides a visual representation of the removal procedure.

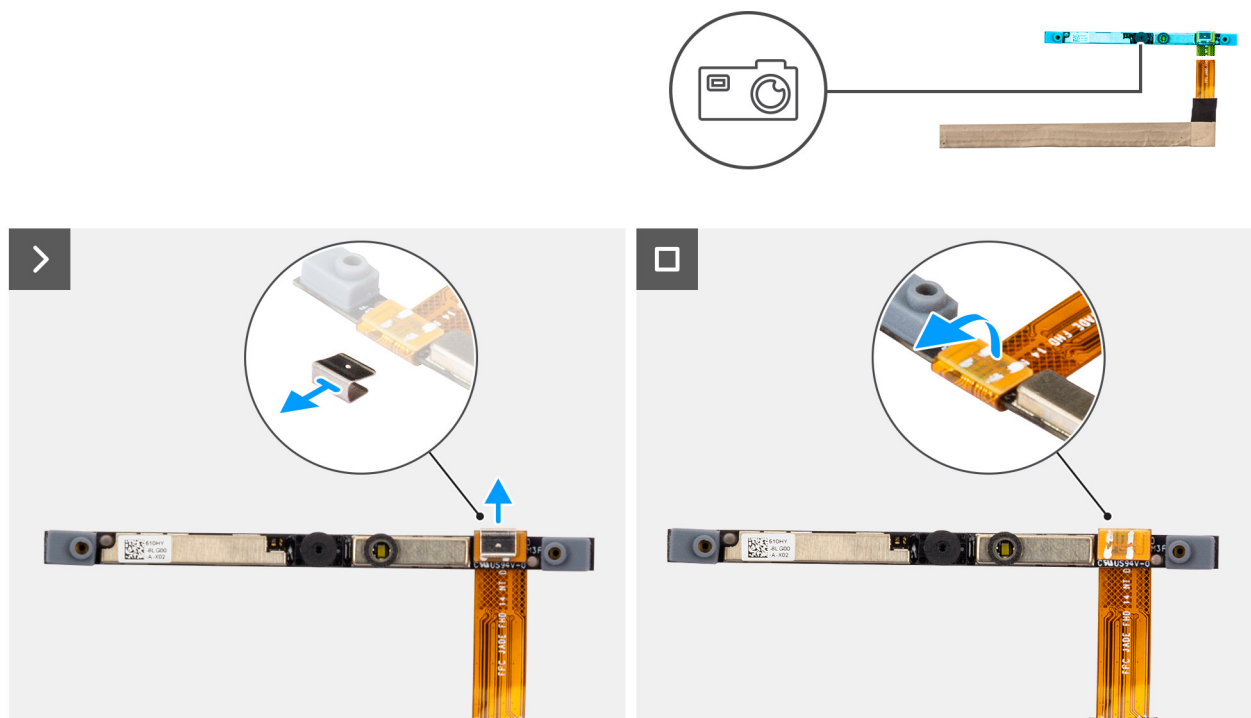


Figure 82. Removing the camera

Steps

1. Peel off the cable with adhesive backing, then pry detach the camera away from the display back-cover assembly.
2. Remove the clip and disconnect the camera cable from the camera module.
3. Lift the camera module off the display back-cover.

Installing the camera

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the camera and provides a visual representation of the installation procedure.

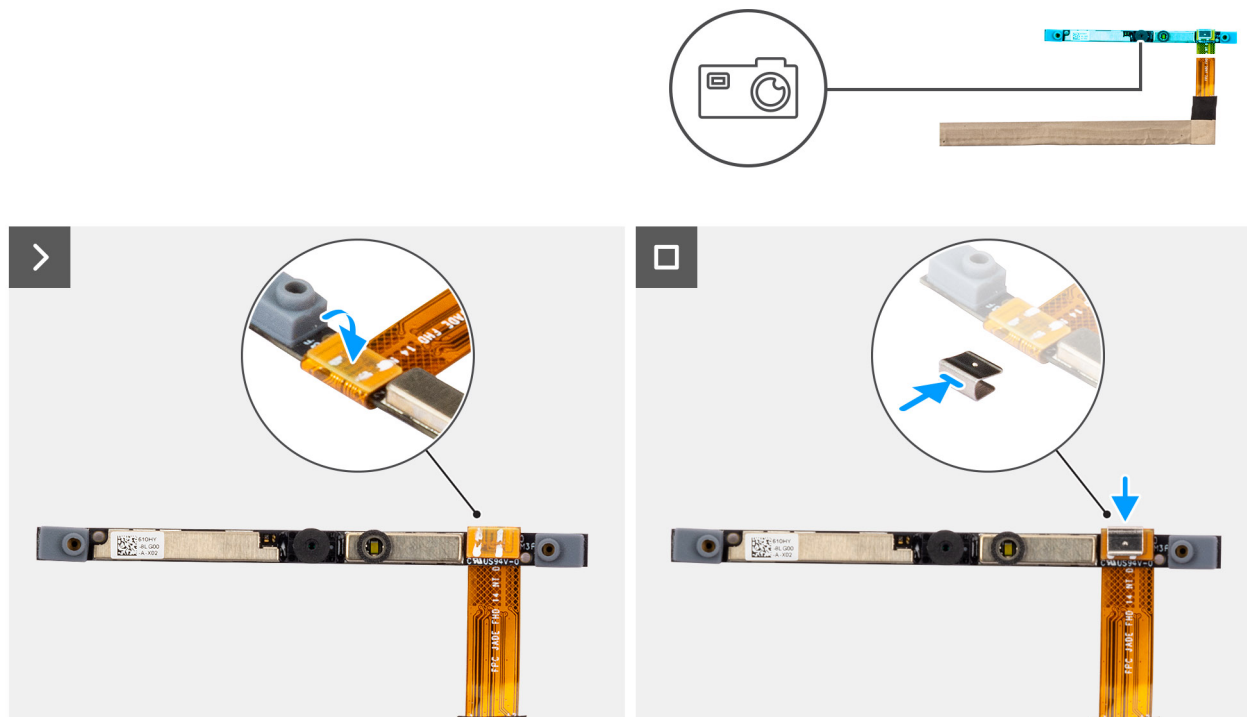


Figure 83. Installing the camera

Steps

1. Align and place the camera module on the slot on the display back cover.
2. Connect the camera cable to the camera module and reattach the clip.

Next steps

1. Install the [display-panel assembly](#).
2. Install the [display bezel](#).
3. Install the [display assembly](#).
4. Install the [base cover](#).
5. Follow the procedure in [After working inside your computer](#).

eDP cable

Removing the eDP cable

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [display assembly](#).
4. Remove the [display bezel](#).
5. Remove the [display-panel assembly](#).
6. Remove the [camera](#).

About this task

The following image indicates the location of the eDP cable and provides a visual representation of the removal procedure.

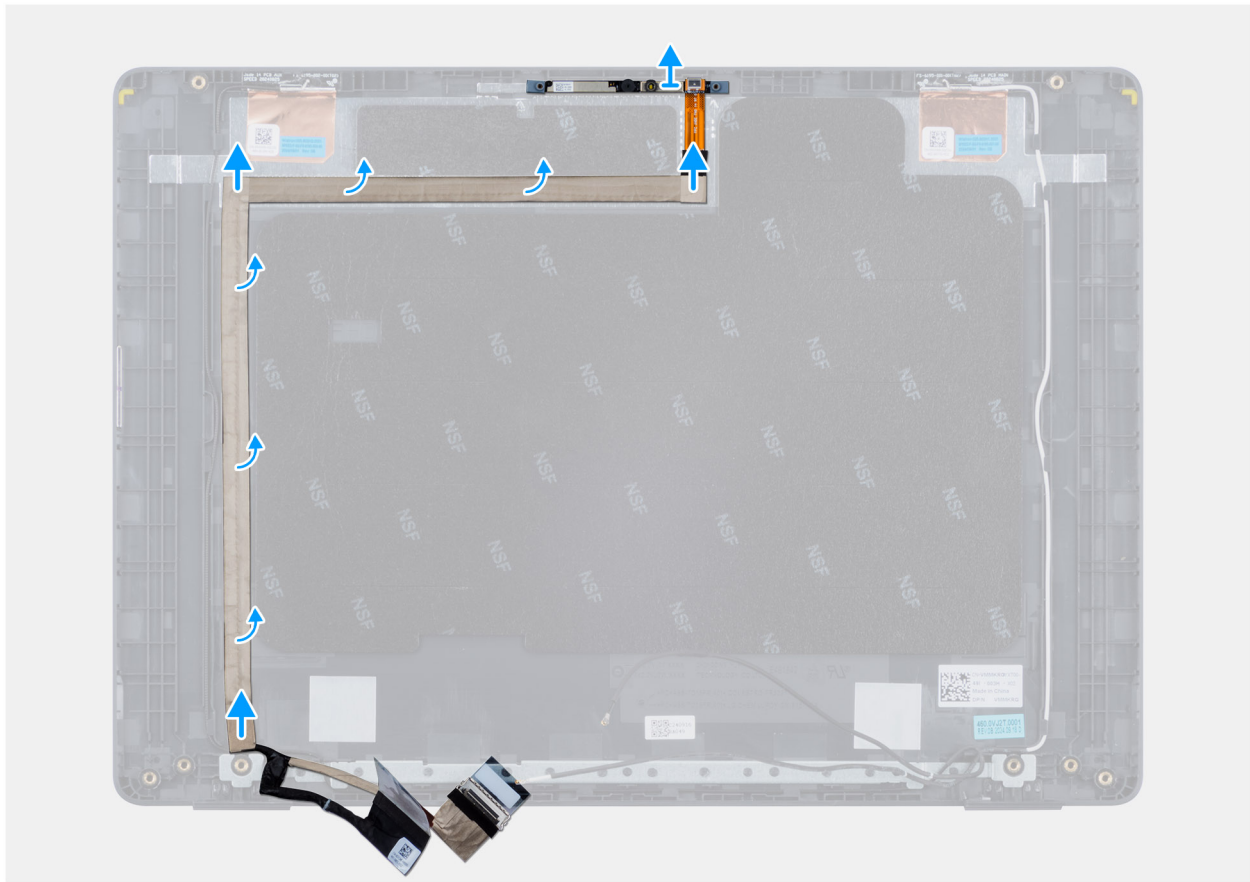


Figure 84. Removing the eDP cable

Steps

1. Disconnect the eDP cable from the connector (LCD1) on the camera module.
2. Peel away the conductive tape that adheres the eDP cable to the display back cover.
3. Lift the eDP cable away from the computer.

Installing the eDP cable

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the eDP cable and provides a visual representation of the installation procedure.

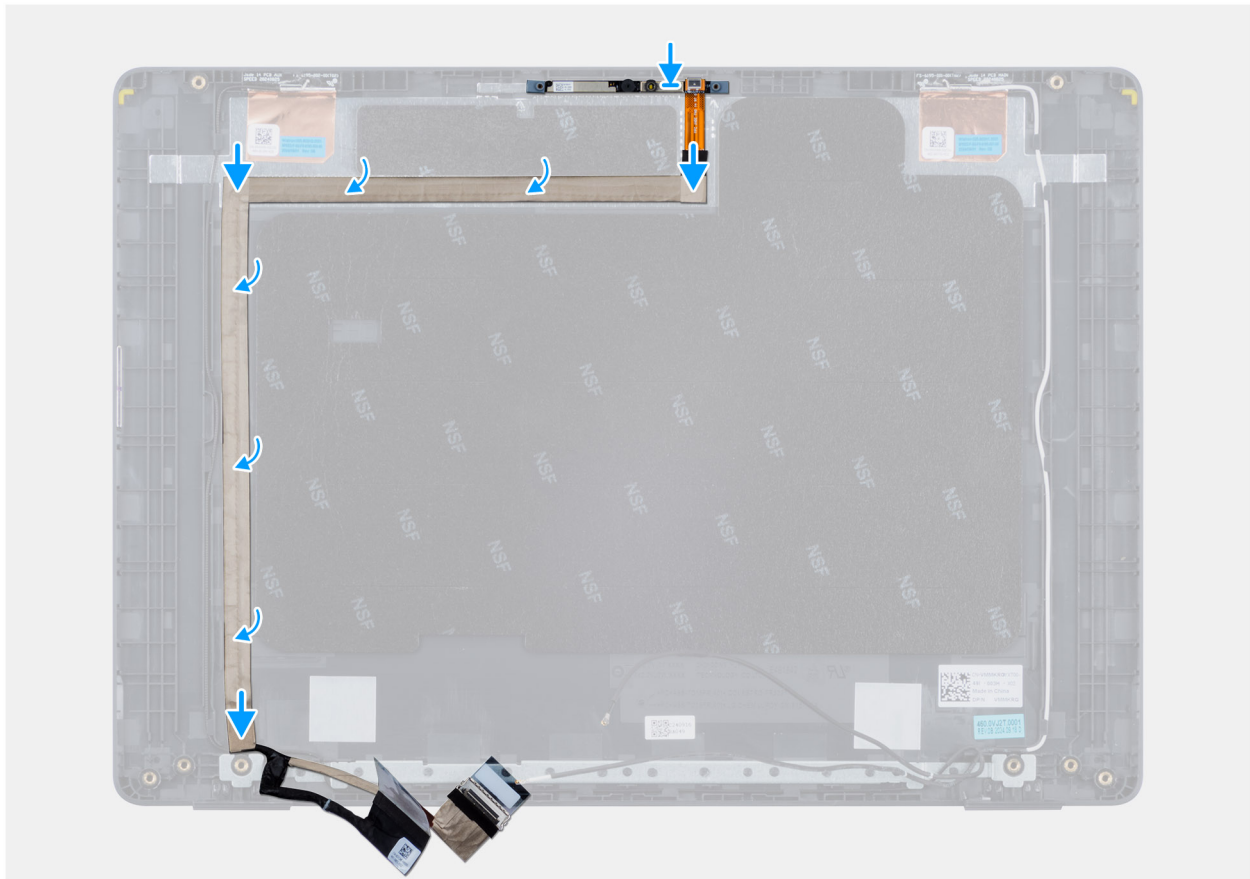


Figure 85. Installing the eDP cable

Steps

1. Connect the eDP cable to the connector (LCD1) on the camera module.
2. Adhere the eDP cable to the display back cover.
3. Adhere the conductive tape and route the eDP cable to the display back cover.

Next steps

1. Install the [camera](#).
2. Install the [display-panel assembly](#).
3. Install the [display bezel](#).
4. Install the [display assembly](#).
5. Install the [base cover](#).
6. Follow the procedure in [After working inside your computer](#).

Display back-cover assembly

Removing the display back-cover assembly

CAUTION: The information in this removal section is intended for authorized service technicians only.

Prerequisites

1. Follow the procedure in [Before working inside your computer](#).
2. Remove the [base cover](#).
3. Remove the [display assembly](#).

4. Remove the [display bezel](#).
5. Remove the [display-panel assembly](#).
6. Remove the [camera](#).
7. Remove the [eDP cable](#).

About this task

The following image shows the display back-cover assembly and provides a visual representation of the removal procedure.



Figure 86. Removing the display back-cover assembly

Steps

After performing the steps in the pre-requisites, we are left with the display back-cover assembly.

Installing the display back-cover assembly

CAUTION: The information in this installation section is intended for authorized service technicians only.

Prerequisites

If you are replacing a component, remove the existing component before performing the installation procedure.

About this task

The following image indicates the location of the display back-cover assembly and provides a visual representation of the installation procedure.



Figure 87. Installing the display back-cover assembly

Steps

Place the display back-cover assembly on a clean and flat surface.

Next steps

1. Install the [eDP cable](#).
2. Install the [camera](#).
3. Install the [display-panel assembly](#).
4. Install the [display bezel](#).
5. Install the [display assembly](#).
6. Install the [base cover](#).
7. Follow the procedure in [After working inside your computer](#).

Software

This chapter details the supported operating systems along with instructions on how to install the drivers.

Operating system

Your Dell Pro 14 PC14255 supports the following operating systems:

For computers shipped with AMD Ryzen AI 300 Series processors:

- Windows 11 Home
- Windows 11 Professional

For computers shipped with AMD Ryzen 200 Series processors:

- Windows 11 Home
- Windows 11 Professional
- Windows 10 Home
- Windows 10 Professional



NOTE: If you downgrade your computer from Windows 11 to Windows 10 22H2, Dell Technologies support will follow the Microsoft Windows 10 End of Support plan.

Drivers and downloads

When troubleshooting, downloading, or installing drivers, it is recommended that you read the Dell Knowledge Base article Drivers and Downloads FAQs [000123347](#).

BIOS Setup

CAUTION: Certain changes can make your computer work incorrectly. Before you change the settings in BIOS Setup, it is recommended that you note down the original settings for future reference.

NOTE: Depending on the computer and the installed devices, the options that are listed in this section may differ.

Use BIOS Setup for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the capacity of the storage device.
- Change the system configuration information.
- Set or change user-selectable options such as the user password, enabling or disabling base devices, and configuring hard drive settings.

Entering BIOS Setup program

Turn on or restart your computer and press F2 immediately.

Navigation keys

NOTE: For most of the BIOS Setup options, changes that you make are recorded but do not take effect until you restart the computer.

Table 33. Navigation keys

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follows the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.
Tab	Moves to the next focus area.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restart the computer.

F12 One Time Boot menu

To enter the One Time Boot menu, turn on or restart your computer, and then press F12 immediately.

NOTE: If you are unable to enter the One Time Boot menu, repeat the above action.

The One Time Boot menu displays the devices that you can boot from and also display the options to start diagnostics. The boot menu options are:

- Removable Drive (if available)
- STXXXX Drive (if available)

 **NOTE:** XXX denotes the SATA drive number.

- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics

The One Time Boot menu screen also displays the option to access BIOS Setup.

View Advanced Setup options

About this task

Some BIOS Setup options are only visible by enabling **Advanced Setup** mode, which is disabled by default.

 **NOTE:** BIOS Setup options, including **Advanced Setup** options, are described in [BIOS setup options](#).

To enable Advanced Setup:

Steps

1. Enter BIOS Setup.
The Overview menu appears.
2. Click the **Advanced Setup** option to move it to the **ON** mode.
Advanced BIOS Setup options are displayed.

View Service options

About this task

Service options are hidden by default and only visible by entering a hotkey command.

 **NOTE:** Service options are described in [BIOS setup options](#).

To view Service options:

Steps

1. Enter BIOS Setup.
The Overview menu appears.
2. Enter the hotkey combination **Ctrl + Alt + s** to view the **Service** options.
Service options are displayed.

BIOS Setup options

 **NOTE:** Depending on your computer and its installed devices, the items that are listed in this section may or may not be displayed.

Table 34. BIOS Setup options—Overview menu

Overview	
Dell Pro 14 PC14255	
BIOS Version	Displays the BIOS version number.
Service Tag	Displays the Service Tag of the computer.
Asset Tag	Displays the Asset Tag of the computer.
Manufacture Date	Displays the manufacture date of the computer.

Table 34. BIOS Setup options—Overview menu (continued)

Overview	
Ownership Date	Displays the ownership date of the computer.
Express Service Code	Displays the Express Service Code of the computer.
Ownership Tag	Displays the Ownership Tag of the computer.
Battery Information	
Primary	Displays the primary battery of the computer.
Battery Level	Displays the battery level of the computer.
Battery State	Displays the battery state of the computer.
Health	Displays the battery health of the computer.
AC Adapter	Displays whether an AC adapter is connected. If connected, displays the type of AC adapter that is connected.
Battery Life Type	Displays the battery life type.
Processor Information	
Processor Type	Displays the processor type.
Maximum Clock Speed	Displays the maximum processor clock speed.
Minimum Clock Speed	Displays the minimum processor clock speed.
Current Clock Speed	Displays the current processor clock speed.
Core Count	Displays the number of cores on the processor.
Processor ID	Displays the processor identification code.
Processor L2 Cache	Displays the processor L2 cache size.
Processor L3 Cache	Displays the processor L3 cache size.
Microcode Version	Displays the microcode version.
Simultaneous Multi-Threading Capable	Displays whether the processor is Multi-Threading (MT) capable.
Memory Information	
Memory Installed	Displays the total memory that is installed on the computer.
Memory Available	Displays the total memory available on the computer.
Memory Speed	Displays the memory speed.
Memory Channel Mode	Displays single or dual channel mode.
Memory Technology	Displays the technology that is used for the memory.
DIMM 1 Size	Displays the total memory that is installed in DIMM Slot 1
DIMM 2 Size	Displays the total memory that is installed in DIMM Slot 2
Devices Information	
Panel Type	Displays the type of display panel available on the computer.
Panel Revision	Displays the panel revision of the computer.
Video Controller	Displays the type of video controller available on the computer.
Video Memory	Displays the video memory information of the computer.
Wi-Fi Device	Displays the wireless device information of the computer.
Native Resolution	Displays the native resolution of the computer.
Video BIOS Version	Displays the video BIOS version of the computer.

Table 34. BIOS Setup options—Overview menu (continued)

Overview	
Audio Controller	Displays the audio controller information of the computer.
Bluetooth Device	Displays the Bluetooth device information of the computer.
LOM MAC Address	Displays the MAC address of the LOM (LAN on Motherboard) interface.
Pass Through MAC Address	Displays the MAC address of the video pass-through.

Table 35. BIOS Setup options—Boot Configuration menu

Boot Configuration	
Boot Sequence	
Boot Mode: UEFI only	Displays the boot mode of the computer.
Boot Sequence	Displays the boot sequence.
Enable PXE Boot Priority	Enables or disables the new PXE boot option. Allows loading an operating system over a network connection. By default, the Enable PXE Boot Priority option is disabled.
UEFI Network Boot Priority	This option is used to select IPv4 and IPv6 option boot order.
Extended IPv4 PXE Boot Timeout	Enter the Extended IPv4 PXE Boot Timeout value only if the IPv4 PXE Boot fails with standard timeouts.
Secure Boot	
Enable Secure Boot	Enables the computer to boot using only validated boot software. By default, the Enable Secure Boot option is disabled. For additional security, Dell Technologies recommends keeping the Secure Boot option is enabled to ensure that the UEFI firmware validates the operating system during the boot process.  NOTE: For Secure Boot to be enabled, the computer is required to be in UEFI boot mode and the Enable Legacy Option ROMs option is required to be turned off.
Enable Microsoft UEFI CA	When disabled, the UEFI CA is removed from the BIOS UEFI Secure Boot database.  CAUTION: When disabled, the Microsoft UEFI CA can cause your system to not boot, computer graphics may not function, some devices may not function properly, and the computer could become unrecoverable. By default, the Enable Microsoft UEFI CA option is disabled. For additional security, Dell Technologies recommends keeping the Enable Microsoft UEFI CA option is enabled to ensure the broadest compatibility with devices and operating systems.
Secure Boot Mode	Enables or disables the Secure Boot operation mode. By default, the Deployed Mode is selected.  NOTE: Deployed Mode should be selected for normal operation of Secure Boot.
Expert Key Management	
Enable Custom Mode	Enables or disables the ability to modify the keys in the PK, KEK, db, and dbx security key databases to be modified. By default, the Enable Custom Mode option is disabled.
Custom Mode Key Management	

Table 35. BIOS Setup options—Boot Configuration menu (continued)

Boot Configuration	
Select Key Database	Selects the custom values for expert key management. By default, the PK option is selected.

Table 36. BIOS Setup options—Integrated Devices menu

Integrated Devices	
Date/Time	
Date	Sets the computer date in MM/DD/YYYY format. Changes to the date format take effect immediately.
Time	Sets the computer time in HH/MM/SS 24-hour format. You can switch between a 12-hour and 24-hour clock. Changes to the time format take effect immediately.
Camera	
Enable Camera	Enables the camera. By default, the Enable Camera option is enabled.  NOTE: Depending on the configuration ordered, the camera setup option may not be available.
Audio	
Enable Audio	Enables all integrated audio controller. By default, all the options are enabled.
Enable Microphone	Enables the microphone. By default, the Enable Microphone option is enabled.  NOTE: Depending on the configuration ordered, the microphone setup option may not be available.
Enable Internal Speaker	Enables the internal speaker. By default, the Enable Internal Speaker option is enabled.
USB/Thunderbolt Configuration	
Enable External USB Ports	Enables the external USB ports. By default, the Enable External USB Ports option is enabled.
Enable USB Boot Support	Enables booting from USB mass storage devices that are connected to external USB ports. By default, the Enable USB Boot Support option is enabled.
Enable Thunderbolt Technology Support	
Enable Thunderbolt Technology Support	Enables the associated ports and adapters for Thunderbolt Technology support. By default, the Enable Thunderbolt Technology Support option is enabled.
Enable Thunderbolt Boot Support	
Enable Thunderbolt Boot Support	Enables the Thunderbolt adapter-peripheral device and USB devices that are connected to the Thunderbolt adapter to be used during BIOS Preboot. By default, the Enable Thunderbolt Boot Support option is disabled.
Enable Thunderbolt (and PCIe behind TBT) pre-boot modules	
	Enables the PCIe devices that are connected through a Thunderbolt adapter to run the PCIe devices UEFI Option ROM (if present) during preboot.

Table 36. BIOS Setup options—Integrated Devices menu (continued)

Integrated Devices	
	By default, the Enable Thunderbolt (and PCIe behind TBT) pre-boot modules option is disabled.
Video/Power only on Type-C Ports	Enables or disables the Type-C port functionality to video or only power. By default, the Video/Power only on Type-C Ports option is disabled.
Miscellaneous Devices	
Enable Fingerprint Reader Device	Enables the Fingerprint Reader Device option. By default, the Enable Fingerprint Reader Device option is enabled.
Dust Filter Maintenance	
Dust Filter Maintenance	Enable or disable the dust filter maintenance. By default, the Disabled option is enabled.
Microphone Mute Led	
Microphone Mute Led	Enable or disable the LED status of Microphone. By default, the Microphone Mute Led option is disabled.
Dust Filter Maintenance	
Dust Filter Maintenance	Allows you to enable or disable BIOS messages for maintaining the optional dust filter that is installed in your computer. BIOS will generate a pre-boot reminder to clean or replace the dust filter based on the interval set. By default, the Dust Filter Maintenance option is disabled.

Table 37. BIOS Setup options—Storage menu

Storage	
SATA/NVMe Operation	
SATA/NVMe Operation	Sets the operating mode of the integrated SATA hard drive controller. By default, the AHCI/NVMe option is selected. The storage device is configured for AHCI/NVMe mode.
Storage Interface	Displays the information of various onboard drives.
Port Enablement	Enables or disables the M.2 PCIe SSD option. By default, the M.2 PCIe SSD option is enabled.
Smart Reporting	
Enable Smart Reporting	Enables or disables the Smart reporting option. By default, the Smart Reporting option is disabled.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options .
Drive Information	Displays the information of onboard drives.

Table 38. BIOS Setup options—Display menu

Display	
Touchscreen	Enables or disables the touch screen option. By default, the Touchscreen option is enabled.
Full Screen Logo	Enables or disables the computer to display a full-screen logo, if the image matches screen resolution.

Table 38. BIOS Setup options—Display menu (continued)

Display	
	By default, the Full Screen Logo option is disabled.

Table 39. BIOS Setup options—Connection menu

Connection	
Network Controller Configuration	
Integrated NIC	This option controls the on-board LAN Controller. By default, the Enabled with PXE option is enabled.
Wireless Device Enable	
WLAN	Enables or disables the internal WLAN device. By default, the WLAN option is enabled.
Bluetooth	Enables or disables the internal Bluetooth device. By default, the Bluetooth option is enabled.
Enable UEFI Network Stack	
Enable UEFI Network Stack	Enables or disables the UEFI Network Stack and controls the onboard LAN Controller. By default, the Auto-Enabled option is enabled.
IPv4 PXE Boot	When enabled, IPv4 PXE Boot option is available. When disabled, IPv4 PXE Boot option is not available.
IPv6 PXE Boot	When enabled, IPv6 PXE Boot option is available. When disabled, IPv4 PXE Boot option is not available.
Wireless Radio Control	
Control WLAN Radio	Enables to sense the connection of the computer to a wired network and then disables the selected wireless radios (WLAN and/or WWAN). Upon disconnection from the wired network, the selected wireless radios are reenabled. By default, the Control WLAN Radio option is disabled.
HTTP(s) Boot Feature	
HTTP(s) Boot	When enabled, supports HTTP(s) boot on the client BIOS, which offers wired or wireless and HTTP/HTTPS connection options.  NOTE: To view this option, enable HTTP(s) Boot as described in View Advanced Setup options .
HTTP(s) Boot Modes	In Auto Mode, the boot URL is obtained from the DHCP response; the boot URL specifies the HTTP Boot Server and location of the Network Boot Program (NBP) file. In Manual mode, the user enters the URL in the text box, which must start with <code>http://</code> or <code>https://</code> and end with the NBP file name. By default, Auto Mode is selected.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options .

Table 40. BIOS Setup options—Power menu

Power	
Battery Configuration	

Table 40. BIOS Setup options—Power menu (continued)

Power	
Battery Configuration	Enables or disables the computer to run on battery during peak power usage hours. Use the table Custom Charge Start and Custom Charge Stop, to prevent AC power usage between certain times of each day. By default, the Adaptive option is selected. Battery settings are adaptively optimized based on your typical battery usage pattern.
Advanced Configuration	
Enable Advanced Battery Charge Configuration	Enables Advanced Battery Charge Configuration from the beginning of the day to a specified work period. When enabled, Advanced Battery Charged maximizes battery health while still supporting heavy use during the work day. By default, the Enable Advanced Battery Charge Configuration option is disabled.
Peak Shift	
Enable Peak Shift	Enables the computer to run on battery during peak power usage hours. By default, the Enable Peak Shift option is disabled.
USB PowerShare	
Enable USB PowerShare	Enables or disables the USB PowerShare on the computer. By default, the Enable USB Powershare option is disabled.
Thermal Management	
Thermal Management	Enables or disables cooling of fan and manages processor heat to adjust the computer performance, noise, and temperature. By default, the Optimized option is selected. Standard setting for balanced performance, noise, and temperature.
USB Wake Support	
Wake on Dell USB-C Dock	When enabled, connecting a Dell USB-C Dock wakes the computer from Standby, Hibernate, and Power Off. By default, the Wake on Dell USB-C Dock option is enabled.
Lid Switch	
Enable Lid Switch	Enables or disables the Lid Switch. By default, the Enable Lid Switch option is enabled.

Table 41. BIOS Setup options—Security menu

Security	
TPM 2.0 Security On	Allows you to enable or disable TPM. By default, the TPM 2.0 Security On option is enabled. For additional security, Dell Technologies recommends keeping TPM 2.0 Security On enabled to allow these security technologies to fully function.
Attestation Enable	The Attestation Enable option controls the endorsement hierarchy of TPM. Disabling the Attestation Enable option prevents TPM from being used to digitally sign certificates. By default, the Attestation Enable option is enabled. For additional security, Dell Technologies recommends keeping the Attestation Enable option is enabled.

Table 41. BIOS Setup options—Security menu (continued)

Security	
	 NOTE: When disabled, this feature may cause compatibility issues or loss of functionality in some operating systems.
Key Storage Enable	The Key Storage Enable option controls the storage hierarchy of TPM, which is used to store digital keys. Disabling the Key Storage Enable option restricts the ability of TPM to store owner's data. By default, the Key Storage Enable option is enabled. For additional security, Dell Technologies recommends keeping the Key Storage Enable option is enabled.  NOTE: When disabled, this feature may cause compatibility issues or loss of functionality in some operating systems.
Clear	When enabled, the Clear option clears information that is stored in the TPM after exiting the computer's BIOS. This option returns to the disabled state when the computer restarts. By default, the Clear option is disabled. Dell Technologies recommends enabling the Clear option only when TPM data is required to be cleared.
Physical Presence Interface (PPI) Bypass for Clear Commands	By default, the PPI Bypass for Clear Commands option is disabled. For additional security, Dell Technologies recommends keeping the PPI Bypass for Clear Commands option disabled.
Chassis intrusion	
Chassis Intrusion	The chassis intrusion detection enables a physical switch that triggers an event when the computer cover is opened. When set to Enabled, a notification is displayed on the next boot and the event is logged in the BIOS Events log. When set to On-Silent, the event is logged in the BIOS Events log, but no notification is displayed. When set to Disabled, no notification is displayed and no event is logged in the BIOS Events log. By default, the Chassis Intrusion option is enabled. For additional security, Dell Technologies recommends keeping the Chassis Intrusion Detection option is disabled.
AMD Memory Guard	
AMD Memory Guard	Enables or disables memory encryption. AMD Memory Guard encrypts the contents of RAM to provide enhanced protection against unauthorized access. While enabling this feature may make detecting RAM errors more difficult during testing, it will not produce false errors. Enabling AMD Memory Guard may have a small performance impact on memory. This feature is only available on CPUs with AMD Pro technology. By default, the AMD Memory Guard option is disabled.
Data Wipe on Next Boot	
Start Data Wipe	Data Wipe is a secure wipe operation that deletes information from a storage device.  CAUTION: The secure Data Wipe operation deletes information in a way that it cannot be reconstructed. Commands such as delete and format in the operating system may remove files from showing up in the file system. However, they can be reconstructed through

Table 41. BIOS Setup options—Security menu (continued)

Security	
	forensic means as they are still represented on the physical media. Data Wipe prevents this reconstruction and the data can no longer be recovered. When enabled, the data wipe option provides prompts to wipe any storage devices that are connected to the computer on the next boot. By default, the Start Data Wipe option is disabled.
Absolute	
Absolute	Absolute Software provides various cyber security solutions, some requiring software preloaded on Dell computers and integrated into the BIOS. To use these features, you must enable the Absolute BIOS setting and contact Absolute for configuration and activation. By default, the Absolute option is enabled. For additional security, Dell Technologies recommends keeping the Absolute option is enabled.  NOTE: When the Absolute features are activated, the Absolute integration cannot be disabled from the BIOS setup screen.
UEFI Boot Path Security	
UEFI Boot Path Security	Enables or disables the computer to prompt the user to enter the Administrator password (if set) when booting to a UEFI boot path device from the F12 boot menu. By default, the Always Except Internal HDD option is enabled.
Authenticated BIOS Interface	
Enable Authenticated BIOS Interface	Allows the administrator to control access to BIOS configuration through an authenticated interface. When enabled, this option ensures that BIOS configuration changes are secured by authentication. By default, the Enable Authenticated BIOS Interface option is disabled.
Legacy Manageability Interface Access	Allows the administrator to control the access to BIOS configuration through the Legacy Manageability Interface option. When enabled, this prevents the BIOS Administrator password-based manageability tools from running, prevents some Dell software applications from reading configuration settings, and/or prevents changes to the BIOS configuration settings. When enabled, this option only supports the Authenticated BIOS Manageability Interface (ABI) for managing the BIOS configuration changes. To support this feature, ABI must be enabled and provisioned. When set to Enabled, the Legacy Manageability Interface can be used to read and change BIOS configuration settings. When set to Read-Only, BIOS configuration settings can be read, but cannot be changed through the Legacy Manageability Interface. When set to Disabled, the Legacy Manageability Interface is disabled. BIOS configuration reads and writes are blocked.
Firmware Device Tamper Detection	
Firmware Device Tamper Detection	Allows you to control the firmware device tamper detection feature. This feature notifies the user when the firmware device is tampered. When enabled, a screen warning messages are displayed on the computer and a tamper detection event is logged in the BIOS Events log. The computer fails to reboot until the event is cleared. By default, the Silent option is enabled.

Table 41. BIOS Setup options—Security menu (continued)

Security	
	For additional security, Dell Technologies recommends keeping the Firmware Device Tamper Detection option is enabled.
Clear Firmware Device Tamper Detection	Allows you to clear the events that are logged when tampering of firmware device is detected. By default, the Clear Firmware Device Tamper Detection option is disabled.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options.
Pluton Security Processor	
Pluton Security Processor	Enables or disables the utilization of the Pluton Security Processor by the operating system to provide security services such as Key Storage Provider functionality. By default, the Pluton Security Processor option is enabled.  NOTE: For additional security, Dell Technologies recommends keeping the Pluton Security Processor option enabled.

Table 42. BIOS Setup options—Passwords menu

Passwords	
Admin Password	The Administrator Password prevents unauthorized access to the BIOS Setup options. Once the administrator password is set, the BIOS setup options can only be modified after providing the correct password. The following rules and dependencies apply to the Administrator Password - • The administrator password cannot be set if computer and/or internal storage passwords are previously set. • The administrator password can be used in place of the computer and/or internal storage passwords. • When set, the administrator password must be provided during a firmware update. • Clearing the administrator password also clears the computer password (if set). Dell Technologies recommends using an administrator password to prevent unauthorized changes to BIOS setup options.
System Password	The System Password prevents the computer from booting to an operating system without entering the correct password. The following rules and dependencies apply when the System Password is used - • The computer shuts down when idle for approximately 10 minutes at the computer password prompt. • The computer shuts down after three incorrect attempts to enter the computer password. • The computer shuts down when the Esc key is pressed at the System Password prompt. • The computer password is not prompted when the computer resumes from standby mode. Dell Technologies recommends using the computer password in situations where it is likely that a computer may be lost or stolen.
M.2 PCIe SSD-0	The hard drive password can be set to prevent unauthorized access of the data stored on the solid-state drive. The computer prompts for the hard drive password during boot in order to unlock the drive. A password-secured hard drive stays locked even when removed from the computer or placed into another

Table 42. BIOS Setup options—Passwords menu (continued)

Passwords	
	computer. It prevents an attacker from accessing data on the drive without authorization. The following rules and dependencies apply when the Hard Drive Password or M.2 PCIe SSD-0 Password option is used. • The hard drive password option cannot be accessed when the hard drive is disabled in the BIOS Setup. • The computer shuts down when idle for approximately 10 minutes at the hard drive password prompt. • The computer shuts down after three incorrect attempts to enter the hard drive password and treats the hard drive as not available. • The hard drive does not accept password unlock attempts after five incorrect attempts to enter the hard drive password from the BIOS Setup. The hard drive password must be reset for the new password unlock attempts. • The computer treats the hard drive as not available when the Esc key is pressed at the hard drive password prompt. • The hard drive password is not prompted when the computer resumes from standby mode. When the hard drive is unlocked by the user before the computer goes into standby mode, it remains unlocked after the computer resumes from standby mode. • If the system and hard drive passwords are set to the same value, the hard drive unlocks after the correct system password is entered. Dell Technologies recommends using a hard drive password to protect unauthorized data access.
Password Configuration	The Password configuration page includes several options for changing the requirements of BIOS passwords. You can modify the minimum and maximum length of the passwords and require passwords to contain certain character classes (upper case, lower case, digit, special character). Dell Technologies recommends setting the minimum password length to at least eight characters.
Password Changes	
Allow Non-Admin Password Changes	The Allow Non-Admin Password Changes option in BIOS Setup allows an end user to set or change the system or hard drive passwords without entering the administrator password. This gives an administrator control over the BIOS settings but enables an end user to provide their own password. By default, the Allow Non-Admin Password Changes option is enabled. For additional security, Dell Technologies recommends keeping the Allow Non-Admin Password Changes option disabled.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options.
Admin Setup Lockout	The Admin Setup Lockout option prevents an end user from even viewing the BIOS setup configuration without first entering the administrator password (if set). By default, the Admin Setup Lockout option is disabled. For additional security, Dell Technologies recommends keeping the Admin Setup Lockout option disabled.
Master Password Lockout	
Enable Master Password Lockout	The Master Password Lockout setting allows you to disable the Recovery Password feature. If the computer, administrator, or hard drive password is forgotten, the computer becomes unusable.

Table 42. BIOS Setup options—Passwords menu (continued)

Passwords	
	 NOTE: When the owner password is set, the Master Password Lockout option is not available.  NOTE: When an internal hard drive password is set, it must first be cleared before Master Password Lockout can be changed. By default, the Enable Master Password Lockout option is disabled. Dell does not recommend enabling the Master Password Lockout unless you have implemented your own password recovery computer.
Allow Non-Admin PSID Revert	The Allow Non-Admin PSID Revert option allows a user to clear the hard drive password without entering the BIOS Admin Password. When an Admin Password is set, the ability to enter the PSID is protected by requiring authentication with the Admin Password. If this option is enabled, any user can clear the drive without entering the Admin Password. By default, the Enable Allow Non-Admin PSID Revert option is disabled.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options.

Table 43. BIOS Setup options—Update, Recovery menu

Update, Recovery	
UEFI Capsule Firmware Updates	
BIOS Recovery from Hard Drive	Enables or disables the user to recover from certain corrupted BIOS conditions from a recovery file on the user primary hard drive or an external USB key. By default, the BIOS Recovery from Hard Drive option is enabled.  NOTE: BIOS Recovery from Hard Drive is not available for self-encrypting drives (SED).  NOTE: BIOS recovery is designed to fix the main BIOS block and cannot work if the Boot Block is damaged. In addition, this feature cannot work in the event of EC corruption, ME corruption, or a hardware issue. The recovery image must exist on an unencrypted partition on the drive.
BIOS Downgrade	
Allow BIOS Downgrade	Controls flashing of the computer firmware to previous revisions. By default, the Allow BIOS Downgrade option is enabled.
SupportAssist OS Recovery	Enables or disables the boot flow for SupportAssist OS Recovery tool in the event of certain computer errors. By default, the SupportAssist OS Recovery option is enabled.
BIOSConnect	Enables or disables cloud Service operating system recovery if the main operating system fails to boot with the number of failures equal to or greater than the value specified by the Auto OS Recovery Threshold setup option and local Service operating system does not boot or is not installed. By default, the BIOSConnect option is enabled.
Dell Auto OS Recovery Threshold	Allows you to control the automatic boot flow for SupportAssist System Resolution Console and for Dell OS Recovery Tool. By default, the Dell Auto OS Recovery Threshold value is set to 2.

Table 44. BIOS Setup options—System Management menu

System Management	
Service Tag	Displays the Service Tag of the computer.
Asset Tag	Creates a computer Asset Tag that can be used by an IT administrator to uniquely identify a particular computer.  NOTE: Once set in BIOS, the Asset Tag cannot be changed.
AC Behavior	
Wake on AC	Enables or disables the computer to turn on and go to boot when AC power is supplied to the computer. By default, the Wake on AC option is disabled.
Wake on LAN/WLAN	Enables or disables the computer to turn on by a special LAN signal. By default, the Wake on LAN/WLAN option is disabled.
Auto On Time	Enable to set the computer to turn on automatically every day or on a preselected date and time. This option can be configured only if the Auto On Time is set to Everyday, Weekdays, or Selected Days. By default, the Auto On Time option is disabled.
First Power On Date	
Set Ownership Date	Create an ownership date for the computer.
Diagnostics	
OS Agent Requests	By default, the OS Agent Requests option is enabled.
Power-on-Self-Test Automatic Recovery	Enable or disable the automatic recovery of the computer from no power or no-POST failure by applying mitigation steps. By default, the Power-On-Self-Test Automatic Recovery option is enabled.  NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options .
DASH Support	Enable or disable support for the desktop and mobile architecture for system hardware (DASH) management via Platform Level Data Model (PLDM) exchanges. By default, the DASH Support option is disabled.

Table 45. BIOS Setup options—Keyboard menu

Keyboard	
Fn Lock Options	Enables or disables the Fn Lock option. By default, the Fn Lock option is enabled.
Lock Mode	By default, the Lock Mode Secondary option is enabled. With this option, the F1-F12 keys scan the code for their secondary functions.
Keyboard Illumination	Configures the operating mode of the keyboard illumination feature. By default, the Dim option is selected. Enables the keyboard illumination feature at 100% brightness level.
Keyboard Backlight Timeout on AC	Sets the timeout value for the keyboard backlight when an AC adapter is connected to the computer. By default, the 10 seconds option is selected.

Table 45. BIOS Setup options—Keyboard menu (continued)

Keyboard	
Keyboard Backlight Timeout on Battery	Sets the timeout value for the keyboard backlight when the computer is running only on the battery power. The keyboard backlight timeout value is only effective when the backlight is enabled. By default, the 10 seconds option is selected.

Table 46. BIOS Setup options—Pre-boot Behavior menu

Preboot Behavior	
Adapter Warnings	
Enable Adapter Warnings	Enables the warning messages during boot when the adapters with less power capacity are detected. By default, the Enable Adapter Warnings option is enabled.
Warnings and Errors	Enables or disables the action to be taken when a warning or error is encountered. By default, the Prompt on Warnings and Errors option is selected. i NOTE: Errors deemed critical to the operation of the computer hardware stop the functioning of the computer.
Extend BIOS POST Time	Sets the BIOS POST (Power-On Self-Test) load time. By default, the 0 seconds option is selected.
MAC Address Pass-Through	Replaces the external NIC MAC address (in a supported dock or dongle) with the selected MAC address from the computer. By default, the System Unique MAC Address option is selected.
Sign of Life	
Early Keyboard Backlight	Keyboard Backlight Sign of Life. By default, the Early Keyboard Backlight option is enabled.

Table 47. BIOS Setup options—Virtualization menu

Virtualization	
DMA Protection	
Enable Pre-Boot DMA Support	Allows you to control the Pre-Boot DMA protection for both internal and external ports. This option does not directly enable DMA protection in the operating system. i NOTE: This option is not available when the virtualization setting for IOMMU is disabled (VT-d/AMD Vi). By default, the Enable Pre-Boot DMA Support option is enabled. For additional security, Dell Technologies recommends keeping the Enable Pre-Boot DMA Support option is enabled. i NOTE: This option is provided only for compatibility purposes, since some older hardware is not DMA capable.
Enable OS Kernel DMA Support	Allows you to control the Kernel DMA protection for both internal and external ports. This option does not directly enable DMA protection in the operating system. For operating systems that support DMA protection, this setting indicates to the operating system that the BIOS supports the feature. i NOTE: This option is not available when the virtualization setting for IOMMU is disabled (VT-d/AMD Vi). By default, the Enable OS Kernel DMA Support option is enabled.

Table 47. BIOS Setup options—Virtualization menu (continued)

Virtualization	
	i NOTE: This option is provided only for compatibility purposes, since some older hardware is not DMA capable.
Internal Port DMA Compatability Mode	Allows you to control the boot compatibility for integrated PCIe peripherals by disabling PCIe DMA protection on internal PCIe ports. When enabled, BIOS will notify the operating system that the internal ports are not DMA capable. This option is to help with devices that have operating system DMA compatibility issues. This option does not directly enable DMA protection in the operating system. i NOTE: This option is not available when the virtualization setting for IOMMU is disabled (VT-d/AMD Vi). By default, the Internal Port DMA Compatibility Mode option is enabled. i NOTE: This option is provided only for compatibility purposes, since some older hardware is not DMA capable.

Table 48. BIOS Setup options—Performance menu

Performance	
AMD Simultaneous Multithreading	
Enable AMD Simultaneous Multithreading	Enables or disables the AMD Simultaneous Multithreading mode of the processor. When enabled, the AMD Simultaneous Multithreading increases the efficiency of the processor resources when multiple threads run on each core. By default, the Enable AMD Simultaneous Multithreading option is enabled. i NOTE: To view this option, enable Advanced Setup mode as described in View Advanced Setup options.
NUMA Nodes Per Socket	
NUMA Nodes Per Socket	Controls how system memory is distributed among processor cores. By default, the Auto option is selected.

Table 49. BIOS Setup options—System Logs menu

System Logs	
BIOS Event Log	
Clear BIOS Event Log	Allows you to select option to keep or clear BIOS events logs. By default, the Keep Log option is selected.
Thermal Event Log	
Clear Thermal Event Log	Allows you to select option to keep or clear thermal events logs. By default, the Keep Log option is selected.
Power Event Log	
Clear Power Event Log	Allows you to select option to keep or clear power events logs. By default, the Keep Log option is selected.

Table 50. BIOS Setup options—System Manageability menu

System Logs	
Manageability	

Table 50. BIOS Setup options—System Manageability menu (continued)

System Logs	
Manageability	By default, the Manageability option is disabled.
Wireless Manageability	
Wireless Manageability	By default, the Wireless Manageability option is disabled.
KVM for Wired Manageability	
KVM for Wired Manageability	By default, the KVM for Wired Manageability option is disabled.
KVM for Wireless Manageability	
KVM for Wired Manageability	By default, the KVM for Wireless Manageability option is disabled.
Text Console for Wired Manageability	
Text Console for Wired Manageability	By default, the Text Console for Wired Manageability option is disabled.
Text Console for Wireless Manageability	
Text Console for Wireless Manageability	By default, the Text Console for Wireless Manageability option is disabled.
Un-provision	
Un-provision	By default, the Un-provision option is disabled.

Updating the BIOS

Updating the BIOS in Windows

About this task

 **CAUTION:** If BitLocker is not suspended before updating the BIOS, the BitLocker key is not recognized the next time you reboot the computer. You will then be prompted to enter the recovery key to proceed, and the computer displays a prompt for the recovery key on each reboot. Failure to provide the recovery key can result in data loss or an operating system reinstall. For more information, see the Knowledge Base Resource [updating the BIOS on Dell systems with BitLocker enabled](#).

Steps

1. Go to [Dell Support Site](#).
2. Go to **Search Dell or identify your product**. In the box, enter the product identifier, model, service request or describe what you are looking for, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, use the SupportAssist to automatically identify your computer. You can also use the product ID or manually browse for your computer model.
3. Click **Drivers & Downloads**.
4. Select the operating system installed on your computer.
5. In the **Category** drop-down list, select **BIOS**.
6. Select the latest version of BIOS, and click **Download** to download the BIOS file for your computer.
7. After the download is complete, browse the folder where you saved the BIOS update file.
8. Double-click the BIOS update file icon and follow the on-screen instructions.
For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

Updating the BIOS in Linux and Ubuntu

To update the system BIOS on a computer that is installed with Linux or Ubuntu, see [How to Update the Dell BIOS in the Ubuntu or Linux Environment](#) at [Dell Support Site](#).

Updating the BIOS using the USB drive in Windows

About this task

CAUTION: If BitLocker is not suspended before updating the BIOS, the BitLocker key is not recognized the next time you reboot the computer. You will then be prompted to enter the recovery key to proceed, and the computer displays a prompt for the recovery key on each reboot. Failure to provide the recovery key can result in data loss or an operating system reinstall. For more information, see the Knowledge Base Resource [updating the BIOS on Dell systems with BitLocker enabled](#).

Steps

1. Go to [Dell Support Site](#).
2. Go to **Search Dell or identify your product** . In the box, enter the product identifier, model, service request or describe what you are looking for, and then click **Search**.
NOTE: If you do not have the Service Tag, use the SupportAssist to automatically identify your computer. You can also use the product ID or manually browse for your computer model.
3. Click **Drivers & Downloads**.
4. Select the operating system installed on your computer.
5. In the **Category** drop-down list, select **BIOS**.
6. Select the latest version of BIOS, and click **Download** to download the BIOS file for your computer.
7. Create a bootable USB drive. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).
8. Copy the BIOS setup program file to the bootable USB drive.
9. Connect the bootable USB drive to the computer that needs the BIOS update.
10. Restart the computer and press **F12**.
11. Select the USB drive from the **One Time Boot Menu**.
12. Type the BIOS setup program filename and press **Enter**.
The **BIOS Update Utility** appears.
13. Follow the on-screen instructions to complete the BIOS update.

Updating the BIOS from the One-Time boot menu

To update the BIOS from the One-Time boot menu, see [Updating the BIOS from the One Time Boot Menu](#) at [Dell Support Site](#)..

System and setup password

- CAUTION:** The password features provide a basic level of security for the data on your computer.
- CAUTION:** Ensure that your computer is locked when it is not in use. Anyone can access the data that is stored on your computer, when left unattended.

Table 51. System and setup password

Password type	Description
System password	Password that you must enter to boot to your operating system.

Table 51. System and setup password (continued)

Password type	Description
Setup password	Password that you must enter to access and change the BIOS settings of your computer.

You can create a system password and a setup password to secure your computer.

 **NOTE:** The System and setup password feature is disabled by default.

Assigning a System Setup password

Prerequisites

You can assign a new System or Admin Password only when the status is set to **Not Set**. To enter BIOS System Setup, press F2 immediately after a power-on or reboot.

Steps

1. To enter the **System Setup**, press **F2** immediately after a power-on or reboot.
2. In the **System BIOS** or **System Setup** screen, select **Security** and press Enter.
The **Security** screen is displayed.
3. Select **System/Admin Password** and create a password in the **Enter the new password** field.
Use the following guidelines to create the system password:
 - Password can be up to 32 characters.
 - Password must contain at least one special character: "(! " # \$ % & ' * + , - . / : ; < = > ? @ [\] ^ _ ` { | })")"
 - The password can contain numbers from 0 to 9.
 - The password can contain alphabets A to Z and a to z.
4. Type the system password that you entered earlier in the **Confirm new password** field and click **OK**.
5. Press Y to save the changes.
The computer restarts.

Deleting or changing an existing system password or setup password

Prerequisites

Ensure that the **Password Status** is Unlocked in the System Setup before attempting to delete or change the existing system password and/or setup password. You cannot delete or change an existing system password or setup password if the **Password Status** is Locked. To enter the System Setup, press F2 immediately after a power-on or reboot.

Steps

1. To enter the **System Setup**, press **F2** immediately after a power-on or reboot.
2. In the **System BIOS** or **System Setup** screen, select **System Security** and press Enter.
The **System Security** screen is displayed.
3. In the **System Security** screen, verify that the **Password Status** is Unlocked.
4. Select **System Password**. Update or delete the existing system password, and press Enter or Tab.
5. Select **Setup Password**. Update or delete the existing setup password, and press Enter or Tab.
 **NOTE:** If you change the system password and/or setup password, reenter the new password when prompted. If you delete the system password and/or setup password, confirm the deletion when prompted.
6. Press Esc. A message prompts you to save the changes.
7. Press Y to save the changes and exit from **System Setup**.
The computer restarts.

Clearing system and setup passwords

About this task

To clear the system or setup passwords, contact Dell technical support as described at [Contact Support](#).

 **NOTE:** For information about how to reset Windows or application passwords, see the documentation accompanying Windows or your application.

Troubleshooting

Handling swollen rechargeable Li-ion batteries

Like most laptops, Dell laptops use Lithium-ion batteries. One type of Lithium-ion battery is the rechargeable Li-ion battery. Rechargeable Li-ion batteries have increased in popularity in recent years and have become a standard in the electronics industry due to customer preferences for a slim form factor (especially with newer ultra-thin laptops) and long battery life. Inherent to rechargeable Li-ion battery technology is the potential for swelling of the battery cells.

A swollen battery may impact the performance of the laptop. To prevent possible further damage to the device enclosure or internal components leading to malfunction, discontinue the use of the laptop and discharge it by disconnecting the AC adapter and letting the battery drain.

Swollen batteries should not be used and must be replaced and disposed of properly. We recommend contacting Dell Support for options to replace a swollen battery under the terms of the applicable warranty or service contract, including options for replacement by a Dell authorized service technician.

The guidelines for handling and replacing rechargeable Li-ion batteries are as follows:

- Exercise caution when handling rechargeable Li-ion batteries.
- Discharge the battery before removing it from the laptop. To discharge the battery, unplug the AC adapter from the computer and operate the computer only on battery power. The battery is fully discharged when the computer no longer turns on when the power button is pressed.
- Do not crush, drop, mutilate, or penetrate the battery with foreign objects.
- Do not expose the battery to high temperatures, or disassemble battery packs and cells.
- Do not apply pressure to the surface of the battery.
- Do not bend the battery.
- Do not use tools of any type to pry on or against the battery.
- If a battery gets stuck in a device as a result of swelling, do not try to free it as puncturing, bending, or crushing a battery can be dangerous.
- Do not attempt to reassemble a damaged or swollen battery into a laptop.
- Swollen batteries that are covered under warranty should be returned to Dell in an approved shipping container (provided by Dell)—this is to comply with transportation regulations. Swollen batteries that are not covered under warranty should be disposed of at an approved recycling center. Contact Dell Support at [Dell Support Site](#) for assistance and further instructions.
- Using a non-Dell or incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell that is designed to work with your Dell computer. Do not use a battery from other computers with your computer. Always purchase genuine batteries from [Dell Site](#) or otherwise directly from Dell.

Rechargeable Li-ion batteries can swell for various reasons such as age, number of charge cycles, or exposure to high heat. For more information about how to improve the performance and lifespan of the laptop battery and to minimize the possibility of occurrence of the issue, search Dell laptop battery at [Dell Support Site](#).

Dell SupportAssist Pre-boot System Performance Check diagnostics

About this task

SupportAssist diagnostics (also known as system diagnostics) performs a complete check of your hardware. The Dell SupportAssist Pre-boot System Performance Check diagnostics is embedded within the BIOS and launched by the BIOS internally. The embedded system diagnostics provides options for particular devices or device groups allowing you to:

- Run tests automatically or in an interactive mode.
- Repeat the tests.
- Display or save test results.
- Run thorough tests to add more options and obtain details about any failed devices.

- View status messages that inform you when the tests are completed successfully.
 - View error messages that inform you of problems encountered during testing.
- NOTE:** Some tests for specific devices require user interaction. Always ensure that you are present at the computer when the diagnostic tests are performed.

For more information, see [How to Run Dell Preboot Diagnostics and Hardware Tests on Your Dell Computer](#).

Running the SupportAssist Pre-Boot System Performance Check

Steps

1. Turn on your computer.
2. As the computer boots, press the F12 key.
3. On the boot menu screen, select **Diagnostics**.
The diagnostic quick test begins.

NOTE: For more information about running the SupportAssist Pre-Boot System Performance Check on a specific device, see [Dell Support Site](#).
4. If there are any issues, error codes are displayed.
Note the error code and validation number and contact Dell.

Built-in self-test (BIST)

Motherboard Built-In Self-Test (M-BIST)

M-BIST is the system board onboard self-test diagnostics tool that improves the diagnostics accuracy of system board Embedded Controller (EC) failures.

- NOTE:** M-BIST can be manually initiated before Power On Self-Test (POST).

How to run M-BIST

- NOTE:** Before initiating M-BIST, ensure that the computer is in a power-off state.
1. Press and hold both the **M** key and the power button to initiate M-BIST.
 2. The battery-status light may exhibit two states:
 - Off: No fault was detected.
 - Amber and White: Indicates a problem with the system board.
 3. If there is a failure with the system board, the battery-status light flashes one of the following error codes for 30 seconds:

Table 52. LED error codes

Blinking Pattern		Possible Problem
Amber	White	
2	1	CPU Failure
2	8	LCD Power Rail Failure
1	1	TPM Detection Failure
2	4	Memory/RAM failure

4. If there is no failure with the system board, the LCD cycles through the solid color screens (that are described in the LCD-BIST) for 30 seconds and then turn off.

Logic Built-in Self-test (L-BIST)

L-BIST is an enhancement to the single LED error code diagnostics and is automatically initiated during POST. L-BIST will check the LCD power rail. If there is no power being supplied to the LCD (that is if the L-BIST circuit fails), the battery status LED flashes either an error code [2,8] or an error code [2,7].

 **NOTE:** If L-BIST fails, LCD-BIST cannot function as no power will be supplied to the LCD.

How to invoke the L-BIST

1. Turn on your computer.
2. If the computer does not start up normally, look at the battery status LED:
 - If the battery status LED flashes an error code [2,7], the display cable may not be connected properly.
 - If the battery status LED flashes an error code [2,8], there is a failure on the LCD power rail of the system board, hence there is no power that is supplied to the LCD.
3. For cases, when a [2,7] error code is shown, check to see if the display cable is properly connected.
4. For cases when a [2,8] error code is shown, replace the system board.

LCD Built-in Self-Test (LCD-BIST)

Dell laptops have a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with the LCD (screen) of the Dell laptop or with the video card (GPU) and computer settings.

When you notice screen abnormalities like flickering, distortion, clarity issues, fuzzy or blurry image, horizontal or vertical lines, color fade, it is always a good practice to isolate the LCD (screen) by running the LCD-BIST.

How to invoke the LCD-BIST

1. Turn off your computer.
2. Disconnect any peripherals that are connected to the computer. Connect only the AC adapter (charger) to the computer.
3. Ensure that the LCD (screen) is clean (no dust particles on the surface of the screen).
4. Press and hold the **D** key and press the power button to enter LCD-BIST mode. Continue to hold the **D** key until the computer boots up.
5. The screen displays solid colors and changes colors on the entire screen to white, black, red, green, and blue twice.
6. Then it displays the colors white, black, and red.
7. Carefully inspect the screen for abnormalities (any lines, fuzzy color, or distortion on the screen).
8. At the end of the last solid color (red), the computer shuts down.

 **NOTE:** Dell SupportAssist Preboot diagnostics upon launch initiates an LCD-BIST first, expecting a user intervention to confirm functionality of the LCD.

System-diagnostic lights

This section lists the system-diagnostic lights of your Dell Pro 14 PC14255.

The following table shows different Service LED blinking patterns and associated problems. The diagnostic light codes consist of a two-digit number, and the digits are separated by a comma. The number stands for a blinking pattern; the first digit shows the number of blinks in amber color, and the second digit shows the number of blinks in white color. The Service LED blinks in the following manner:

- The Service LED blinks the number of times equal to the value of the first digit and turns off with a short pause.
- After that, the Service LED blinks the number of times equal to the value of the second digit.
- The Service LED turns off again with a longer pause.
- After the second pause, the blinking pattern will be repeated.

Table 53. Diagnostic light codes

Diagnostic light codes (Amber, White)	Problem description
1,1	TPM Detection Failure
1,2	Unrecoverable SPI Flash Failure
1,5	EC unable to program i-Fuse
1,6	Generic catch-all for ungraceful EC code flow errors
1,7	Non-RPMC Flash on Boot Guard fused system
1,8	Chipset "Catastrophic Error" signal has tripped
2,1	CPU configuration or CPU failure
2,2	System board: BIOS or Read-Only Memory (ROM) failure
2,3	No memory or Random-Access Memory (RAM) detected
2,4	Memory or Random-Access Memory (RAM) failure
2,5	Invalid memory installed
2,6	System board/Chipset Error
2,7	LCD failure SBIOS message
2,8	Display power-rail failure on the system board
3,1	RTC power failure
3,2	PCI of Video card/chip failure
3,3	Recovery image not found
3,4	Recovery image found but invalid
3,5	EC power-rail error
3,6	Flash corruption detected by SBIOS
3,7	Timeout waiting on ME to reply to HECI message
4,1	Memory DIMM power rail failure
4,2	CPU Power cable connection issue
4,4	LCD Power Rail Failure

Recovering the operating system

When your computer is unable to boot to the operating system even after repeated attempts, it automatically starts Dell SupportAssist OS Recovery.

Dell SupportAssist OS Recovery is a stand-alone tool that is preinstalled on Dell computers running the Windows operating system. It consists of tools to diagnose and troubleshoot issues that may occur before your computer boots to the operating system. It enables you to diagnose hardware issues, repair your computer, back up your files, and restore your computer to its factory state.

You can also download it from the Dell Support website to troubleshoot and fix your computer when it fails to boot into the primary operating system due to software or hardware failures.

For more information about the Dell SupportAssist OS Recovery, see *Dell SupportAssist OS Recovery User's Guide* at [Serviceability Tools at the Dell Support Site](#). Click **SupportAssist** and then click **SupportAssist OS Recovery**.

 **NOTE:** Windows 11 IoT Enterprise LTSC 2024 and Dell ThinOS 10 do not support Dell SupportAssist. For more information about recovering ThinOS 10, see [Recovery mode using R-Key](#).

Real-Time Clock (RTC Reset)

The Real-Time Clock (RTC) reset function enables you or the service technician to recover Dell computers from No POST/No Power/No Boot situations.

Start the RTC reset with the computer powered off and connected to AC power. Press and hold the power button for twenty-five seconds. The computer RTC Reset occurs after you release the power button.

Backup media and recovery options

It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows. Dell provides multiple options for recovering the Windows operating system on your Dell computer. For more information, see [Dell Windows Backup Media and Recovery Options](#).

Network power cycle

About this task

If your computer is unable to access the Internet due to network connectivity issues, reset your network devices by performing the following steps:

Steps

1. Turn off the computer.
2. Turn off the modem.
 **NOTE:** Some Internet service providers (ISPs) provide a modem and router combo device.
3. Turn off the wireless router.
4. Wait for 30 seconds.
5. Turn on the wireless router.
6. Turn on the modem.
7. Turn on the computer.

Drain flea power (perform hard reset)

About this task

Flea power is the residual static electricity that remains in the computer even after it has been powered off and the battery is removed.

For your safety, and to protect the sensitive electronic components in your computer, you must drain residual flea power before removing or replacing any components in your computer.

Draining flea power, also known as a performing a "hard reset," is also a common troubleshooting step if your computer does not turn on or boot into the operating system.

Perform the following steps to drain the flea power:

Steps

1. Turn off the computer.
2. Disconnect the power adapter from the computer.

3. Remove the [base cover](#).
4. Remove the [battery](#).
5. Press and hold the power button for 20 seconds to drain the flea power.
6. Install the [battery](#).
7. Install the [base cover](#).
8. Connect the power adapter to the computer.
9. Turn on the computer.

NOTE: For more information about performing a hard reset, go to [Dell Support Site](#). On the menu bar at the top of the Support page, select Support > Support Library. In the Search field on the Support Library page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

LAN connectivity issue with Dell Pro Smart Docks and Thunderbolt Docks

Issue Overview: When your computer is connected to a Dell Pro Smart Dock or Thunderbolt Dock, and the RJ45 ethernet cable is connected through the ethernet port on the dock, you may not receive LAN connectivity to your computer.

Table 54. Possible issues and solutions:

Possible issue	Solution
The external USB ports on your computer are disabled.	Go to the BIOS Setup menu > Integrated Devices > USB Configuration . Ensure that the Enable External USB Ports option is enabled.
Your computer is installed with software that restricts USB access. Some organizations may require enterprise users to install software that restricts access to USB ports on the computer, hence affecting the functionality of the computer.	If the dock does not provide LAN connectivity, connect the RJ45 ethernet cable to the ethernet port on your computer to restore LAN access. NOTE: If your laptop does not have an RJ45 ethernet port, connect to a wireless network.

Getting help and contacting Dell Technologies

Self-help resources

You can get information and help on Dell Technologies products and services using these self-help resources:

Table 55. Self-help resources

Self-help resources	Resource location
Information about Dell Technologies products and services	Dell Site
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	Windows Support Site
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	Your Dell Technologies computer is uniquely identified using a Service Tag or Express Service Code. To view relevant support resources for your Dell Technologies computer, enter the Service Tag or Express Service Code at Dell Support Site. For more information about how to find the Service Tag for your computer, see Instructions on how to find your Service Tag or Serial Number.
Dell Technologies knowledge base articles	1. Go to Dell Support Site. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell Technologies

To contact Dell Technologies for sales, technical support, or customer service issues, see [Contact Support at Dell Support Site](#).

 **NOTE:** Availability of the services may vary depending on the country or region, and product.

 **NOTE:** If you do not have an active Internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell Technologies product catalog.

Revision history

Tracks all updates that are made to the document. It typically includes the date of change, version number, and a brief description of the modification. This log helps maintain transparency, accountability, and a clear timeline of progress.

Table 56. Revision history

Revision	Date	Description
A00	03-26-2025	Original publish date.
A02	08-11-2025	• Updated storage specifications.
A03	13-10-2025	• Updated power adapter requirements specifications. • Updated battery specifications.