

Inspiron 13

7000 Series

Service Manual

Computer Model: Inspiron 13-7359
Regulatory Model: P57G
Regulatory Type: P57G002



Notes, cautions, and warnings



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



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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Before working inside your computer

 **CAUTION:** To avoid damaging the components and cards, handle them by their edges and avoid touching pins and contacts.









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

Before you begin

- 1 Save and close all open files and exit all open applications.
 - 2 Shut down your computer.
 - Windows 10: Click or tap **Start** →  **Power** → **Shut down**.
 - Windows 8.1: On the **Start** screen, click or tap the power icon  → **Shut down**.
 - Windows 7: Click or tap **Start** → **Shut down**.
-  **NOTE:** If you are using a different operating system, see the documentation of your operating system for shut-down instructions.
- 3 Disconnect your computer and all attached devices from their electrical outlets.
 - 4 Disconnect all cables such as telephone cables, network cables and so on, from your computer.
 - 5 Disconnect all attached devices and peripherals, such as keyboard, mouse, monitor, and so on, from your computer.
 - 6 Remove any media card and optical disc from your computer, if applicable.

Safety instructions

Use the following safety guidelines to protect your computer from potential damage and ensure your personal safety.

-  **WARNING:** Before working inside your computer, read the safety information that shipped with your computer. For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.
-  **WARNING:** Disconnect 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 to the power source.
-  **CAUTION:** To avoid damaging the computer, ensure that the work surface is flat and clean.
-  **CAUTION:** To avoid damaging the components and cards, handle them by their edges and avoid touching pins and contacts.
-  **CAUTION:** You should only perform troubleshooting and repairs as authorized or directed by the Dell technical assistance team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. See the safety instructions that shipped with the product or at www.dell.com/regulatory_compliance.
-  **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:** When you disconnect a cable, pull on its connector or on its pull tab, not on the cable itself. Some cables have connectors with locking tabs or thumb-screws that you must disengage before disconnecting the cable. When disconnecting cables, keep them evenly aligned to avoid bending any connector pins. When connecting cables, ensure that the ports and connectors are correctly oriented and aligned.
-  **CAUTION:** Press and eject any installed card from the media-card reader.

Recommended tools

The procedures in this document may require the following tools:

- Phillips screwdriver

- Plastic scribe

After working inside your computer



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

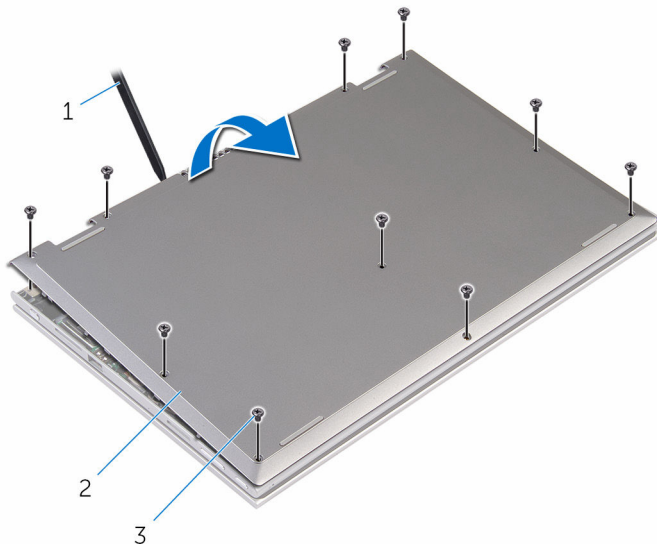
- 1 Replace all screws and ensure that no stray screws remain inside your computer.
- 2 Connect any external devices, peripherals, and cables you removed before working on your computer.
- 3 Replace any media cards, discs, and any other parts that you removed before working on your computer.
- 4 Connect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

Removing the base cover

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Procedure

- 1 Close the display and turn the computer over.
- 2 Remove the screws that secure the base cover to the computer base.
- 3 Using a plastic scribe, pry the base cover away from the computer base.



- | | | | |
|---|----------------|---|------------|
| 1 | plastic scribe | 2 | base cover |
| 3 | screws (10) | | |

Replacing the base cover



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Procedure

- 1 Slide the tabs on the base cover into the slots on the computer base and snap the base cover into place.
- 2 Replace the screws that secure the base cover to the computer base.

Removing the battery

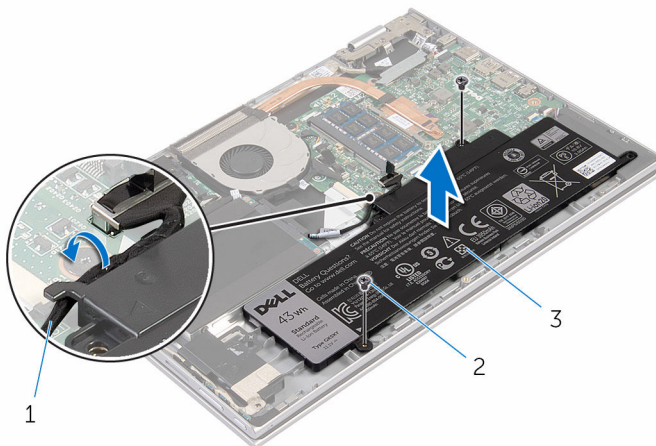
⚠ WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Prerequisites

Remove the [base cover](#).

Procedure

- 1 Remove the screws that secure the battery to the palmrest and keyboard assembly.
- 2 Remove the hard-drive cable from the routing guides on the battery.
- 3 Lift the battery off the palmrest and keyboard assembly.



1 hard-drive cable

2 screws (2)

3 battery

- 4** Turn the computer over.
- 5** Press and hold the power button for 5 seconds, to ground the system board.

Replacing the battery



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Procedure

- 1 Align the screw holes on the battery with the screw holes on the palmrest and keyboard assembly and place the battery on the palmrest and keyboard assembly.
- 2 Route the hard-drive cable through the routing guides on the battery.
- 3 Replace the screws that secure the battery to the palmrest and keyboard assembly.

Post-requisites

Replace the [base cover](#).

Removing the memory module



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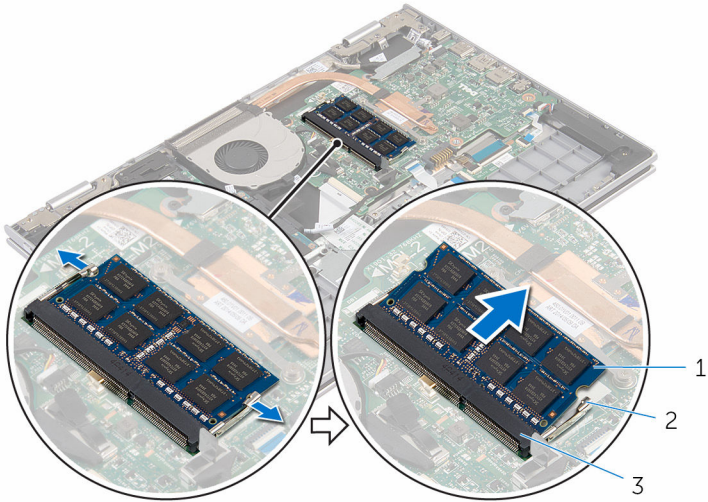
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

- 1 Use your fingertips to carefully spread apart the securing-clips on each end of the memory-module slot until the memory module pops up.

2 Remove the memory module from the memory-module slot.



1 memory module

2 securing clips (2)

3 memory-module slot

Replacing the memory module




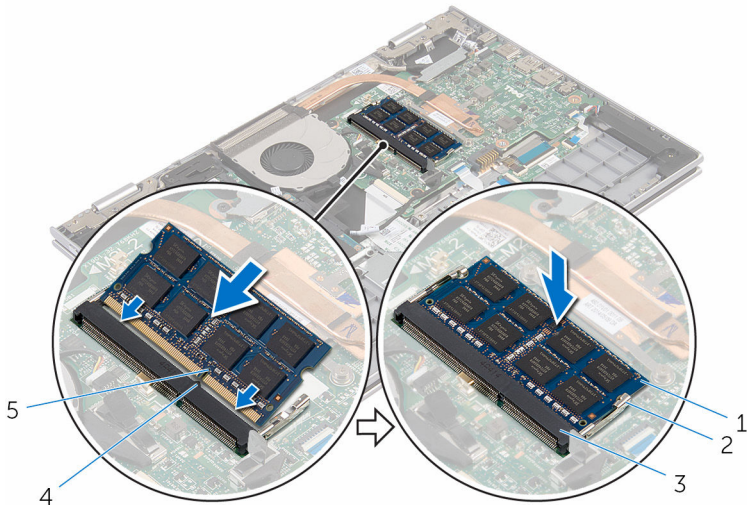
WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Procedure

- 1 Align the notch on the memory module with the tab on the memory-module slot.

- Slide the memory module firmly into the slot at an angle and 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.




- | | | | |
|---|--------------------|---|--------------------|
| 1 | memory module | 2 | securing clips (2) |
| 3 | memory-module slot | 4 | tab |
| 5 | notch | | |


Post-requisites

- Replace the [battery](#).
- Replace the [base cover](#).

Removing the hard drive

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 **CAUTION:** Hard drives are fragile. Exercise care when handling the hard drive.

 **CAUTION:** To avoid data loss, do not remove the hard drive while the computer is in sleep or on state.

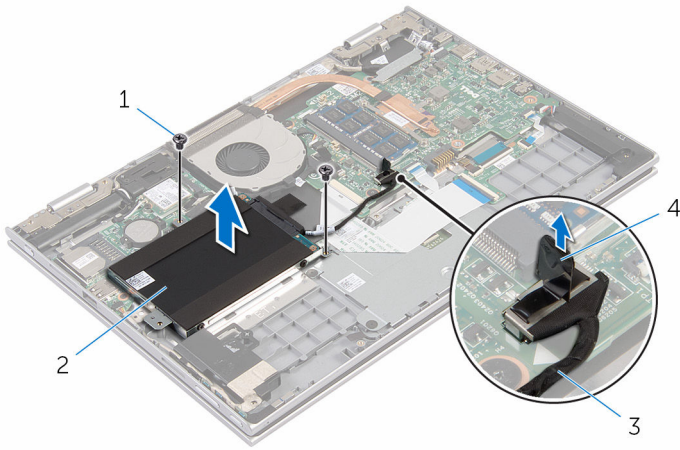
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

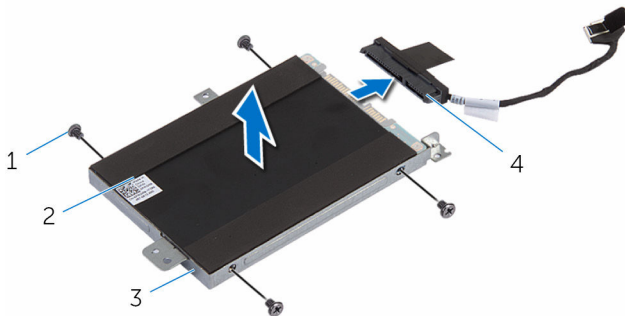
- 1 Remove the screws that secure the hard-drive assembly to the palmrest and keyboard assembly.
- 2 Using the pull tab, disconnect the hard-drive cable from the system board.

- 3** Lift the hard-drive assembly along with its cable off the palmrest and keyboard assembly.




- | | | | |
|---|------------------|---|---------------------|
| 1 | screws (2) | 2 | hard-drive assembly |
| 3 | hard-drive cable | 4 | pull tab |

- 4** Disconnect the interposer from the hard drive.
5 Remove the screws that secure the hard-drive bracket to the hard drive.
6 Lift the hard-drive bracket from the hard drive.



- | | | | |
|---|--------------------|---|------------|
| 1 | screws (4) | 2 | hard drive |
| 3 | hard-drive bracket | 4 | interposer |

Replacing the hard drive

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 **CAUTION:** Hard drives are fragile. Exercise care when handling the hard drive.



Procedure

- 1 Align the screw holes on the hard drive with the screw holes on the hard-drive bracket.
- 2 Replace the screws that secure the hard-drive bracket to the hard drive.
- 3 Connect the interposer to the hard-drive assembly.
- 4 Align the screw holes on the hard-drive assembly with the screw holes on the palmrest and keyboard assembly.
- 5 Replace the screws that secure the hard-drive assembly to the palmrest and keyboard assembly.
- 6 Connect the hard-drive cable to the system board.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the coin-cell battery

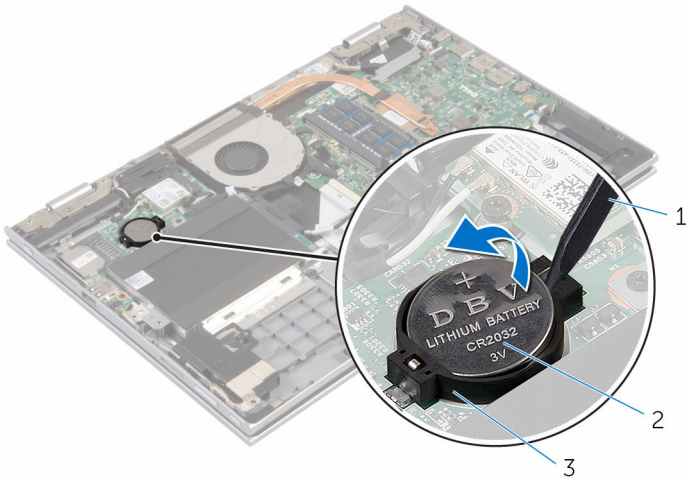
-  **WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.
-  **CAUTION:** Removing the coin-cell battery resets the BIOS setup program's settings to default. It is recommended that you note the BIOS setup program's settings before removing the coin-cell battery.

Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

Using a plastic scribe, gently pry the coin-cell battery out of the battery socket on the I/O board.



- 1 plastic scribe
- 3 battery socket

- 2 coin-cell battery

Replacing the coin-cell battery



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Procedure

With the positive-side facing up, snap the coin-cell battery into the battery socket on the I/O board.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the wireless card



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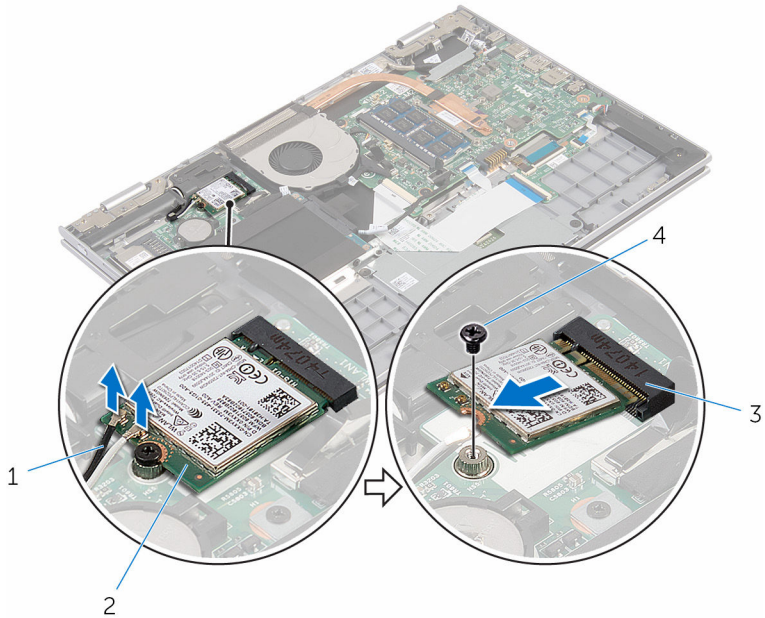
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

- 1 Disconnect the antenna cables from the wireless card.
- 2 Remove the screw that secures the wireless card to the I/O board.


3 Slide and remove the wireless card from the wireless-card slot.




- 1 antenna cables (2)
- 3 wireless-card slot

- 2 wireless card
- 4 screw

Replacing the wireless card

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Procedure

 **CAUTION:** To avoid damage to the wireless card, do not place any cables under it.

- 1 Align the notch on the wireless card with the tab on the wireless-card slot on the I/O board.
- 2 Insert the wireless card at an angle into the wireless-card slot.
- 3 Align the screw hole on the wireless card with the screw hole on the I/O board.
- 4 Replace the screw that secures the wireless card to the I/O board.
- 5 Connect the antenna cables to the wireless card.

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

Connectors on the wireless card	Antenna-cable color
Main (white triangle)	white
Auxiliary (black triangle)	black

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the keyboard daughter-board



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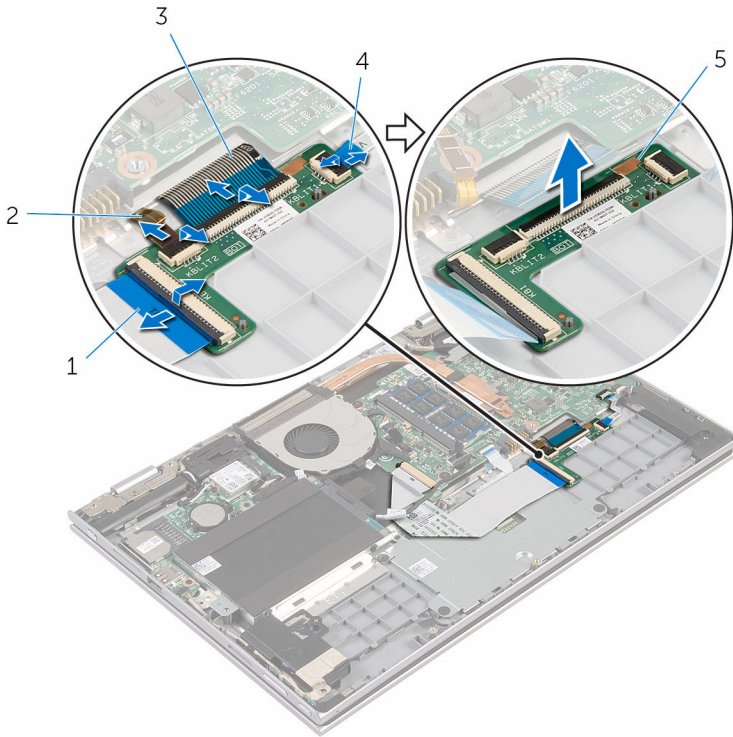
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

- 1 Lift the connector latches and disconnect the keyboard cables and keyboard-backlight cables from the keyboard daughter-board.

2 Lift the keyboard daughter-board off the palmrest and keyboard assembly.



1 keyboard cable

2 keyboard-backlight cable

3 keyboard cable

4 keyboard-backlight cable

5 keyboard daughter-board

Replacing the keyboard daughter-board



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Procedure

- 1 Place the keyboard daughter board on the palmrest and keyboard assembly.
- 2 Connect the keyboard cables and keyboard-backlight cables and press down the latches to secure the cables.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the power and volume-buttons board



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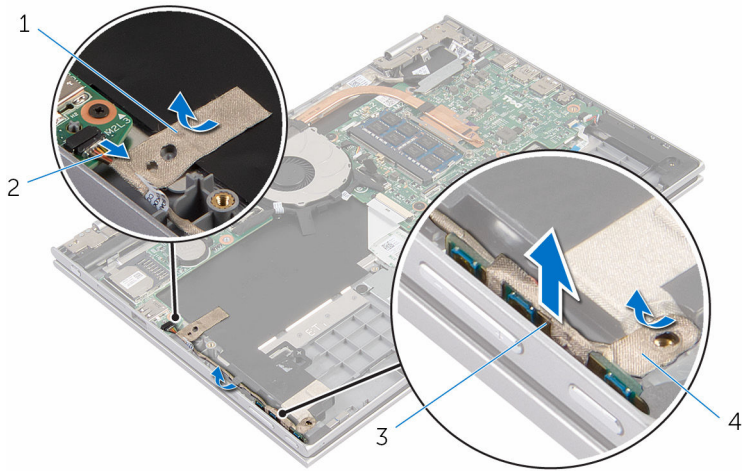
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Follow the procedure from step 1 to step 3 in "[Removing the hard drive](#)".

Procedure

- 1 Peel off the adhesive tape that secures the power and volume-buttons board cable to the palmrest and keyboard assembly.
- 2 Disconnect the power and volume-buttons board cable from the I/O board.
- 3 Remove the power and volume-buttons board cable from the routing guides on the speaker.
- 4 Peel off adhesive the tape that secures the power and volume-buttons board to the speaker.

- 5 Lift the power and volume-buttons board along with its cable, off the palmrest and keyboard assembly.



- | | | | |
|---|--------------------------------|---|--------------------------------------|
| 1 | adhesive tape | 2 | power and volume-buttons board cable |
| 3 | power and volume-buttons board | 4 | adhesive tape |

Replacing the power and volume-buttons board



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Procedure

- 1 Place the power and volume-buttons board into the slot on the palmrest and keyboard assembly.
- 2 Adhere the adhesive tape that secures the power and volume-buttons board to the speaker.
- 3 Route the power and volume-buttons board cable through the routing guides on the speaker.
- 4 Connect the power and volume-buttons board cable to the I/O board.
- 5 Adhere the adhesive tape that secures the power and volume-buttons board cable to the palmrest and keyboard assembly.

Post-requisites

- 1 Follow the procedure from step 4 to step 6 in "[Replacing the hard drive](#)".
- 2 Replace the [battery](#).
- 3 Replace the [base cover](#).

Removing the speakers



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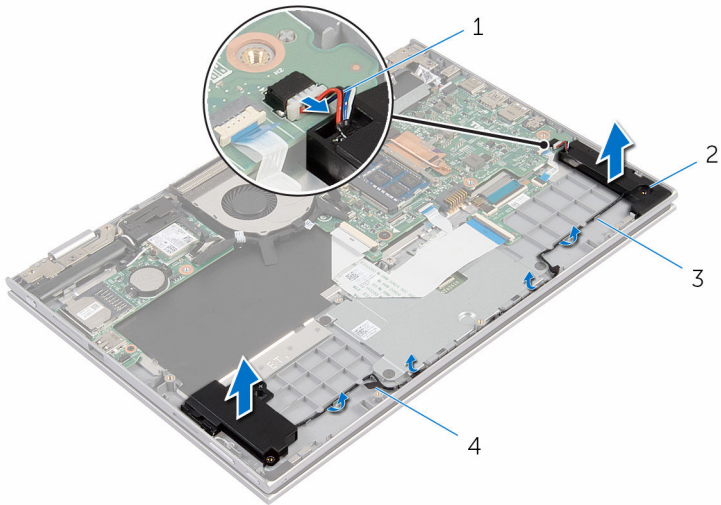
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [power and volume-buttons board](#).

Procedure

- 1 Disconnect the speaker cable from the system board.
- 2 Peel off the adhesive tape that secures the speaker cable to the palmrest and keyboard assembly.
- 3 Remove the speaker cable from the routing guides on the palmrest and keyboard assembly.

- 4 Release the speakers from the alignment posts and lift the speakers along with its cable off the palmrest and keyboard assembly.



- 1 speaker cable
3 routing guides

- 2 speakers (2)
4 adhesive tape

Replacing the speakers



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Procedure

- 1 Using the alignment posts on the palmrest and keyboard assembly, place the speakers on the palmrest and keyboard assembly.
- 2 Route the speaker cable through the routing guides on the palmrest and keyboard assembly.
- 3 Adhere the adhesive tapes that secure the speaker cable on the palmrest and keyboard assembly.
- 4 Connect the speaker cable to the system board.

Post-requisites

- 1 Replace the [power and volume-buttons board](#).
- 2 Replace the [battery](#).
- 3 Replace the [base cover](#).

Removing the touch pad

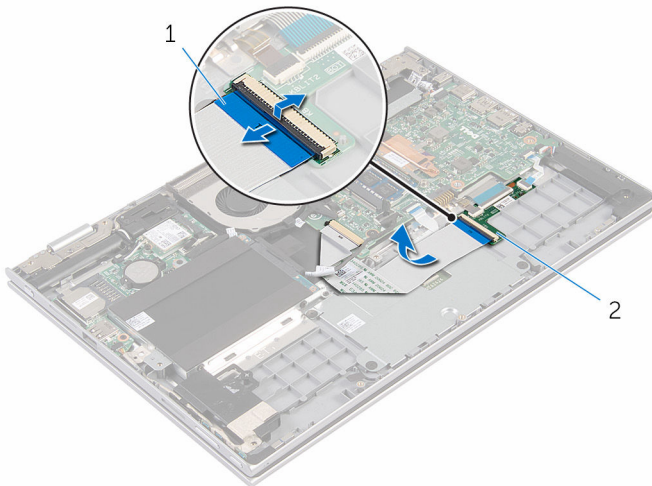
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Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

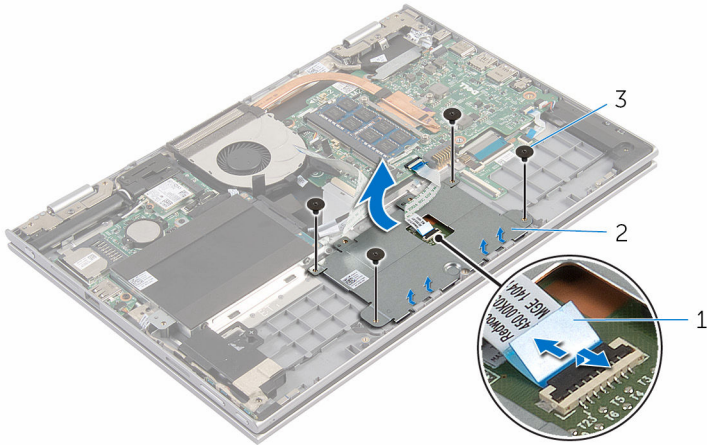
- 1 Lift the connector latch and disconnect the keyboard cable from the keyboard daughter-board.



1 keyboard cable

2 keyboard daughter-board

- 2 Lift the connector latch and disconnect the touch-pad cable from the touch pad.
- 3 Remove the screws that secure the touch-pad bracket to the palmrest and keyboard assembly.
- 4 Lift the touch-pad bracket off the palmrest and keyboard assembly.

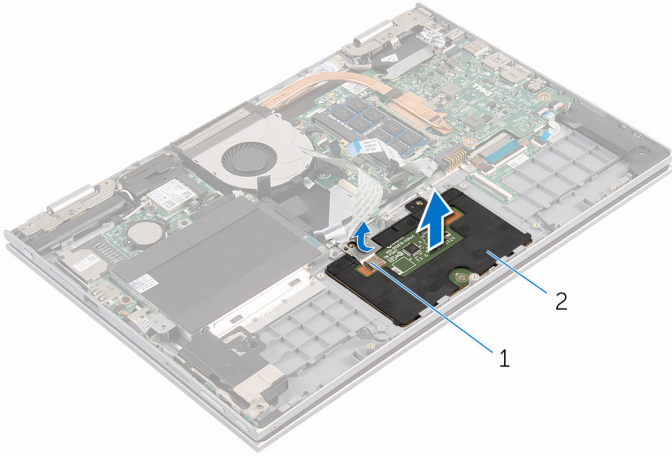


- 1 touch-pad cable
- 3 screws (4)

- 2 touch-pad bracket

- 5 Peel off the adhesive tape that secures the touch pad to the palmrest and keyboard assembly.

6 Lift the touch pad away from the computer.



1 adhesive tape

2 touch pad

Replacing the touch pad



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Procedure

- 1 Slide the tabs on the touch pad into the slots on the palmrest and keyboard assembly.
- 2 Adhere the adhesive tape that secures the touch pad to the palmrest and keyboard assembly.
- 3 Align the screw holes on the touch-pad bracket with the screw holes on the palmrest and keyboard assembly.
- 4 Replace the screws that secure the touch-pad bracket to the palmrest and keyboard assembly.
- 5 Slide the touch-pad cable into the touch-pad connector and press down the latch to secure the cable.
- 6 Slide the keyboard cable into the keyboard daughter-board connector and press down the latch to secure the cable.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the fan

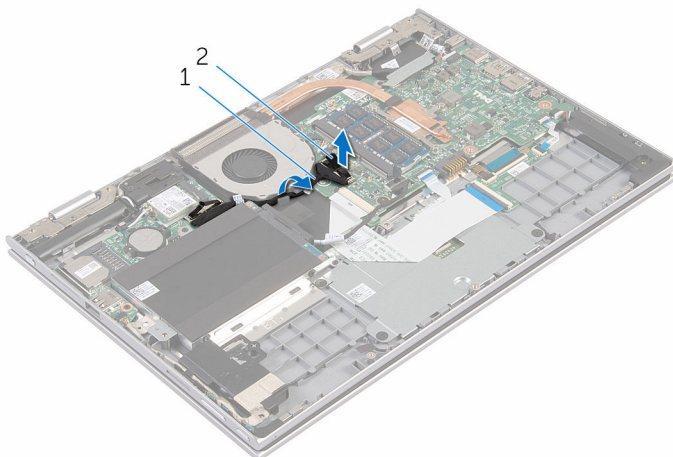
⚠ WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

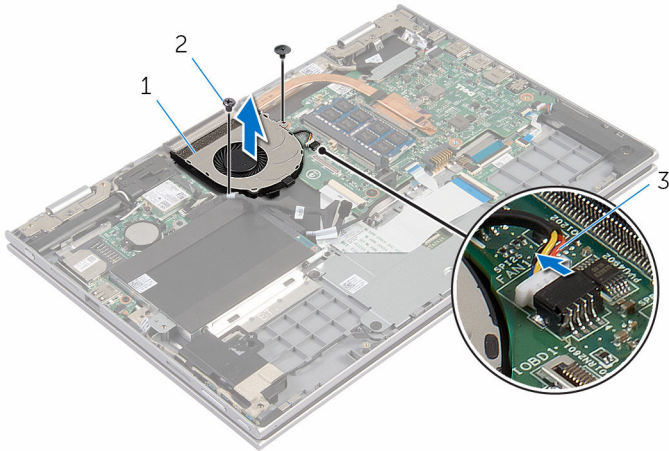
- 1 Using the pull tab, disconnect the I/O-board cable from the system board.
- 2 Remove the I/O-board cable from the routing guides on the fan.



1 I/O-board cable

2 I/O-board cable
connector

- 3 Disconnect the fan cable from the system board.
- 4 Remove the screws that secure the fan to the palmrest and keyboard assembly.
- 5 Lift the fan off the palmrest and keyboard assembly.



- 1 fan
- 3 fan cable

- 2 screws (2)

Replacing the fan



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Procedure


- 1 Align the screw holes on the fan with the screw holes on the palmrest and keyboard assembly.
- 2 Replace the screws that secure the fan to the palmrest and keyboard assembly.
- 3 Connect the fan cable to the system board.
- 4 Route the I/O-board cable through the routing guides on the fan.
- 5 Slide the I/O-board cable into the I/O-board cable connector on the system board and press down the latch to secure the cable.


Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the heat sink

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 **WARNING:** The heat sink may become hot during normal operation. Allow sufficient time for the heat sink to cool before you touch it.

 **CAUTION:** For maximum cooling of the processor, do not touch the heat transfer areas on the heat sink. The oils in your skin can reduce the heat transfer capability of the thermal grease.

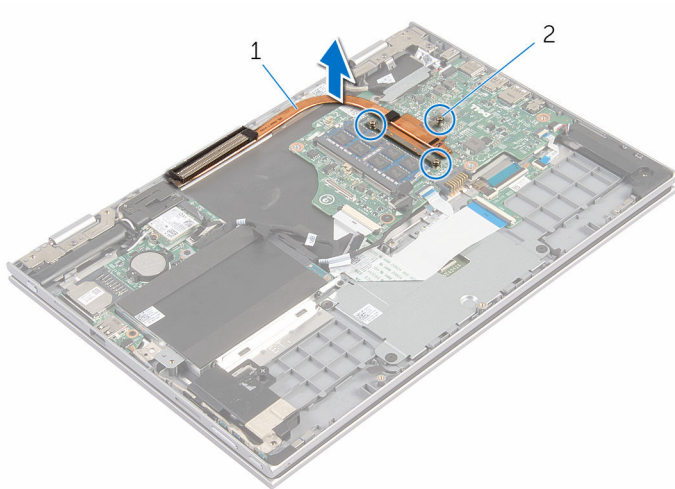
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

- 1 In sequential order (as indicated on the heat sink), loosen the captive screws that secure the heat sink to the system board.


2 Lift the heat sink off the system board.





1 heat sink

2 captive screws (3)

Replacing the heat sink

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 **CAUTION:** Incorrect alignment of the heat sink can cause damage to the system board and processor.

 **NOTE:** The original thermal grease can be reused if the original system board and heat sink are reinstalled together. If either the system board or the heat sink is replaced, use the thermal pad provided in the kit to ensure that thermal conductivity is achieved.

Procedure

- 1 Align the screw holes on the heat sink with the screw holes on the system board.
- 2 In sequential order (indicated on the heat sink), tighten the captive screws that secure the heat sink to the system board.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the I/O board



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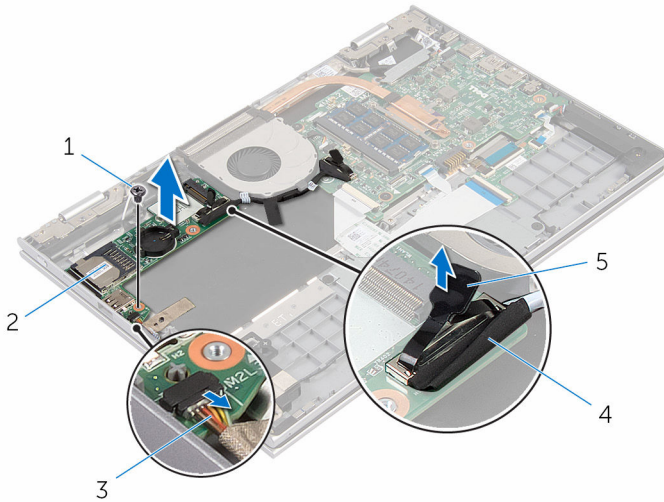
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [hard drive](#).
- 4 Remove the [wireless card](#).
- 5 Remove the [coin-cell battery](#).

Procedure

- 1 Using the pull tab, disconnect the I/O-board cable from the I/O board.
- 2 Disconnect the power and volume-buttons board cable from the I/O board.
- 3 Remove the screw that secures the I/O board to the palmrest and keyboard assembly.

- 4 Lift the I/O board off the palmrest and keyboard assembly.



- | | | | |
|---|---|---|-----------------|
| 1 | screw | 2 | I/O-board |
| 3 | power and volume-buttons
board cable | 4 | I/O-board cable |
| 5 | pull tab | | |

Replacing the I/O board



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Procedure

- 1 Using the alignment posts, place the I/O board on the palmrest and keyboard assembly.
- 2 Align the screw hole on the I/O board with the screw hole on the palmrest and keyboard assembly.
- 3 Replace the screw that secures the I/O board to the palmrest and keyboard assembly.
- 4 Connect the power and volume-buttons board cable to the I/O board.
- 5 Connect the I/O-board cable to the I/O board.

Post-requisites

- 1 Replace the [coin-cell battery](#).
- 2 Replace the [wireless card](#).
- 3 Replace the [hard drive](#).
- 4 Replace the [battery](#).
- 5 Replace the [base cover](#).

Removing the power-adapter port

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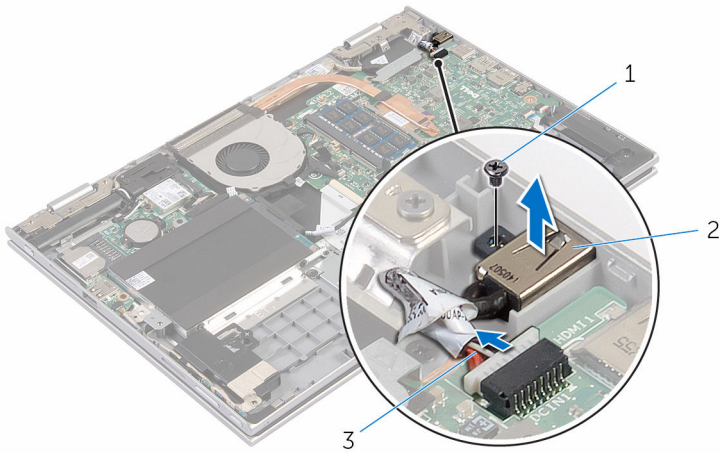
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).

Procedure

- 1 Disconnect the power-adapter port cable from the system board.
- 2 Remove the screw that secures the power-adapter port to the palmrest and keyboard assembly.

- 3** Lift the power-adapter port with its cable, off the palmrest and keyboard assembly.




1 screw

2 power-adapter port

3 power-adapter port cable

Replacing the power-adapter port

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Procedure

- 1 Place the power-adapter port into the slot on the palmrest and keyboard assembly.
- 2 Align the screw hole on the power-adapter port with the screw hole on the palmrest and keyboard assembly.
- 3 Connect the power-adapter port cable to the system board.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the system board



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NOTE: Your computer's Service Tag is stored in the system board. You must enter the Service Tag in the BIOS setup program after you replace the system board.



NOTE: Replacing the system board removes any changes you have made to the BIOS using the BIOS setup program. You must make the desired changes again after you replace the system board.



NOTE: Before disconnecting the cables from the system board, note the location of the connectors so that you can reconnect the cables correctly after you replace the system board.

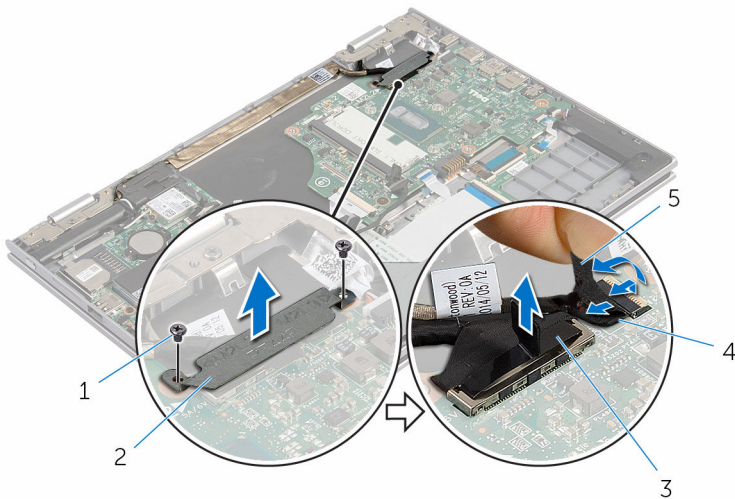
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [memory module](#).
- 4 Remove the [fan](#).
- 5 Remove the [heat sink](#).

Procedure

- 1 Remove the screws that secure the display-cable bracket to the system board and lift the display-cable bracket off the system board.
- 2 Using the pull tab disconnect the display cable from the system board.

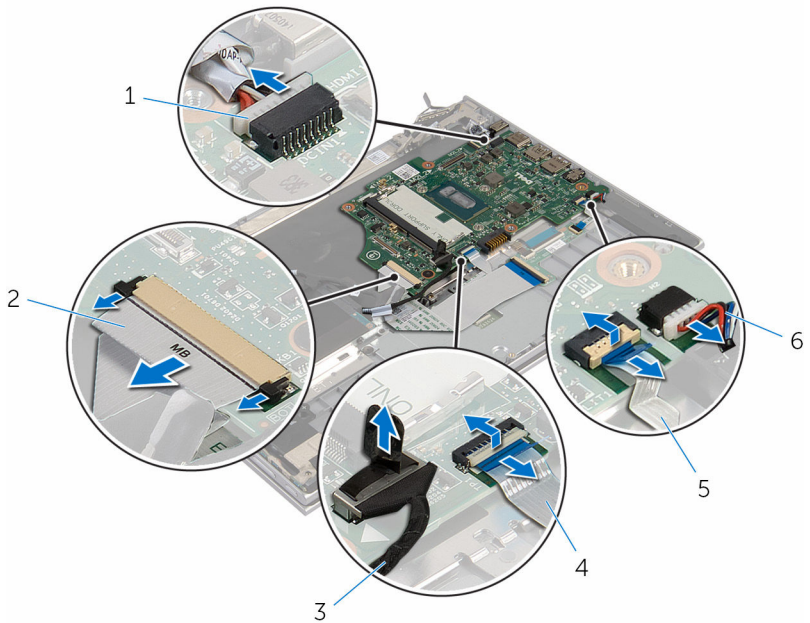
- 3** Peel off the adhesive tape on the Windows-button board connector and disconnect the Windows-button board cable from the system board.



- | | | | |
|---|---------------|---|----------------------------|
| 1 | screws (2) | 2 | display-cable bracket |
| 3 | display cable | 4 | windows-button board cable |
| 5 | adhesive tape | | |

- 4** Using the pull tab disconnect the hard-drive cable from the system board.
- 5** Release the latches and disconnect the keyboard cable from the system board.
- 6** Open the latches and disconnect the keyboard-backlight cable and the touch-pad cable from the system board.

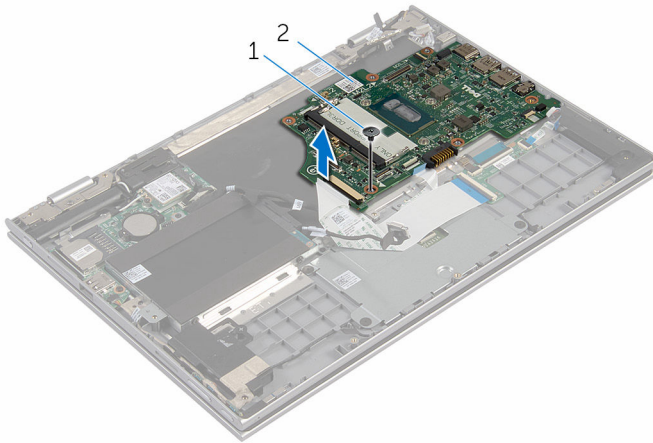
- 7** Disconnect the speaker cable and the power-adapter port cable from the system board.



- | | | | |
|---|--------------------------|---|-----------------|
| 1 | power-adapter port cable | 2 | keyboard cable |
| 3 | hard-drive cable | 4 | touch-pad cable |
| 5 | keyboard-backlight cable | 6 | speaker cable |

- 8** Remove the screw that secures the system board to the palmrest and keyboard assembly.


- 9 Lift the system board off the palmrest and keyboard assembly.





1 screw

2 system board

Replacing the system board

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 **NOTE:** Your computer's Service Tag is stored in the system board. You must enter the Service Tag in the BIOS setup program after you replace the system board.

 **NOTE:** Replacing the system board removes any changes you have made to the BIOS using the BIOS setup program. You must make the desired changes again after you replace the system board.

Procedure

- 1 Align the screw hole on the system board with the screw hole on the palmrest and keyboard assembly.
- 2 Replace the screw that secures the system board to the palmrest and keyboard assembly.
- 3 Connect the power-adaptor port cable and the speaker cable to the system board.
- 4 Slide the touch-pad cable and the keyboard-backlight cable into their connectors on the system board and close the latches to secure the cables.
- 5 Slide the keyboard cable into the connector and push the latches to secure the cable.
- 6 Connect the hard-drive cable to the system board.
- 7 Connect the Windows-button board cable to the connector on the system board and adhere the tape on the Windows-button board connector to secure the cable.
- 8 Connect the display cable to the system board.
- 9 Align the screw holes on the display-cable bracket with the screw holes on the system board.
- 10 Replace the screws that secure the display-cable bracket to the system board.

Post-requisites

- 1 Replace the [heat sink](#).
- 2 Replace the [fan](#).
- 3 Replace the [memory module](#).
- 4 Replace the [battery](#).
- 5 Replace the [base cover](#).

Entering the Service Tag in the BIOS setup program

- 1 Turn on the computer.
- 2 Press F2 when the DELL logo is displayed to enter the BIOS setup program.
- 3 Navigate to the **Main** tab and enter the Service Tag in the **Service Tag Input** field.

Removing the display assembly



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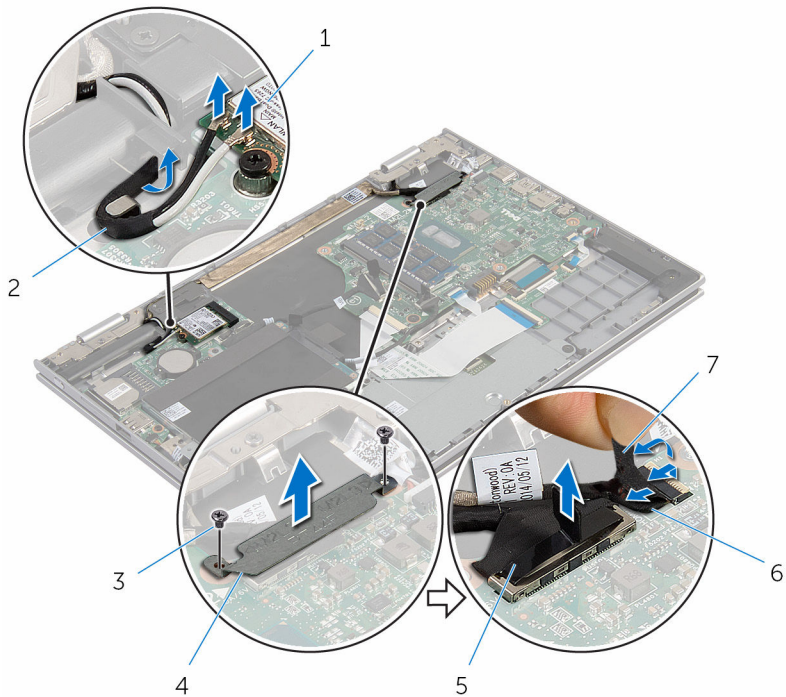
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [fan](#).
- 4 Remove the [heat sink](#).

Procedure

- 1 Disconnect the antenna cables from the wireless card.
- 2 Remove the screws that secure the display-cable bracket to the system board.
- 3 Lift the display-cable bracket off the system board.
- 4 Using the pull tab disconnect the display cable from the system board.

- 5 Peel off the adhesive tape on the Windows-button board connector and disconnect it from the system board.



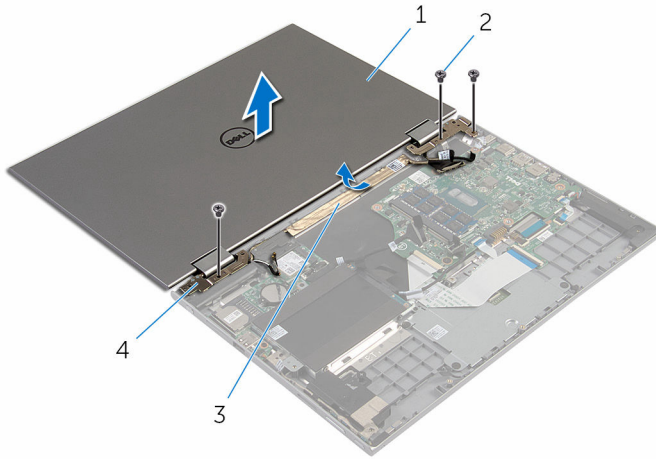
- | | | | |
|---|---------------|---|----------------------------|
| 1 | wireless card | 2 | antenna cables (2) |
| 3 | screws (2) | 4 | display-cable bracket |
| 5 | display cable | 6 | windows-button board cable |
| 7 | adhesive tape | | |

- 6 Turn the computer over and open the display as far as possible.

CAUTION: Place the computer on a soft and clean surface to avoid scratching the display.

- 7 Place the computer face down on a flat surface.
- 8 Remove the screws that secure the display assembly to the palmrest and keyboard assembly.
- 9 Peel off the adhesive tape that secures the display cable to the palmrest and keyboard assembly.

10 Lift the display assembly off the palmrest and keyboard assembly.




1 display assembly

2 screws (3)

3 adhesive tape

4 display hinges (2)

Replacing the display assembly

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Procedure

 **CAUTION:** Place the computer on a soft and clean surface to avoid scratching the display.

- 1 Place the display assembly on the palmrest and keyboard assembly.
- 2 Align the screw holes on the display hinges with the screw holes on the palmrest and keyboard assembly.
- 3 Adhere the adhesive tape that secures the the display cable to the palmrest and keyboard assembly.
- 4 Replace the screws that secure the display assembly to the palmrest and keyboard assembly.
- 5 Turn the computer over and close the display.
- 6 Slide the Windows button-board connector into the connector latch on the system board and press down the latch to secure the cable.
- 7 Adhere the tape to the Windows button-board cable.
- 8 Connect the display cable to the system board.
- 9 Align the screw holes on the display-cable bracket with the screw holes on the system board.
- 10 Replace the screws that secure the display-cable bracket to the system board.
- 11 Connect the antenna cables to the wireless card.

Post-requisites

- 1 Replace the [battery](#).
- 2 Replace the [base cover](#).

Removing the stylus-holder assembly



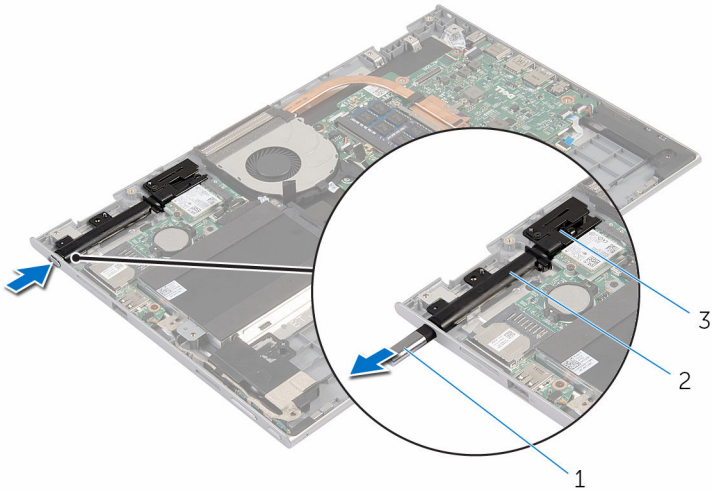
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Prerequisites

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

Procedure

- 1 Push to release the stylus from the stylus holder.

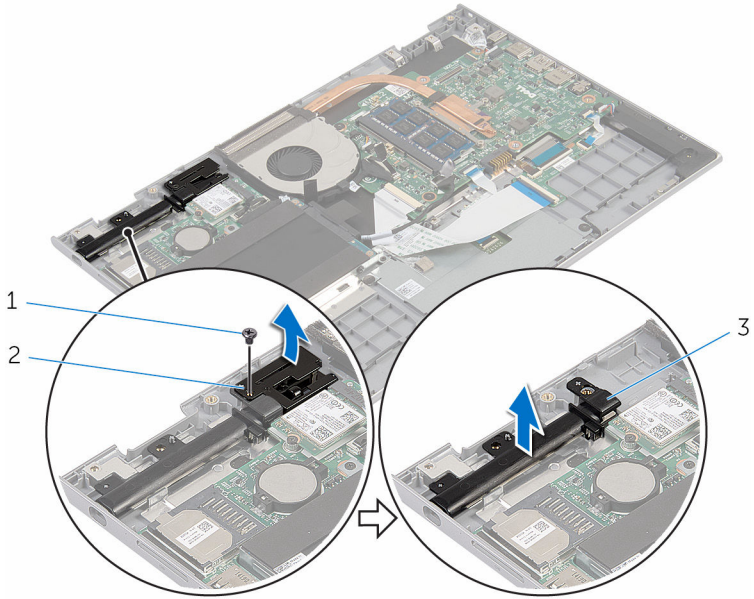


- 1 stylus
- 3 stylus lock

- 2 stylus holder

- 2 Remove the screw and lift the stylus lock from the palmrest and keyboard assembly.

3 Lift the stylus holder off the palmrest and keyboard assembly.




1 screw

2 stylus lock

3 stylus holder

Replacing the stylus-holder assembly

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Procedure

- 1 Place the stylus holder and stylus lock on the palmrest and keyboard assembly.
- 2 Align the screw hole on the stylus holder and stylus lock with the screw hole on the palmrest and keyboard assembly.
- 3 Replace the screw that secures the stylus holder and stylus lock to the palmrest and keyboard assembly.
- 4 Insert the stylus into the stylus holder and push to snap it in place.

Post-requisites

- 1 Replace the [display assembly](#).
- 2 Replace the [battery](#).
- 3 Replace the [base cover](#).

Removing the palm rest and keyboard assembly

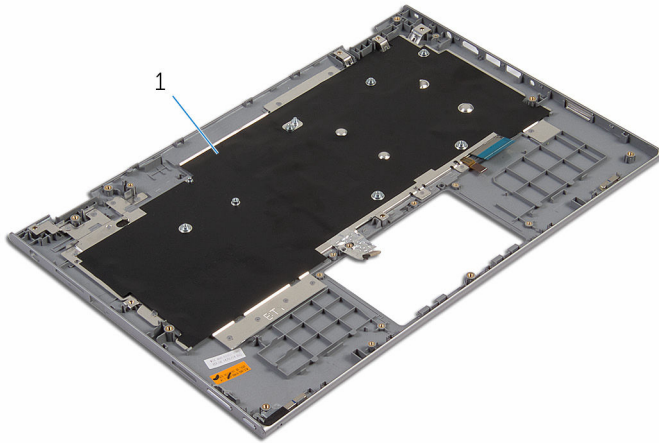
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Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Follow the procedure from step 1 to step 3 in "[Removing the hard drive](#)".
- 4 Remove the [stylus-holder assembly](#).
- 5 Remove the [keyboard daughter-board](#).
- 6 Remove the [touch pad](#).
- 7 Remove the [fan](#).
- 8 Remove the [heat sink](#).
- 9 Remove the [I/O board](#).
- 10 Remove the [speakers](#).
- 11 Remove the [display assembly](#).
- 12 Remove the [power-adaptor port](#).
- 13 Remove the [system board](#).


Procedure

After performing the steps in prerequisites we are left with the palmrest and keyboard assembly.



- 1 palmrest and keyboard assembly

Replacing the palm rest and keyboard assembly

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Procedure

Place the palmrest and keyboard assembly on a flat surface with the keyboard facing down.

Post-requisites

- 1 Replace the [system board](#).
- 2 Replace the [power-adapter port](#).
- 3 Replace the [display assembly](#).
- 4 Replace the [speakers](#).
- 5 Replace the [I/O board](#).
- 6 Replace the [heat sink](#).
- 7 Replace the [fan](#).
- 8 Replace the [touch pad](#).
- 9 Replace the [keyboard daughter-board](#).
- 10 Replace the [stylus-holder assembly](#).
- 11 Follow the procedure from step 4 to step 6 in "[Replacing the hard drive](#)".
- 12 Replace the [battery](#).
- 13 Replace the [base cover](#).

Removing the display panel

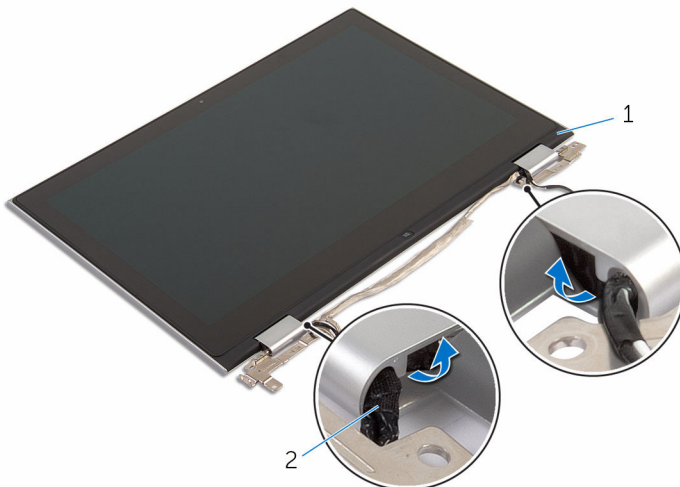
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Prerequisites

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

Procedure

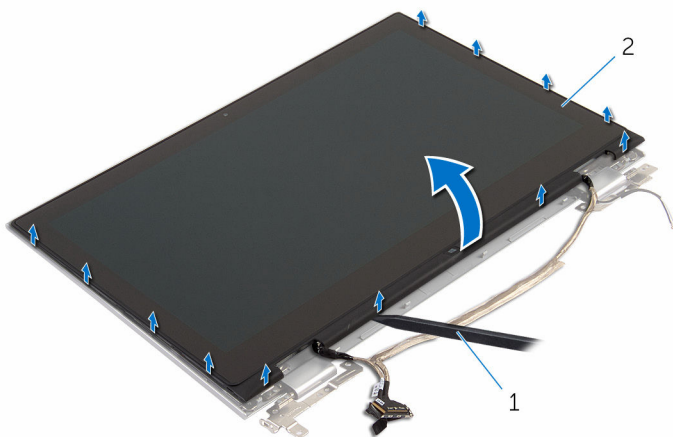
- 1 Remove the display cable from the routing guides inside the hinge covers.



1 display panel assembly

2 display cable

- 2 Using a plastic scribe, pry the display-panel assembly off the display back-cover and antenna assembly.



1 plastic scribe

2 display-panel assembly

- 3 Remove the [camera](#).
- 4 Remove the [Windows-button board](#).

After performing the above steps, we are left with the display panel.



1 display panel

Replacing the display panel



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Procedure

- 1 Place the display panel on a flat surface.
- 2 Replace the [Windows-button board](#).
- 3 Replace the [camera](#).
- 4 Route the display cable through the routing guides inside the hinge covers.
- 5 Align the display-panel assembly with the display back-cover and antenna assembly and gently snap the display back-cover and antenna assembly into place.

Post-requisites

- 1 Replace the [display assembly](#).
- 2 Replace the [battery](#).
- 3 Replace the [base cover](#).

Removing the display hinges



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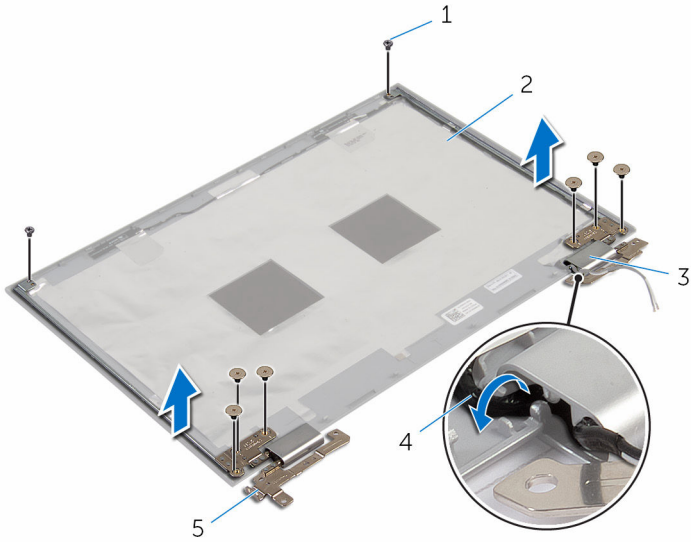
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [display assembly](#).
- 4 Remove the [display back-cover and antenna assembly](#).

Procedure

- 1 Place the display-back cover and antenna assembly on a flat surface.
- 2 Remove the antenna cables from the routing guide on the hinge cover.
- 3 Remove the screws that secure the display hinges to the display back-cover and antenna assembly.

- 4 Lift the display hinges off the display back-cover and antenna assembly.



- | | | | |
|---|--------------------|---|---|
| 1 | screws (8) | 2 | display back-cover and antenna assembly |
| 3 | hinge covers (2) | 4 | antenna cables (2) |
| 5 | display hinges (2) | | |

Replacing the display hinges



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Procedure

- 1 Align the screw holes on the display hinges with the screw holes on the display back-cover and antenna assembly.
- 2 Replace the screws that secure the display hinges to the display back-cover and antenna assembly.
- 3 Route the antenna cables through the routing guide on the hinge cover and secure it in place.

Post-requisites

- 1 Replace the [display back-cover and antenna assembly](#).
- 2 Replace the [display assembly](#).
- 3 Replace the [battery](#).
- 4 Replace the [base cover](#).

Removing the display back-cover and antenna assembly

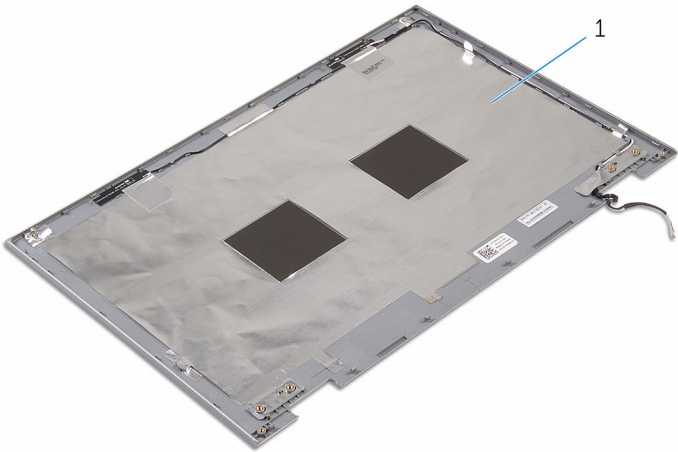
 **WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [display assembly](#).
- 4 Remove the [display panel](#).
- 5 Remove the [display hinges](#).


Procedure

After performing the steps in prerequisites we are left with the display back-cover and antenna assembly.



- 1 display back-cover and antenna assembly

Replacing the display back-cover and antenna assembly

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Procedure

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

Post-requisites

- 1 Replace the [display hinges](#).
- 2 Replace the [display panel](#).
- 3 Replace the [display assembly](#).
- 4 Replace the [battery](#).
- 5 Replace the [base cover](#).

Removing the camera



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Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [display assembly](#).
- 4 Remove the [display back-cover and antenna assembly](#).

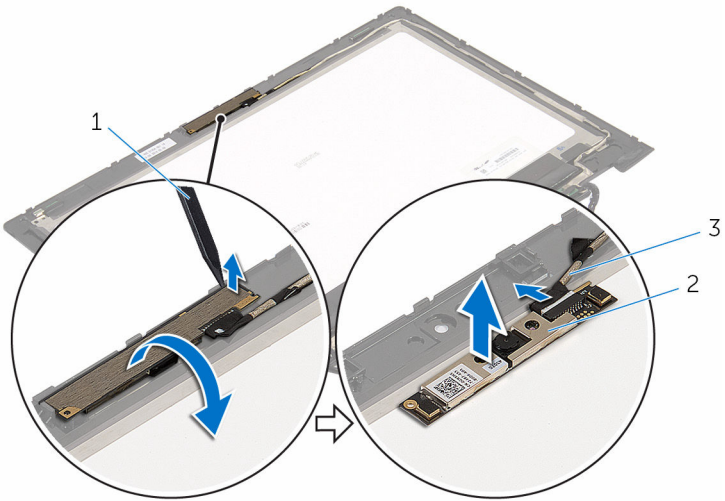
Procedure



CAUTION: Place the display-panel assembly on a soft and clean surface to avoid scratching the display.

- 1 Place the display-panel assembly face down on a flat surface.
- 2 Using a plastic scribe, pry the camera module off the display bezel.

- 3** Turn the camera over and disconnect the camera cable from the camera module.



1 plastic scribe

2 camera

3 camera cable

Replacing the camera



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Procedure

- 1 Connect the camera cable to the camera module.
- 2 Using the alignment post place the camera module on the display bezel and snap it into place.

Post-requisites

- 1 Replace the [display back-cover and antenna assembly](#).
- 2 Replace the [display assembly](#).
- 3 Replace the [battery](#).
- 4 Replace the [base cover](#).


Removing the Windows-button board

 **WARNING:** Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Prerequisites

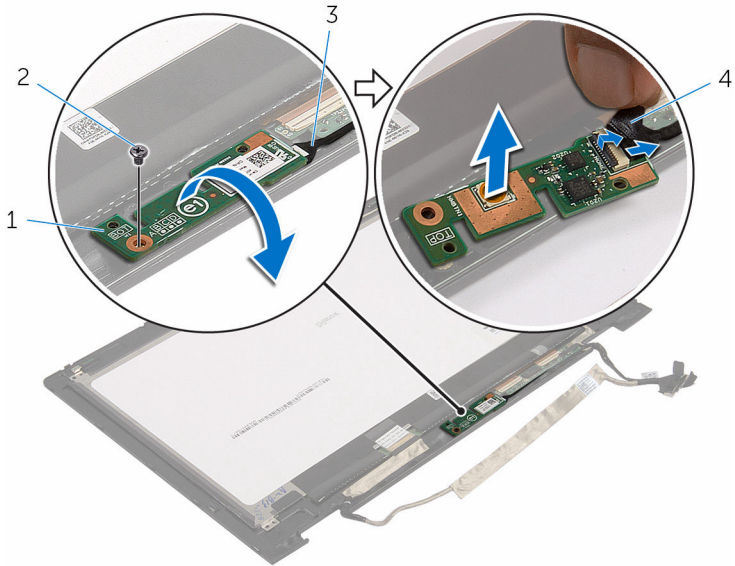
- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [display assembly](#).
- 4 Remove the [display back-cover and antenna assembly](#).

Procedure

 **CAUTION:** Place the display-panel assembly on a soft and clean surface to avoid scratching the display.

- 1 Place the display-panel assembly face down on a flat surface.
- 2 Remove the screw that secures the Windows-button board to the display bezel.
- 3 Turn the Windows-button board over.
- 4 Peel off the adhesive tape and disconnect the Windows-button board cable from the Windows-button board.


5 Lift the Windows-button board off the display bezel.



- 1 windows-button board
- 3 windows-button board cable

- 2 screw
- 4 adhesive tape

Replacing the Windows-button board

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Procedure

- 1 Slide the Windows-button board cable into the connector on the Windows-button board and press down the latch to secure the cable.
- 2 Turn the Windows-button board and align the screw hole on the Windows-button board with the screw hole on the display bezel.
- 3 Replace the screw that secures the Windows-button board to the display bezel.
- 4 Turn the display-panel assembly over.

Post-requisites

- 1 Replace the [display back-cover and antenna assembly](#).
- 2 Replace the [display assembly](#).
- 3 Replace the [battery](#).
- 4 Replace the [base cover](#).

Removing the display cable



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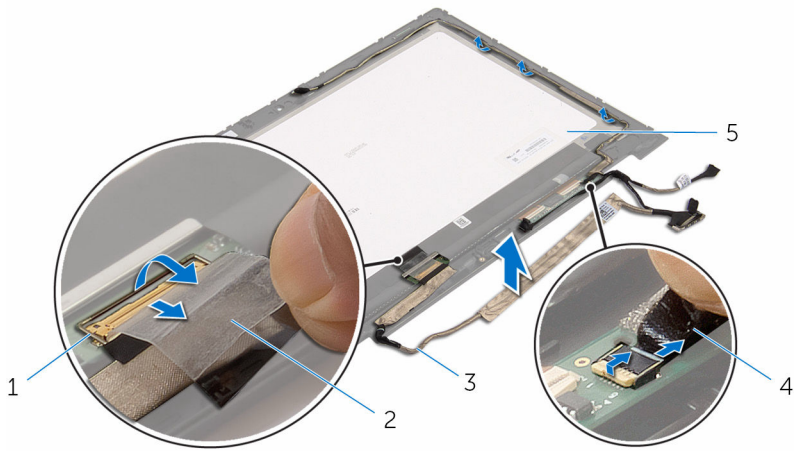
Prerequisites

- 1 Remove the [base cover](#).
- 2 Remove the [battery](#).
- 3 Remove the [display assembly](#).
- 4 Remove the [display back-cover and antenna assembly](#).
- 5 Remove the [camera](#).

Procedure

- 1 Peel off the adhesive tape and lift the latch to disconnect the display cable from the display panel.
- 2 Disconnect the Windows-button board cable.
- 3 Peel off the adhesive tape, lift the connector latch to disconnect the touch-screen board cable from the touch-screen board.
- 4 Remove the camera cable from the routing guides on the display bezel.
- 5 Lift the connector latch and disconnect the display cable from the touch board.
- 6 Note the display cable routing and remove the display cable from the routing guides on the display bezel.

7 Lift the display cable off the display bezel.



1 connector latch for display cable

2 adhesive tape

3 display cable

4 touch-screen board cable

5 display panel

Replacing the display cable



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in [Before working inside your computer](#). After working inside your computer, follow the instructions in [After working inside your computer](#). For more safety best practices, see the Regulatory Compliance home page at www.dell.com/regulatory_compliance.

Procedure


- 1 Route the display cable through the routing guides on the display bezel.
- 2 Slide the display cable into the connector on the touch board and press down the latch to secure the cable.
- 3 Route the camera cable through the routing guides on the display bezel.
- 4 Adhere the adhesive tape, connect the touch-screen board cable to the touch-screen board and press down the connector latch to secure the cable.
- 5 Slide the Windows-button board cable into the connector on the Windows-button board and press down the latch to secure the cable.
- 6 Adhere the adhesive tape on the Windows-button board connector.

Post-requisites

- 1 Replace the [display back-cover and antenna assembly](#).
- 2 Replace the [display assembly](#).
- 3 Replace the [camera](#).
- 4 Replace the [battery](#).
- 5 Replace the [base cover](#).

Flashing the BIOS

You may need to flash (update) the BIOS when an update is available or when you replace the system board. To flash the BIOS:

- 1 Turn on the computer.
- 2 Go to **www.dell.com/support**.
- 3 Click **Product Support**, enter the Service Tag of your computer and click **Submit**.
 **NOTE:** If you do not have the Service Tag, use the auto-detect feature or manually browse for your computer model.
- 4 Click **Drivers & downloads**.
- 5 Select the operating system installed on your computer.
- 6 Scroll down the page and expand **BIOS**.
- 7 Click **Download File** to download the latest version of the BIOS for your computer.
- 8 Save the file and, once the download is complete, navigate to the folder where you saved the BIOS update file.
- 9 Double-click the BIOS update file icon and follow the instructions on the screen.

Getting help and contacting Dell

Self-help resources

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

Information about Dell products and services

www.dell.com

Windows 8.1 and Windows 10

Dell Help & Support app



Windows 10

Get started app



Windows 8.1

Help + Tips app



Accessing help in Windows 8, Windows 8.1, and Windows 10

In Windows search, type **Help and Support**, and press **Enter**.

Accessing help in Windows 7

Click **Start** → **Help and Support**.

Online help for operating system

www.dell.com/support/windows
www.dell.com/support/linux

Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on

www.dell.com/support

Learn about your operating system, setting up and using your computer, data backup, diagnostics, and so on.

See *Me and My Dell* at www.dell.com/support/manuals.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.



NOTE: Availability varies by country and product, and some services may not be available in your country.



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

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