Inspiron 11 3000 Series Owner's Manual



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 8.1: On the **Start** screen, click or tap the power icon $\mathbf{0} \rightarrow$ 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 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, make sure 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: Only a certified service technician is authorized to remove the computer cover and access any of the components inside the computer. See the safety instructions for complete information about safety precautions, working inside your computer, and protecting against electrostatic discharge.



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, make sure that the ports and connectors are correctly oriented and aligned.



CAUTION: To disconnect a network cable, first unplug the cable from your computer and then unplug the cable from the network device.



CAUTION: Press and eject any installed card from the media-card reader

Recommended Tools

The procedures in this document may require the following tools:

- Philips screwdriver
- · Flat-head screwdriver
- Plastic scribe

After Working Inside Your Computer

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

- 1 Replace all screws and make sure 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 part(s) 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.

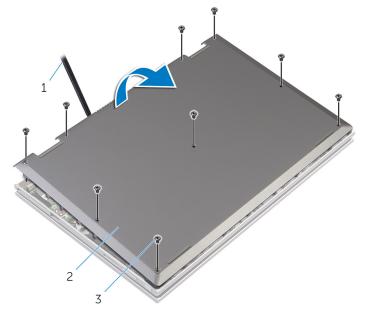
Removing the Base Cover



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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 out of the computer base.



- 1 plastic scribe
- 3 screws (9)

2 base cover

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



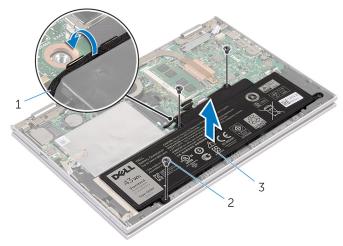
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Prerequisites

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 (3)

- 3 battery
- 4 Turn the computer over.

Press and hold the power button for 5 seconds, to ground the system board.

Replacing the Battery



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Procedure

- 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



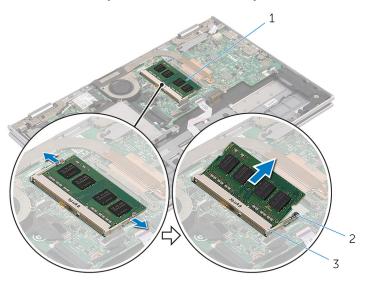
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Prerequisites

- 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

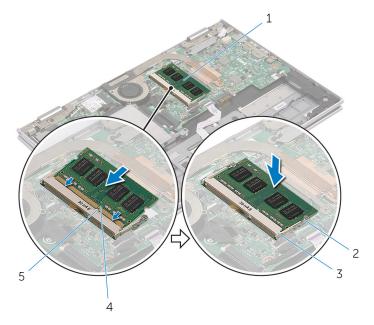


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Procedure

Align the notch on the memory module with the tab on the memorymodule slot.

- 2 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
- 3 memory-module slot
- 5 tab

- 2 securing clips (2)
- 4 notch

Post-requisites

- 1 Replace the <u>battery</u>.
- 2 Replace the <u>base cover</u>.

Removing the Hard Drive



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



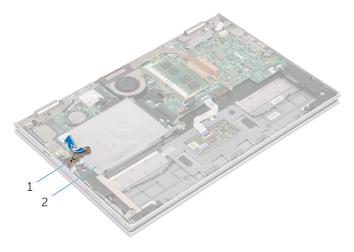
CAUTION: To avoid data loss, do not remove the hard drive while the computer is in Sleep or On state.

Prerequisites

- 1 Remove the base cover.
- 2 Remove the <u>battery</u>.

Procedure

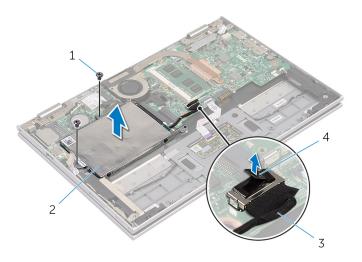
1 Peel off the adhesive tape from the hard-drive assembly.



1 adhesive tape

2 hard-drive assembly

- 2 Remove the screws that secure the hard-drive assembly to the palmrest and keyboard assembly.
- **3** Using the pull tab, disconnect the hard-drive cable from the system board.
- 4 Lift the hard-drive assembly along with its cable off the palmrest and keyboard assembly.



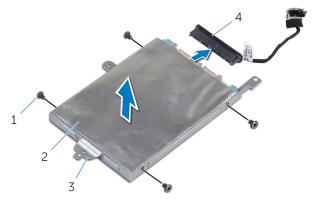
1 screws (2)

2 hard-drive assembly

3 hard-drive cable

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

7 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

- Align the screw holes on the hard drive with the screw holes on the harddrive bracket.
- 2 Replace the screws that secure the hard-drive bracket to the hard drive.
- **3** Connect the interposer to the hard drive.
- 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.
- 7 Adhere the adhesive tape to the hard-drive assembly.

Post-requisites

- 1 Replace the <u>battery</u>.
- 2 Replace the base cover.

Removing the Coin-Cell Battery

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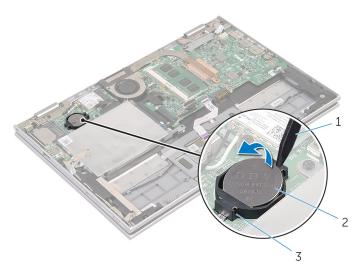
CAUTION: Removing the coin-cell battery resets the BIOS settings to default. It is recommended that you note the BIOS settings before removing the coin-cell battery.

Prerequisites

- 1 Remove the <u>base cover</u>.
- 2 Remove the battery.

Procedure

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



1 plastic scribe

2 coin-cell battery

3 battery socket

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 system board.

Post-requisites

- 1 Replace the battery.
- 2 Replace the base cover.

Removing the Wireless Card



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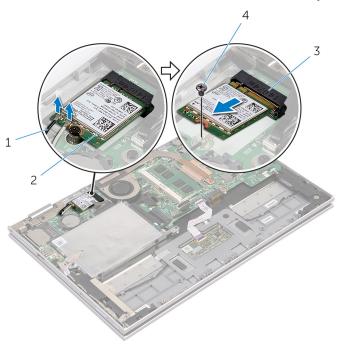
Prerequisites

- 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 system board.

3 Slide the wireless card from the wireless-card slot on the system board.



- 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 system 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 system board.
- **4** Replace the screw that secures the wireless card to the system 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 <u>battery</u>.
- 2 Replace the base cover.

Removing the Power and Volume-Buttons Board



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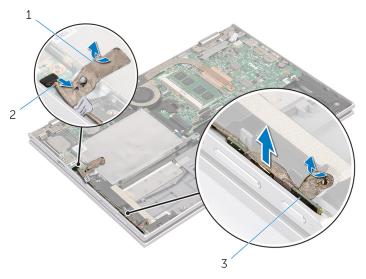
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.

Procedure

- 1 Peel off the adhesive tape from the hard-drive assembly.
- 2 Disconnect the power and volume-buttons board cable from the system board.
- **3** Remove the power and volume-buttons board cable from the routing guides on the speaker.
- **4** Peel the adhesive tape from the speaker.

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



- 1 adhesive tapes (2)
- 2 power and volumebuttons board cable
- 3 power and volume-buttons board

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 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 system board.
- **5** Adhere the adhesive tape to the hard-drive assembly.

Post-requisites

- **1** Replace the <u>battery</u>.
- 2 Replace the base cover.

Removing the Speakers



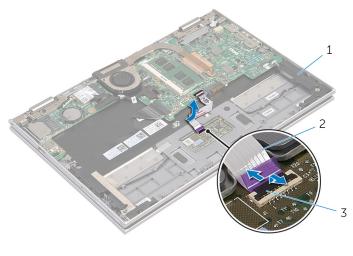
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Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Follow the procedure from step 1 to step 4 in "Removing the <u>Hard Drive</u>".
- 4 Follow the procedure from step 2 to step 5 in "Removing the <u>Power and Volume-Buttons Board</u>".

Procedure

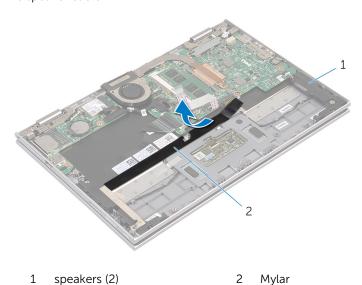
1 Lift the connector latch and disconnect the touchpad cable from the connector on the touchpad. 2 Peel off the touchpad cable from the Mylar.



1 speakers (2)

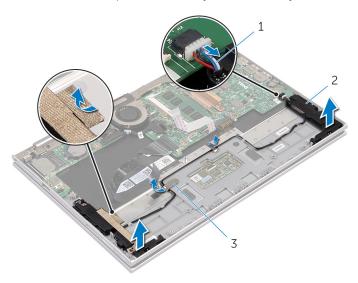
2 touchpad cable

- 3 connector latch
- **3** Peel off the Mylar from the palmrest and keyboard assembly to access the speaker cable.



Disconnect the speaker cable from the system board.

- 5 Peel off the foil tapes that secure the speaker cable to the palmrest and keyboard assembly.
- **6** Remove the speaker cable from the routing guides on the palmrest and keyboard assembly.
- **7** Peel off the adhesive tape that secures the speaker to the palmrest and keyboard assembly.
- **8** Release the speakers from the alignment posts and lift the speakers along with its cable off the palmrest and keyboard assembly.



1 speaker cable

2 speakers (2)

3 foil tapes (2)

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 Adhere the adhesive tape that secures the speaker to the palmrest and keyboard assembly.
- **3** Route the speaker cable through the routing guides on the palmrest and keyboard assembly.
- 4 Adhere the foil tapes that secure the speaker cable to the palmrest and keyboard assembly.
- **5** Connect the speaker cable to the system board.
- **6** Adhere the Mylar to the palmrest and keyboard assembly.
- 7 Adhere the touchpad cable to the Mylar.
- 8 Slide the touchpad cable into the connector on the touchpad and press down the connector latch to secure the cable.

- 1 Follow the procedure from step 4 to step 7 in "Replacing the Hard Drive".
- **2** Follow the procedure from step 1 to step 4 in "Replacing the <u>Power and Volume-Buttons Board</u>".
- **3** Replace the <u>battery</u>.
- 4 Replace the <u>base cover</u>.

Removing the Touchpad



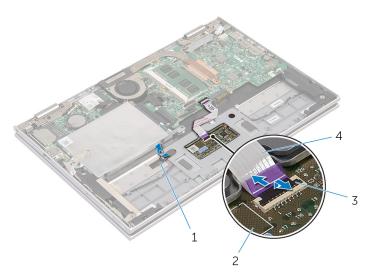
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Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.

Procedure

Peel off the foil tape that secures the speaker cable to the palmrest and keyboard assembly. 2 Lift the connector latch and disconnect the touchpad cable from the touchpad.



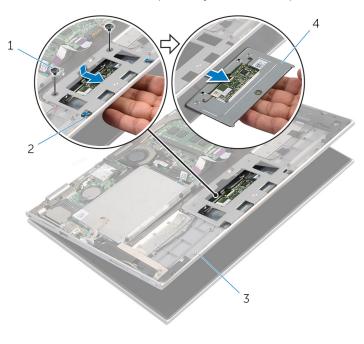
1 foil tape

2 touchpad

3 connector latch

- 4 touchpad cable
- **3** Remove the screws that secure the touchpad to the palmrest and keyboard assembly.
- 4 Raise the palmrest and keyboard assembly to release the touchpad from the slots on the palmrest and keyboard assembly.

5 Slide and remove the touchpad away from the computer.



- 1 screws (2)
- 3 palmrest and keyboard assembly
- 2 slots (2)
- 4 touchpad

Replacing the Touchpad



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Procedure

- 1 Slide the tabs on the touchpad into the slots on the palmrest and keyboard assembly.
- 2 Align the screw holes on the touchpad with the screw holes on the palmrest and keyboard assembly.
- **3** Replace the screws that secure the touchpad to the palmrest and keyboard assembly.
- 4 Slide the touchpad cable into the touchpad connector and press down the latch to secure the cable.
- 5 Adhere the foil tape to secure the speaker cable to the palmrest and keyboard assembly.

- 1 Replace the battery.
- 2 Replace the base cover.

Removing the Processor Fan and Heat-Sink Assembly



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MARNING: The heat sink may become not during.

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



CAUTION: To ensure maximum cooling for 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

- Remove the base cover. 1
- 2 Remove the battery.

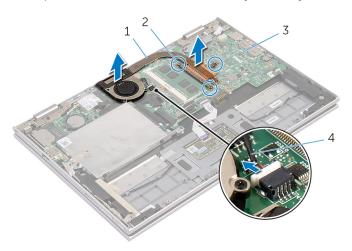
Procedure



NOTE: The appearance of the heat sink and the number of screws will vary if you purchased your computer with integrated graphics card.

- Disconnect the fan cable from the system board. 1
- 2 In sequential order (indicated on the heat sink), loosen the captive screws that secure the processor fan and heat-sink assembly to the system board

3 Lift the processor fan and heat-sink assembly off the system board.



- 1 processor fan and heat-sink assembly
 - system board

3

- 2 captive screws (3)
- 4 fan cable

Replacing the Processor Fan and Heat-Sink Assembly



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Procedure

- In sequential order, (indicated on the heat sink), tighten the captive screws that secure the processor fan and heat-sink assembly to the system board.
- 2 Connect the fan cable to the system board.

- 1 Replace the battery.
- 2 Replace the base cover.

Removing the Power-Adapter Port



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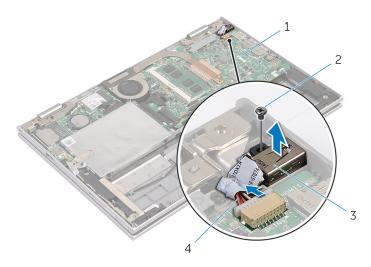
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.

Procedure

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

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



- 1 system board
- 3 power-adapter port
- 2 screw
- 4 power-adapter port cable

Replacing the Power-Adapter Port

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Procedure

- 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** Replace the screw that secures the power-adapter port to the palmrest and keyboard assembly.
- 4 Connect the power-adapter port cable to the system board.

- 1 Replace the battery.
- 2 Replace the base cover.

Removing the I/O Board



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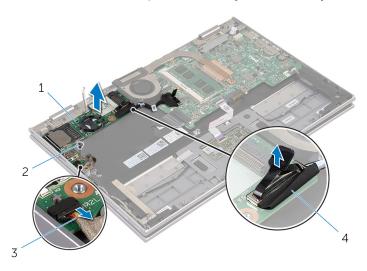
Prerequisites

- 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 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 I/O board
- 3 power and volume-buttons board cable
- 2 screw
- 4 I/O-board cable

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.

- 1 Replace the coin-cell battery.
- 2 Replace the wireless card.
- 3 Replace the hard drive.
- 4 Replace the battery.
- **5** Replace the <u>base cover</u>.

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 them correctly after you replace the system board.

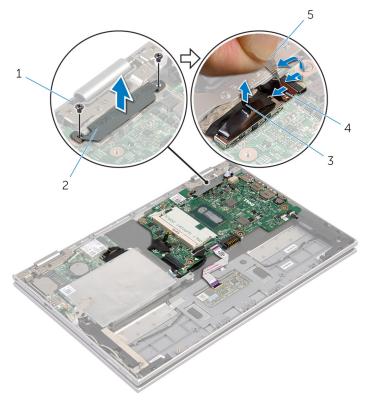
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the memory module.
- 4 Remove the processor fan and heat-sink assembly.

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 to access the Windows-button board cable.

4 Lift the connector latch and disconnect the Windows-button board cable from the system board.

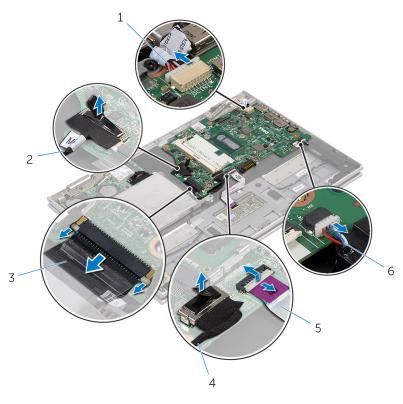


- 1 screws (2)
- 3 display cable

- 2 display-cable bracket
- 4 windows-button board cable

- 5 adhesive tape
- 5 Using the pull tab disconnect the I/O-board cable and the hard-drive cable from the system board.
- **6** Release the connector latches and disconnect the keyboard cable from the system board.
- 7 Lift the connector latch and disconnect the touchpad cable from the system board.

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



1 power-adapter port cable

2 I/O-board cable

3 keyboard cable

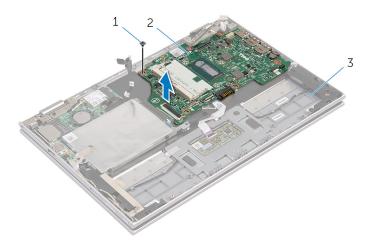
4 hard-drive cable

5 touchpad cable

6 speaker cable

9 Remove the screw that secures the system board to the palmrest and keyboard assembly.

10 Lift the system board off the palmrest and keyboard assembly.



- 1 screw
- 3 palmrest and keyboard assembly
- 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.

Procedure

- 1 Align the screw holes on the system board with the screw holes 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-adapter port cable and the speaker cable to the system board.
- 4 Slide the touchpad cable into the connector on the system board and press down the latch to secure the cable.
- 5 Slide the keyboard cable into the keyboard-cable connector and push the connector latches in to secure the cable.
- **6** Connect the I/O-board cable and the hard-drive cable to the system board.
- 7 Slide the Windows-button board cable into the connector on the system board and press down the latch to secure the cable.
- **8** Adhere the tape on the Windows-button board connector to secure the cable.
- **9** Connect the display cable to the system board.
- **10** Align the screw holes on the display-cable bracket with the screw holes on the system board.
- 11 Replace the screws that secure the display-cable bracket to the system board.

Post-requisites

1 Replace the <u>processor fan and heat-sink assembly</u>.

- 2 Replace the <u>memory module</u>
- **3** Replace the <u>battery</u>.
- 4 Replace the base cover.

Entering the Service Tag in the BIOS

- **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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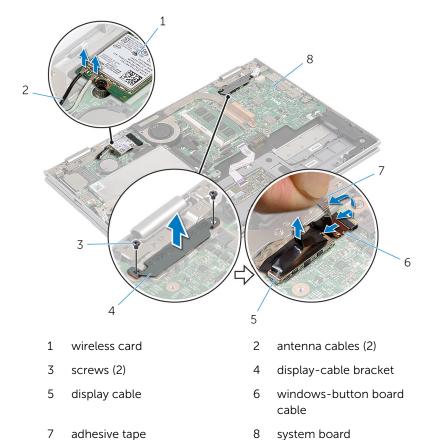
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.

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 to access the Windows button-board cable.

6 Lift the connector latch and disconnect the Windows button-board cable.

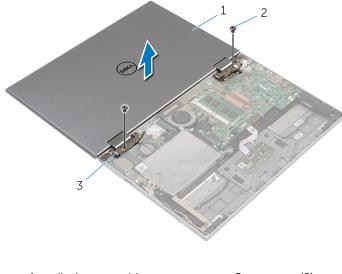


7 Turn the computer over and open the display as far as possible.

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

- 8 Place the computer face down on a flat surface.
- **9** Remove the screws that secure the display assembly to the palmrest and keyboard assembly.

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



1 display assembly

2 screws (2)

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

- **1** Replace the <u>battery</u>.
- 2 Replace the <u>base cover</u>.

Removing the Palmrest 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 <u>Hard Drive</u>".
- 4 Remove the I/O board.
- **5** Remove the speakers.
- 6 Remove the display assembly.
- 7 Remove the power-adapter port.
- 8 Remove the system board.

Procedure

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



palmrest and keyboard assembly 2 screwTurn the palmrest and keyboard assembly over and keep it aside.



1 palmrest and keyboard assembly

Replacing the Palmrest and Keyboard Assembly



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Procedure

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

- 1 Replace the system board.
- 2 Replace the <u>power-adapter port</u>.
- **3** Replace the <u>display assembly</u>.
- 4 Replace the speakers.
- 5 Replace the I/O board.
- **6** Follow the procedure from step 3 to step 5 in "Replacing the Hard Drive".
- **7** Replace the <u>battery</u>.
- 8 Replace the base cover.

Removing the Display Back-Cover and Antenna Assembly



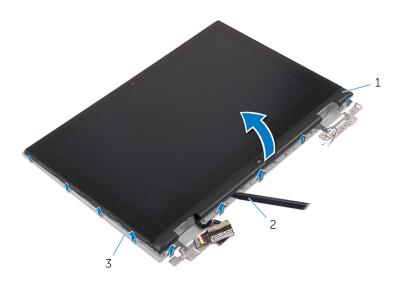
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Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the <u>display assembly</u>.

Procedure

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



- 1 display-panel assembly
- 2 plastic scribe
- 3 display back-cover and antenna assembly

Replacing the Display Back-Cover and Antenna Assembly



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Procedure

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.

- 1 Replace the <u>display assembly</u>.
- 2 Replace the battery.
- **3** Replace the base cover.

Removing the Display Hinges



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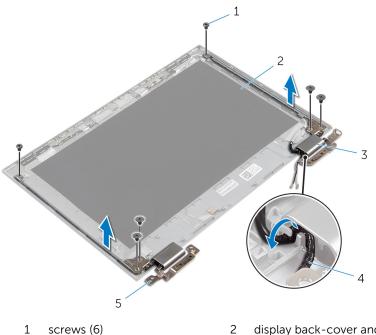
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the <u>display assembly</u>.
- 4 Remove the display back-cover and antenna assembly.

Procedure

- 1 Remove the antenna cables from the routing guide on the hinge cover.
- 2 Remove the screws that secure the display hinges to the display backcover and antenna assembly.

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



- 1 screws (6)
- 3 hinge covers (2)
- 5 hinges (2)

- display back-cover and antenna assembly
- 4 antenna cables (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 backcover and antenna assembly.
- **3** Route the antenna cables through the routing guide on the hinge cover and secure it in place.

- 1 Replace the display back-cover and antenna assembly.
- 2 Replace the display assembly.
- **3** Replace the <u>battery</u>.
- 4 Replace the base cover.

Removing the Camera



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Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the <u>display assembly</u>.
- 4 Remove the display back-cover and antenna assembly.

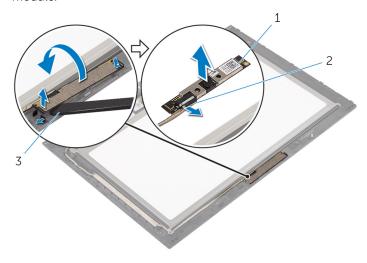
Procedure



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 camera

2 camera cable

3 plastic scribe

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.

- 1 Replace the <u>display back-cover and antenna assembly</u>.
- 2 Replace the display assembly.
- **3** Replace the <u>battery</u>.
- 4 Replace the base cover.

Removing the Windows-Button Board



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Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the <u>display assembly</u>.
- 4 Remove the display back-cover and antenna assembly.

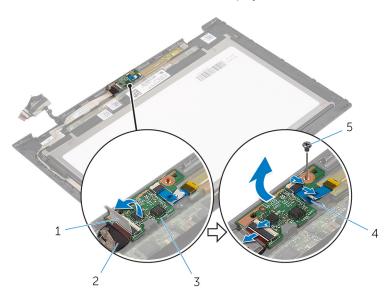
Procedure



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 Peel off the adhesive tape to access the Windows-button board cable.
- **3** Lift the connector latches and disconnect the Windows-button board cable and the touch-board cable from the Windows-button board.
- 4 Remove the screw that secures the Windows-button board to the display bezel.

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



- 1 adhesive tape
- 3 Windows-button board
- 5 screw

- 2 Windows-button board cable
- 4 touch-board cable

Replacing the Windows-Button Board

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Procedure

- Align the screw hole on the Windows-button board with the screw hole on the display bezel.
- 2 Replace the screw that secures the Windows-button board to the display bezel.
- 3 Slide the Windows-button board cable and the touch-board cable into the connectors on Windows-button board and press down the latches to secure the cables.
- 4 Adhere the adhesive tape to the connector on the Windows-button board to secure the cable.
- 5 Turn the display-panel assembly over.

- 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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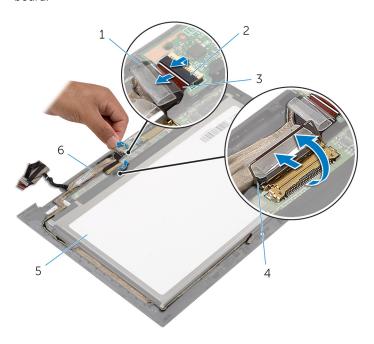
Prerequisites

- 1 Remove the base cover.
- 2 Remove the battery.
- **3** Remove the <u>display assembly</u>.
- 4 Remove the display back-cover and antenna assembly.
- **5** Remove the camera.

Procedure

- 1 Peel off the adhesive tape to access the Windows-button board cable.
- 2 Lift the connector latch and disconnect the Windows-button board cable from the Windows-button board.

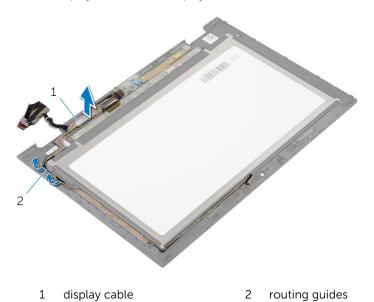
3 Lift the connector latch and disconnect the display cable from the touch board.



- 1 adhesive tape
- 3 Windows-button board cable
- 5 display panel

- 2 connector latch for Windows-button board cable
- 4 connector latch for display cable
- 6 display cable
- 4 Note the display cable routing and remove the display cable from the routing guides on the display bezel.

Lift the display cable off the display bezel.



Replacing the Display Cable



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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 Slide the Windows-button board cable into the connector on the Windows-button board and press down the latch to secure the cable.
- **4** Adhere the adhesive tape on the Windows-button board connector.

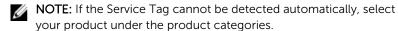
- 1 Replace the <u>display back-cover and antenna assembly</u>.
- 2 Replace the display assembly.
- **3** Replace the <u>camera</u>.
- 4 Replace the <u>battery</u>.
- 5 Replace the base cover.

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 dell.com/support.
- **3** If you have your computer's Service Tag, type your computer's Service Tag and click **Submit**.

If you do not have your computer's Service Tag, click **Detect My Product** to allow automatic detection of the Service Tag.



- 4 Click Get Drivers and Downloads.
- 5 Click View All Drivers
- 6 In the **Operating System** drop-down, select the operating system installed on your computer.
- 7 Click BIOS
- 8 Click **Download File** to download the latest version of the BIOS for your computer.
- 9 On the next page, select Single-file download and click Continue.
- **10** Save the file and once the download is complete, navigate to the folder where you saved the BIOS update file.
- **11** 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 online self-help resources:

Self-Help Information	Self-Help Options
Accessing Windows Help	Windows 8.1 — Open the Search charm, type Help and Support in the search box and press Enter.
	Windows 7 — Click Start \rightarrow Help and Support.
Information about Dell products and services	See dell.com.
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on	See dell.com/support.
Information about Microsoft Windows 8.1	See dell.com/windows8.
Information about Microsoft Windows 7	Click Start \rightarrow All Programs \rightarrow Dell Help Documentation.
Learn about your operating system, setting up and using your computer, data backup, diagnostics, and so on.	See Me and My Dell at dell.com/support/manuals.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see **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.