

Inspiron 15/15R

Owner's Manual

Computer model: Inspiron 3521/5521/5537/3537

Regulatory model: P28F

Regulatory type: P28F001/P28F003



Notes, Cautions, and Warnings



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



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



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

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Before You Begin

 **CAUTION:** To avoid losing data, save and close all open files and exit all open programs before you turn off your computer.

- 1 Save and close all open files and exit all open programs.
- 2 Remove any media card and optical disc from your computer.
- 3 Follow the instructions to shut down your computer based on the operating system installed on your computer.
 - *Windows 8:*
Move your mouse pointer to the upper/lower-right corner of the screen to open the Charms sidebar, and then click **Settings**→ **Power**→ **Shutdown**.
 - *Windows 7:*
Click **Start**  and click **Shut down**.
Microsoft Windows shuts down and then the computer turns off.









 **NOTE:** If you are using a different operating system, see the documentation of your operating system for shut-down instructions.

- 4 Disconnect your computer and all attached devices from their electrical outlets.
- 5 Disconnect all telephone cables, network cables, and attached devices from your computer.

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

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 additional safety best practices information, see the Regulatory Compliance Homepage 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:** 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:** To avoid damaging the computer, ensure that the work surface is flat and clean.
-  **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 connectors and ports 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:** 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 pins and contacts.

Recommended Tools

The procedures in this document may require the following tools:

- Phillips screwdriver
- Plastic scribe

After Working Inside Your Computer

After you complete the replacement procedures, ensure the following:

- Replace all screws and ensure that no stray screws remain inside your computer.
- Connect any external devices, cables, cards, and any other part(s) you removed before working on your computer.
- Connect your computer and all attached devices to their electrical outlets.



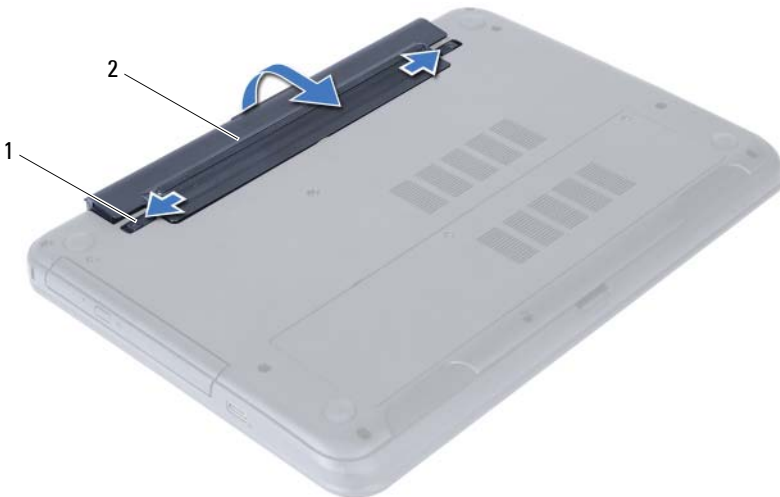
CAUTION: Before turning on your computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may damage your computer.

Removing the Battery

⚠ WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Procedure

- 1 Close the display and turn the computer over.
- 2 Slide the battery latches on each end of the battery bay to the unlock position. You hear a click when the battery is unlocked.
- 3 Lift the battery off the computer base.



1 battery latches (2)

2 battery

- 4 Turn the computer over and open the display as far as possible.
- 5 Press and hold the power button for 5 seconds, after the computer is unplugged, to ground the system board.

Replacing the Battery



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Procedure

Align the tabs on the battery with the slots on the battery bay and snap the battery into place.

Removing the Memory Module(s)

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Prerequisites

Remove the battery. See "Removing the Battery" on page 10.

Procedure

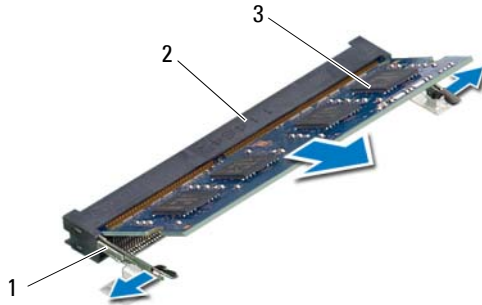
- 1 Loosen the captive screws that secures the memory-module cover to the computer base.
- 2 Using your fingertips, lift the memory-module cover out of the slots on the computer base.



1 captive screws (2)

2 memory-module cover

- 3 Use your fingertips to carefully spread apart the securing clips on each end of the memory-module connector until the memory module pops up.
- 4 Slide and remove the memory module from the memory-module connector.




1	securing clips (2)	2	memory-module connector
3	memory module		

Replacing the Memory Module(s)



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Procedure

- 1 Align the notch on the memory module with the tab on the memory-module connector.
- 2 Slide the memory module into the connector at a 45-degree 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.
- 3 Slide the tabs on the memory-module cover into the slots on the computer base and snap the memory-module cover into place.
- 4 Tighten the captive screws that secure the memory-module cover to the computer base.

Postrequisites

Replace the battery. See "Replacing the Battery" on page 11.

Removing the Optical-Drive Assembly

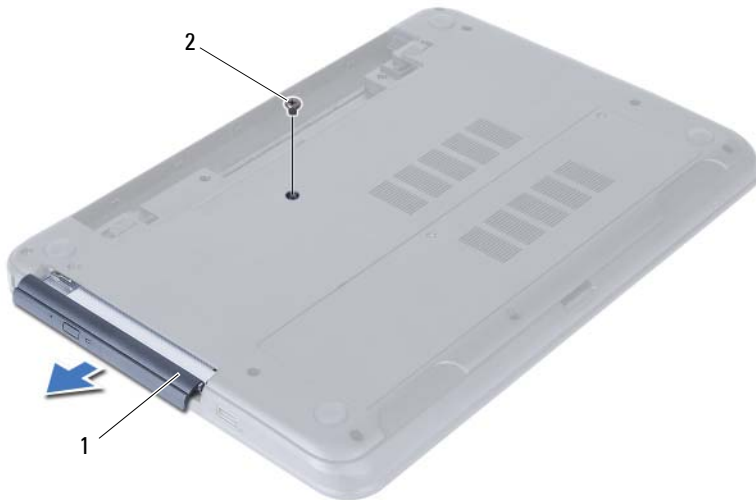
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Prerequisites

Remove the battery. See "Removing the Battery" on page 10.

Procedure

- 1 Remove the screw that secures the optical-drive assembly to the computer base.
- 2 Using your fingertips, slide the optical-drive assembly out of the optical-drive bay.



1 optical-drive assembly

2 screw

- 3 Remove the screws that secure the optical-drive bracket to the optical-drive assembly.
- 4 Remove the optical-drive bracket from the optical-drive assembly.
- 5 Carefully pry the optical-drive bezel and remove it from the optical-drive assembly.



1	optical-drive bezel	2	optical drive
3	screws (2)	4	optical-drive bracket

Replacing the Optical-Drive Assembly



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Procedure

- 1 Align the tabs on the optical-drive bezel with the slots on the optical drive and snap the optical-drive bezel into place.
- 2 Align the screw holes on the optical-drive bracket with the screw holes on the optical-drive assembly.
- 3 Replace the screws that secure the optical-drive bracket to the optical-drive assembly.
- 4 Slide the optical-drive assembly into the optical-drive bay and align the screw hole on the optical-drive bracket with the screw hole on computer base.
- 5 Replace the screw that secures the optical-drive assembly to the computer base.

Postrequisites

Replace the battery. See "Replacing the Battery" on page 11.

Removing the Hard-Drive Assembly

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

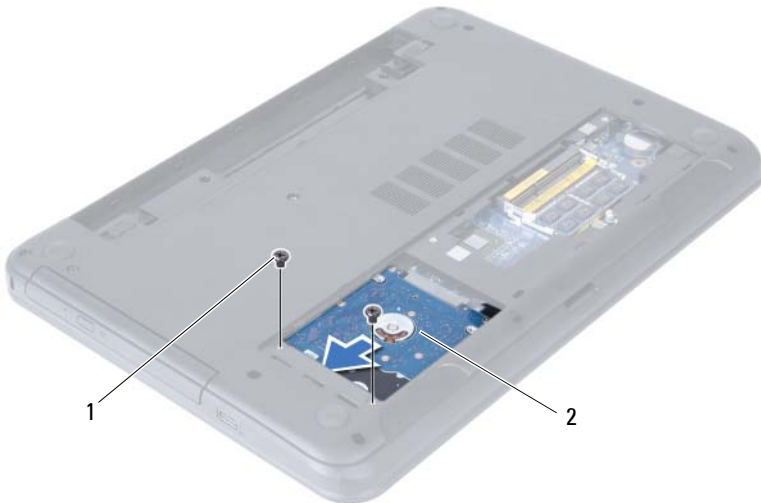
⚠ CAUTION: Hard drives are extremely fragile. Exercise care when handling the hard drive.

Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.

Procedure

- 1 Remove the screws that secure the hard-drive assembly to the computer base.
- 2 Slide the hard-drive assembly to disconnect it from the system board.



1 screws (2)

2 hard-drive assembly

- 3** Using the pull-tab, lift the hard-drive assembly out of the computer base.



1 hard-drive assembly

2 pull-tab

- 4** Remove the screws that secure the hard-drive bracket to the hard drive.


- 5** Lift the hard-drive bracket off the hard drive.




1 screws (2)

2 hard-drive bracket

Replacing the Hard-Drive Assembly

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

Procedure

- 1 Align the screw holes on the hard-drive bracket with the screw holes on the hard drive.
- 2 Replace the screws that secure the hard-drive bracket to the hard drive.
- 3 Place the hard-drive assembly in the hard-drive bay.
- 4 Slide the hard-drive assembly to connect it to the system board.
- 5 Replace the screws that secure the hard-drive assembly to the computer base.

Postrequisites

- 1 Follow step 3 to step 4 in "Replacing the Memory Module(s)" on page 14.
- 2 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Keyboard

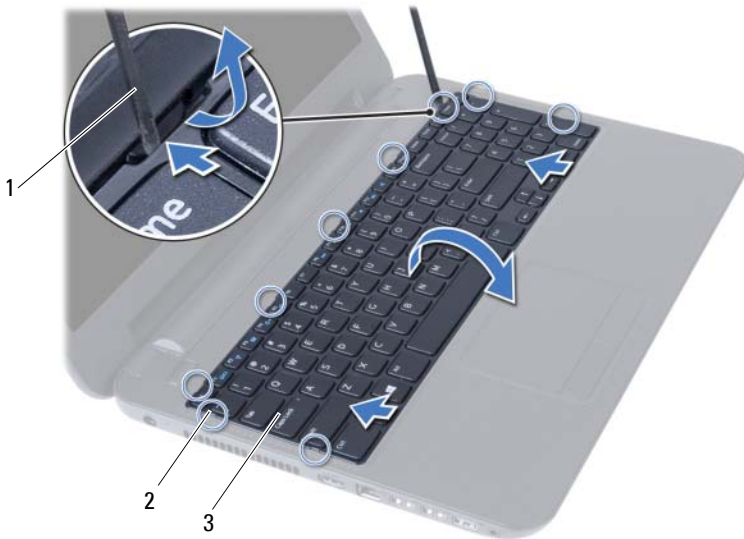
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Prerequisites

Remove the battery. See "Removing the Battery" on page 10.

Procedure

- 1 Turn the computer over and open the display as far as possible.
- 2 Using a plastic scribe, release the keyboard from the tabs on the palm-rest assembly.
- 3 Lift and slide the keyboard towards the display to release the keyboard from the palm-rest assembly.
- 4 Turn the keyboard over and place it on the palm-rest assembly.



1 plastic scribe

2 tabs (9)

3 keyboard

- 5 Lift the connector latch and disconnect the keyboard cable from the system board.
- 6 Lift the keyboard off the palm-rest assembly.



1	connector latch	2	keyboard cable
3	keyboard		

Replacing the Keyboard



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Procedure

- 1 Slide the keyboard cable into the connector on the system board and press down on the connector latch to secure it.
- 2 Slide the tabs on the keyboard into the slots on the palm-rest assembly and place the keyboard on the palm-rest assembly.
- 3 Gently press around the edges of the keyboard to secure the keyboard under the tabs on the palm-rest assembly.

Postrequisites

Replace the battery. See "Replacing the Battery" on page 11.

Removing the Palm Rest

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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 4 Remove the keyboard. See "Removing the Keyboard" on page 21.

Procedure

- 1 Close the display and turn the computer over.
- 2 Remove the screws that secure the palm rest to the computer base.



1 screws (12)

- 3 Turn the computer over and open the display as far as possible.
- 4 Lift the connector latches and, using the pull-tabs, disconnect the touchpad cable and the power-button cable from the system board.



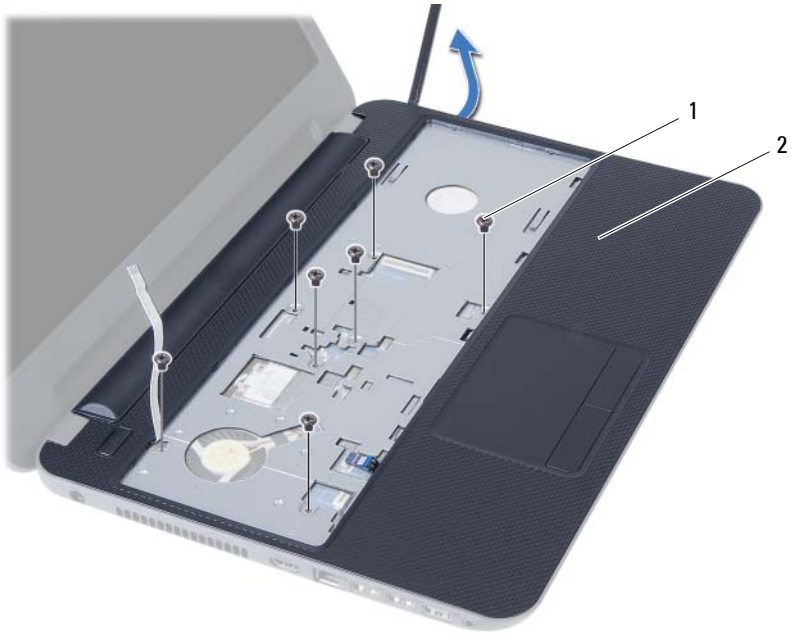
1	touchpad cable	2	power-button cable
3	connector latches (2)		

5 Remove the screws that secure the palm-rest to the system board.

CAUTION: Carefully separate the palm rest assembly from the display assembly to avoid damage to the display assembly.

6 Using a plastic scribe, gently lift and release the tabs on palm rest from the slots on the computer base.

7 Lift the palm rest off the computer base.



1 screws (7)

2 palm rest

Replacing the Palm Rest



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Procedure

- 1 Align the screw holes on the palm rest with the screw holes on the computer base.
- 2 Press down on the palm rest to snap it into place.
- 3 Slide the touchpad cable and the power-button cable into the connectors on the system board and press down on the connector latches to secure the cables.
- 4 Replace the screws that secure the palm rest to the system board.
- 5 Close the display and turn the computer over.
- 6 Replace the screws that secure the palm rest to the computer base.

Postrequisites

- 1 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 2 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 3 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 4 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Wireless Mini-Card

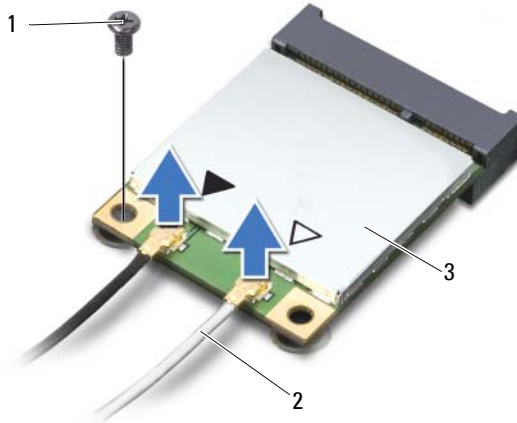
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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 4 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 5 Remove the palm rest. See "Removing the Palm Rest" on page 24.

Procedure

- 1 Disconnect the antenna cables from the wireless mini-card.
- 2 Remove the screw that secures the wireless mini-card to the system board.

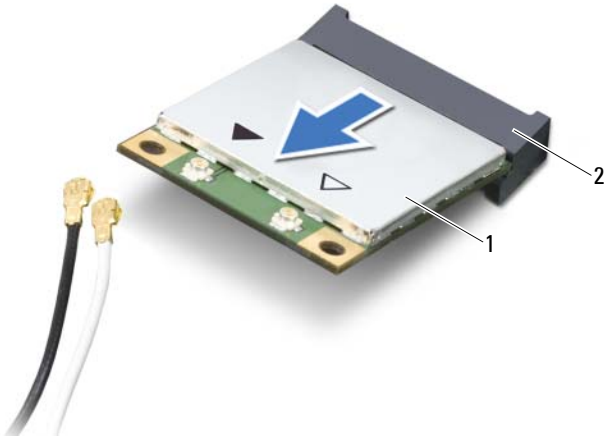


1 screw

2 antenna cables (2)

3 wireless mini-card


- 3 Slide and remove the wireless mini-card out of the mini-card connector.




1 wireless mini-card

2 mini-card connector

Replacing the Wireless Mini-Card

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Procedure

 **CAUTION:** To avoid damage to the wireless mini-card, ensure that no cables are placed under the wireless mini-card.

- 1 Align the notch on the wireless mini-card with the tab on the system-board connector.
- 2 Insert the wireless mini-card at a 45-degree angle into the mini-card connector.
- 3 Press the other end of the wireless mini-card down and replace the screw that secures the wireless mini-card to the system board.
- 4 Connect the antenna cables to the wireless mini-card.

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

Connectors on the wireless mini-card	Antenna cable color schemes
WLAN + Bluetooth (2 cables)	
Main WLAN + Bluetooth (white triangle)	white
Auxiliary WLAN + Bluetooth (black triangle)	black

Postrequisites

- 1 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 2 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 3 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 4 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 5 Replace the battery. See "Replacing the Battery" on page 11.

Removing the I/O Board

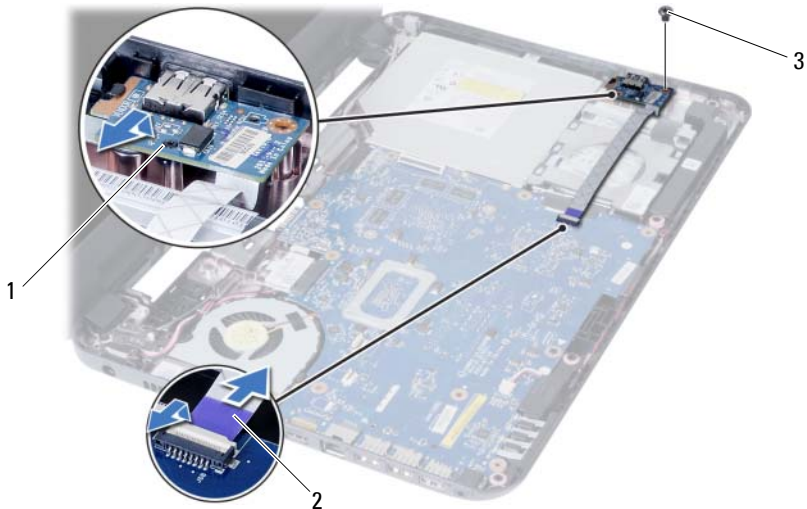
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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 4 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 5 Remove the palm rest. See "Removing the Palm Rest" on page 24.

Procedure

- 1 Remove the screw that secures the I/O board to the computer base.
- 2 Lift the connector latch and, using the pull-tab, disconnect the I/O-board cable from the system board.
- 3 Gently lift and remove the I/O board, along with its cable, off the computer base.



1 I/O board
3 screw

2 I/O-board cable

Replacing the I/O Board



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Procedure

- 1 Gently slide the I/O board below the tab that secures it and snap the I/O board into place.
- 2 Replace the screw that secures the I/O board to the computer base.
- 3 Connect the I/O-board cable to the connector on the I/O board.

Postrequisites

- 1 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 2 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 3 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 4 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 5 Replace the battery. See "Replacing the Battery" on page 11.

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 system setup after you replace the system board. For more information, see "Entering the Service Tag in system setup" on page 36.



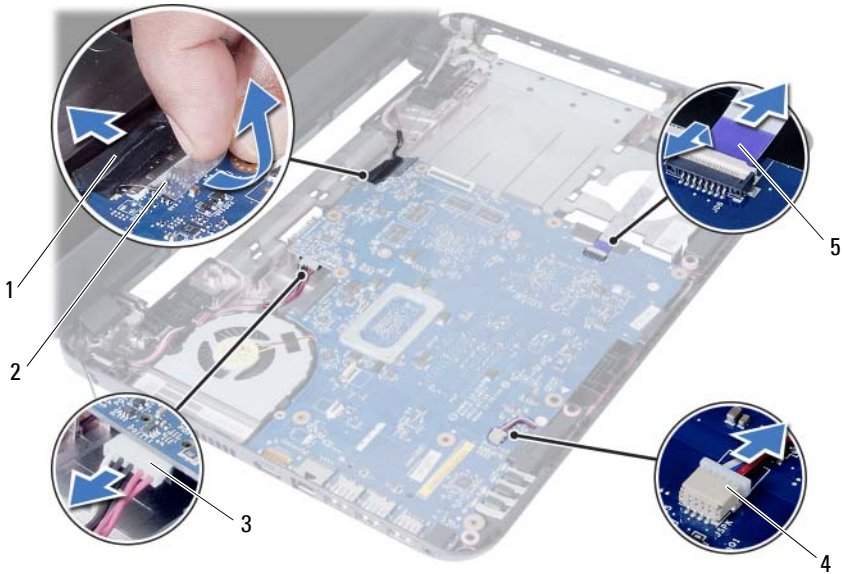
NOTE: Before disconnecting the cables from the system board, note the location of the connectors so that you can reconnect the cables correctly after you replace the system board.

Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Remove the memory module(s). See "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the wireless mini-card. See "Removing the Wireless Mini-Card" on page 28.

Procedure

- 1 Peel off the tape that secures the display cable to the system board.
- 2 Disconnect the display cable from the system board.
- 3 Disconnect the power-adaptor port cable, speaker cable, and the I/O-board cable from the system board.



1	display cable	2	tape
3	power-adaptor port cable	4	speaker cable
5	I/O-board cable		


- 4 Remove the screw that secures the system board to the computer base.
- 5 Lift the system board off the computer base.




1 system board

2 screw

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 system setup after you replace the system board.

Procedure

- 1 Align the screw holes on the system board with the screw holes on the computer base.
- 2 Replace the screw that secures the system board to the computer base.
- 3 Connect the power-adaptor port cable, speaker cable, and the I/O-board cable to the system board.
- 4 Connect the display cable to the system board.
- 5 Adhere the tape that secures the display cable to the system board.


Postrequisites


- 1 Replace the wireless mini-card. See "Replacing the Wireless Mini-Card" on page 30.
- 2 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 3 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 4 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 5 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 6 Replace the memory module(s). See "Replacing the Memory Module(s)" on page 14.
- 7 Replace the battery. See "Replacing the Battery" on page 11.

Entering the Service Tag in system setup

- 1 Turn on the computer.
- 2 Press <F2> when you see the Dell logo to enter system setup.
- 3 Navigate to the **Main** tab and type your computer's Service Tag in the **Service Tag Input** field.

Removing the Coin-Cell Battery

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 **WARNING:** The coin-cell battery may explode if installed incorrectly. Replace the coin-cell battery only with the same or equivalent type. Discard used coin-cell batteries according to the manufacturer's instructions.

 **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 battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the wireless mini-card. See "Removing the Wireless Mini-Card" on page 28.
- 8 Remove the system board. See "Removing the System Board" on page 33.

Procedure


- 1 Turn the system board over and place it on a flat surface.
- 2 Using a plastic scribe, gently pry out the coin-cell battery out of the battery socket on the system board.




1 plastic scribe

2 coin-cell battery

Replacing the Coin-Cell Battery

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 **WARNING:** The battery may explode if installed incorrectly. Replace the battery only with the same or equivalent type. Discard used batteries according to the manufacturer's instructions.

Procedure

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

Postrequisites

- 1 Replace the system board. See "Replacing the System Board" on page 36.
- 2 Replace the wireless mini-card. See "Replacing the Wireless Mini-Card" on page 30.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Heat Sink



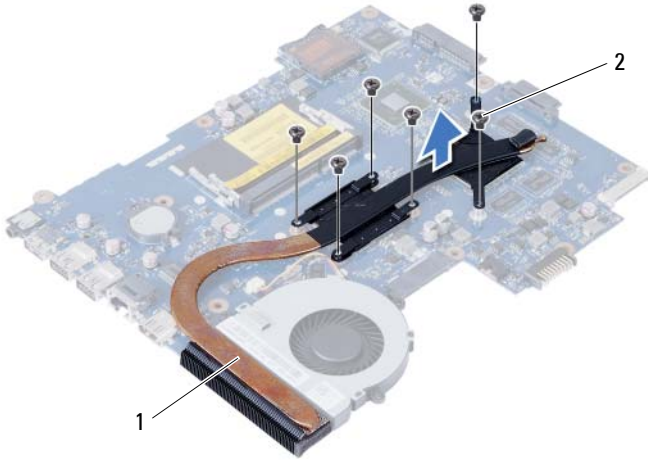
WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the wireless mini-card. See "Removing the Wireless Mini-Card" on page 28.
- 8 Remove the system board. See "Removing the System Board" on page 33.

Procedure

- 1 Turn the system board over and place it on a flat surface.
- 2 In sequential order (indicated on the heat sink), remove the screws that secure the heat sink to the system board.
- 3 Lift the heat sink off the system board.



1 heat sink

2 screws (6)

Replacing the Heat Sink



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Procedure

- 1 Clean the thermal grease from the bottom of the heat sink and reapply it.
- 2 Align the screw holes on the heat sink with the screw holes on the system board.
- 3 In sequential order (indicated on the heat sink), replace the screws that secure the heat sink to the system board

Postrequisites

- 1 Replace the system board. See "Replacing the System Board" on page 36.
- 2 Replace the wireless mini-card. See "Replacing the Wireless Mini-Card" on page 30.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Fan



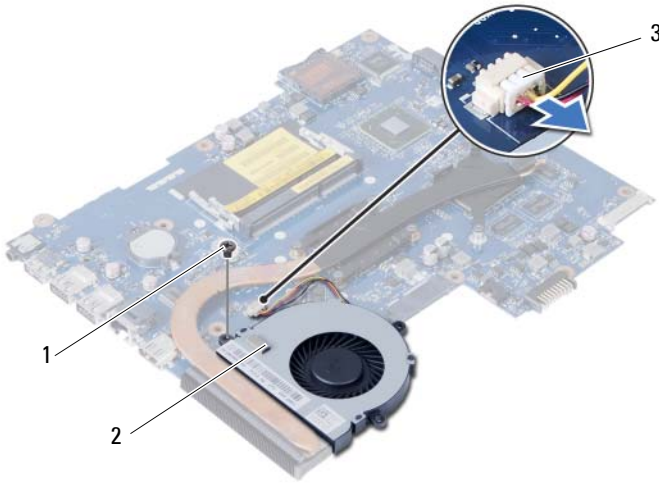
WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the wireless mini-card. See "Removing the Wireless Mini-Card" on page 28.
- 8 Remove the system board. See "Removing the System Board" on page 33.

Procedure

- 1 Turn the system board over and place it on a flat surface.
- 2 Disconnect the fan cable from the system board.
- 3 Remove the screw that secures the fan to the system board.
- 4 Lift the fan off the system board.



1	screw	2	fan
3	fan cable		

Replacing the Fan



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Procedure

- 1 Align the screw hole on the fan with the screw hole on the system board.
- 2 Replace the screw that secures the fan to the system board.
- 3 Connect the fan cable to the system board.

Postrequisites

- 1 Replace the system board. See "Replacing the System Board" on page 36.
- 2 Replace the wireless mini-card. See "Replacing the Wireless Mini-Card" on page 30.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Speakers

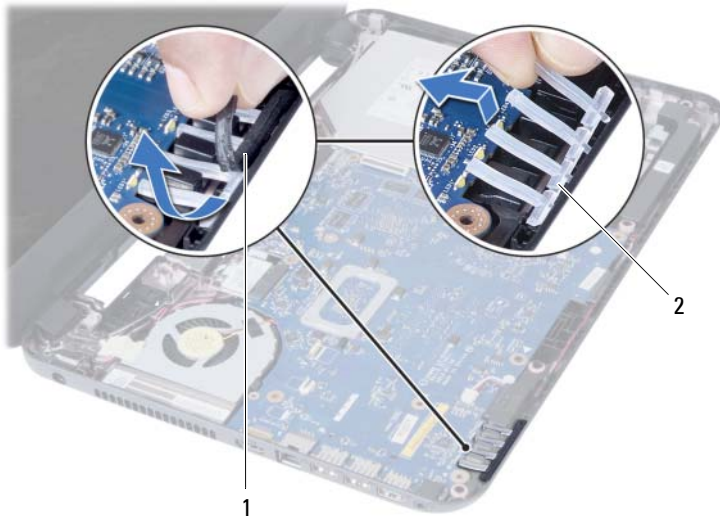
⚠ WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the wireless mini-card. See "Removing the Wireless Mini-Card" on page 28.

Procedure

- 1 Peel off the tape that secures the LED silicon tubes to the computer base.
- 2 Lift and remove the LED silicon tubes off the computer base.



1 tape

2 LED silicon tubes

- 3 Remove the system board. See "Removing the System Board" on page 33.
- 4 Note the speaker-cable routing and remove the cable from the routing guides on the computer base.
- 5 Lift the speakers, along with the speaker cable, off the computer base.



1 speaker cable routing

2 speakers (2)

Replacing the Speakers



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Procedure

- 1 Align the speakers using the alignment posts and place the speakers on the computer base.
- 2 Route the speaker cable through the routing guides on the computer base.
- 3 Replace the LED silicon tubes.
- 4 Adhere the tape that secures the LED silicon tubes to the computer base.

Postrequisites

- 1 Replace the system board. See "Replacing the System Board" on page 36.
- 2 Replace the wireless mini-card. See "Replacing the Wireless Mini-Card" on page 30.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Display Assembly

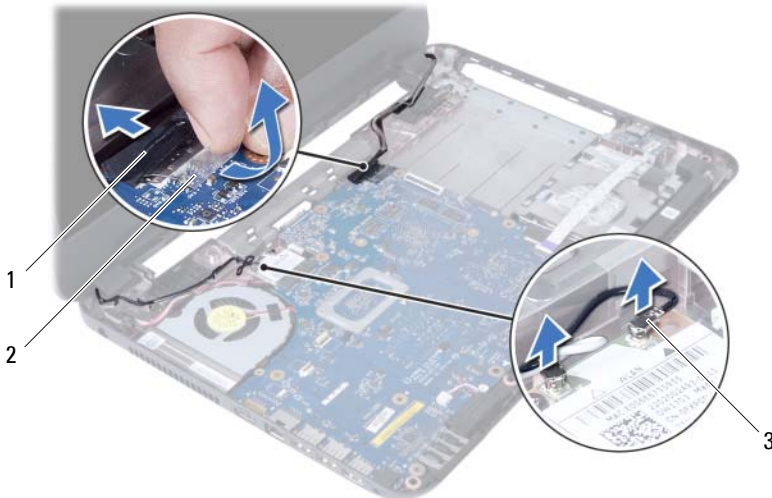
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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.

Procedure

- 1 Peel off the tape that secures the display cable to the system board.
- 2 Disconnect the display cable from the system board.
- 3 Disconnect the antenna cables from the wireless mini-card.



1 display cable

2 tape

3 antenna cables (2)

- 4 Move the power-adaptor port cable away from the screws on the display hinge.
- 5 Remove the screws that secure the display assembly to the computer base.
- 6 Lift the display assembly off the computer base.



1	display assembly	2	screws (3)
3	power-adaptor port cable		

Replacing the Display Assembly



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Procedure

- 1 Place the display assembly on the computer base and align the screw holes on the display assembly with the screw holes on the computer base.
- 2 Replace the screws that secure the display assembly to the computer base.
- 3 Connect the antenna cables to the wireless mini-card.
- 4 Connect the display cable to the system board.
- 5 Adhere the tape that secures the display cable to the system board.

Postrequisites

- 1 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 2 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 3 Replace the optical-drive assembly. See "Replacing the Optical-Drive Assembly" on page 17.
- 4 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 5 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 6 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Display Bezel



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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the display assembly. See "Removing the Display Assembly" on page 49.

Procedure

- 1 Press and lift the hinge covers to remove them from the display assembly.



1 hinge covers (2)

CAUTION: It is recommended to use fingertips to pry the display bezel, to avoid damaging the display panel.

- 2 Using your fingertips, carefully pry up the inside edges of the display bezel.
- 3 Lift the display bezel off the display back-cover.



1 display bezel

Replacing the Display Bezel



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Procedure

- 1 Align the display bezel with the display back-cover and gently snap the display bezel into place.
- 2 Align the hinge covers with the hinges on the display assembly and snap the hinge covers into place.

Postrequisites

- 1 Replace the display assembly. See "Replacing the Display Assembly" on page 51.
- 2 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 3 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 4 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 5 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 6 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 7 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Display Hinges



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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the display assembly. See "Removing the Display Assembly" on page 49.
- 8 Remove the display bezel. See "Removing the Display Bezel" on page 52.

Procedure

- 1 Remove the screws that secure the display hinges to the display back-cover.
- 2 Lift the display hinges off the display back-cover.



1 screws (8)

2 display hinges (2)

3 display back-cover

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.
- 2 Replace the screws that secure the display hinges to the display back-cover.

Postrequisites

- 1 Replace the display bezel. See "Replacing the Display Bezel" on page 54.
- 2 Replace the display assembly. See "Replacing the Display Assembly" on page 51.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Display Panel



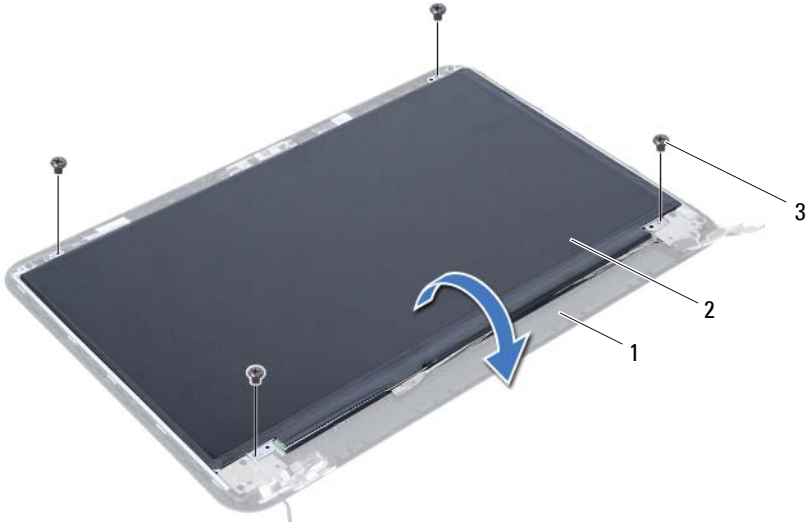
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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the display assembly. See "Removing the Display Assembly" on page 49.
- 8 Remove the display bezel. See "Removing the Display Bezel" on page 52.
- 9 Remove the display hinges. See "Removing the Display Hinges" on page 55.

Procedure

- 1 Remove the screws that secure the display panel to the display back-cover.
- 2 Gently lift the display panel and turn it over.



1 display back-cover

2 display panel

3 screws (4)

- 3 Peel off the tape that secures the display cable to the display panel.
- 4 Disconnect the display cable from the display panel.



1	display cable	2	tape
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Replacing the Display Panel



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Procedure

- 1 Connect the display cable to the display panel.
- 2 Adhere the tape that secures the display cable to the display panel.
- 3 Gently place the display panel on the display back cover.
- 4 Align the screw holes on the display panel with the screw holes on the display back-cover.
- 5 Replace the screws that secure the display panel to the display back-cover.

Postrequisites

- 1 Replace the display hinges. See "Replacing the Display Hinges" on page 57.
- 2 Replace the display bezel. See "Replacing the Display Bezel" on page 54.
- 3 Replace the display assembly. See "Replacing the Display Assembly" on page 51.
- 4 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 5 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 6 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 7 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 8 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 9 Replace the battery. See "Replacing the Battery" on page 11.

Removing the Camera Module



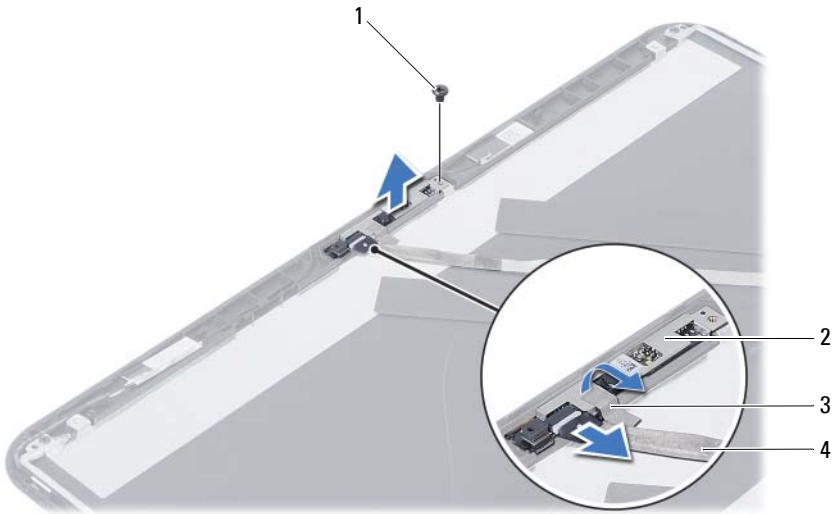
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Prerequisites

- 1 Remove the battery. See "Removing the Battery" on page 10.
- 2 Follow step 1 to step 2 in "Removing the Memory Module(s)" on page 12.
- 3 Follow step 1 to step 3 in "Removing the Hard-Drive Assembly" on page 18.
- 4 Follow step 1 to step 2 in "Removing the Optical-Drive Assembly" on page 15.
- 5 Remove the keyboard. See "Removing the Keyboard" on page 21.
- 6 Remove the palm rest. See "Removing the Palm Rest" on page 24.
- 7 Remove the display assembly. See "Removing the Display Assembly" on page 49.
- 8 Remove the display bezel. See "Removing the Display Bezel" on page 52.

Procedure

- 1 Remove the screw that secures the camera module to the display back-cover.
- 2 Disconnect the camera cable from the camera module.
- 3 Peel off the tape that secures the camera module to the display back-cover.
- 4 Lift the camera module off the display back-cover.



1	screw	2	camera module
3	tape	4	camera cable

Replacing the Camera Module



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in "Before You Begin" on page 7. After working inside your computer, follow the instructions in "After Working Inside Your Computer" on page 9. For additional safety best practices information, see the Regulatory Compliance Homepage at dell.com/regulatory_compliance.

Procedure

- 1 Place the camera module on the display back-cover.
- 2 Replace the screw that secures the camera module to the display back-cover.
- 3 Adhere the tape that secures the camera module to the display back-cover.
- 4 Connect the camera cable to the camera module.

Postrequisites

- 1 Replace the display bezel. See "Replacing the Display Bezel" on page 54.
- 2 Replace the display assembly. See "Replacing the Display Assembly" on page 51.
- 3 Replace the palm rest. See "Replacing the Palm Rest" on page 27.
- 4 Replace the keyboard. See "Replacing the Keyboard" on page 23.
- 5 Follow step 4 to step 5 in "Replacing the Optical-Drive Assembly" on page 17.
- 6 Follow step 3 to step 5 in "Replacing the Hard-Drive Assembly" on page 20.
- 7 Follow step 3 and step 4 in "Replacing the Memory Module(s)" on page 14.
- 8 Replace the battery. See "Replacing the Battery" on page 11.

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 Service Tag** to allow automatic detection of your Service Tag.



NOTE: If the Service Tag cannot be detected automatically, select your product under the product categories.

- 4 Click **Drivers and Downloads**.
- 5 In the **Operating System** drop-down, select the operating system installed on your computer.
- 6 Click **BIOS**.
- 7 Click **Download File** to download the latest version of the BIOS for your computer.
- 8 On the next page, select **Single-file download** and click **Continue**.
- 9 Save the file and once the download is complete, navigate to the folder where you saved the BIOS update file.
- 10 Double-click the BIOS update file icon and follow the instructions on the screen.