

# Dell™ Inspiron™ 17 Service Manual

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## 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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Model P04E      Type P04E001

July 2009      Rev. A00

## Module Cover

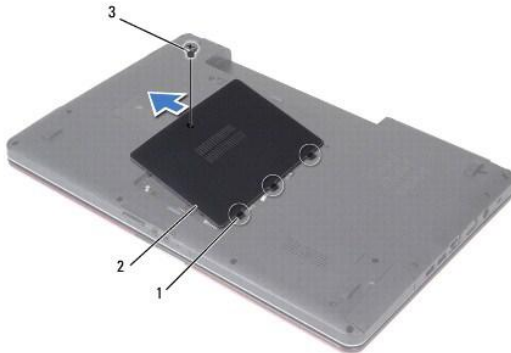
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Module Cover](#)
- [Replacing the Module Cover](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Module Cover

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the screw that secures the module cover to the computer base.
4. Lift the module cover off the computer at an angle as shown in the figure.



1	module cover tabs (3)	2	module cover
3	screw		

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## Replacing the Module Cover

1. Follow the procedures in [Before You Begin](#).
2. Align the tabs on the module cover with the slots on the computer base and gently place it in position.
3. Replace the screw that secures the module cover to the computer base.
4. Replace the battery (see [Replacing the Battery](#)).

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



## Battery Extension Board

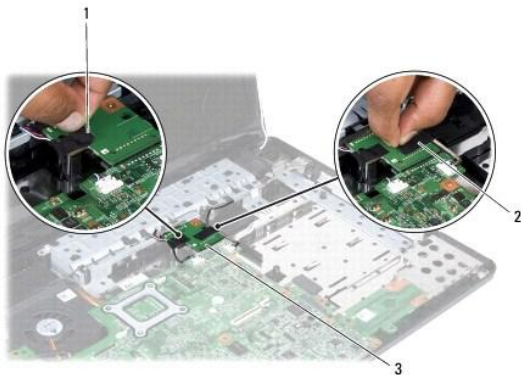
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Battery Extension Board](#)
- [Replacing the Battery Extension Board](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Battery Extension Board

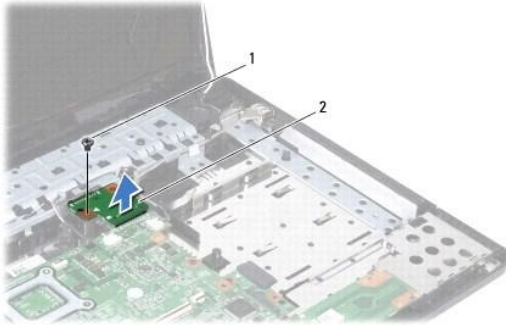
1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Remove the palm rest (see [Removing the Palm Rest](#)).
10. Remove the tape to release the speaker cables from the battery extension board.
11. Remove the tape to release the USB module cable from the battery extension board.



1	tape that binds the speaker cables to the battery extension board	2	tape that binds the USB module cable to the battery extension board
3	battery extension board		

12. Remove the screw that secures the battery extension board to the computer base.

13. Disconnect the battery extension board from system board connector and lift the battery extension board out of the computer base.



1	screw	2	battery extension board
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## Replacing the Battery Extension Board

1. Follow the procedures in [Before You Begin](#).
2. Align the battery extension board with the system board connector and press the battery extension board in place.
3. Replace the screw that secures the battery extension board to the computer base.
4. Replace the tapes to secure the USB module cable and the speaker cables to the battery extension board.
5. Replace the palm rest (see [Replacing the Palm Rest](#)).
6. Replace the keyboard (see [Replacing the Keyboard](#)).
7. Replace the center control cover (see [Replacing the Center Control Cover](#)).
8. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
9. Replace the module cover (see [Replacing the Module Cover](#)).
10. Replace the optical drive (see [Replacing the Optical Drive](#)).
11. Replace the hard drive (see [Replacing the Hard Drive](#)).
12. Replace the battery (see [Replacing the Battery](#)).

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

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## Before You Begin

### Dell™ Inspiron™ 17 Service Manual

- [Recommended Tools](#)
- [Turning Off Your Computer](#)
- [Before Working Inside Your Computer](#)

This manual provides procedures for removing and installing components in your computer. Unless otherwise noted, each procedure assumes that the following conditions exist:

1. You have performed the steps in [Turning Off Your Computer](#) and [Before Working Inside Your Computer](#).
1. You have read the safety information that shipped with your computer.
1. A component can be replaced or—if purchased separately—installed by performing the removal procedure in the reverse order.

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## Recommended Tools



The procedures in this document may require the following tools:

1. Small flat-blade screwdriver
1. Phillips screwdriver
1. Plastic scribe
1. BIOS upgrade CD or the BIOS executable update program available on the Dell Support website at [support.dell.com](http://support.dell.com)

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## Turning Off Your Computer


 **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. In Microsoft® Windows Vista®, click **Start** , click the arrow , and then click **Shut Down**. The computer turns off after the operating system shutdown process finishes.
3. Ensure that the computer and all attached devices are turned off. If your computer and attached devices did not automatically turn off when you shut down your operating system, press and hold the power button until the computer turns off.


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## Before Working Inside Your Computer


Use the following safety guidelines to help protect your computer from potential damage and to help to ensure your own 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).

 **CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell is not covered by your warranty.

 **CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

 **CAUTION:** Handle components and cards with care. Do not touch the components or contacts on a card. Hold a card by its edges or by its metal mounting bracket. Hold a component such as a processor by its edges, not by its pins.

 **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; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before you connect a cable, ensure that both connectors are correctly oriented and aligned.


 **CAUTION:** To avoid damaging the computer, perform the following steps before you begin working inside the computer.

1. Ensure that the work surface is flat and clean to prevent the computer cover from being scratched.

2. Turn off your computer (see [Turning Off Your Computer](#)).
3. If the computer is connected to a docking device (docked), undock it. See the documentation that came with your docking device for instructions.

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

4. Disconnect all telephone or network cables from the computer.
5. Press and eject any installed cards from the ExpressCard slot or the 7-in-1 Media Card Reader.
6. Disconnect your computer and all attached devices from their electrical outlets.

 **CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.

7. Remove the battery (see [Removing the Battery](#)).
8. Turn the computer top-side up, open the display, and press the power button to ground the system board.

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## Flashing the BIOS

### Dell™ Inspiron™ 17 Service Manual


- [Flashing the BIOS From a CD](#)
- [Flashing the BIOS From the Hard Drive](#)

If a BIOS-update program CD is provided with the new system board, flash the BIOS from the CD. If you do not have a BIOS-update program CD, flash the BIOS from the hard drive.

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### Flashing the BIOS From a CD


1. Ensure that the AC adapter is plugged in and that the main battery is installed properly.

 **NOTE:** If you use a BIOS-update program CD to flash the BIOS, set up the computer to boot from a CD before inserting the CD.

2. Insert the BIOS-update program CD, and restart the computer. Follow the procedures that appear on the screen. The computer continues to boot and updates the new BIOS. When the flash update is complete, the computer will automatically restart.
  3. Press <F2> during POST to enter the system setup program.
  4. Press <F9> to reset the computer defaults.
  5. Press <Esc>, select **Save changes and reboot**, and press <Enter> to save configuration changes.
  6. Remove the BIOS-update program CD from the drive and restart the computer.
- 

### Flashing the BIOS From the Hard Drive

1. Ensure that the AC adapter is plugged in, the main battery is properly installed, and a network cable is attached.
2. Turn on the computer.
3. Locate the latest BIOS update file for your computer at [support.dell.com](http://support.dell.com).
4. Click **Drivers & Downloads**→ **Select Model**.
5. Select the type of product in the **Select Your Product Family** list.
6. Select the product brand in the **Select Your Product Line** list.
7. Select the product model number in the **Select Your Product Model** list.

 **NOTE:** If you have selected a different model and want to start over again, click Start Over on the top right of the menu.

8. Click **Confirm**.
  9. A list of results appear on the screen. Click **BIOS**.
  10. Click **Download Now** to download the latest BIOS file. The **File Download** window appears.
  11. Click **Save** to save the file on your desktop. The file downloads to your desktop.
  12. Click **Close** if the **Download Complete** window appears. The file icon appears on your desktop and is titled the same as the downloaded BIOS update file.
  13. Double-click the file icon on the desktop and follow the procedures on the screen.
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## Internal Module With Bluetooth® Wireless Technology

### Dell™ Inspiron™ 17 Service Manual

- [Bluetooth Card](#)
- [Bluetooth Board](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.

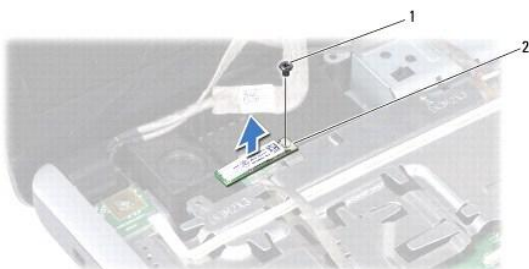
If you ordered a card with Bluetooth wireless technology with your computer, it is already installed.

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## Bluetooth Card

### Removing the Bluetooth Card

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Remove the screw that secures the Bluetooth card to the Bluetooth board.
10. Lift the Bluetooth card to disconnect it from the connector on the Bluetooth board.



1	screw	2	Bluetooth card
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## Replacing the Bluetooth Card

1. Follow the procedures in [Before You Begin](#).
2. Connect the Bluetooth card to the connector on the Bluetooth board.
3. Replace the screw that secures the Bluetooth card to the Bluetooth board.
4. Replace the keyboard (see [Replacing the Keyboard](#)).
5. Replace the center control cover (see [Replacing the Center Control Cover](#)).
6. Replace the optical drive (see [Replacing the Optical Drive](#)).
7. Replace the hard drive (see [Replacing the Hard Drive](#)).
8. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
9. Replace the module cover (see [Replacing the Module Cover](#)).
10. Replace the battery (see [Replacing the Battery](#)).

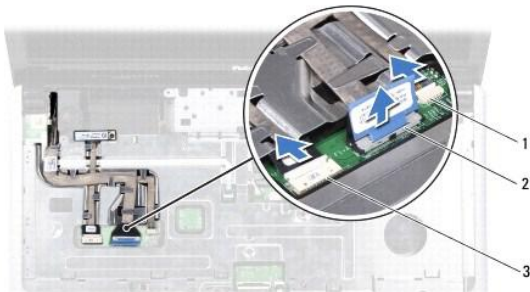
**CAUTION:** Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

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## Bluetooth Board

### Removing the Bluetooth Board

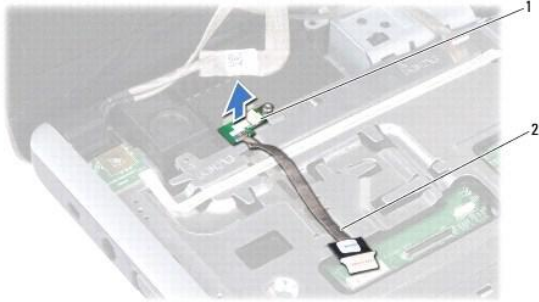
1. Follow the procedures in [Before You Begin](#).
2. Remove the Bluetooth Card (see [Removing the Bluetooth Card](#)).
3. Disconnect the display cable and camera cable from the respective system board connectors and remove them from their routing guides.
4. Disconnect the Bluetooth board cable from the system board connector and remove it from the routing guide.



1	camera cable connector	2	display cable connector
3	Bluetooth board cable connector		

**CAUTION:** The Bluetooth board is glued to the palm rest. Do not pull on the Bluetooth board cable to remove the Bluetooth board.

5. Using a plastic scribe, pry out the Bluetooth board to release it from the palm rest.



1	Bluetooth board	2	Bluetooth board cable
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## Replacing the Bluetooth Board

1. Follow the procedures in [Before You Begin](#).
2. Align the Bluetooth board with the slot on the palm rest and stick the Bluetooth board on the palm rest.
3. Route the Bluetooth board cable through the routing guide and connect it to the system board connector.
4. Route the display cable and camera cable through their routing guides and connect them to the respective system board connectors.
5. Replace the Bluetooth card (see [Replacing the Bluetooth Card](#)).

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## Camera Module (Optional)

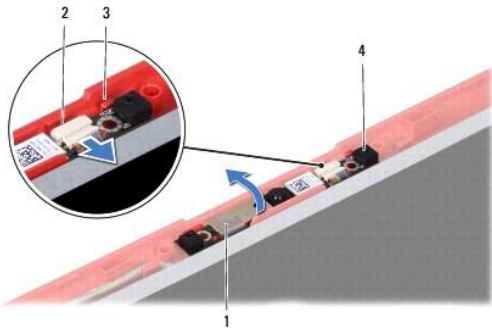
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Camera Module](#)
- [Replacing the Camera Module](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Camera Module

1. Follow the procedures in [Before You Begin](#).
2. Remove the display assembly (see [Removing the Display Assembly](#)).
3. Remove the display bezel (see [Removing the Display Bezel](#)).
4. Disconnect the camera cable from the connector on the camera module.
5. Lift the tape on top of the camera module.
6. Release the camera module from the latches on the display cover.
7. Remove the camera module.




1	tape	2	camera cable connector
3	latches (2)	4	camera module

---

## Replacing the Camera Module

1. Follow the procedures in [Before You Begin](#).
2. Secure the camera module using the latches on the display cover.
3. Connect the camera cable to the connector on the camera module.
4. Replace the tape on top of the camera module.

5. Replace the display bezel (see [Replacing the Display Bezel](#)).
6. Replace the display assembly (see [Replacing the Display Assembly](#)).

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

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## Center Control Cover

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Center Control Cover](#)
- [Replacing the Center Control Cover](#)

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- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Center Control Cover

1. Follow the procedure in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the two screws that secure the center control cover to the computer base.



4. Turn the computer top side up, and open the display as far as possible.

**⚠ CAUTION:** Be extremely careful when removing the center control cover. The cover is very fragile.

5. Pry out the center control cover with a plastic scribe.
6. Ease the center control cover up.




1	center control cover
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## Replacing the Center Control Cover

1. Follow the procedures in [Before You Begin](#).
2. Align the tabs on the center control cover with the slots on the palm rest and snap the cover in place.
3. Replace the two screws that secure the center control cover to the computer base.
4. Replace the battery (see [Replacing the Battery](#)).

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

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## Coin-Cell Battery

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Coin-Cell Battery](#)
- [Replacing the Coin-Cell Battery](#)

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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Coin-Cell Battery

1. Follow the procedures in [Before You Begin](#).
2. Follow the procedures from [step 2](#) to [step 17](#) in [Removing the System Board](#).
3. Use a plastic scribe to pry out the coin-cell battery.



1	coin-cell battery	2	system board
3	plastic scribe		

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## Replacing the Coin-Cell Battery

1. Follow the procedures in [Before You Begin](#).
2. Hold the coin-cell battery with the positive (+) side facing up.
3. Slide the coin-cell battery into the slot and gently press until it snaps into place.
4. Follow the procedures from [step 5](#) to [step 20](#) in [Replacing the System Board](#).

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



## Processor Module

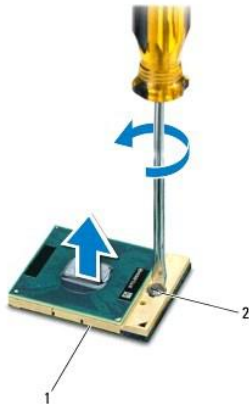
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Processor Module](#)
- [Replacing the Processor Module](#)

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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To prevent intermittent contact between the ZIF-socket cam screw and the processor when removing or replacing the processor, press to apply slight pressure to the center of the processor while turning the cam screw.
- ⚠ CAUTION:** To avoid damage to the processor, hold the screwdriver so that it is perpendicular to the processor when turning the cam screw.
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Processor Module


1. Follow the procedures in [Before You Begin](#).
2. Remove the processor heat sink (see [Removing the Processor Heat Sink](#)).
3. To loosen the ZIF socket, use a small, flat-blade screwdriver and rotate the ZIF-socket cam screw counterclockwise until it comes to the cam stop.




1	ZIF socket	2	ZIF-socket cam screw
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- ⚠ CAUTION:** To ensure maximum cooling for the processor, do not touch the heat transfer areas on the processor thermal-cooling assembly. The oils in your skin can reduce the heat transfer capability of the thermal pads.
- ⚠ CAUTION:** When removing the processor module, pull the module straight up. Be careful not to bend the pins on the processor module.
4. Lift the processor module from the ZIF socket.
- 

## Replacing the Processor Module

 **NOTE:** If a new processor is installed, you will receive a new thermal-cooling assembly, which will include an affixed thermal pad, or you will receive a new thermal pad along with documentation to illustrate proper installation.


1. Follow the procedures in [Before You Begin](#).
2. Align the pin-1 corner of the processor module with the pin-1 corner of the ZIF socket, then insert the processor module.

 **NOTE:** The pin-1 corner of the processor module has a triangle that aligns with the triangle on the pin-1 corner of the ZIF socket.

When the processor module is properly seated, all four corners are aligned at the same height. If one or more corners of the module are higher than the others, the module is not seated properly.

 **CAUTION:** To avoid damage to the processor, hold the screwdriver perpendicular to the processor when turning the cam screw.

3. Tighten the ZIF socket by turning the cam screw clockwise to secure the processor module to the system board.
4. Replace the processor heat sink (see [Replacing the Processor Heat Sink](#)).

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

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## Processor Heat Sink

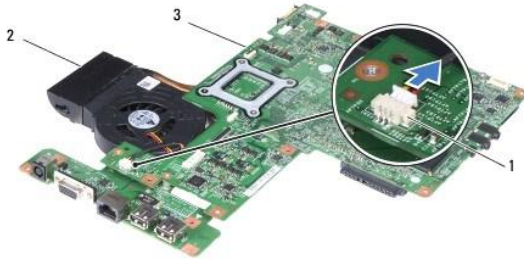
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Processor Heat Sink](#)
- [Replacing the Processor Heat Sink](#)

- ⚠ **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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
  - ⚠ **WARNING:** If you remove the processor heat sink from the computer when the heat sink is hot, do not touch the metal housing of the processor heat sink.
  - ⚠ **CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
  - ⚠ **CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
  - ⚠ **CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Processor Heat Sink

1. Follow the procedures in [Before You Begin](#).
2. Follow the procedures from [step 2](#) to [step 17](#) in [Removing the System Board](#).
3. Disconnect the fan cable from the connector on the system board.



1	fan cable connector	2	processor heat sink
3	system board		

🔧 **NOTE:** The location of the screws may change according to the display adapter supported by your computer.


4. Turn the system board over and in sequential order (indicated on the processor heat sink) loosen the five captive screws that secure the processor heat sink to the system board.
5. Lift the processor heat sink off the system board.




1	captive screws (5)	2	processor heat sink
3	system board		


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## Replacing the Processor Heat Sink

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

 **NOTE:** This procedure assumes that you have already removed the processor heat sink and are ready to replace it.

1. Follow the procedures in [Before You Begin](#).
2. Align the five captive screws on the processor heat sink with the screw holes on the system board and tighten the screws in sequential order (indicated on the processor heat sink).
3. Turn the system board over and connect the fan cable to the connector on the system board.
4. Follow the procedures from [step 5](#) to [step 20](#) in [Replacing the System Board](#).

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

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## Display

### Dell™ Inspiron™ 17 Service Manual

- [Display Assembly](#)
- [Display Bezel](#)
- [Display Panel](#)
- [Display Panel Cable](#)

- 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Display Assembly

### Removing the Display Assembly

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the two screws from the computer base.



8. Remove the center control cover (see [Removing the Center Control Cover](#)).
9. Remove the keyboard (see [Removing the Keyboard](#)).
10. Remove the palm rest (see [Removing the Palm Rest](#)).
11. Remove the two screws that secure the display assembly to the computer base.
12. Lift and remove the display assembly from the computer base.



1	display assembly	2	screws (2)
---	------------------	---	------------

## Replacing the Display Assembly

1. Follow the procedures in [Before You Begin](#).
2. Place the display assembly in position and replace the two screws that secure the display assembly to the computer base.
3. Replace the palm rest (see [Replacing the Palm Rest](#)).
4. Replace the keyboard (see [Replacing the Keyboard](#)).
5. Replace the center control cover (see [Replacing the Center Control Cover](#)).
6. Replace the two screws at the bottom of the computer.
7. Replace the optical drive (see [Replacing the Optical Drive](#)).
8. Replace the hard drive (see [Replacing the Hard Drive](#)).
9. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
10. Replace the module cover (see [Replacing the Module Cover](#)).
11. Replace the battery (see [Replacing the Battery](#)).

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

## Display Bezel

### Removing the Display Bezel

**CAUTION:** The display bezel is extremely fragile. Be careful when removing it to prevent damaging the bezel.

1. Follow the procedures in [Before You Begin](#).
2. Remove the display assembly (see [Removing the Display Assembly](#)).
3. Using your fingertips, carefully pry up the inside edge of the display bezel.



4. Remove the display bezel.



1	display bezel
---	---------------

## Replacing the Display Bezel

1. Follow the procedures in [Before You Begin](#).
2. Realign the display bezel over the display panel, and gently snap into place.
3. Replace the display assembly (see [Replacing the Display Assembly](#)).

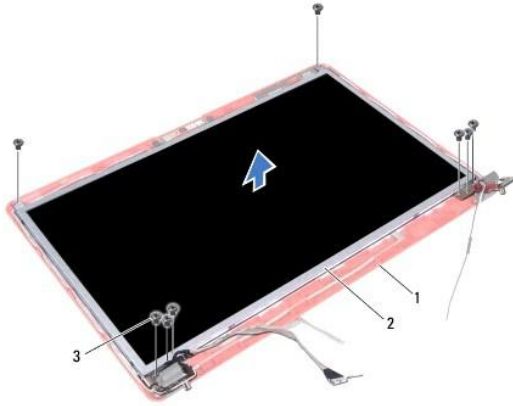
**CAUTION:** Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

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## Display Panel

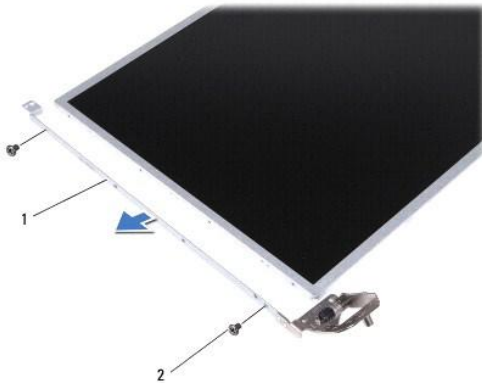
### Removing the Display Panel

1. Follow the procedures in [Before You Begin](#).
2. Remove the display assembly (see [Removing the Display Assembly](#)).
3. Remove the display bezel (see [Removing the Display Bezel](#)).
4. Remove the eight screws that secure the display panel to the display cover.
5. Remove the Mini-Card antenna cables, camera cable, and display cable from the hinge latches.
6. Remove the display panel.



1	display cover	2	display panel
3	screws (8)		

7. Remove the four screws (two on each side) that secure the display panel brackets to the display panel.



1	display panel brackets (2)	2	screws (4)
---	----------------------------	---	------------

## Replacing the Display Panel

1. Follow the procedures in [Before You Begin](#).
2. Replace the four screws that secure the display panel brackets to the display panel.
3. Align the screw holes on the display panel with the holes on the display cover.
4. Route the Mini-Card cables, camera cable, and display cable through the hinge latches.
5. Replace the six screws that secure the display panel to the display cover.
6. Replace the display bezel (see [Replacing the Display Bezel](#)).
7. Replace the display assembly (see [Replacing the Display Assembly](#)).

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

## Display Panel Cable

### Removing the Display Panel Cable

1. Follow the procedures in [Before You Begin](#).
2. Remove the display assembly (see [Removing the Display Assembly](#)).
3. Remove the display bezel (see [Removing the Display Bezel](#)).
4. Remove the display panel (see [Removing the Display Panel](#)).
5. Turn over the display panel and place it on a clean surface.
6. Lift the conductive tape that secures the display panel cable to the display board connector and disconnect the display panel cable.



1	conductive tape	2	display board connector
3	display panel cable	4	back of the display panel

### Replacing the Display Panel Cable

1. Follow the procedures in [Before You Begin](#).
2. Connect the display panel cable to the display board connector and secure it with the conductive tape.
3. Replace the display panel (see [Replacing the Display Panel](#)).
4. Replace the display bezel (see [Replacing the Display Bezel](#)).
5. Replace the display assembly (see [Replacing the Display Assembly](#)).

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

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## ExpressCard Reader Board

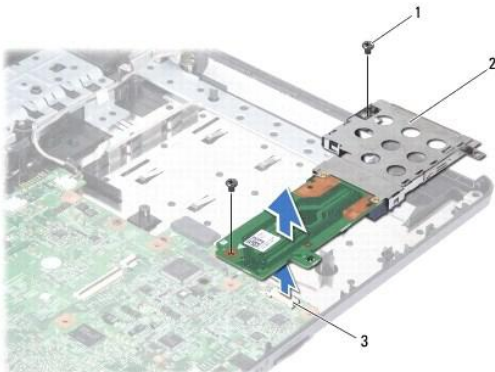
### Dell™ Inspiron™ 17 Service Manual

- [Removing the ExpressCard Reader Board](#)
- [Replacing the ExpressCard Reader Board](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the ExpressCard Reader Board

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Remove the palm rest (see [Removing the Palm Rest](#)).
10. Remove the two screws that secure the ExpressCard reader board to the computer base.
11. Disconnect the ExpressCard reader board from system board connector and lift the board out of the computer base.




1	screws (2)	2	ExpressCard reader board
3	system board connector		

---

---

## Replacing the ExpressCard Reader Board

1. Follow the procedures in [Before You Begin](#).
2. Align the ExpressCard reader board with the system board connector and press the board into place.
3. Replace the two screws that secure the ExpressCard reader board to the computer base.
4. Replace the palm rest (see [Replacing the Palm Rest](#)).
5. Replace the keyboard (see [Replacing the Keyboard](#)).
6. Replace the center control cover (see [Replacing the Center Control Cover](#)).
7. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
8. Replace the module cover (see [Replacing the Module Cover](#)).
9. Replace the optical drive (see [Replacing the Optical Drive](#)).
10. Replace the hard drive (see [Replacing the Hard Drive](#)).
11. Replace the battery (see [Replacing the Battery](#)).

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

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## Hard Drive

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Hard Drive](#)
- [Replacing the Hard Drive](#)

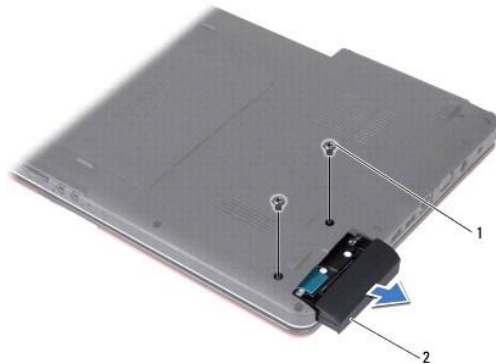
- ⚠ **WARNING:** Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
  - ⚠ **WARNING:** If you remove the hard drive from the computer when the drive is hot, do not touch the metal housing of the hard drive.
  - ⚠ **CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell is not covered by your warranty.
  - ⚠ **CAUTION:** To prevent data loss, turn off your computer (see [Turning Off Your Computer](#)) before removing the hard drive. Do not remove the hard drive while the computer is On or in Sleep state.
  - ⚠ **CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
  - ⚠ **CAUTION:** Hard drives are extremely fragile. Exercise care when handling the hard drive.
  - ⚠ **CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
  - ⚠ **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; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before you connect a cable, ensure that both connectors are correctly oriented and aligned.
  - 🔧 **NOTE:** Dell does not guarantee compatibility or provide support for hard drives from sources other than Dell.
  - 🔧 **NOTE:** If you are installing a hard drive from a source other than Dell, you need to install an operating system, drivers, and utilities on the new hard drive (see the *Dell Technology Guide*).
- 

## Removing the Hard Drive

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).

- ⚠ **CAUTION:** When the hard drive is not in the computer, store it in protective antistatic packaging (see "Protecting Against Electrostatic Discharge" in the safety instructions that shipped with your computer).

3. Remove the two screws that secure the hard drive assembly to the computer base.
4. Slide the hard drive assembly out of the hard drive compartment.



1	screws (2)	2	hard drive assembly
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- 
- Remove the two screws that secure the hard drive bezel to the hard drive.
  - Remove the hard drive.



1	hard drive bezel	2	screws (2)
3	hard drive		

---

## Replacing the Hard Drive

- Follow the procedures in [Before You Begin](#).
- Remove the new hard drive from its packaging. Save the original packaging for storing or shipping the hard drive.
- Align the screw holes on the hard drive bezel with the holes on the hard drive.
- Replace the two screws that secure the hard drive bezel to the hard drive.
- Slide the hard drive assembly into the hard drive compartment until it is fully seated.
- Replace the two screws that secure the hard drive assembly to the computer base.
- Replace the battery (see [Replacing the Battery](#)).

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

- Install the operating system for your computer, as needed. See "Restoring Your Operating System" in the *Setup Guide*.
- Install the drivers and utilities for your computer, as needed. For more information, see the *Dell Technology Guide*.

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## Keyboard

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Keyboard](#)
- [Replacing the Keyboard](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Keyboard

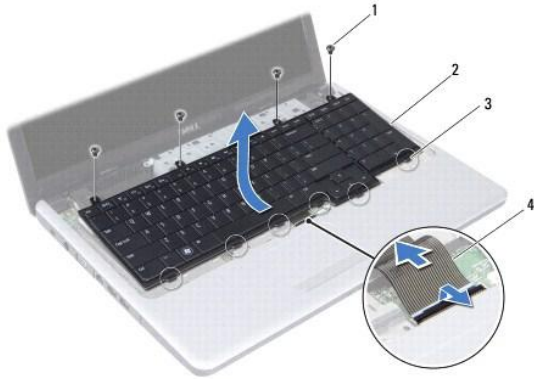
1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the center control cover (see [Removing the Center Control Cover](#)).
4. Pry out the keyboard surround with a plastic scribe.



1	keyboard surround
---	-------------------

5. Remove the four screws that secure the keyboard to the palm rest.
- ⚠ CAUTION:** The keycaps on the keyboard are fragile, easily dislodged, and time-consuming to replace. Be careful when removing and handling the keyboard.
- ⚠ CAUTION:** Be extremely careful when removing and handling the keyboard. Failure to do so could result in scratching the display panel.
6. Ease the keyboard up until the keyboard cable connector is visible.
  7. Without pulling hard on the keyboard, hold it towards the display.
  8. Lift the connector latch that secures the keyboard cable to the system board connector and remove the cable.
  9. Lift the keyboard off the palm rest.





1	screws (4)	2	keyboard
3	tabs (6)	4	keyboard cable

---

## Replacing the Keyboard

1. Follow the procedures in [Before You Begin](#).
2. Slide the keyboard cable into the connector on the system board. Press down on the connector latch to secure the keyboard cable to the system board connector.
3. Align the six tabs on the keyboard with the slots on the palm rest.
4. Place the keyboard on the palm rest.
5. Replace the four screws that secure the keyboard to the palm rest.
6. Align the tabs on the keyboard surround with the slots on the palm rest and snap the cover in place.
7. Replace the center control cover (see [Replacing the Center Control Cover](#)).
8. Replace the battery (see [Replacing the Battery](#)).

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

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## Battery Latch Assembly

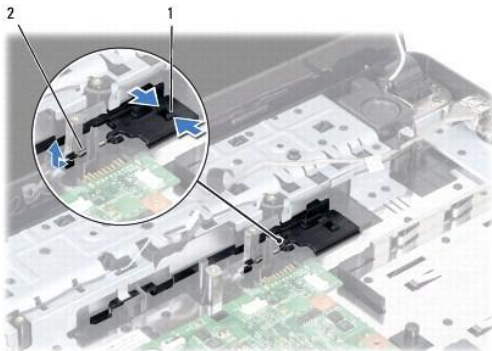
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Battery Latch Assembly](#)
- [Replacing the Battery Latch Assembly](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

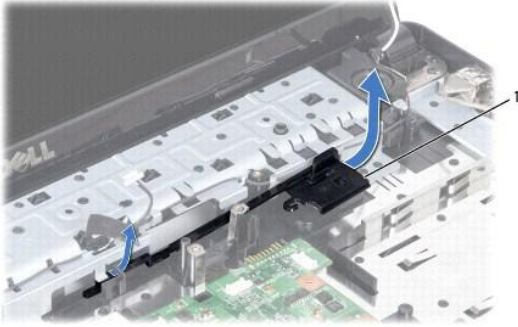
## Removing the Battery Latch Assembly

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Remove the palm rest (see [Removing the Palm Rest](#)).
10. Press and push the plastic clips on battery release latch to release it from the battery latch assembly.
11. Using a small screwdriver, remove the latch spring on the battery latch assembly.



1	plastic clips	2	latch spring
---	---------------	---	--------------

12. Slide the battery latch assembly to the side and remove it from the computer base.



1	battery latch assembly
---	------------------------

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## Replacing the Battery Latch Assembly

1. Follow the procedures in [Before You Begin](#).
2. Slide the battery latch assembly into place.
3. Using a small screwdriver, place the latch spring over the hook on the computer base.
4. Push the plastic clips on the battery release latch into the hole on the battery latch assembly to secure the battery release latch.
5. Replace the palm rest (see [Replacing the Palm Rest](#)).
6. Replace the keyboard (see [Replacing the Keyboard](#)).
7. Replace the center control cover (see [Replacing the Center Control Cover](#)).
8. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
9. Replace the module cover (see [Replacing the Module Cover](#)).
10. Replace the optical drive (see [Replacing the Optical Drive](#)).
11. Replace the hard drive (see [Replacing the Hard Drive](#)).
12. Replace the battery (see [Replacing the Battery](#)).

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

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## Memory Module(s)

Dell™ Inspiron™ 17 Service Manual

- [Removing the Memory Module\(s\)](#)
- [Replacing the Memory Module\(s\)](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.

You can increase your computer's memory by installing memory modules on the system board. See "Specifications" in your *Setup Guide* for information on the type of memory supported by your computer.

**📌 NOTE:** Memory modules purchased from Dell are covered under your computer warranty.

Your computer has two user-accessible SODIMM sockets that can be accessed from the bottom of the computer.

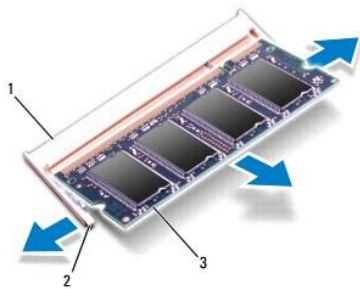
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## Removing the Memory Module(s)

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).

**⚠ CAUTION:** To prevent damage to the memory module connector, do not use tools to spread the memory module securing clips.

4. Use your fingertips to carefully spread apart the securing clips on each end of the memory module connector until the module pops up.
5. Remove the memory module from the memory module connector.



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

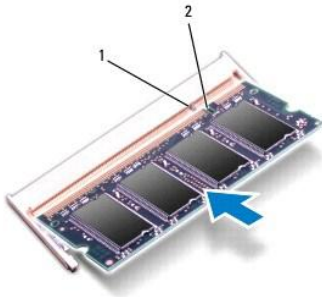
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## Replacing the Memory Module(s)

**CAUTION:** If you need to install memory modules in two connectors, install a memory module in the lower connector before you install a memory module in the upper connector.

1. Follow the procedures in [Before You Begin](#).
2. Align the notch in the memory module with the tab in the memory module connector.
3. Slide the memory module firmly into the slot at a 45-degree angle, and press the memory module down until it clicks into place. If you do not hear the click, remove the memory module and reinstall it.

**NOTE:** If the memory module is not installed properly, the computer may not boot.




1	tab	2	notch
---	-----	---	-------

4. Replace the module cover (see [Replacing the Module Cover](#)).

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

5. Replace the battery (see [Replacing the Battery](#)), or connect the AC adapter to your computer and an electrical outlet.
6. Turn on the computer.

As the computer boots, it detects the memory module(s) and automatically updates the system configuration information.

To confirm the amount of memory installed in the computer, click **Start**  → **Help and Support** → **Dell System Information**.

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## Wireless Mini-Card

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Mini-Card](#)
- [Replacing the Mini-Card](#)

- ⚠ **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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ **CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ **CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ **CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 🔧 **NOTE:** Dell does not guarantee compatibility or provide support for Mini-Cards from sources other than Dell.

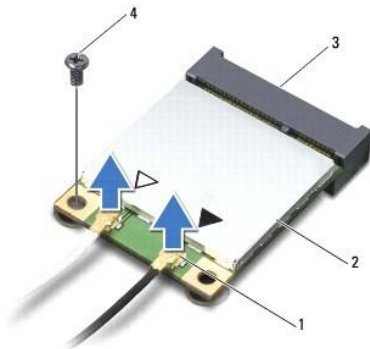
If you ordered a wireless Mini-Card with your computer, the card is already installed.

Your computer supports one half Mini-Card slot for Wireless Local Area Network (WLAN).

- 🔧 **NOTE:** Depending on the configuration of the computer when it was sold, the Mini-Card slot may or may not have Mini-Card installed.

## Removing the Mini-Card

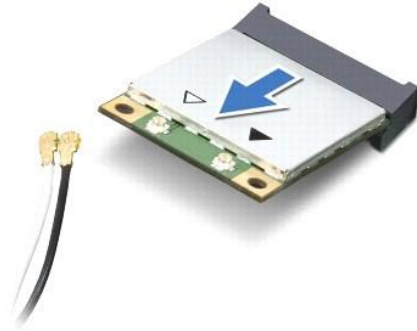
1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Disconnect the antenna cables from the Mini-Card.



1	antenna cable connectors (2)	2	Mini-Card
3	system board connector	4	screw

5. Remove the screw that secures the Mini-Card to the system board.
6. Lift the Mini-Card out of the system board connector.

- ⚠ **CAUTION:** When the Mini-Card is not in the computer, store it in protective antistatic packaging (see "Protecting Against Electrostatic Discharge" in the safety instructions that shipped with your computer).



---

## Replacing the Mini-Card

1. Follow the procedures in [Before You Begin](#).
2. Remove the new Mini-Card from its packaging.

**CAUTION:** Use firm and even pressure to slide the card into place. If you use excessive force, you may damage the connector.

**CAUTION:** The connectors are keyed to ensure correct insertion. If you feel resistance, check the connectors on the card and on the system board, and realign the card.

**CAUTION:** To avoid damage to the Mini-Card, never place cables under the card.

3. Insert the Mini-Card at a 45-degree angle into the appropriate system board connector.
4. Press the other end of the Mini-Card down into the slot on the system board and replace the screw that secures the Mini-Card to the system board connector.
5. Connect the appropriate antenna cables to the Mini-Card. The following table provides the antenna cable color scheme for the Mini-Card supported by your computer.

Connectors on the Mini-Card	Antenna Cable Color Scheme
WLAN (2 antenna cables)	
Main WLAN (white triangle)	white
Auxiliary WLAN (black triangle)	black

6. Secure unused antenna cables in the protective mylar sleeve.
7. Replace the module cover (see [Replacing the Module Cover](#)).
8. Replace the battery (see [Replacing the Battery](#)).

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

9. Install the drivers and utilities for your computer, as required. For more information, see the *Dell Technology Guide*.

**NOTE:** If you are installing a communication card from a source other than Dell, you must install the appropriate drivers and utilities. For more generic driver information, see the *Dell Technology Guide*.

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## Optical Drive Board

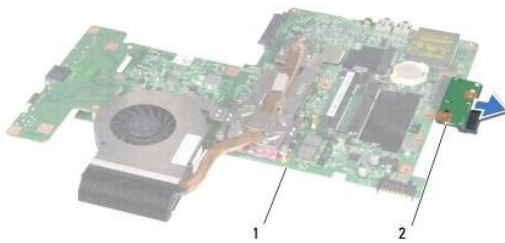
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Optical Drive Board](#)
- [Replacing the Optical Drive Board](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
- ⚠ CAUTION:** Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.
- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Optical Drive Board

1. Follow the procedures in [Before You Begin](#).
2. Remove the system board (see [Removing the System Board](#)).
3. Turn the system board over and disconnect the optical drive board from the system board connector.
4. Disconnect the optical drive board from the system board connector.



1	system board	2	optical drive board
---	--------------	---	---------------------

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## Replacing the Optical Drive Board

1. Follow the procedures in [Before You Begin](#).
2. Connect the optical drive board to the system board connector.
3. Replace the system board (see [Replacing the System Board](#)).

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



## Optical Drive

### Dell™ Inspiron™ 17 Service Manual

- [Removing the Optical Drive](#)
- [Replacing the Optical Drive](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Optical Drive

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the screw that secures the optical drive to the computer base.
4. Using a plastic scribe, push the notch to remove the optical drive from the optical drive bay.
5. Slide the optical drive out of the optical drive bay.




1	optical drive	2	screw
3	notch	4	plastic scribe

---

## Replacing the Optical Drive

1. Follow the procedures in [Before You Begin](#).
2. Slide the optical drive into the optical drive bay until it is fully seated.
3. Replace the screw that secures the optical drive to the computer base.
4. Replace the battery (see [Replacing the Battery](#)).

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

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## Palm Rest

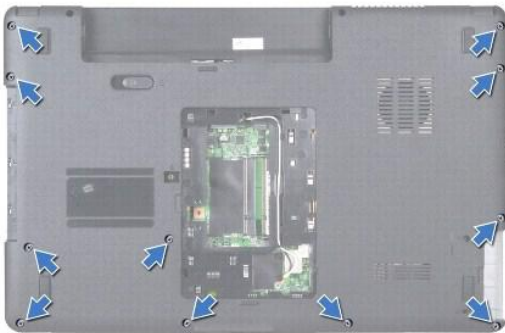
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Palm Rest](#)
- [Replacing the Palm Rest](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Palm Rest

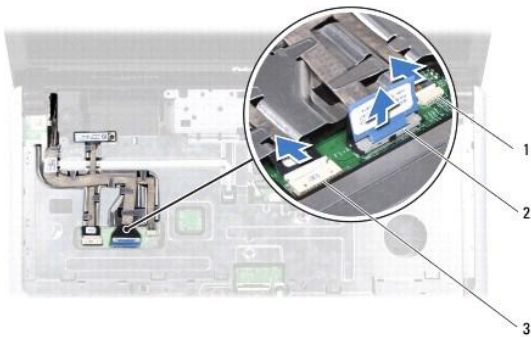
1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the Mini-Card (see [Removing the Mini-Card](#)).
8. Remove the eleven screws from the computer base.



9. Make note of the Mini-Card antenna cables routing and remove the cables from the routing guides.

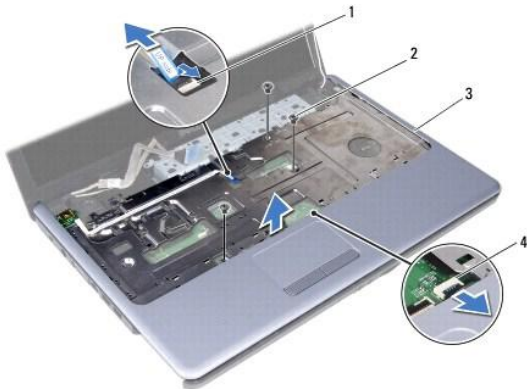


10. Remove the center control cover (see [Removing the Center Control Cover](#)).
11. Remove the keyboard (see [Removing the Keyboard](#)).
12. Disconnect the display cable, camera cable, and Bluetooth board cable from the respective system board connectors and remove them from their routing guides.




1	camera cable connector	2	display cable connector
3	Bluetooth board cable connector		

13. Make note of the Mini-Card antenna cable routing and carefully dislodge the antenna cables from the slot on the computer. Pull the cables away, so that they are clear of the palm rest.
14. Disconnect the power button board cable and the touch pad cable from the respective system board connectors.
15. Remove the three screws that secure the palm rest to the system board.




1	power button board cable connector	2	screws (3)
3	palm rest	4	touch pad cable connector

 **CAUTION:** Carefully separate the palm rest from the computer base to avoid damage to the palm rest.

16. Starting at the right or left of the palm rest, use your fingers to separate the palm rest from the computer base.
  17. Lift the palm rest off the computer base.
- 

## Replacing the Palm Rest

1. Follow the procedures in [Before You Begin](#).
2. Align the palm rest on the computer base and gently snap the palm rest into place.
3. Replace the three screws on the palm rest.
4. Connect the power button board cable and touch pad cable to the respective system board connectors.
5. Route the Mini-Card antenna cables, and guide the cables to the bottom of the computer through the cable routing slot.
6. Connect the display cable, camera cable, and Bluetooth board cable to the respective system board connectors.
7. Replace the keyboard (see [Replacing the Keyboard](#)).
8. Replace the center control cover (see [Replacing the Center Control Cover](#)).
9. Replace the eleven screws at the bottom of the computer.
10. Route the Mini-Card antenna cables through the routing guides at the bottom of the computer, and replace the Mini-Card (see [Replacing the Mini-Card](#)).
11. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
12. Replace the module cover (see [Replacing the Module Cover](#)).
13. Replace the optical drive (see [Replacing the Optical Drive](#)).
14. Replace the hard drive (see [Replacing the Hard Drive](#)).
15. Replace the battery (see [Replacing the Battery](#)).

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

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## Power Button Board

### Dell™ Inspiron™ 17 Service Manual

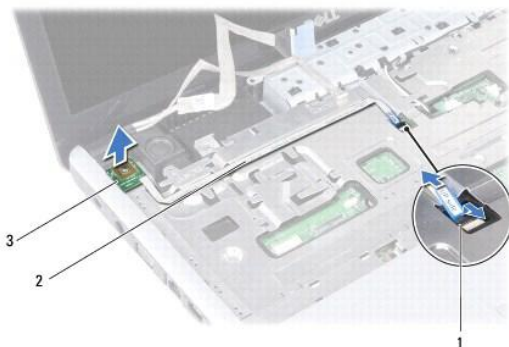
- [Removing the Power Button Board](#)
- [Replacing the Power Button Board](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Power Button Board

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Disconnect the display cable, camera cable, and Bluetooth board cable from the respective system board connectors and remove the cables from their routing guides.
10. Lift the connector latch to release the power button board cable from the system board connector.

- ⚠ CAUTION:** The power button board is glued to the palm rest. Do not pull on the power button board cable to remove the power button board.




1	power button board cable connector	2	power button board cable
3	power button board		

11. Using a plastic scribe, pry out the power button board to release it from the palm rest.

12. Lift the power button board off the palm rest.
- 

## Replacing the Power Button Board

1. Follow the procedures in [Before You Begin](#).
2. Align the holes on the power button board with the protrusion on the palm rest and stick it in place.
3. Slide the power button board cable into the system board connector and pull down the connector latch to secure the cable to the connector.
4. Route the display cable, camera cable, and Bluetooth board cable into their routing guides and connect the cables to the respective system board connectors.
5. Replace the keyboard (see [Replacing the Keyboard](#)).
6. Replace the center control cover (see [Replacing the Center Control Cover](#)).
7. Replace the optical drive (see [Replacing the Optical Drive](#)).
8. Replace the hard drive (see [Replacing the Hard Drive](#)).
9. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
10. Replace the module cover (see [Replacing the Module Cover](#)).
11. Replace the battery (see [Replacing the Battery](#)).

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

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## Battery

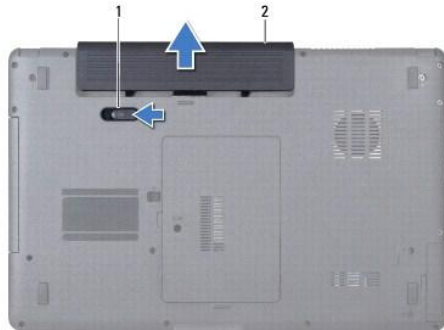
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Battery](#)
- [Replacing the Battery](#)

- ⚠ 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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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- ⚠ CAUTION:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).
- ⚠ CAUTION:** To avoid damage to the computer, use only the battery designed for this particular Dell computer. Do not use batteries designed for other Dell computers.
- 

## Removing the Battery

1. Follow the procedures in [Before You Begin](#).
2. Turn the computer over.
3. Slide the battery release latch to the unlock position until it clicks into place.
4. Slide the battery out of the battery bay.



1	battery release latch	2	battery
---	-----------------------	---	---------

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## Replacing the Battery

1. Follow the procedures in [Before You Begin](#).
  2. Slide the battery in the battery bay until it clicks into place.
- 

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## Speakers

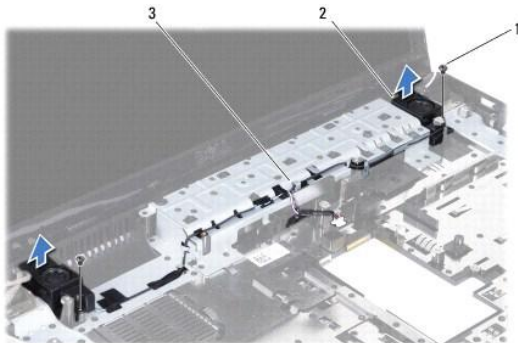
### Dell™ Inspiron™ 17 Service Manual

- [Removing the Speakers](#)
- [Replacing the Speakers](#)

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- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the Speakers

1. Follow the procedures in [Before You Begin](#).
2. Remove the system board (see [Removing the System Board](#)).
3. Remove the two screws that secure the speakers to the computer base.
4. Remove the speaker cables from the routing guides.
5. Lift the speakers off the computer base.




1	screws (2)	2	speakers (2)
3	routing guide		

---

## Replacing the Speakers

1. Follow the procedures in [Before You Begin](#).
2. Place the speakers on the computer base.
3. Replace the two screws that secure the speakers to the computer base.
4. Route the speaker cables through their routing guides.
5. Replace the system board (see [Replacing the System Board](#)).

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





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## System Board

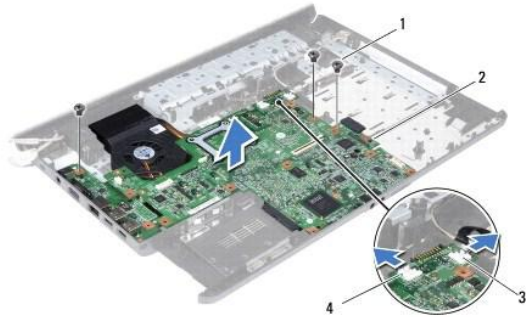
### Dell™ Inspiron™ 17 Service Manual

- [Removing the System Board](#)
- [Replacing the System Board](#)
- [Entering the Service Tag in the BIOS](#)

-  **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 [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).
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-  **CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the System Board

1. Follow the procedures in [Before You Begin](#).
  2. Remove the battery (see [Removing the Battery](#)).
  3. Remove the module cover (see [Removing the Module Cover](#)).
  4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
  5. Remove the hard drive (see [Removing the Hard Drive](#)).
  6. Remove the optical drive (see [Removing the Optical Drive](#)).
  7. Remove the Mini-Card (see [Removing the Mini-Card](#)).
  8. Remove the center control cover (see [Removing the Center Control Cover](#)).
  9. Remove the keyboard (see [Removing the Keyboard](#)).
  10. Remove the Bluetooth card (see [Removing the Bluetooth Card](#)).
  11. Remove the palm rest (see [Removing the Palm Rest](#)).
  12. Remove the ExpressCard reader board (see [Removing the ExpressCard Reader Board](#)).
  13. Remove the battery extension board (see [Removing the Battery Extension Board](#)).
  14. Disconnect the speaker cables and the USB module cable from the respective system board connectors.
-  **NOTE:** The location of the screws may change according to the display adapter supported by your computer.
15. Remove the three screws that secure the system board to the computer base.




1	screws (3)	2	system board
3	USB module cable connector	4	speaker cable connector

16. Lift the system board out of the computer base.
17. Turn the system board over.
18. Remove the processor heat sink (see [Removing the Processor Heat Sink](#)).
19. Remove the processor module (see [Removing the Processor Module](#)).
20. Remove the coin-cell battery (see [Removing the Coin-Cell Battery](#)).

## Replacing the System Board

1. Follow the procedures in [Before You Begin](#).
2. Replace the coin-cell battery (see [Replacing the Coin-Cell Battery](#)).
3. Replace the processor module (see [Replacing the Processor Module](#)).
4. Replace the processor heat sink (see [Replacing the Processor Heat Sink](#)).
5. Turn the system board over.
6. Align the screw holes on the system board with the screw holes on the computer base.
7. Replace the three screws that secure the system board to the computer base.
8. Connect the speaker cable and the USB module cable to the respective system board connectors.
9. Replace the battery extension board (see [Replacing the Battery Extension Board](#)).
10. Replace the ExpressCard reader board (see [Replacing the ExpressCard Reader Board](#)).
11. Replace the palm rest (see [Replacing the Palm Rest](#)).
12. Replace the Bluetooth card (see [Replacing the Bluetooth Card](#)).
13. Replace the keyboard (see [Replacing the Keyboard](#)).
14. Replace the center control cover (see [Replacing the Center Control Cover](#)).
15. Replace the Mini-Card (see [Replacing the Mini-Card](#)).
16. Replace the optical drive (see [Replacing the Optical Drive](#)).

17. Replace the hard drive (see [Replacing the Hard Drive](#)).
18. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
19. Replace the module cover (see [Replacing the Module Cover](#)).
20. Replace the battery (see [Replacing the Battery](#)).

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

21. Turn on the computer.

 **NOTE:** After you have replaced the system board, enter the computer's Service Tag into the BIOS of the replacement system board.

22. Enter the service tag (see [Entering the Service Tag in the BIOS](#)).
- 

## Entering the Service Tag in the BIOS

1. Ensure that the AC adapter is plugged in and that the main battery is installed properly.
  2. Turn on the computer.
  3. Press <F2> during POST to enter the system setup program.
  4. Navigate to the security tab and enter the service tag in the **Set Service Tag** field.
- 

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## **Dell™ Inspiron™ 17 Service Manual**



**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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## USB Module

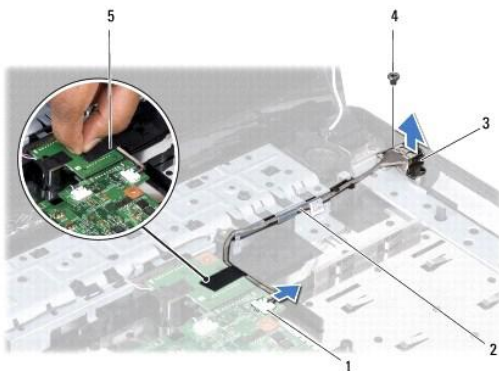
### Dell™ Inspiron™ 17 Service Manual

- [Removing the USB Module](#)
- [Replacing the USB Module](#)

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- ⚠ CAUTION:** To help prevent damage to the system board, remove the main battery (see [Removing the Battery](#)) before working inside the computer.
- 

## Removing the USB Module

1. Follow the procedures in [Before You Begin](#).
2. Remove the battery (see [Removing the Battery](#)).
3. Remove the module cover (see [Removing the Module Cover](#)).
4. Remove the memory module(s) (see [Removing the Memory Module\(s\)](#)).
5. Remove the hard drive (see [Removing the Hard Drive](#)).
6. Remove the optical drive (see [Removing the Optical Drive](#)).
7. Remove the center control cover (see [Removing the Center Control Cover](#)).
8. Remove the keyboard (see [Removing the Keyboard](#)).
9. Remove the palm rest (see [Removing the Palm Rest](#)).
10. Remove the tape to release the USB module cable from the battery extension board.
11. Disconnect the USB module cable from the system board connector.
12. Remove the screw that secures the USB module to the computer base.
13. Make note of the USB module cable routing and remove the USB module cable from the routing guide.




1	USB module cable connector	2	USB module cable routing
---	----------------------------	---	--------------------------

3	USB module	4	screw
5	tape		

---

## Replacing the USB Module

1. Follow the procedures in [Before You Begin](#).
2. Align the hole on the USB module with the protrusion on the computer base.
3. Replace the screw that secures the USB module to the computer base.
4. Route the USB module cable and connect it to the system board connector.
5. Replace the tape to secure the USB module cable to the battery extension board.
6. Replace the palm rest (see [Replacing the Palm Rest](#)).
7. Replace the keyboard (see [Replacing the Keyboard](#)).
8. Replace the center control cover (see [Replacing the Center Control Cover](#)).
9. Replace the memory module(s) (see [Replacing the Memory Module\(s\)](#)).
10. Replace the module cover (see [Replacing the Module Cover](#)).
11. Replace the optical drive (see [Replacing the Optical Drive](#)).
12. Replace the hard drive (see [Replacing the Hard Drive](#)).
13. Replace the battery (see [Replacing the Battery](#)).

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

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