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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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Regulatory Model D02U series
Regulatory Type D02U001 and D02U002

September 2009
Rev. A00
Before You Begin

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

- You have performed the steps in Turning Off Your Computer and Safety Instructions.
- You have read the safety information that shipped with your computer.
- A component can be replaced or—if purchased separately—installed by performing the removal procedure in reverse order.

Recommended Tools

The procedures in this document may require the following tools:

- Small Phillips screwdriver
- Hex nut driver
- Flash BIOS executable update program at support.dell.com

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. Shut down the operating system:

   Windows® XP:
   
   Click Start → Shut Down → Shut down.

   Windows Vista®:
   
   Click the Start button , click the arrow , and then click Shut Down.

   Windows 7:
   
   Click the Start button and then click Shut Down.

3. Ensure that the computer is turned off. If your computer did not automatically turn off when you shut down your operating system, press and hold the power button until the computer turns off.

Safety Instructions

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.

⚠️ WARNING: Disconnect all power sources before opening the enclosure to replace, remove, or install accessories. After the installation is completed, the enclosure must be replaced and all fasteners installed 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 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).
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) and all attached devices.

3. Disconnect all telephone or network cables from the computer.

4. Disconnect your computer and all attached devices from their electrical outlets.

5. Disconnect all attached devices from your computer.

6. Press and hold the power button while the system is unplugged to ground the system board.

⚠️ **CAUTION:** When you disconnect a cable, pull on its connector or on its pull-tab, not on the cable itself. 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) and all attached devices.

⚠️ **CAUTION:** To disconnect a network cable, first unplug the cable from your computer and then unplug the cable from the network device.
### Removing the Bottom Cover

1. Follow the procedures in **Before You Begin**.

2. Turn the computer over.

3. Loosen the two captive screws that secure the bottom cover to the chassis.

4. Lift the bottom cover off the computer base.

### Replacing the Bottom Cover

1. Follow the procedures in **Before You Begin**.

2. Align the screw holes on the bottom cover with the screw holes on the chassis.

3. Tighten the two captive screws that secure the bottom cover to the chassis.

4. Connect your computer and all attached devices to electrical outlets, and turn them on.
Removing the Mini-Card

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the drive bay (see Removing the Drive Bay).
6. Disconnect the antenna cables from the Mini-Card.
7. Remove the screw that secures the Mini-Card to the system-board connector.
8. Lift the Mini-Card away from 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

⚠️ **CAUTION:** The connectors are keyed to ensure correct insertion. Use of excessive force may damage the connectors.

⚠️ **CAUTION:** To avoid damage to the Mini-Card, ensure that there are no cables or antenna cables under the Mini-Card.

1. Follow the procedures in *Before You Begin*.

2. Align the notch on the Mini-Card with the tab in the system-board connector.

3. Insert the Mini-Card at a 45-degree angle into the system-board connector.

4. Press the other end of the Mini-Card down. Replace the screw that secures the Mini-Card to the system-board connector.

5. Connect the appropriate antenna cables to the Mini-Card you are installing. The following table provides the antenna cable color scheme for the Mini-Card supported by your computer.

<table>
<thead>
<tr>
<th>Connectors on the Mini-Card</th>
<th>Antenna Cable Color Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN (2 antenna cables)</td>
<td></td>
</tr>
<tr>
<td>Main WLAN (white triangle)</td>
<td>white</td>
</tr>
<tr>
<td>Auxiliary WLAN (black triangle)</td>
<td>black</td>
</tr>
</tbody>
</table>

6. Replace the drive bay (see *Replacing the Drive Bay*).

7. Replace the optical drive (see *Replacing the Optical Drive*).

8. Replace the top bracket (see *Replacing the Top Bracket*).

9. Replace the top cover (see *Replacing the Top 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.

10. Connect your computer and all attached devices to electrical outlets, and turn them on.
**Coin-Cell Battery**

Dell™ Inspiron™ 300/400 Service Manual

- Removing the Coin-Cell Battery
- Replacing the Coin-Cell 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.

⚠️ **WARNING:** A new battery can explode if it is incorrectly installed. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

⚠️ **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).

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### Removing the Coin-Cell Battery

1. Record all the screens in system setup utility (see System Setup Utility) so that you can restore the correct settings in step 8.

2. Follow the procedures in Before You Begin.

3. Remove the top cover (see Removing the Top Cover).

4. Remove the top bracket (see Removing the Top Bracket).

5. Remove the optical drive (see Removing the Optical Drive).

6. Remove the drive bay (see Removing the Drive Bay).

7. Place the computer with the coin-cell battery facing towards you.

8. Carefully pull the release lever away from the coin-cell battery and lift the coin-cell battery out of the socket.

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### Replacing the Coin-Cell Battery

1. Follow the procedures in Before You Begin.

2. Insert the new coin-cell battery into the socket with the side labeled "+" facing left.

3. Replace the drive bay (see Replacing the Drive Bay).

4. Replace the optical drive (see Replacing the Optical Drive).
5. Replace the top bracket (see Replacing the Top Bracket).

6. Replace the top cover (see Replacing the Top 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.

7. Connect your computer and devices to electrical outlets, and then turn them on.

8. Enter the system setup utility (see System Setup Utility) and restore the settings you recorded in step 1.
Removing the Graphics Card

1. Follow the procedures in Before You Begin.
2. Remove the bottom cover (see Removing the Bottom Cover).
3. Remove the graphics-card heat sink (see Removing the Graphics-Card Heat Sink).
4. Remove the two screws that secure the graphics card to the system board.
5. Remove the graphics card from the graphics card connector.

Replacing the Graphics Card

1. Follow the procedures in Before You Begin.
2. Align the notch on the graphics card with the tab in the system-board connector.
3. Insert the graphics card at a 45-degree angle into the system board connector.
4. Press the other end of the graphics card down. Replace the two screws that secure the graphics card to the system-board connector.
5. Replace the graphics-card heat sink (see Replacing the Graphics-Card Heat Sink).
6. Replace the bottom cover (see Replacing the Bottom 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.
7. Connect your computer and all attached devices to electrical outlets, and turn them on.
Graphics-Card Fan (Inspiron 400 Only)

Dell™ Inspiron™ 300/400 Service Manual

Removing the Graphics-Card Fan

1. Follow the procedures in Before You Begin.
2. Remove the bottom cover (see Removing the Bottom Cover).
3. Remove the graphics-card heat sink (see Removing the Graphics-Card Heat Sink).
4. Remove the two screws that secure the graphics-card fan to the system board.
5. Lift the graphics-card fan out of the computer.

Replacing the Graphics-Card Fan

1. Follow the procedures in Before You Begin.
2. Align the screw holes on the graphics-card fan with the screw holes on the system board. Replace the two screws that secure the graphics-card fan to the system board.
3. Replace the graphics-card heat sink (see Replacing the Graphics-Card Heat Sink).
4. Replace the bottom cover (see Replacing the Bottom 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.

⚠️ **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).

1 screws (2) 2 graphics-card fan

⚠️ **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.
Removing the Graphics-Card Heat Sink

1. Follow the procedures in Before You Begin.
2. Remove the bottom cover (see Removing the Bottom Cover).

⚠️ **CAUTION:** To ensure maximum cooling for the graphics processor, do not touch the heat transfer areas on the graphics-card heat sink. The oils in your skin can reduce the heat transfer capability of the thermal grease.

3. In sequential order (indicated on the graphics-card heat sink), loosen the four captive screws in descending order that secure the graphics-card heat sink to the system board.
4. Lift the graphics-card heat sink away from the computer.

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Replacing the Graphics-Card Heat Sink

1. Follow the procedures in Before You Begin.
2. Align the four captive screws on the graphics-card heat sink with the screw holes on the system board and tighten the screws in ascending order.
3. Replace the bottom cover (see Replacing the Bottom 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.
4. Connect your computer and all attached devices to electrical outlets, and turn them on.
Removing the Hard Drive

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the drive bay (see Removing the Drive Bay).
6. Remove the four screws that secure the hard drive to the drive bay.
7. Lift the drive bay off the hard drive.

![Diagram showing the removal process]

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>hard drive</td>
<td>screws (4)</td>
<td>drive bay</td>
</tr>
</tbody>
</table>
Replacing the Hard Drive

1. Follow the procedures in Before You Begin.

2. Remove the new hard drive from its packaging. Save the original packaging for storing or shipping the hard drive.

3. Align the screw holes on the drive bay with the screw holes on the hard drive.

4. Replace the four screws that secure the hard drive to the drive bay.

5. Replace the drive bay (see Replacing the Drive Bay).

6. Replace the optical drive (see Replacing the Optical Drive).

7. Replace the top bracket (see Replacing the Top Bracket).

8. Replace the top cover (see Replacing the Top 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.

9. Connect your computer and all attached devices to electrical outlets, and turn them on.

10. Install the operating system for your computer, as needed. See "Restoring Your Operating System" in the Setup Guide.

11. Install the drivers and utilities for your computer, as needed. For more information, see the Dell Technology Guide.
Removing the Drive Bay

1. Follow the procedures in Before You Begin.

2. Remove the top cover (see Removing the Top Cover).

3. Remove the top bracket (see Removing the Top Bracket).

4. Remove the optical drive (see Removing the Optical Drive).

5. Remove the screw that secures the power-button bracket to the drive bay (see Removing the Power-Button Bracket).

6. Remove the two screws that secure the drive bay to the system board.

7. Slide the drive bay to the back and lift the drive bay to access the hard-drive cable.

8. Disconnect the hard-drive cable from the connector on the hard drive.

9. Carefully lift the drive bay away from the computer.

Replacing the Drive Bay

1. Follow the procedures in Before You Begin.

2. Connect the hard-drive cable to the connector on the hard drive.
3. Align the tabs on the drive bay with the slots on the chassis. Slide the drive bay to align the screw holes on the drive bay with the screws holes on the system board.

4. Replace the two screws that secure the drive bay to the system board.

5. Replace the screw that secures the power-button bracket to the drive bay (see Replacing the Power-Button Bracket).

6. Replace the optical drive (see Replacing the Optical Drive).

7. Replace the top bracket (see Replacing the Top Bracket).

8. Replace the top cover (see Replacing the Top 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.

9. Connect your computer and all attached devices to electrical outlets, and turn them on.

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Removing the Processor Heat Sink

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the drive bay (see Removing the Drive Bay).

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

6. In sequential order (indicated on the processor heat sink), loosen the four captive screws in descending order that secure the processor heat sink to the system board.
7. Carefully lift the processor heat sink away from the computer.
8. Lay the processor heat sink down on its top, with the thermal grease facing upward.

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.

⚠️ WARNING: The heat sink may be very hot during normal operation. Be sure that it has had sufficient time to cool before you touch it.

⚠️ 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: Do not perform the following steps unless you are familiar with hardware removal and replacement. Performing these steps incorrectly could damage your system board. For technical service information, see the Setup Guide.
1. Follow the procedures in Before You Begin.

2. Clean the thermal grease from the bottom of the processor heat sink.

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

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

3. Apply the new thermal grease to the top of the processor.

4. Align the four captive screws on the processor heat sink with the screw holes on the system board and tighten the screws in ascending order.

5. Replace the drive bay (see Replacing the Drive Bay).

6. Replace the optical drive (see Replacing the Optical Drive).

7. Replace the top bracket (see Replacing the Top Bracket).

8. Replace the top cover (see Replacing the Top 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.

9. Connect your computer and devices to electrical outlets, and then turn them on.

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Removing the I/O Bracket

1. Follow the procedures in Before You Begin.

2. Remove the top cover (see Removing the Top Cover).

3. Remove the top bracket (see Removing the Top Bracket).

4. Remove the I/O bezel (see Removing the I/O Bezel).

5. Remove the chassis fan (see Removing the Chassis Fan).

6. Using a hex nut driver, remove the two screws that secure the VGA connector to the I/O bracket.

7. Remove the screw that secures the I/O bracket to the chassis.

8. Carefully press and release the security lock latch on the I/O bracket out of the computer cover and lift the I/O bracket out of the computer.

Replacing the I/O Bracket

1. Follow the procedures in Before You Begin.

2. Slide the tabs on the bottom of the I/O bracket into the slots on the chassis.

3. Carefully press and slide the security lock latch into place. Replace the screw that secures the I/O bracket to the chassis.

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<table>
<thead>
<tr>
<th>1</th>
<th>screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>hex nut screws (2)</td>
</tr>
<tr>
<td>3</td>
<td>I/O bracket</td>
</tr>
<tr>
<td>4</td>
<td>security lock latch</td>
</tr>
</tbody>
</table>
4. Using a hex nut driver, replace the two screws that secure the VGA connector to the I/O bracket.

5. Replace the chassis fan (see "Replacing the Chassis Fan").

6. Replace the I/O bezel (see "Replacing the I/O Bezel").

7. Replace the top bracket (see "Replacing the Top Bracket").

8. Replace the top cover (see "Replacing the Top 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.

9. Connect your computer and all attached devices to electrical outlets, and turn them on.

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I/O Bezel
Dell™ Inspiron™ 300/400 Service Manual

Removing the I/O Bezel

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the bottom cover (see Removing the Bottom Cover).
4. Press and release the tabs on the bottom of the I/O bezel from the slots on the chassis and lift the I/O bezel out of the computer.

Replacing the I/O Bezel

1. Follow the procedures in Before You Begin.
2. Align the tabs on the I/O bezel with the slots on the computer and snap into place.
3. Replace the bottom cover (see Replacing the Bottom Cover).
4. Replace the top cover (see Replacing the Top 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. Connect your computer and all attached devices to electrical outlets, and turn them on.

⚠️ 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.

⚠️ 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).
Memory Module(s)

Dell™ Inspiron™ 300/400 Service Manual

### Removing the Memory Module

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the drive bay (see Removing the Drive Bay).

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

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

---

### Replacing the Memory Module

1. Follow the procedures in Before You Begin.
2. Align the notch on the memory module with the tab on the memory-module connector.
3. Insert the memory module into the connector until the memory module snaps into position. If you insert the memory module correctly, the securing clips snap into the cutouts at each end of the memory module. If the securing clips do not snap into position, remove the memory module and reinstall it.

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

4. Replace the drive bay (see "Replacing the Drive Bay").

5. Replace the optical drive (see "Replacing the Optical Drive").

6. Replace the top bracket (see "Replacing the Top Bracket").

7. Replace the top cover (see "Replacing the Top 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.

8. Connect your computer and all attached devices to electrical outlets, and then turn them on. If the message appears stating that memory size has changed, press <F1> to continue.

9. Log on to your computer.

10. To verify that the memory is installed correctly:

    **Windows** XP:

    Click **Start** → **Control Panel** → **System**.

    **Windows Vista**:

    Click the **Start** button → **Control Panel** → **System and Maintenance**.

    **Windows 7**:

    Click the **Start** button → **Control Panel** → **System and Security** → **System**.

11. Check the amount of memory (RAM) listed.

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**Inspiron 400**

**Removing the Memory Module(s)**

1. Follow the procedures in "Before You Begin".

2. Remove the bottom cover (see "Removing the Bottom Cover").

**CAUTION:** To prevent damage to the memory module connector, do not use tools to spread the memory module securing clips.
3. Use your fingertips to carefully spread apart the securing clips on each end of the memory-module connector until the module pops up.

4. Remove the memory module from the memory-module connector.

5. Replace the bottom cover (see Replacing the Bottom Cover).

6. Connect your computer and all attached devices to electrical outlets, and then turn them on. If the message appears stating that memory size has changed, press <F1> to continue.

7. Log on to your computer.

8. To verify that the memory is installed correctly:

   Windows® XP:

   Click **Start** → **Control Panel** → **System**.

   Windows Vista®:

   Click the **Start** button → **Control Panel** → **System and Maintenance**.

   Windows 7:

   Click the **Start** button → **Control Panel** → **System and Security** → **System**.

   8. Check the amount of memory (RAM) listed.
Removing the Optical Drive

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Disconnect the optical-drive cable from the connector on the optical drive.
5. Remove the screw that secures the optical drive to the drive bay.
6. Push the optical drive to slide it out from the front of the computer.

Replacing the Optical Drive

1. Follow the procedures in Before You Begin.
2. Slide the optical drive into the drive bay.
3. Replace the screw that secures the optical drive to the drive bay.
4. Connect the optical-drive cable to the connector on 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.

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).

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1. optical-drive cable connector  
2. screw  
3. drive bay  
4. optical drive
5. Replace the top bracket (see Replacing the Top Bracket).

6. Replace the top cover (see Replacing the Top 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.

7. Connect your computer and all attached devices to electrical outlets, and turn them on.

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Removing the Processor

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the drive bay (see Removing the Drive Bay).
6. Remove the processor heat sink (see Removing the Processor Heat Sink).

**CAUTION:** The processor heat sink assembly may be very hot during normal operation. Be sure that it has had sufficient time to cool before you touch it.

7. Press and push the release lever down and out to release it from the tab that secures it.

![Diagram of processor removal](image)

<p>| | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>processor</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>processor socket</td>
<td></td>
</tr>
</tbody>
</table>

**CAUTION:** When removing or replacing the processor, do not touch any of the pins inside the processor socket or allow any objects to fall on the pins in the processor socket.

8. Gently lift the processor to remove it from the socket.

   Leave the release lever extended in the release position so that the socket is ready for the new processor.
Replacing the Processor

⚠️ CAUTION: Ground yourself by touching an unpainted metal surface or the computer stand.

⚠️ CAUTION: When replacing the processor, do not touch any of the pins inside the socket or allow any objects to fall on the pins in the socket.

1. Follow the procedures in Before You Begin.

2. Unpack the new processor, being careful not to touch the underside of the processor.

⚠️ CAUTION: You must position the processor correctly in the socket to avoid permanent damage to the processor and the computer when you turn on the computer.

3. Lift the release lever to the release position so that the processor socket is ready for the new processor.

4. Ensure that the release lever on the processor socket is fully extended.

⚠️ CAUTION: Socket pins are delicate. To avoid damage, ensure that the processor is aligned properly with the processor socket, and do not use excessive force when you install the processor. Be careful not to touch or bend the pins on the system board.

⚠️ CAUTION: You must position the processor correctly in the processor socket to avoid permanent damage to the processor.

5. Orient the front and rear alignment notches on the processor with the front and rear alignment notches on the processor socket.

6. Align the pin-1 corners of the processor and processor socket.

7. Place the processor lightly in the processor socket and ensure that the processor is positioned correctly.

8. Pivot the processor socket release lever back towards the processor socket, and snap it into place to secure the processor.

9. Clean the thermal grease from the bottom of the heat sink.

⚠️ CAUTION: Ensure that you apply new thermal grease. New thermal grease is critical for ensuring adequate thermal bonding, which is a requirement for optimal processor operation.

10. Apply the new thermal grease to the top of the processor.

⚠️ CAUTION: Ensure that the processor heat sink is correctly seated and secure.

11. Replace the processor heat sink (see Replacing the Processor Heat Sink).

12. Replace the drive bay (see Replacing the Drive Bay).
13. Replace the optical drive (see Replacing the Optical Drive).

14. Replace the top bracket (see Replacing the Top Bracket).

15. Replace the top cover (see Replacing the Top 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.

16. Connect your computer and all attached devices to electrical outlets, and then turn them on.
Removing the Power-Button Bracket

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the optical drive (see Removing the Optical Drive).
5. Remove the screw that secures the power-button bracket to the drive bay.

![Diagram showing the power-button bracket with 1 screw and 2 power-button bracket marked]

6. Remove the drive bay (see Removing the Drive Bay).
7. Disconnect the power-button cable from the connector on the system board.
8. Lift the power-button bracket along with the power-button cable away from the computer.

Replacing the Power-Button Bracket

1. Follow the procedures in Before You Begin.
2. Connect the power-button cable to the connector on the system board.
3. Replace the drive bay (see Replacing the Drive Bay).
4. Replace the screw that secures the power-button bracket to the drive bay.

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).
5. Replace the optical drive (see Replacing the Optical Drive).

6. Replace the top bracket (see Replacing the Top Bracket).

7. Replace the top cover (see Replacing the Top 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.

8. Connect your computer and all attached devices to electrical outlets, and turn them on.

Back to Contents Page
Removing the Chassis Fan

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the I/O bezel (see Removing the I/O Bezel).
5. Disconnect the chassis fan cable from the connector on the system board.
6. Remove the four screws that secure the chassis fan to the I/O bracket.
7. Lift the chassis fan away from the computer.

| 1 | chassis fan cable connector |
| 2 | screws (4) |
| 3 | chassis fan |

Replacing the Chassis Fan

1. Follow the procedures in Before You Begin.
2. Align the screw holes on the chassis fan with the screw holes on the I/O bracket.
3. Replace the four screws that secure the chassis fan to the I/O bracket.

4. Connect the chassis fan cable to the connector on the system board.

5. Replace the I/O bezel (see Replacing the I/O Bezel).

6. Replace the top bracket (see Replacing the Top Bracket).

7. Replace the top cover (see Replacing the Top 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.

8. Connect your computer and all attached devices to electrical outlets, and turn them on.
Removing the System Board

1. Follow the procedures in Before You Begin.
2. Remove the top cover (see Removing the Top Cover).
3. Remove the top bracket (see Removing the Top Bracket).
4. Remove the bottom cover (see Removing the Bottom Cover).
5. Remove the optical drive (see Removing the Optical Drive).
6. Remove the drive bay (see Removing the Drive Bay).
7. Remove the coin-cell battery (see Removing the Coin-Cell Battery).
8. Remove the I/O bezel (see Removing the I/O Bezel).
9. Remove the chassis fan (see Removing the Chassis Fan).
10. Remove the I/O bracket (see Removing the I/O Bracket).
11. Remove the memory module(s) (see Memory Module(s)).
12. For Inspiron 400 Only:
   a. Remove the Mini-Card (see Removing the Mini-Card).
   b. Remove the processor heat sink (see Removing the Processor Heat Sink).
   c. Remove the processor (see Removing the Processor).

   ❇️ NOTE: Make note of the cable routing before disconnecting the cables from the system board.

   d. Remove the graphics-card heat sink (see Removing the Graphics-Card Heat Sink).
   e. Remove the graphics card (see Removing the Graphics Card).
   f. Remove the graphics-card fan (see Removing the Graphics-Card Fan).
13. Disconnect all the cables connected to the system board.
14. Remove the four screws that secure the system board to the chassis.
15. Push the system board from the bottom to release the system board from the chassis.
16. Slide the system board to the back of the chassis to release the connectors on the system board from the slots on the chassis.

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.

⚠️ 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 by their edges, and avoid touching pins and contacts.

The system board’s BIOS chip contains the Service Tag, which is also visible on a barcode label on the computer. The replacement kit for the system board includes a CD that provides a utility for transferring the Service Tag to the replacement system board.
17. Lift the system board away from the computer.

Replacing the System Board

1. Follow the procedures in Before You Begin.

2. Align the connectors on the system board with the slots on the chassis and slide the system board in place.

3. Replace the four screws that secure the system board to the chassis.

4. For Inspiron 400 Only:
   a. Replace the graphics-card fan (see Replacing the Graphics-Card Fan).
   b. Replace the graphics card (see Replacing the Graphics Card).
   c. Replace the graphics-card heat sink (see Replacing the Graphics-Card Heat Sink).
   d. Replace the processor (see Replacing the Processor).
   e. Replace the processor heat sink (see Replacing the Processor Heat Sink).
   f. Replace the Mini-Card (see Replacing the Mini-Card).

5. Connect all the cables to the system board.

6. Replace the memory module(s) (see Memory Module(s)).

7. Replace the I/O bracket (see Replacing the I/O Bracket).

8. Replace the chassis fan (see Replacing the Chassis Fan).

9. Replace the I/O bezel (see Replacing the I/O Bezel).

10. Replace the coin-cell battery (see Replacing the Coin-Cell Battery).

11. Replace the drive bay (see Replacing the Drive Bay).

12. Replace the optical drive (see Replacing the Optical Drive).

13. Replace the bottom cover (see Replacing the Bottom Cover).

14. Replace the top bracket (see Replacing the Top Bracket).

15. Replace the top cover (see Replacing the Top Cover).
16. 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.

17. Enter the Service Tag (see *Entering the Service Tag in the BIOS*).

---

## Entering the Service Tag in the BIOS

1. Turn on the computer.

2. Press <F2> during POST to enter the system setup program.

3. Navigate to the main tab and enter the service tag in the **Service Tag Setting** field.
System Setup Utility
Dell™ Inspiron™ 300/400 Service Manual

Overview

Use system setup utility to:

- Change the system configuration information after you add, change, or remove any hardware in your computer
- Set or change a user-selectable option such as the user password
- Read the current amount of memory or set the type of hard drive installed

⚠️ CAUTION: Unless you are an expert computer user, do not change the settings for this program. Certain changes can make your computer work incorrectly.

NOTE: Before you change system setup, it is recommended that you write down the system setup screen information for future reference.

Entering System Setup Utility

1. Turn on (or restart) your computer.

2. When the DELL™ logo is displayed, watch for the F2 prompt to appear and then press <F2> immediately.

   ✋ NOTE: The F2 prompt indicates that the keyboard has initialized. This prompt can appear very quickly, so you must watch for it, and then press <F2>. If you press <F2> before the F2 prompt, this keystroke will be lost. If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop. Then, shut down your computer (see Turning Off Your Computer) and try again.

System Setup Screens

The system setup screen displays current or changeable configuration information for your computer. Information on the screen is divided into three areas: the setup item, active help screen, and key functions.

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Help Screen</th>
<th>Key Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>This field appears on the left side of the system setup window. The field is a scrollable list containing features that define the configuration of your computer, including installed hardware, power conservation, and security features. Scroll up and down the list with the up- and down-arrow keys. As an option is highlighted, the Help Screen displays more information about that option and available settings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This field appears on the right side of the system setup window and contains information about each option listed in the Setup Item. In this field you can view information about your computer and make changes to your current settings. Press the up-arrow and down-arrow keys to highlight an option, Press &lt;Enter&gt; to make that selection active and return to the Setup Item.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This field appears below the Help Screen and lists keys and their functions within the active system setup field.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Not all settings listed in the Setup Item are changeable.

System Setup Options

⚠️ NOTE: Depending on your computer and installed devices, the items listed in this section may appear, or may not appear exactly as listed.

<table>
<thead>
<tr>
<th>System Info</th>
<th>Displays the system name</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Displays the BIOS version number</td>
</tr>
<tr>
<td>Service Tag</td>
<td>Displays the service tag of the computer when the service tag is present</td>
</tr>
<tr>
<td>Asset Tag</td>
<td>Displays the asset tag of the computer when the asset tag is present</td>
</tr>
<tr>
<td>Processor Type</td>
<td>Displays the processor information</td>
</tr>
<tr>
<td>Processor L2 Cache</td>
<td>Displays the L2 cache size</td>
</tr>
<tr>
<td>Memory Installed</td>
<td>Indicates the amount of memory installed in MB</td>
</tr>
<tr>
<td>Memory Speed</td>
<td>Indicates the memory speed in MHz</td>
</tr>
<tr>
<td>Memory Technology</td>
<td>Indicates the type of installed memory</td>
</tr>
</tbody>
</table>

**Main**

| Service Tag Setting | Displays the service tag of the computer if the service tag is present or provides a field to input the service tag manually when the service tag is absent |
| System Time | Displays current time in hh:mm:ss format |
| System Date | Displays the current date in mm/dd/yy format |
| SATA-0 | Displays the SATA drive connected to the SATA-0 connector |
| SATA-1 | Displays the SATA drive connected to the SATA-1 connector |
| eSATA-0 (applicable for Inspiron 400 computer only) | Displays the eSATA drive connected to the eSATA-0 connector |
| eSATA-1 (applicable for Inspiron 400 computer only) | Displays the eSATA drive connected to the eSATA-1 connector |
| Keyboard Errors | Displays keyboard errors when set to Report. Default is Report |

**Advanced Settings**

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| CPU Feature | Limit CPUID Value—Enabled or Disabled (Disabled by default) |
| | CPU XD Support—Enabled or Disabled (Enabled by default) |
| | Hyper-Threading Technology—Enabled or Disabled (Enabled by default) |
| | Virtualization (Hidden if CPU is not supported)–Enabled or Disabled (Enabled by default) |

| Integrated Graphics Configuration | UMA Frame Buffer Size—Auto, 32 MB, 64 MB, 128 MB, 256 MB, or 512 MB (Auto by default) |

| Integrated Peripherals Configuration | Onboard Audio Controller—Enabled or Disabled (Enabled by default) |
| | Onboard LAN Controller—Enabled or Disabled (Enabled by default) |
| | Onboard LAN Boot ROM—Enabled or Disabled (Disabled by default) |

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| CPU Feature | Secure Virtual Machine Mode—Enabled or Disabled (Enabled by default) |
| | AMD Cool 'N Quiet—Enabled or Disabled (Enabled by default) |

| Integrated Graphics Configuration | UMA Frame Buffer Size—Auto, 32 MB, 64 MB, 128 MB, 256 MB, or 512 MB (Auto by default) |

| Integrated Peripherals Configuration | Onboard SATA Controller—Enabled or Disabled (Enabled by default) |
| | SATA Mode—ATA or AHCI (AHCI by default) |
| | Onboard Audio Controller—Enabled or Disabled (Enabled by default) |
| | Onboard LAN Controller—Enabled or Disabled (Enabled by default) |
| | Onboard LAN Boot ROM—Enabled or Disabled (Disabled by default) |

| USB Device Setting | USB Controller—Enabled or Disabled (Enabled by default) |
| | USB Operation Mode (Appears when "USB Controller" is enabled)–FullSpeed or HiSpeed (HiSpeed by default) |

| Numlock Key | On or Off (On by default) |
| Fast Boot | Enabled or Disabled (Enabled by default) |

**Power Management**

| ACPI Suspend Type | Specifies the suspend type |
| | Default is S3 |
| AC Recovery | Power Off, Power On, or Last Power State (Off by default) |
| Low Power Mode (applicable for Inspiron 400 computer only) | Enabled or Disabled (Enabled by default) |
| Remote Wake Up | Enabled or Disabled (Enabled by default) |
| Auto Power On | Enabled or Disabled (Disabled by default) |
| Auto Power On Date (Displays only when "Auto Power On" is set to Enabled) | Specifies the power on date |
| | Default is 15 |
| Auto Power On Time (Displays only when "Auto Power On" is set to Enabled) | Specifies the power on time |
| | Default is 12:30:30 |

**Security Settings**

| Unlock Setup Status | Unlocked |
| Supervisor Password | Status of supervisor password installed |
**Boot Sequence**

This feature allows you to change the boot sequence for devices.

### Boot Options

- **Hard Drive** — The computer attempts to boot from the primary hard drive. If no operating system is on the drive, the computer generates an error message.
- **USB Flash Device** — Insert the memory device into a USB port and restart the computer. When F12 Boot Options appears in the lower-right corner of the screen, press <F12>. The BIOS detects the device and adds the USB flash option to the boot menu.

**NOTE:** To boot to a USB device, the device must be bootable. To ensure that your device is bootable, check the device documentation.

- **CD/DVD Drive** — The computer attempts to boot from the CD/DVD drive. If no CD/DVD is in the drive, or if the CD/DVD has no operating system, the computer generates an error message.

### Changing Boot Sequence for the Current Boot

You can use this feature to change the current boot sequence, for example, to boot from the CD/DVD drive to run the Dell Diagnostics on the Drivers and Utilities media. On completion of diagnostic tests, the previous boot sequence is restored.

1. If you are booting to a USB device, connect the USB device to a USB connector.

2. Turn on (or restart) your computer.

3. When F2 = Setup, F12 Boot Options appears in the lower-right corner of the screen, press <F12>.

   If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft Windows desktop. Then shut down your computer and try again.

   The Boot Device Menu appears, listing all available boot devices.

4. On the Boot Device Menu choose the device you want to boot from.

   For example, if you are booting to a USB memory key, highlight **USB Flash Device** and press <Enter>.

**NOTE:** To boot to a USB device, the device must be bootable. To ensure your device is bootable, check the device documentation.
Changing Boot Sequence for Future Boots

1. Enter system setup utility (see Entering System Setup Utility).

2. Use the arrow keys to highlight the Boot menu option and press <Enter> to access the menu.

   NOTE: Write down your current boot sequence in case you want to restore it.

3. Press the up- and down-arrow keys to move through the list of devices.

4. Press plus (+) or minus (–) to change the boot priority of the device.

Clearing Forgotten Passwords and CMOS Settings

WARNING: Before you begin any of the procedures in this section, follow the safety instructions that shipped with your computer.

WARNING: The computer must be disconnected from the electrical outlet to clear the CMOS setting.

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: Clearing the CMOS settings will also clear the password.

1. Follow the procedures in Before You Begin.

2. Remove the top cover (see Removing the Top Cover).

3. Remove the top bracket (see Removing the Top Bracket).

4. Remove the optical drive (see Removing the Optical Drive).

5. Remove the drive bay (see Removing the Drive Bay).

6. Locate the 3-pin CMOS connector on the system board (see System Board Components).

7. Remove the 2-pin jumper plug from pins 2 and 3 and fix it on pins 1 and 2.

8. Wait for approximately five seconds to clear the CMOS setting.

9. Remove the 2-pin jumper plug from pins 1 and 2 and replace it on pins 2 and 3.

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10. Replace the drive bay (see Replacing the Drive Bay).

11. Replace the optical drive (see Replacing the Optical Drive).

12. Replace the top bracket (see Replacing the Top Bracket).

13. Replace the top cover (see Replacing the Top 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.

14. Connect your computer and devices to electrical outlets, and turn them on.

---

Flashing the BIOS

1. Turn on the computer.

2. Go to the Dell Support website at support.dell.com.

3. Click Drivers & Downloads → Select Model.

4. Locate the BIOS update file for your computer:
   - NOTE: The Service Tag for your computer is located at the bottom of the computer.
   - If you have your computer’s Service Tag:
     a. Click Enter a Service Tag.
     b. Enter your computer's Service Tag in the Enter a service tag: field, click Go, and proceed to step 5.
   - If you do not have your computer's Service Tag:
     a. Select the type of product in the Select Your Product Family list.
     b. Select the product brand in the Select Your Product Line list.
     c. 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.
     d. Click Confirm.

5. A list of results appear on the screen. Click BIOS.

6. Click Download Now to download the latest BIOS file.
   - The File Download window appears.

7. Click Save to save the file on your desktop. The file downloads to your desktop.
8. 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.

9. Double-click the file icon on the desktop and follow the instructions on the screen.
Technical Overview

Inspiron™ 300/400 Service Manual

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⚠️ **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.

⚠️ **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).

---

**Inspiron™ 300**

**Inside View**

![Diagram of Inspiron™ 300](image.png)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>chassis fan</td>
</tr>
<tr>
<td>2</td>
<td>coin-cell battery</td>
</tr>
<tr>
<td>3</td>
<td>drive bay</td>
</tr>
<tr>
<td>4</td>
<td>optical drive</td>
</tr>
</tbody>
</table>

**System Board Components**
Inspiron 400

Inside View

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SATA power connector (SATAPWR1)</td>
</tr>
<tr>
<td>2</td>
<td>coin-cell battery socket (BAT1)</td>
</tr>
<tr>
<td>3</td>
<td>SATA drive connector (SATA2)</td>
</tr>
<tr>
<td>4</td>
<td>SATA drive connector (SATA1)</td>
</tr>
<tr>
<td>5</td>
<td>optical drive power connector (ODD_PWR1)</td>
</tr>
<tr>
<td>6</td>
<td>CMOS jumper (CMOS1)</td>
</tr>
<tr>
<td>7</td>
<td>memory-module connector (DIMM1)</td>
</tr>
<tr>
<td>8</td>
<td>processor</td>
</tr>
<tr>
<td>9</td>
<td>chassis fan connector (SYSFAN1)</td>
</tr>
</tbody>
</table>

System Board Components

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<td>chassis fan</td>
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<td>2</td>
<td>coin-cell battery</td>
</tr>
<tr>
<td>3</td>
<td>drive bay</td>
</tr>
<tr>
<td>4</td>
<td>optical drive</td>
</tr>
<tr>
<td>5</td>
<td>processor heat sink</td>
</tr>
</tbody>
</table>
Removing the Top Bracket

1. Follow the procedures in Before You Begin.

2. Remove the top cover (see Removing the Top Cover).

3. **Inspiron 400** — Remove the two screws that secure the wireless antennas to the top bracket.

4. Remove the screw that secures the top bracket to the chassis.

5. Lift the top bracket away from the computer.
Replacing the Top Bracket

1. Follow the procedures in Before You Begin.

2. Align the tabs on the top bracket with the slots on the chassis and place the top bracket.

3. Replace the screw that secures the top bracket to the computer.

4. **Inspiron 400** — Align the screw holes on the wireless antennas with the screw holes on the top bracket. Replace the two screws that secure the wireless antennas to the top bracket.

5. Replace the top cover (see Replacing the Top 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.

6. Connect your computer and all attached devices to electrical outlets, and turn them on.
Top Cover

Dell™ Inspiron™ 300/400 Service Manual

- Removing the Top Cover
- Replacing the Top 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.

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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).

---

**Removing the Top Cover**

1. Follow the procedures in Before You Begin.

2. Press the top cover release button at the back of the computer. The top cover will pop up.

3. Lift the top cover away from the computer.

---

![Image of top cover with labeled parts: top cover release button, top cover, tabs (2)]

---

**Replacing the Top Cover**

1. Follow the procedures in Before You Begin.

2. Align the tabs on the top cover with the slots on the computer and snap the top cover into place.

---