Memory Modules

User Guide

© Copyright 2006 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

First Edition: May 2006

Document Part Number: 412262-001

Table of contents

1 Replacing a memory module

2 Effects of increasing memory

Index 9

1 Replacing a memory module

The computer has one memory module compartment, which is located on the bottom of the computer. The memory capacity of the computer can be upgraded by adding a memory module to the vacant expansion memory module slot or by upgrading the existing memory module in the primary memory module slot.

WARNING! To reduce the risk of electric shock and damage to the equipment, unplug the power cord and remove all batteries before installing a memory module.

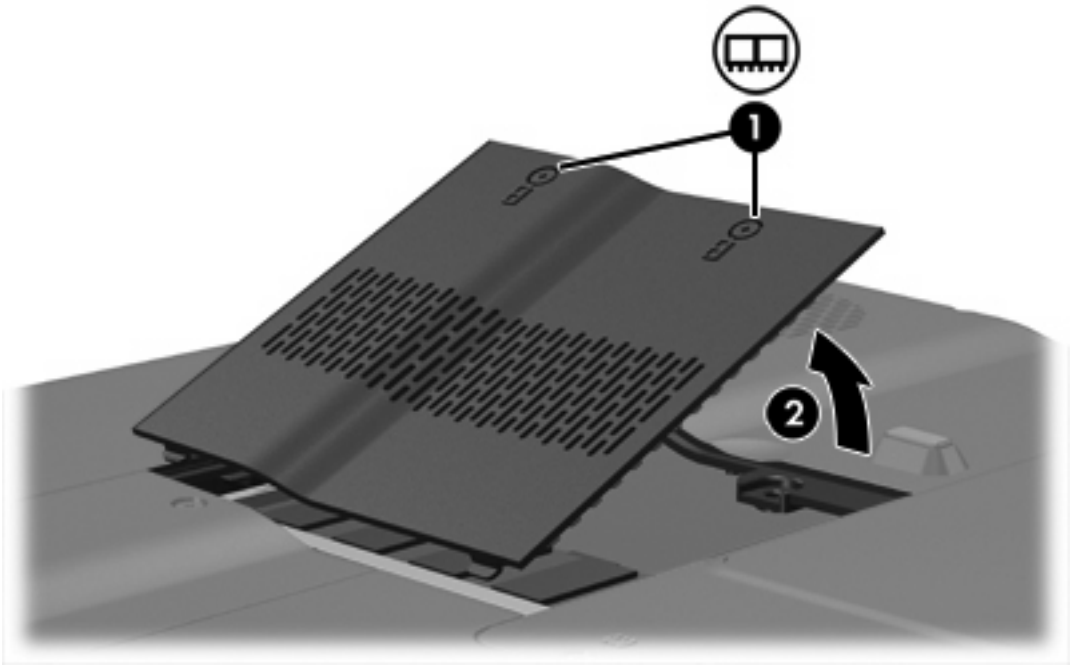
CAUTION Electrostatic discharge (ESD) can damage electronic components. Before beginning any procedure, ensure that you are discharged of static electricity by touching a grounded metal object.

To replace a memory module:

1. Save your work.
2. Shut down the computer and close the display.

   If you are not sure whether the computer is off or in hibernation, turn the computer on by pressing the power button. Then shut down the computer through the operating system.
3. Disconnect all external devices connected to the computer.
4. Unplug the power cord from the AC outlet.
5. Turn the computer upside down on a flat surface.
6. Remove the battery from the computer.
7. Loosen the 2 memory module compartment cover screws **(1)**.

8. Lift the memory module compartment cover **(2)** away from the computer.



9. Remove the memory module:

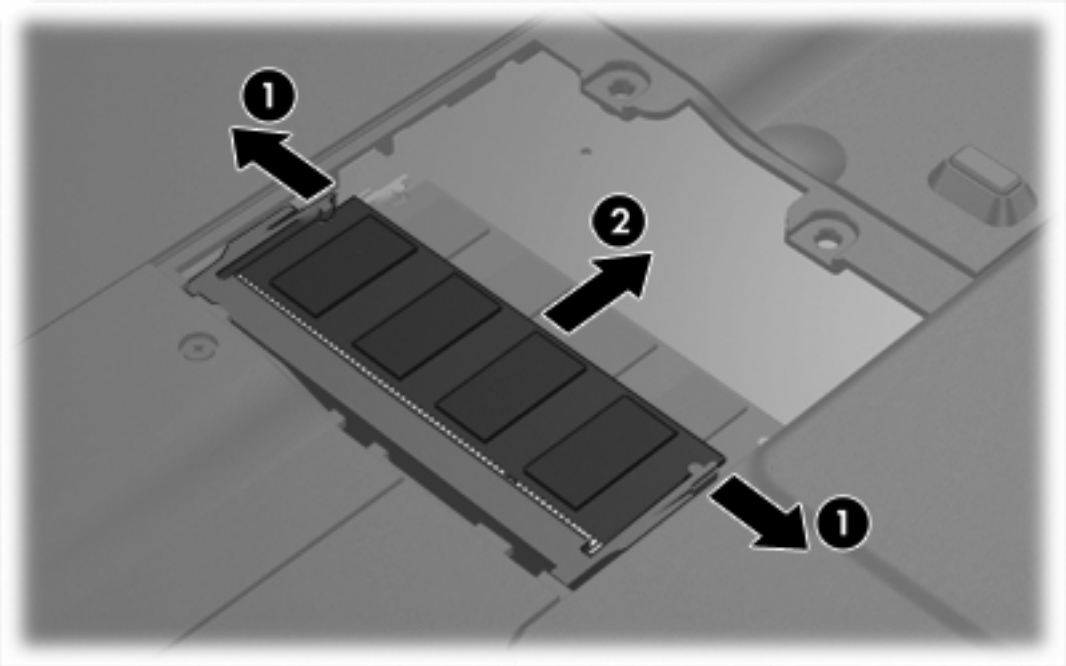
   a. Pull away the retention clips **(1)** on each side of the memory module.

   The memory module tilts up.

   CAUTION To prevent damage to the memory module, hold the memory module by the edges only. Do not touch the components on the memory module.

b. Grasp the edge of the memory module **(2)**, and gently pull the module out of the memory module slot.

To protect a memory module after removal, place it in an electrostatic-safe container.



10. Insert a new memory module:

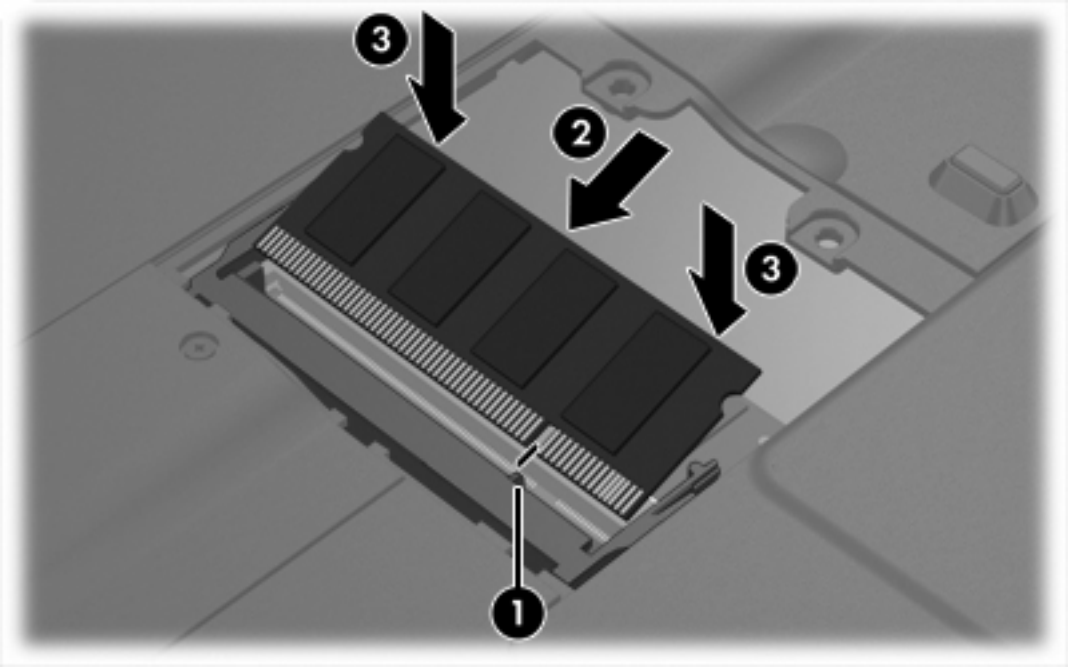
a. Align the notched edge **(1)** of the memory module with the tab in the memory module slot.

CAUTION To prevent damage to the memory module, hold the memory module by the edges only. Do not touch the components on the memory module.

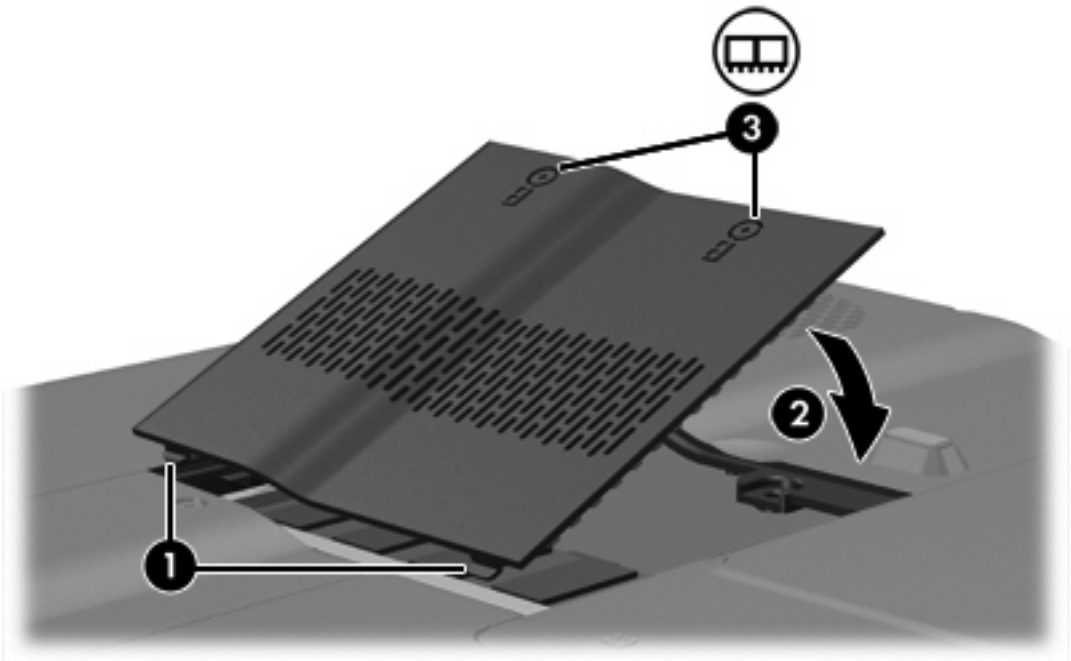
b. With the memory module at a 45-degree angle from the surface of the memory module compartment, press the memory module **(2)** into the memory module slot until it is seated.

c. Gently press the memory module **(3)** down, applying pressure to both the left and right edges of the memory module, until the retention clips snap into place.

CAUTION To prevent damage to the memory module, be sure that you do not bend the memory module.



11. Align the tabs **(1)** on the memory module compartment cover with the notches on the computer.
12. Close the cover **(2)**.
13. Tighten the 2 memory module compartment cover screws **(3)**.



14. Replace the battery.
15. Reconnect external power and external devices.
16. Turn on the computer.

2 Effects of increasing memory

When random access memory (RAM) increases, the operating system increases the hard drive space reserved for the hibernation file.

If you experience problems with hibernation after increasing memory, verify that the hard drive has enough free space to accommodate a larger hibernation file.

To display the amount of space required by the hibernation file:

- Select **Start > Control Panel > Performance and Maintenance > Power Options > Hibernate** tab.

To display the amount of memory in the system:

- Select **Start > Control Panel > Performance and Maintenance > System > General** tab.

  – or –

  Press fn+esc.

To display the amount of free space on the hard drive:

1. Select **Start > My Computer**.
2. Right-click the hard drive listing, and then click **Properties**.

Index

H

hard disk drive space 7
hard drive space 7
hibernation file 7

M

memory
  displaying free space 7
  increasing 7
  replacing memory modules 1
memory module
  inserting 3
  removing 2
  replacing 1
memory module compartment
  cover
    removing 2
    replacing 4