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This guide provides instructions for replacing or upgrading the memory and the hard disk drive in your HP TouchSmart PC.

Start Here

Before you decide to upgrade or service the computer, refer to the product specifications for system upgradability information. Go to http://www.hp.com/support for product information.

Read the following items before attempting to upgrade or service the HP TouchSmart PC.

- These procedures assume familiarity with the general terminology associated with personal computers, and with the safety practices and regulatory compliance required for using and modifying electronic equipment.

- Write down and save the computer model and serial numbers, all installed options, and other information about the computer. It is easier to consult this information than to open and examine the computer.

- It is recommended that you use an antistatic wrist strap and stand on a conductive foam pad when working on the computer.

- Hewlett-Packard recommends that you use a magnetic-tipped screwdriver when opening and closing the HP TouchSmart PC, to make it easier to remove and install the screws.

WARNING: Always disconnect the HP TouchSmart PC from the power source before removing the memory cover or the back cover. Failure to do so before you open the HP TouchSmart PC or perform any procedures can result in personal injury or equipment damage.
Safety Information

This product has not been evaluated for connection to an “IT” power system (an AC distribution system with no direct connection to the earth, according to IEC 60950).

**WARNING:** Please read “Additional Safety Information” in the Limited Warranty, Support, and System Recovery Guide before installing and connecting your system to the electrical power system.

**WARNING:** Avoid touching sharp edges inside the computer.

**WARNING:** Take care when lifting or moving your computer. The computer is heavy.

Locating Components

Refer to the following illustration to locate components of the HP TouchSmart PC.

A: Pocket media drive bay  
B: Optical disc drive slot  
C: Back cover  
D: Computer stand  
E: Power adapter connector  
F: Wireless keyboard and mouse receiver  
G: Hard drive/memory cover  
H: Connector cover
Opening the Computer

To avoid injury and equipment damage, always complete the following steps in order, when opening the HP TouchSmart PC.

1. Remove all media and external devices (CDs, DVDs, memory cards, USB devices, pocket media drive, and external hard disk drives) from the HP TouchSmart PC.

   CAUTION: Static electricity can damage the electronic components of the HP TouchSmart PC or optional equipment. Ensure that you are discharged of static electricity by briefly touching a grounded metal object.

2. Tap the Windows Vista start button™, and then tap Shut Down.

   WARNING: To reduce the risk of personal injury from electrical shock or hot surfaces, disconnect the power cord from the wall outlet, and allow the internal system components to cool before touching them.

3. After the system has completely shut down, disconnect the power adapter [A] from the back of the HP TouchSmart PC.
4 Remove the connector cover by inserting your finger under the gap on the bottom-left side of the cover (A), and then pulling gently.

5 Disconnect all other attached cables from the back of the HP TouchSmart PC.

6 Place the computer face-down on a soft flat surface. HP recommends that you set down a blanket, towel, or other soft cloth to protect the touch screen surface from scratches or other damage.
7 Apply additional pressure to lift the computer stand as far as it will go to an upright position, about 90 degrees (A) from the computer, and then move the latch to the right until it is in the locked position (B).

8 Remove the screw that secures the hard disk drive/memory cover to the back of the computer.
9 Insert your fingertips just under the cover, and then pull up firmly to release the tabs.

10 Slide the cover out toward you to remove it, and then set it aside.

To replace a memory module, see “Removing and Replacing a Memory Module” on page 7.

To replace a hard disk drive, see “Removing and Replacing the Hard Disk Drive” on page 14.
Removing and Replacing a Memory Module

Your HP TouchSmart PC comes with random access memory (RAM), which temporarily stores data and instructions on your computer. The HP TouchSmart PC ships with one or two memory modules that you can replace.

Before you begin

Observe the following requirements before removing and replacing the memory module.

The motherboard contains sockets for SO-DIMMs (small outline dual in-line memory modules). A memory module with the key slot circled is shown in the following illustration.

To determine which type and speed of memory module your HP TouchSmart PC uses, and for specific memory module information and specifications, go to www.hp.com/support

CAUTION: Using the wrong type of memory module could damage the computer.
Removing a Memory Module

1. Before you begin this procedure, follow the procedures in “Start Here” on page 1.
2. Locate the memory module EMI shield (A), hook a finger through the shield loop, and then lift it up and out of the way (B).

⚠️ CAUTION: When handling a memory module, be careful not to touch any of the contacts. Doing so may damage the module.

⚠️ CAUTION: Do not pull the memory module out of the socket. Use the latches of the retaining clips to remove the module.
3 Push the two latches of the retaining clips away from the memory module. It may be easier to push one latch at a time. The memory module pops up at an angle. Both memory modules can be removed by using the same procedure.

4 Lift the memory module from the memory socket. Note the key slot on the connector edge.

5 Store the memory module in antistatic packaging.
Replacing a Memory Module

Upgrade the memory in your HP TouchSmart PC with memory of the same type and speed as the memory originally installed. The capacity for both memory modules must match for optimal performance. Both memory modules can be installed by using the same procedure listed below.

⚠️ **CAUTION:** When handling a memory module, be careful not to touch any of the contacts. Doing so may damage the module.

1. Remove the memory module. See “Removing a Memory Module” on page 8.
2. Align the new memory module with the socket, so that the key slot on the connector edge is the same as the module that you removed.

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**NOTE:** The sockets are keyed. If the module slot does not match the socket, turn the memory module over.
3 Slide the memory module all the way into the memory slot, until the gold edge is almost completely hidden in the slot, and then push down the outer edge of the memory module until the retaining clips snap into place.

⚠️ CAUTION: The memory module must be inserted all the way into the slot before it is snapped down into place; otherwise it will not work properly. In the following illustration, a memory module is installed incorrectly (A), with the gold edge showing.
4 Replace the memory module EMI shield.

5 Replace the hard disk drive/memory cover by lowering it into place, and sliding it so the slots on the cover fit into the grooves under the computer stand.

The cover snaps into place with a click as the side tabs engage with the grooves in the computer. When the cover is replaced properly, it will be flush with the larger back cover.
6 Replace the screw that secures the hard disk drive cage to the chassis.

**NOTE:** If a blank screen is displayed after you replace or add a memory module, the memory is installed incorrectly, or it is the wrong type of memory. Remove and reinstall the memory module.

_You have completed this procedure successfully!_

Now, place the computer upright on a flat surface with the stand in a safe and open position.

Reconnect power cables and peripherals.
Removing and Replacing the Hard Disk Drive

You can replace or upgrade the hard disk drive.

The hard disk drive is a Serial ATA (advanced technology attachment) drive, which uses a narrow data cable.

**CAUTION:** Before removing the hard disk drive, back up any personal files on the hard disk drive to an external storage device, such as a DVD. Failure to do so may result in data loss. After replacing the hard disk drive, you need to run System Recovery using recovery discs to load the factory-installed files. For details about the recovery procedure, refer to the Limited Warranty, Support, and System Recovery Guide included with your HP TouchSmart PC.

**Removing the Hard Disk Drive**

1. Complete the procedures to prepare the HP TouchSmart PC. See “Start Here” on page 1.

**WARNING:** To reduce the risk of personal injury from electrical shock or hot surfaces, disconnect the power cord from the wall outlet, and allow the internal system components to cool before touching them.

2. Locate the hard disk drive EMI shield (A), and then lift the shield up and out of the way (B), using the shield loop.
3 While the hard disk drive is still in the computer, disconnect the power and data cables on the hard disk drive, by pressing down the latches and then removing them from the drive.

4 Remove the shipping screw just to the left of the cables.

5 Pull up on the hard disk drive tab (A), and then pull the drive from its bay (B).
6 With a Phillips screwdriver (magnetic-tipped recommended), remove the four screws that secure the hard disk drive to the cage, and then slide the hard disk drive out of the cage.

Your hard disk drive cage may look slightly different from the illustration.

7 Place the hard disk drive in an anti-static bag.
Replacing a Hard Disk Drive

1. If necessary, remove the hard disk drive. See “Removing the Hard Disk Drive” on page 14.

   \[\text{CAUTION: Take care when handling a hard disk drive. Do not bang or shake it. It can be easily damaged.}\]

2. Slide the hard disk drive into the cage and then replace the four screws.

   Your hard disk drive cage might look different from the illustration.
3 Slide the hard disk drive cage into the bay until you hear the click indicating it is engaged.

4 Connect the power and data cables to the hard disk drive.
5 Replace the shipping screw that holds the hard disk drive cage to the computer.
6 Replace the hard drive EMI shield, pressing it firmly into place so the tabs engage.
7 Replace the hard disk drive/memory cover by lowering it into place, and sliding it so the slots on the cover fit into the grooves under the computer stand. The cover snaps into place with a click as the side tabs engage in the computer. When the cover is replaced properly, it will be flush with the larger back cover.

8 Replace the screw that secures the hard disk drive cage to the chassis.
You have completed this procedure successfully!

Now, place the computer upright on a flat surface with the stand in a safe and open position.

Reconnect power cables and peripherals.