

Memory Module Replacement Instructions



900896-001



Before you begin

Observe the following requirements before removing and replacing memory.

WARNING: Never open the cover while the power cord is attached. You might damage your computer or be injured by the spinning fan blades.

WARNING: Avoid touching sharp edges inside the computer.

CAUTION: Static electricity can damage the electronic components inside the computer. Discharge static electricity by touching the metal cage of the computer before touching any internal parts or electronic components.

Tools needed

Phillips #2 screwdriver

Small screws are easily lost. Remove screws over a surface that enables you to retrieve them if they fall.

Troubleshooting

If the computer displays a memory error after you have turned it back on, turn the computer off and unplug the power cord. Open up the memory compartment and make sure the memory module is inserted all the way into the slot, and then press down on it to be sure it is firmly seated.

Memory compatibility

The computer uses UDIMMs (unbuffered dual in-line memory modules) that must meet the following requirements:

- 288-pin
- DDR4-2133
- Unbuffered, non-ECC (64-bit)
- 1.2 V
- 16 GB maximum installable memory

Because the memory uses dual channels, you must use the same memory module type for both sockets.

NOTE: The actual memory transfer speed might vary, based on the processor used in your computer.

NOTE: Memory performance might vary due to different system configurations.

Removing the memory module

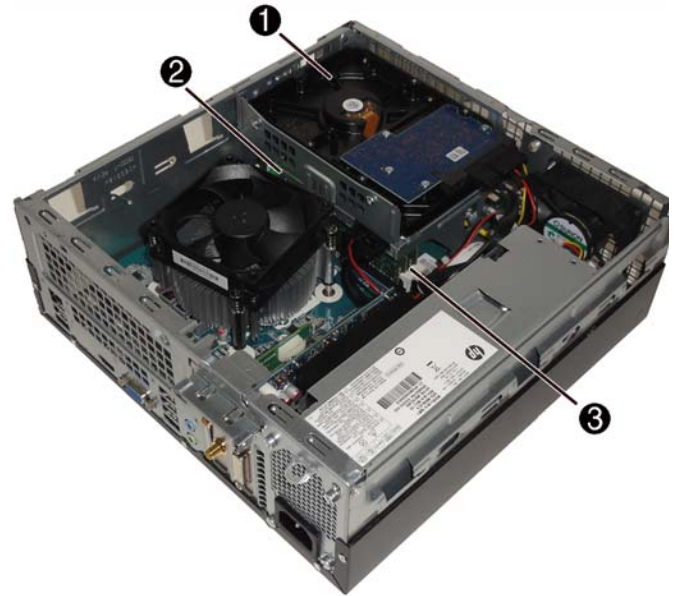
1. Disconnect the power cord and all attached cables from the back of the computer.



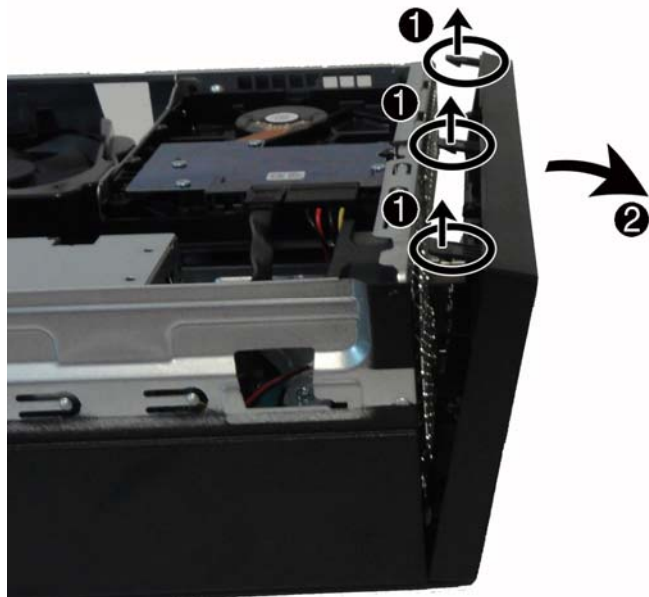
2. To remove the access panel, loosen the captive Phillips screw (1), lift the rear of the access panel upward (2), and then slide the access panel off the computer (3).



3. Locate the memory modules under the drive cage:
1. Hard drive
2. Optical drive
3. Memory modules



4. To remove the front bezel, pull the three tabs upward (1), and then rotate the bezel off the computer (2).



5. Remove the fan duct to access the cables connected to the rear of the optical drive. Pull the tabs away from each other (1), and then lift the duct off the fan sink (2).



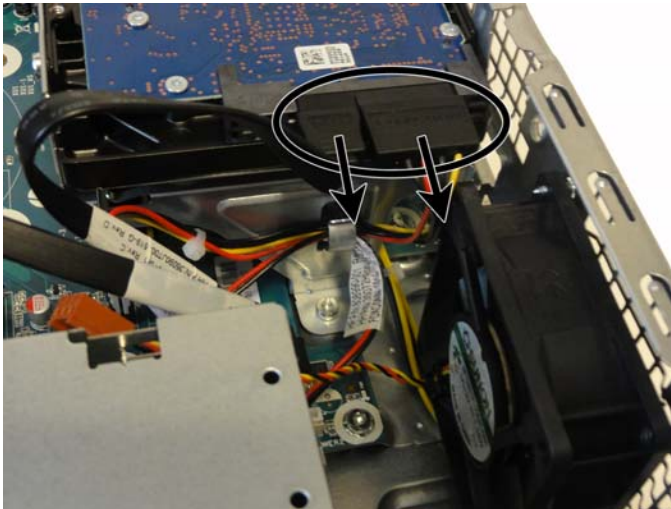
6. To remove the optical drive, disconnect the power and data cables from the rear of the drive (1), and then press the green lever to disengage the drive from the drive bay (2).



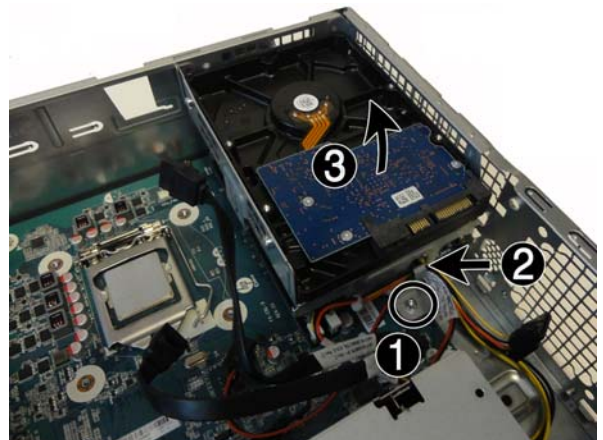
7. Slide the optical drive out of the front of the computer.



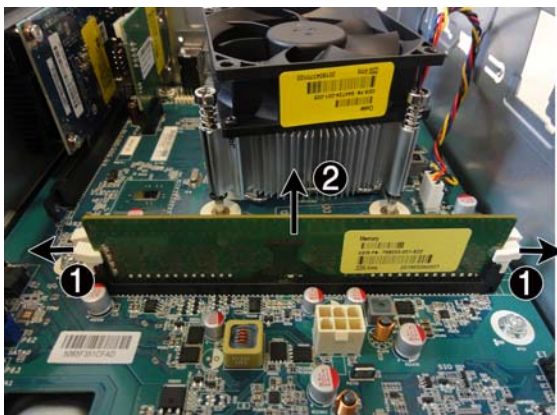
8. To remove the hard drive cage, disconnect the power and data cables from the rear of the hard drive.



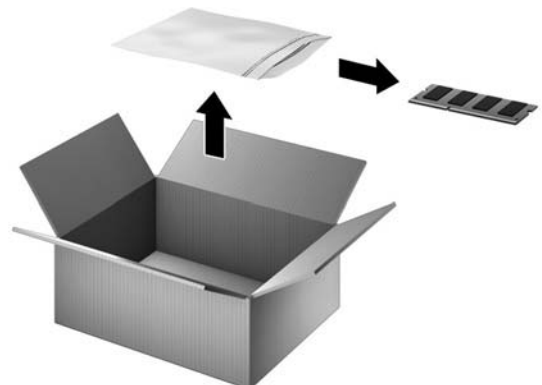
9. Remove the screw that secures the hard drive cage to the computer (1), remove the cable from the clip in the cage (2), and then rotate the cage up and remove it from the computer (3).



10. Open both latches of the memory module socket (1), and then lift the module from the socket (2). Use the same procedure to remove all memory modules.

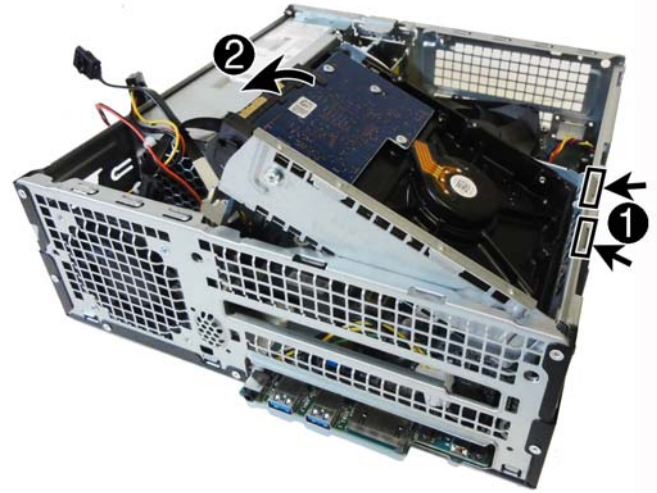
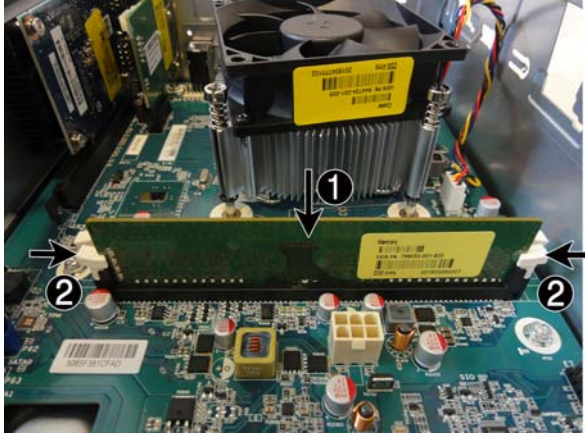


11. Touch the replacement memory module bag to the metal of the computer, and then remove replacement memory module from the bag.

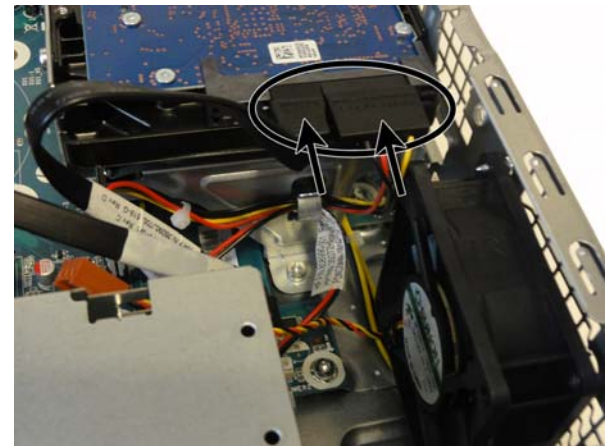
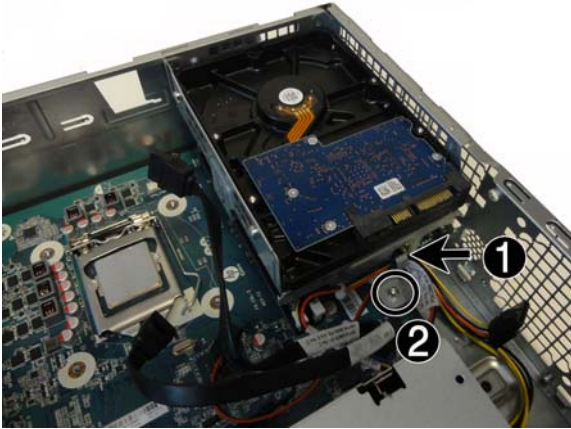


Replacing the memory module

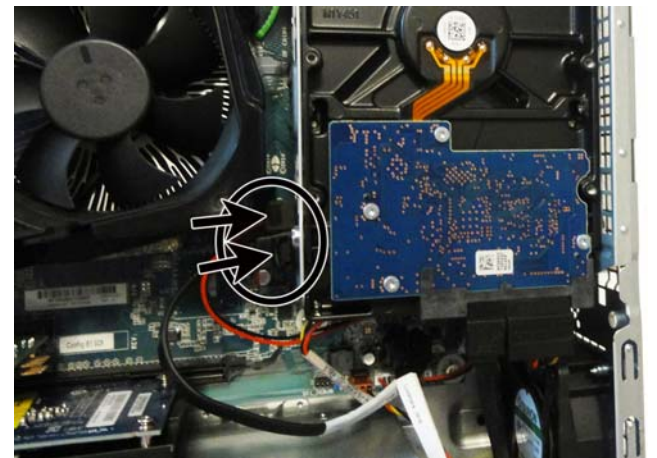
1. Align the notched edge of the module with the tab in the socket, and then press the module into the socket until it is seated (1), and the side retention clips snap into place (2). **NOTE:** Memory modules are notched to prevent incorrect insertion.
2. To replace the hard drive cage, insert the tabs at the top of the cage into the slots in the side of the computer (1), and then rotate the drive cage downward (2).



3. Insert the cable into the clip on the drive cage (1), and then replace the screw (2).
4. Connect the data and power cables to the back of the hard drive.



5. To replace the optical drive, insert the drive into drive bay in the front of the computer until it locks into place.
6. Connect the data and power cables to the back of the optical drive.

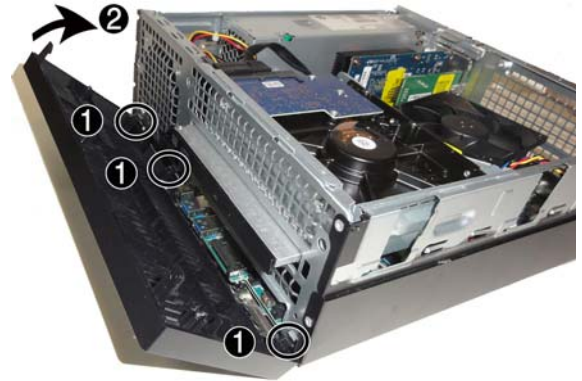


7. To replace the fan duct, align the duct with the fan sink, and then push the duct down onto the fan sink until it locks into place.

CAUTION: Be careful not to damage the optical drive connectors.



8. To replace the front bezel, insert the tabs at the bottom of the bezel into the slots in the front of the computer (1), and then rotate the bezel onto the computer until it snaps into place (2).



9. To replace the access panel, position the access panel on the computer and slide the panel downward onto the computer (1). Slide the access panel toward the front of the computer until seated (2), and then tighten the captive screw (3).



10. Plug the power cord and any additional cables into the back of the computer.



11. Press the power button to turn on the computer.



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