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Computer part locations
1. Hard drive
2. Optical drive
3. Memory modules
4. Wireless local area network (WLAN) module

Before you begin

⚠️ **Warning:** To reduce the risk of electric shock and damage to the equipment, unplug the power cord and remove the battery before installing a replaceable part.

⚠️ **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.

1. Shut down the computer. Disconnect the power from the computer by unplugging the power cord from the AC outlet 1, and then unplugging the AC adapter from the computer 2. Also disconnect all external devices connected to the computer.

2. Turn the computer upside down on a flat surface. Slide the battery release latch 1 to release the battery. Pivot the battery 2 upward and remove it from the computer 3.
1. **Hard drive**

1. Loosen the 2 captive cover screws.
2. Remove the cover.

3. Using the pull tab, slide the hard drive to the left until it disconnects from the computer.
4. Then remove the drive by lifting it straight up.

5. Install the replacement hard drive and use the pull tab to slide the drive into the connector until it is securely seated.
6. Replace the cover.
1. Hard drive (continued)  

7. Tighten the 2 cover screws.

2. Optical drive

1. Remove the screw that secures the optical drive to the computer.

2. Insert the end of a paper clip ① into the release access in the front bezel. Press in gently on the paper clip until the tray is released, and then remove the drive ②.

3. Install the replacement optical drive.

4. Reinstall the screw.
3. Memory modules

1. Loosen the 2 captive cover screws.

2. Remove the cover.

3. Spread the 2 retention clips until the memory module tilts up at a 45-degree angle.

4. Remove the memory module from the computer.

5. Align the notched edge of the replacement module with the tab in the memory module slot, and then press the module into the slot at a 45-degree angle until it is seated.

6. Press down on both sides of the memory module until the side retention clips snap back into place.
3. Memory modules (continued)

7. Replace the cover.

8. Tighten the 2 cover screws.

4. WLAN module

1. Loosen the 2 captive cover screws.

2. Remove the cover.

3. Disconnect the antenna cables (the number of cables varies, depending on model). Note the labeling and position of the cables.

4. Remove the 2 module screws. This releases the module to tilt up at a slight angle.
4. WLAN module
   (continued)

   5. Remove the module.

   6. Align the notched edge of the replacement module with the tab in the slot, and then press the module into the slot at a slight angle until it is seated.

   7. Press the module down and reinstall the 2 screws.

   8. Reconnect the antenna cables.

   9. Replace the cover.

   10. Tighten the 2 cover screws.