Dell XPS 8900 Motherboard Replacement

How to replace a motherboard in a Dell XPS 8900 desktop computer.

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INTRODUCTION

Welcome to our tutorial on how to replace the motherboard on Dell XPS 8900 Desktop Computer. Please follow all the steps carefully.

TOOLS:

- Phillips #1 Screwdriver (1)
- Phillips #2 Screwdriver (1)
- Anti-Static Wrist Strap (1)

PARTS:

- Dell XPS 8900 Motherboard (1)

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Step 1 — Motherboard

- Begin by unplugging and setting the Dell XPS in a clean work environment.
- Make sure to have the replacement motherboard.

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Step 2

- First, unscrew the 2.5mm screw from the side panel from the back of the case using the #2 Phillips screwdriver.
- Remove the side panel.

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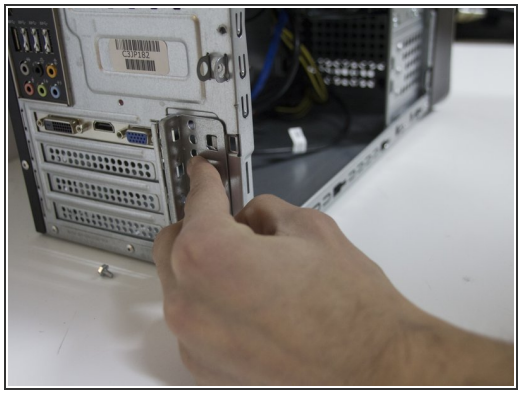
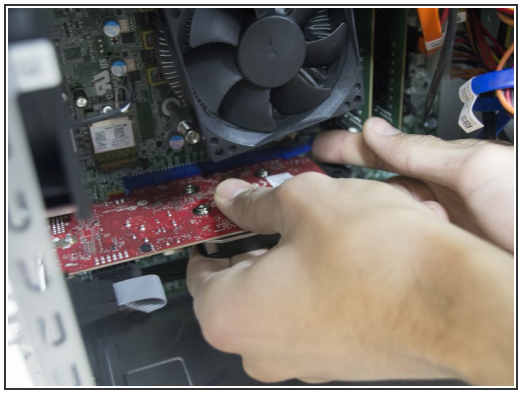
Step 3

⚠ Before working on the internal components put on the Anti-Static wristband to avoid an electrical shortage.

- Connect the wristband to a metallic part of the computer case.

Step 4





- Using the #2 Phillips screwdriver, unscrew the 1.5 mm screw from the metal slider holding the graphics card from the back of the computer.
- Once unscrewed take off the metal slider.
- Take out the graphics card by holding down the blue release tab and gently pull on the card until it pops out.

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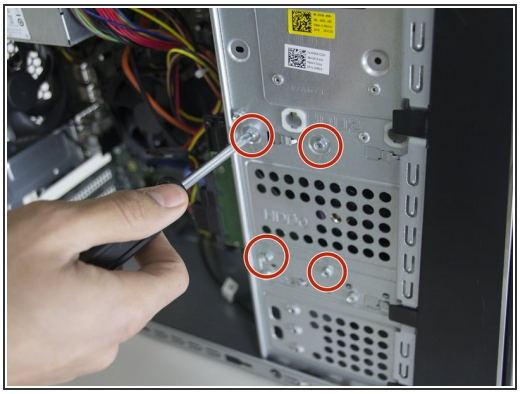
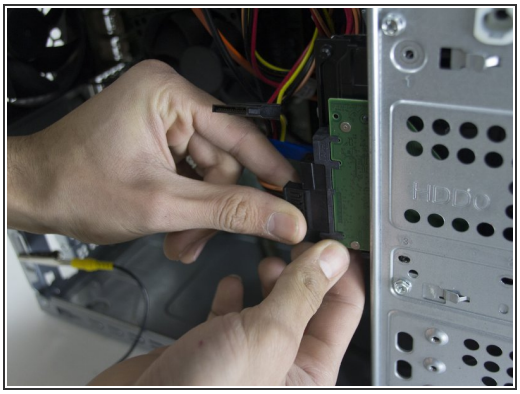
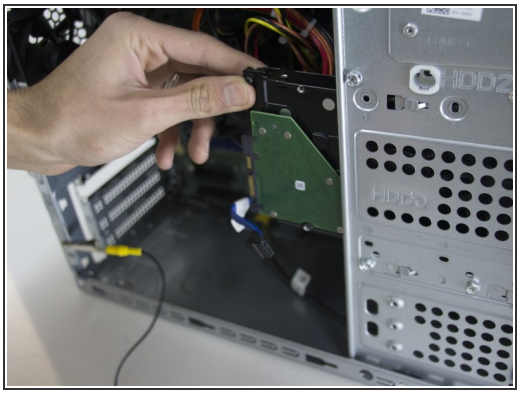
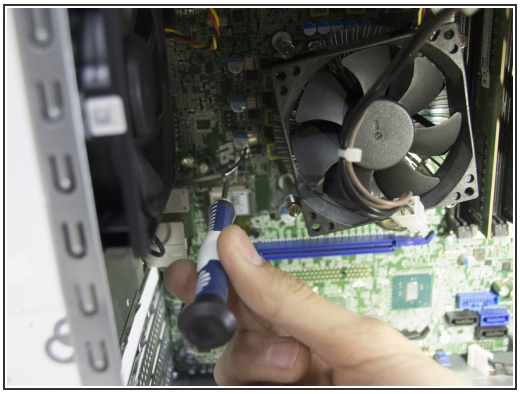
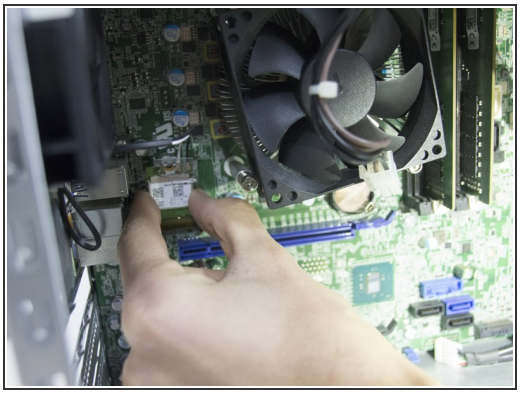
Step 5

- Now, unscrew the (4) 1.5 mm screws using the #2 Phillips screwdriver to remove the hard drive from the case.
- Disconnect all cables from the hard drive.
- Carefully remove the hard drive from the case.

Step 6

- Locate the white wifi-adapter located next to the CPU cooler.
- Using the Phillips #1 screwdriver, unscrew the 0.1 mm screw above the WiFi-adapter.
- Carefully remove the wifi-adapter.

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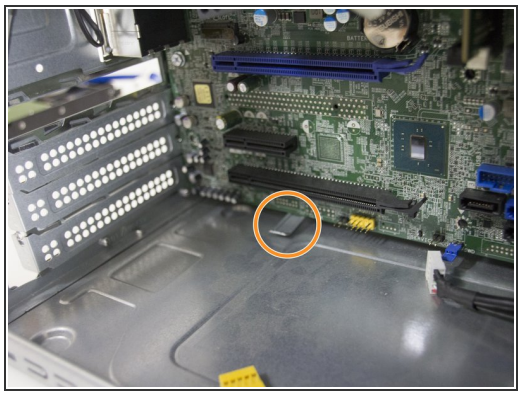
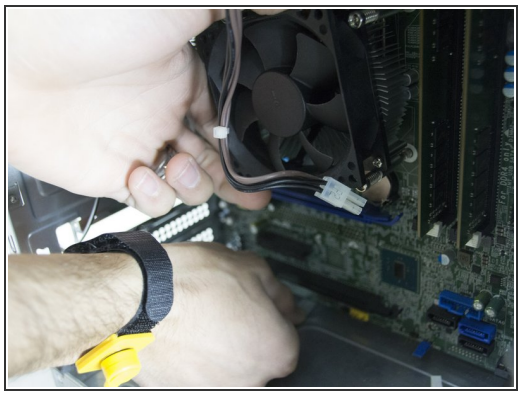
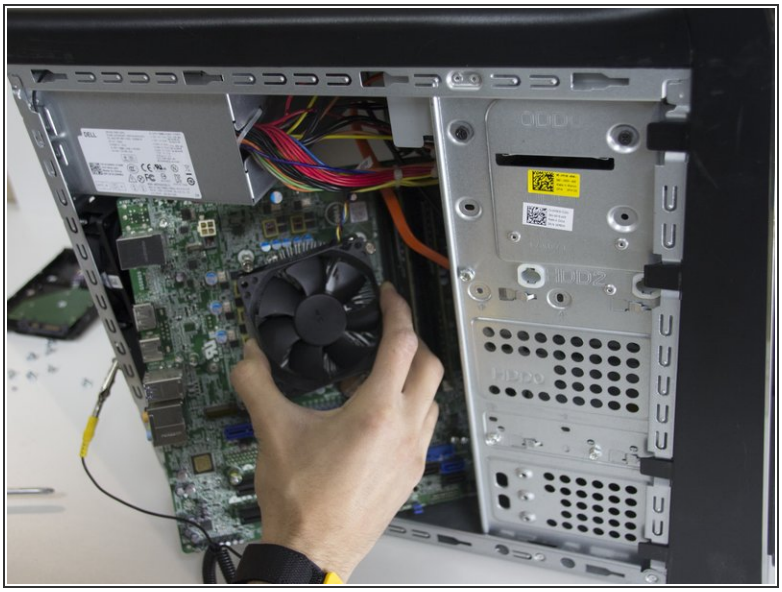
Step 7

- Begin removing the motherboard by unscrewing all (7) 1.5 mm base screws using the #2 Phillips screwdriver indicated by the red circles.
- Once the screws are removed, push down the metallic tab on the bottom of the computer case, while pulling from the cooler assembly.

Step 8



- Gently remove the motherboard from the computer case by holding the CPU fan gently and pulling it out.
- Place the motherboard onto the side to begin removing components from it.

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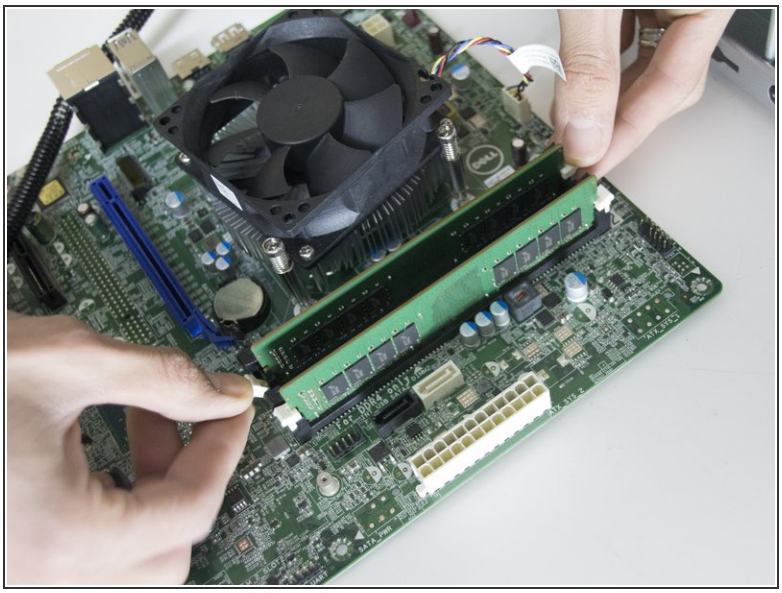
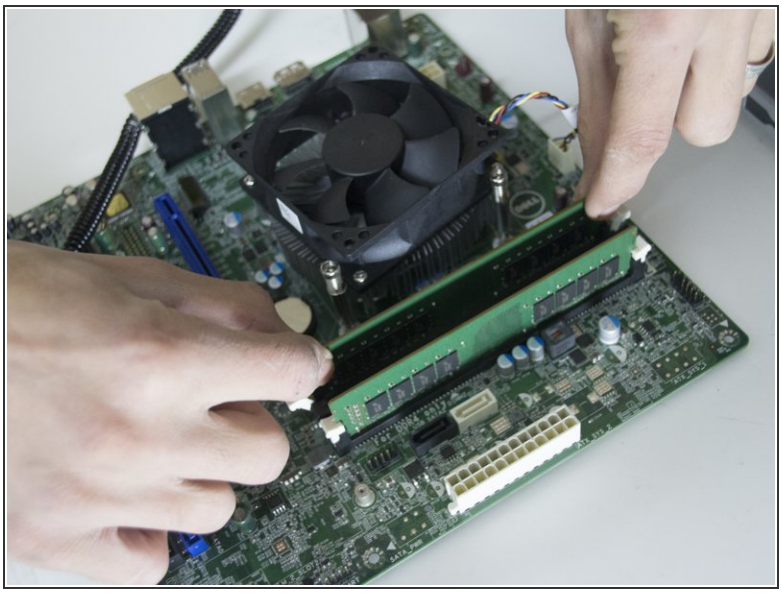
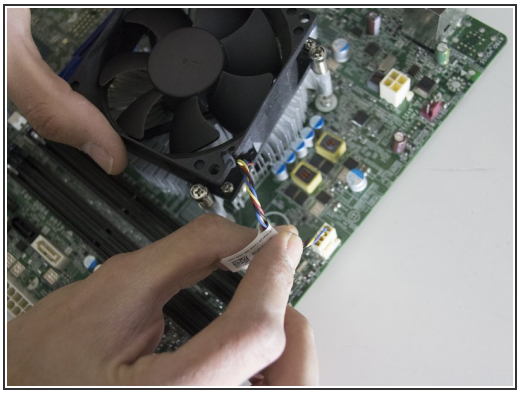
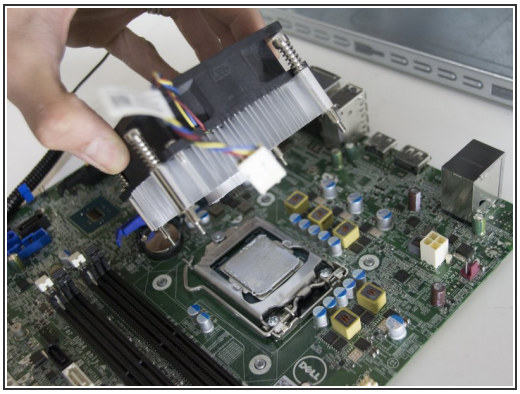
Step 9

- Now, carefully remove each RAM from its slot by pushing down the tabs as shown.

Step 10





- Once you have removed the RAM cards from their slots, focus on removing the fan that is sitting on top of the CPU.
- To disconnect the fan cable, gently pull the cable connected to the motherboard.
- Now, unscrew the (4) 2 mm screws that hold the fan attached to the mother board using the #2 Phillips screwdriver as shown in the pictures.
- Once all the screws have been unscrewed, remove the fan from the motherboard.

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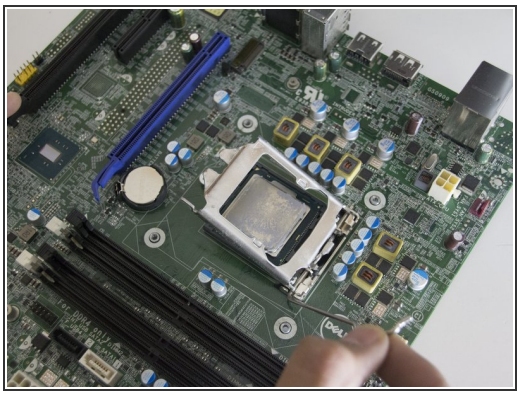
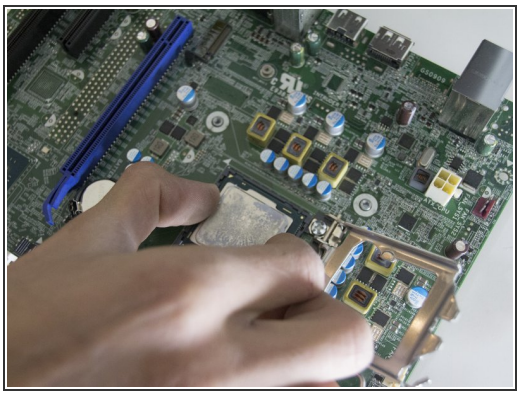
Step 11

- Now we will be taking out the CPU from the motherboard.
- First, pull up the lever to the left of the CPU.
- This will allow the CPU to be removed by opening the CPU cover.
- Lift up the CPU cover and gently pull out the CPU from its hub.

Step 12

- You should now be ready to begin installation of the replacement motherboard.

To reassemble your device, follow these instructions in reverse order.

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