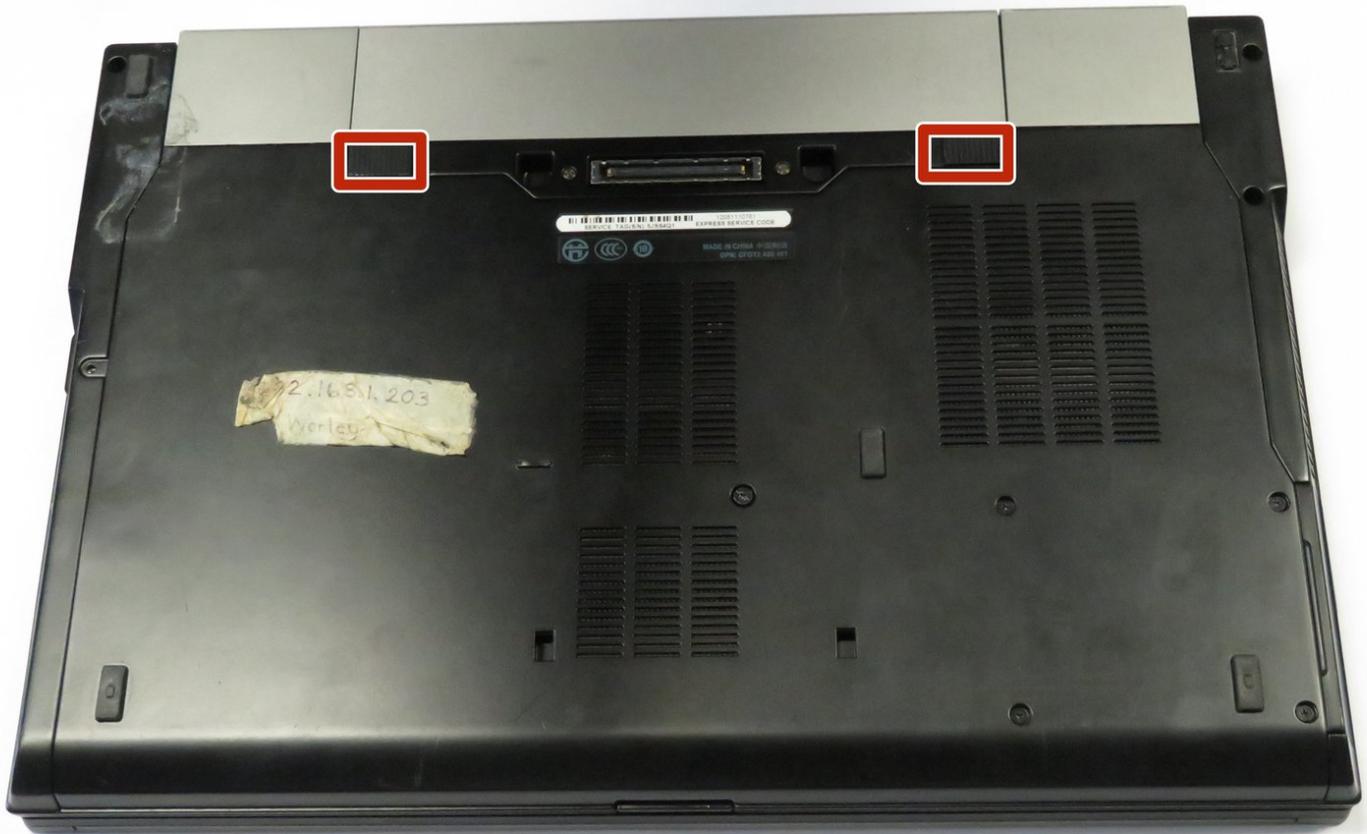




Dell Latitude E6510 USB Ports Replacement

This guide shows how to replace the USB ports on the Dell Latitude E6510.

Written By: Ronald Denardo



INTRODUCTION

The prerequisite guide that is recommended to read before this guide will cover removing the fan from a Dell Latitude E6510.

This guide will cover how to replace the USB ports whether they are damaged or you are replacing them as a precautionary item. The product is the Dell Latitude E6510 computer.

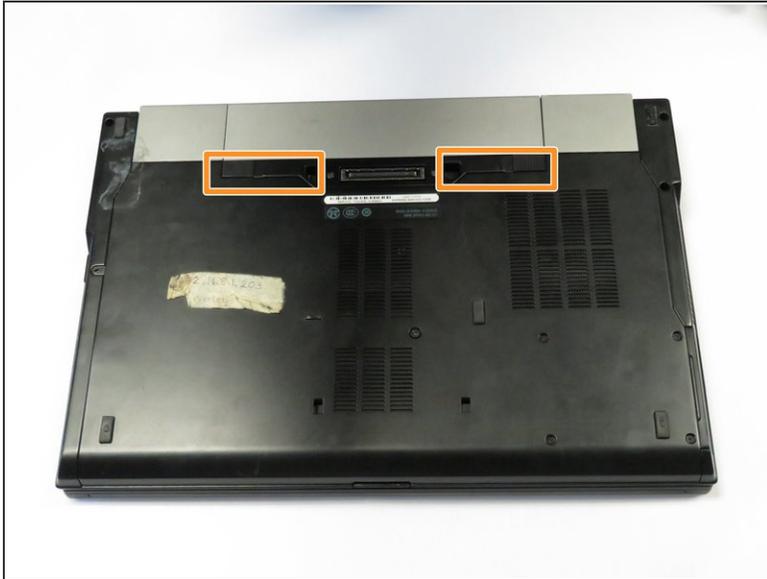
Before using this guide make sure that the computer is powered off and that you have a clean workspace in which it is easy to keep track of all parts.

This guide requires you to know how to use a soldering iron safely as well as having a basic knowledge of how to use tools like a screwdriver.

TOOLS:

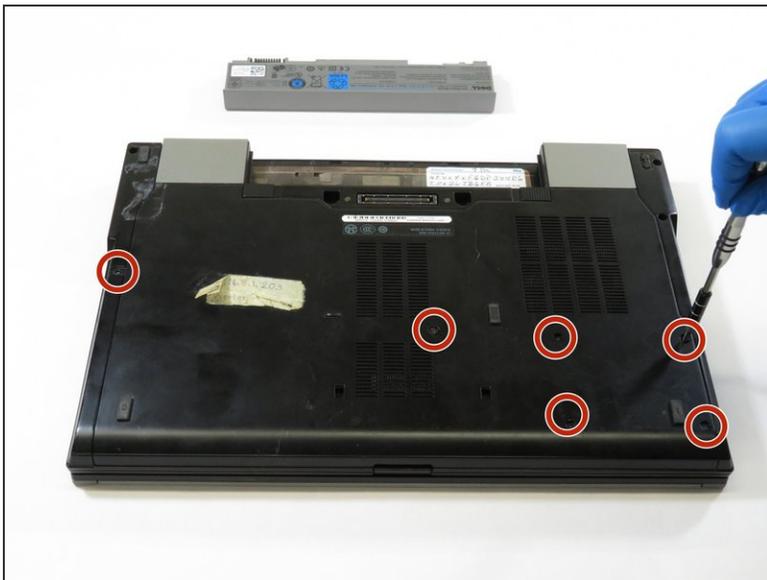
- [Phillips J1 Screwdriver](#) (1)
 - [Spudger](#) (1)
 - [Soldering Iron](#) (1)
-

Step 1 — Fan



- Slide the two black clips toward the middle to release battery

Step 2



- Remove the back plate from the back of the device
- Remove the 6 screws with the J1 screwdriver.
- once the screws are out, slide back panel towards front of the device and lift up

Step 3



- Remove two screws holding the fan
- Slide from under copper heat sink
- Unplug connector and remove
- To reassemble, follow directions in reverse

Step 4 — USB Ports



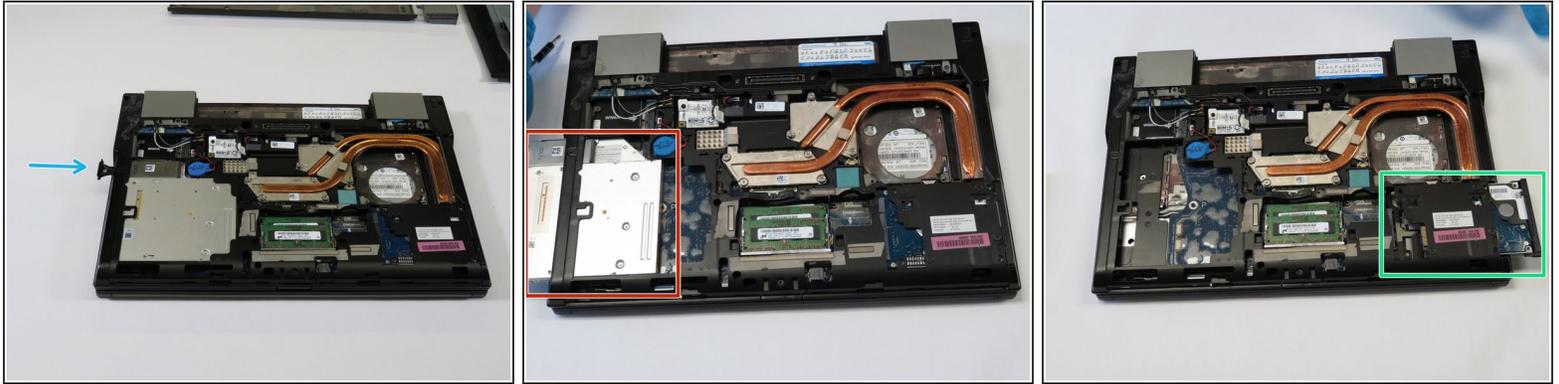
- Remove the battery
 - Flip the computer so that it is facing downward.
 - Next locate the two black clips as shown in the image.
 - Slide the clips toward the middle in order to release the battery.

Step 5



- Remove the back plate from the back of the device.
 - Using the Philips head screwdriver remove the 6 screws marked in red.
- Next, slide the panel down and then lift up til completely removed.

Step 6



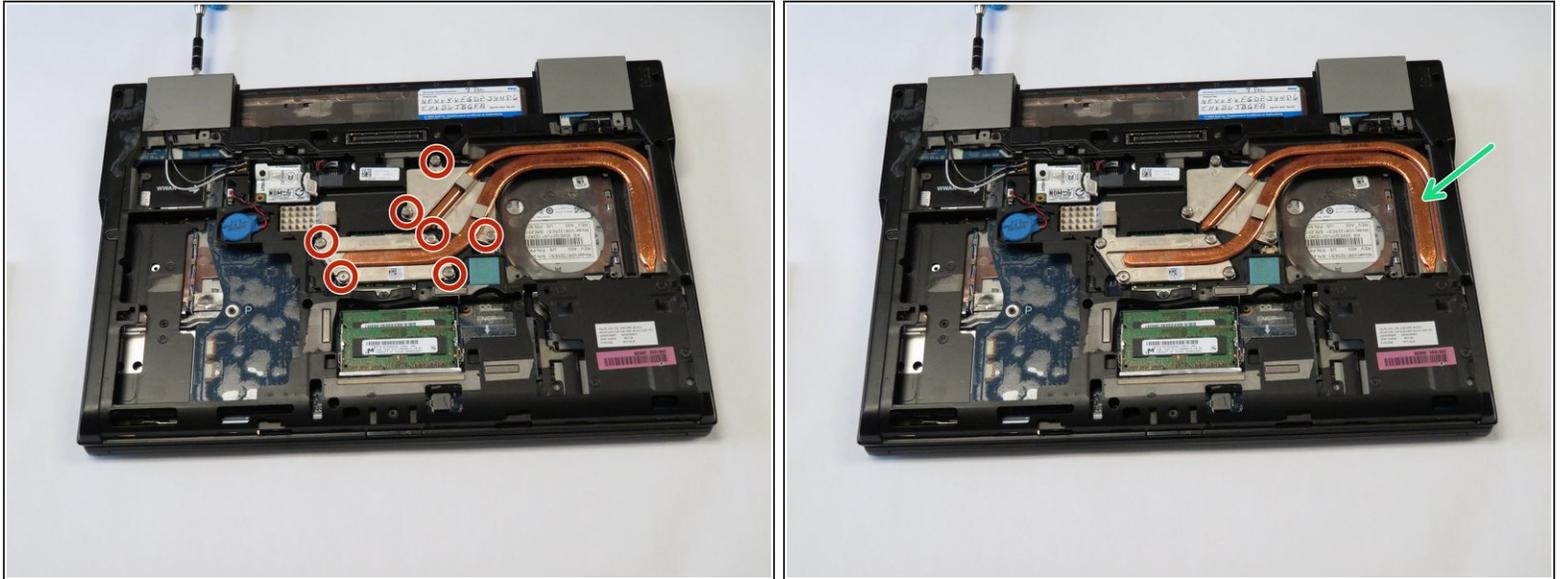
- Press the button on the side of the optical drive in order to release the pull tab.
- Next, pull out the optical drive located on the lower left hand side.
- Locate the hard drive on the lower right hand side and remove it from the computer.

Step 7



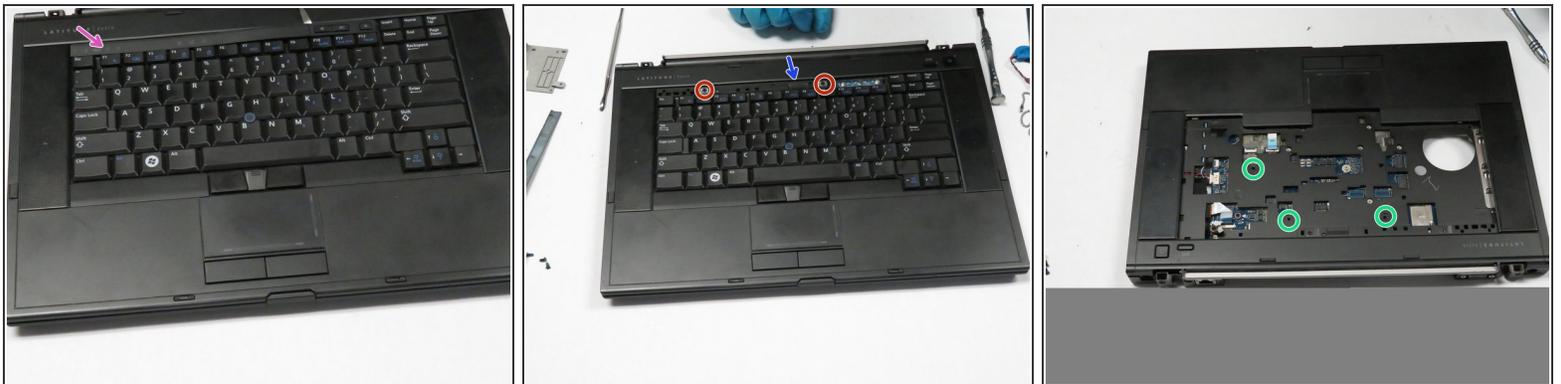
- Using the Philips head screwdriver unscrew the two screws holding the fan.
- Next, slide the fan out from under the copper heat sink.
- Unplug the connector marked in blue and remove the fan.

Step 8



- Using the Philips head screwdriver unscrew the seven screws holding down the copper heat sink.
- Lift the heat sink slightly and slide out to remove it.

Step 9



- Using a spudger remove the volume bar above the keyboard
- Using the Philips head screwdriver unscrew the two screws near the top of the keyboard.
- Lift the keyboard membrane slightly by tab, and slide the keyboard towards the screen in order to remove.
- Using the Philips head screwdriver unscrew the three screws marked in green.

Step 10



- Using the Philip head screwdriver unscrew the eight screws holding down the chassis to get to the USB ports.

Step 11



- Remove the USB port by using a soldering iron to take out the connections on either side of the port.

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