



Dell Latitude D520 disassembly and power jack repair

The cheap power jack on my d520 finally died, no amount of jiggling would make it work, so I tore the laptop apart to fix it.

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 **TOOLS:**

- Phillips #1 Screwdriver (1)

Step 1 — Dell Latitude D520 disassembly and power jack repair



- 1. unplug laptop
- 2. remove battery
- 3. remove screw
- Remove disk drive by pressing in the pull mechanism, causing it to extend outwards, then use the pull handle to pull out disk drive.

Step 2



- remove 2 retention screws
- slide HD carriage out

Step 3



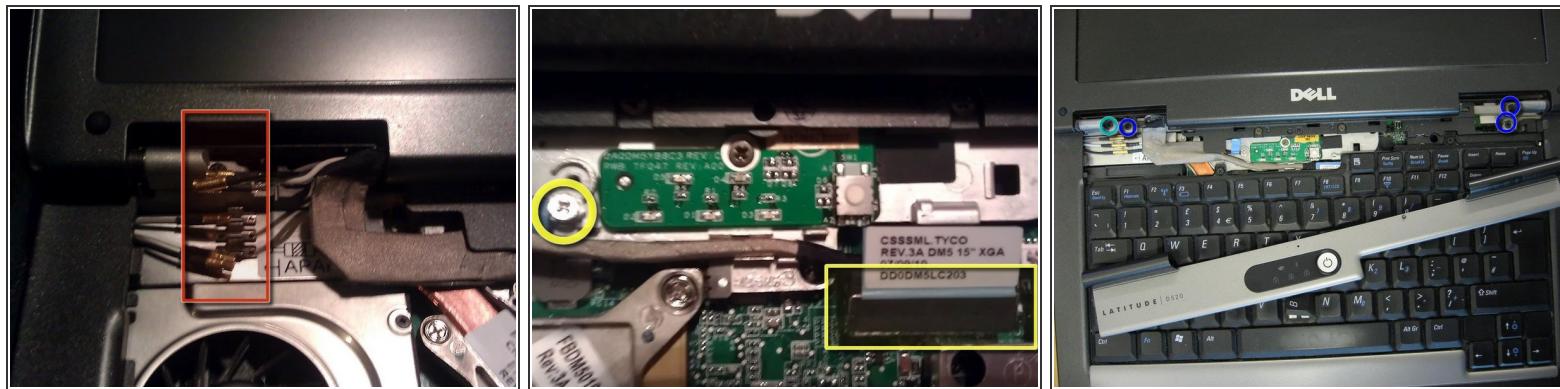
- open laptop
- with a small screwdriver carefully pry plastic cover
 - it helps to open the laptop all the way
 - be careful not to break these clips
 - The clips found under here were specially tricky

Step 4



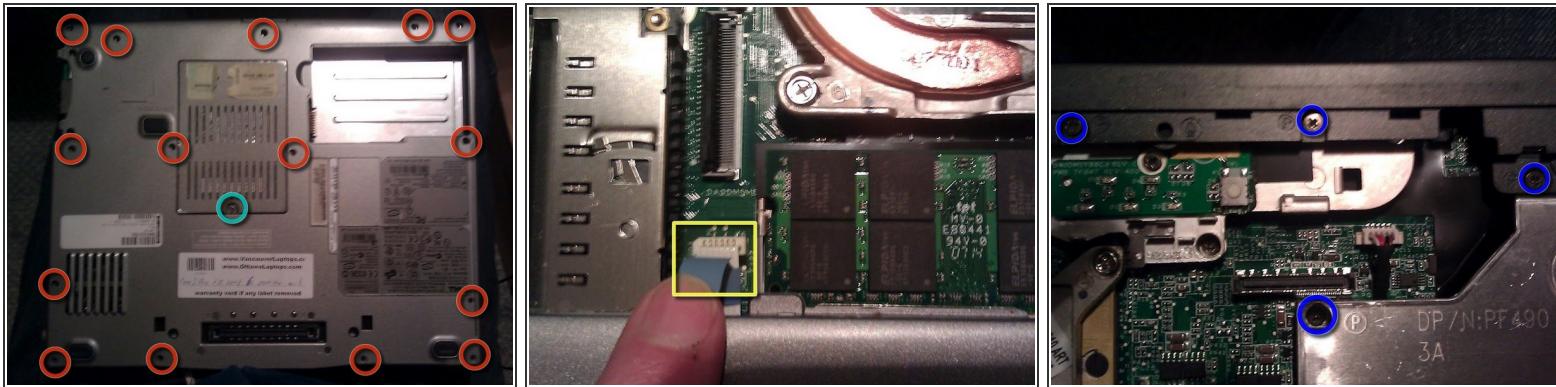
- remove screws X 2
- carefully lift keyboard, being careful not to damage the flat cable.
- lift up tab to release flat cable and remove keyboard

Step 5



- disconnect the three wires
- disconnect video connector
- remove ground screw
- remove 3 screws
- remove last screw, note this screw is longer then the other three
- remove screen

Step 6



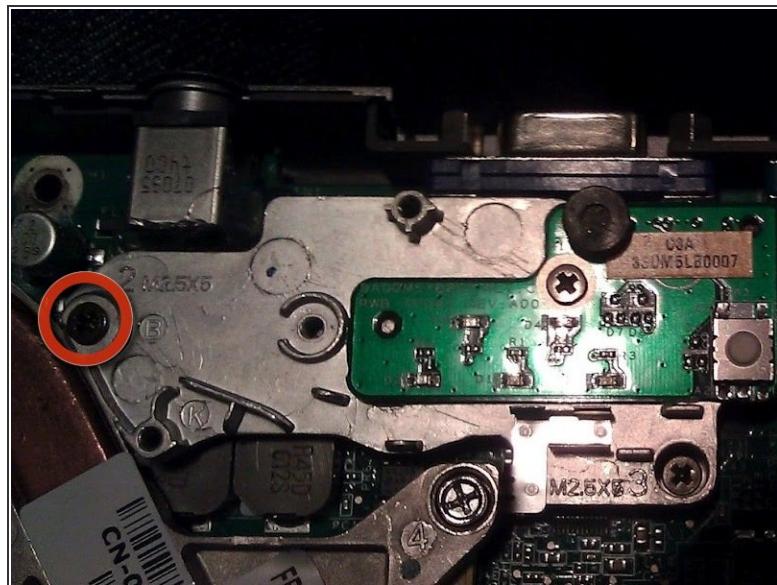
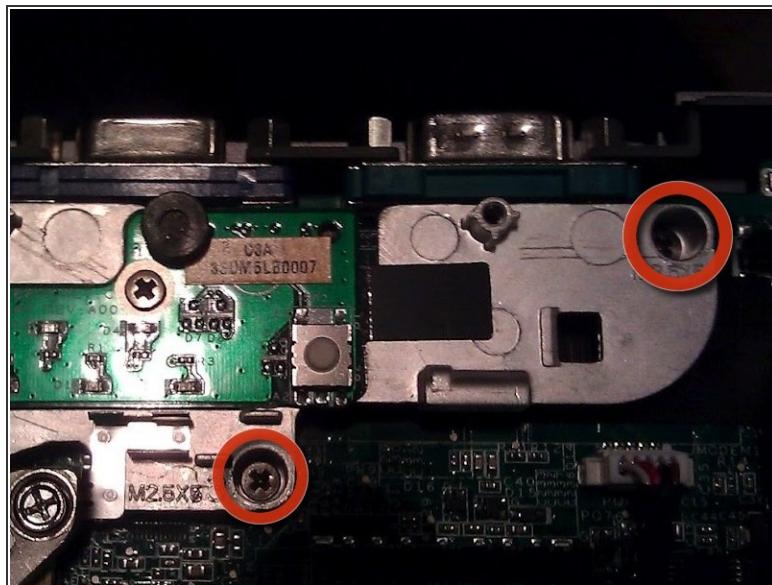
- Remove these 15 screws, they are all the same size
- remove screw and cover
- flip the laptop over
- remove touchpad flat cable by gently pulling up.
- remove 4 screws marked with the letter P

Step 7



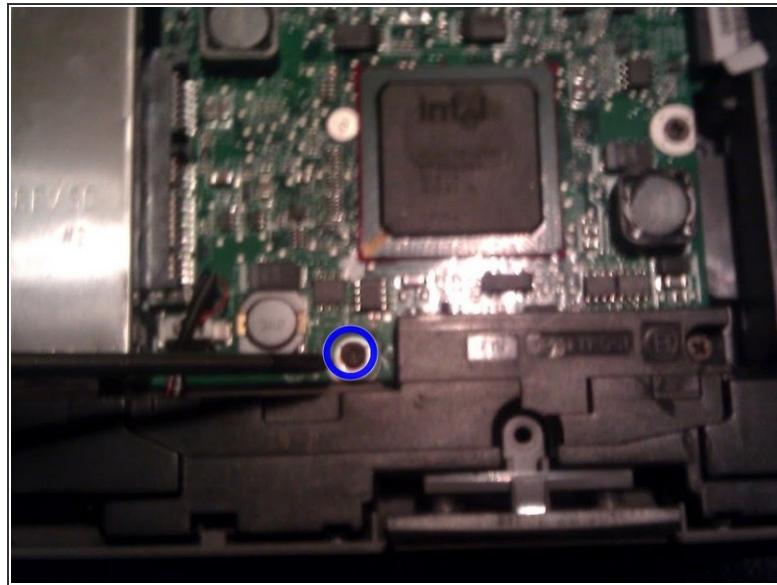
- remove top cover being careful not to break any clips

Step 8



- remove 3 screws
- carefully remove small metal piece that was being held down by the three screws

Step 9



- remove 4 screws
- remove 1 screw
- being careful not to break any clips, separate bottom plastic cover from the mother board carriage.

Step 10



- The middle part of my power connector had sheared away from its solder points on the motherboard.
- I had to use a bit of flux, but I managed to re-tin all three contact point on the motherboard, as well as the pins in the connector.

- I re-soldered the whole thing and used my trusty hot glue gun to encase the whole connector to prevent it from happening again anytime soon.

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