

Before you start taking it apart make sure the laptop is turned off.

STEP 1.

Unlock and remove the battery.



STEP 2.

Slide the battery latch to the RIGHT and the service cover will lift up a little bit.

Continue removing the service cover with your fingers.



STEP 3.

Remove the service cover.

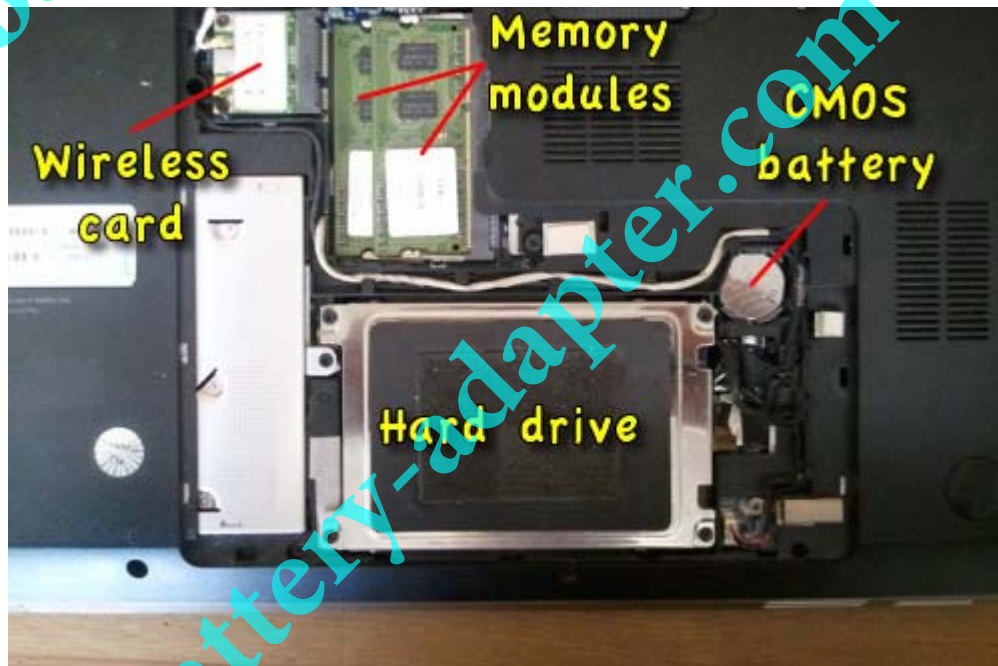


STEP 4.

Under the service cover you'll get access to the following major laptop components:

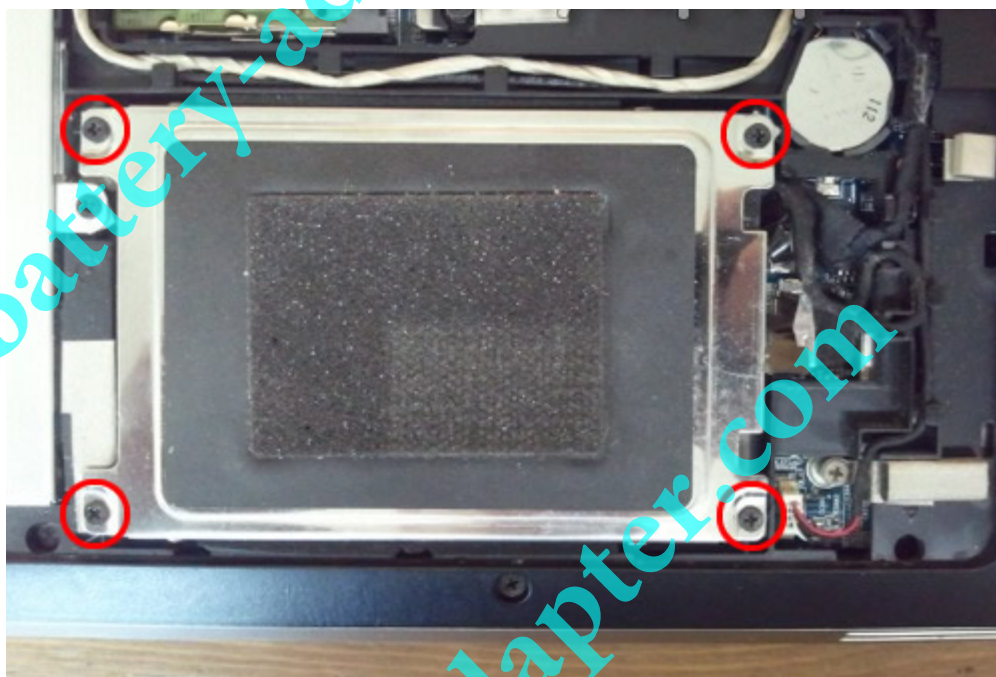
- Both memory modules.
- Wireless card.
- CMOS battery.
- Hard drive.

I will leave both memory modules and CMOS battery connected to the motherboard. It's not necessary to remove them for the purpose of my guide.



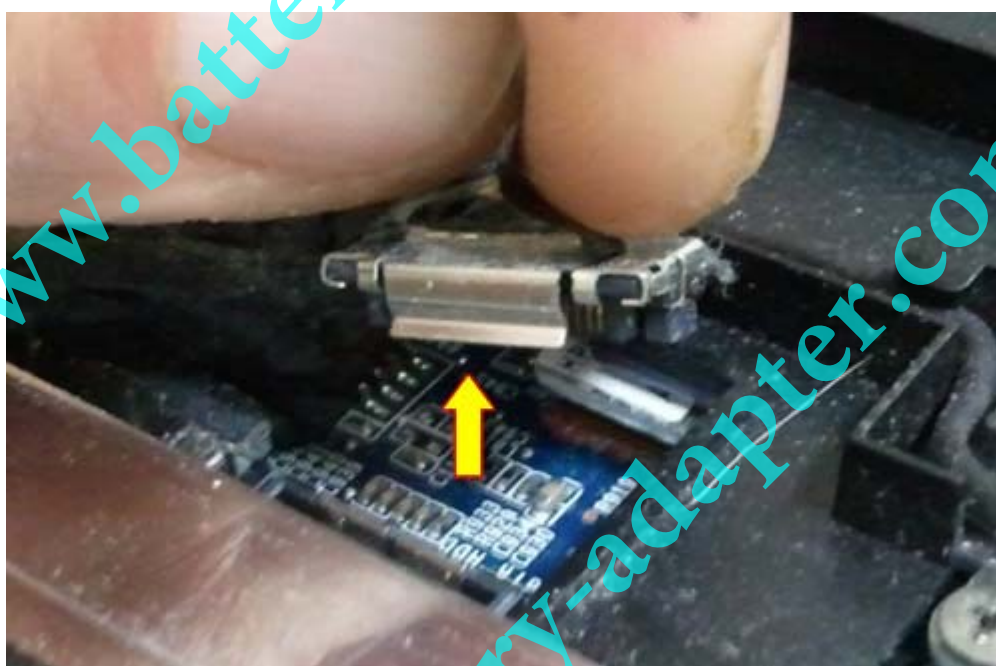
STEP 5.

Remove four screws securing the hard drive assembly.



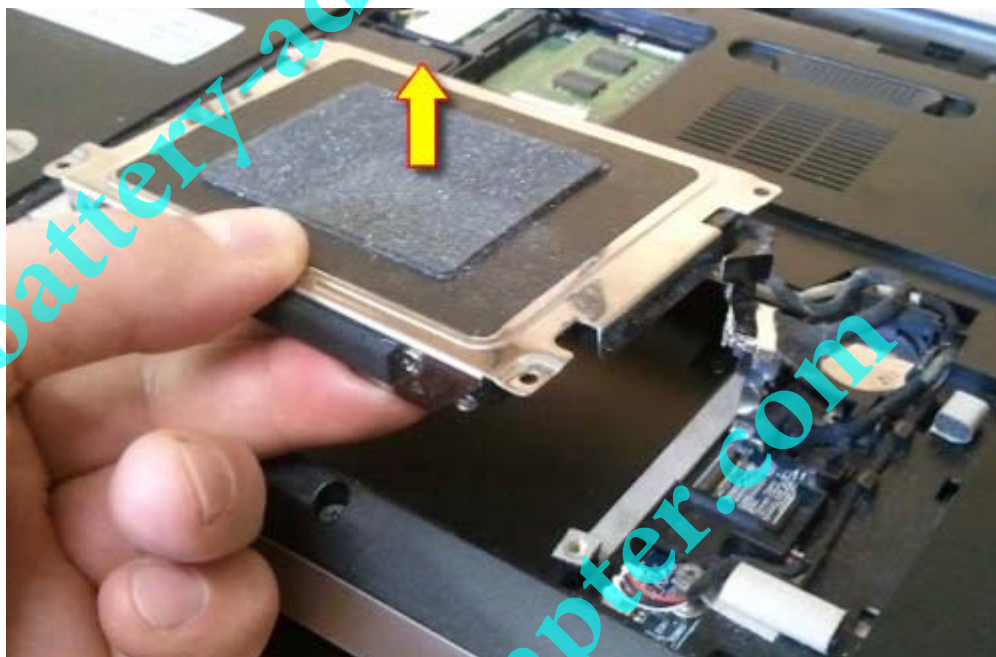
STEP 6.

Unplug the hard drive cable from the motherboard.



STEP 7.

Lift up and remove the hard drive assembly.



STEP 8.

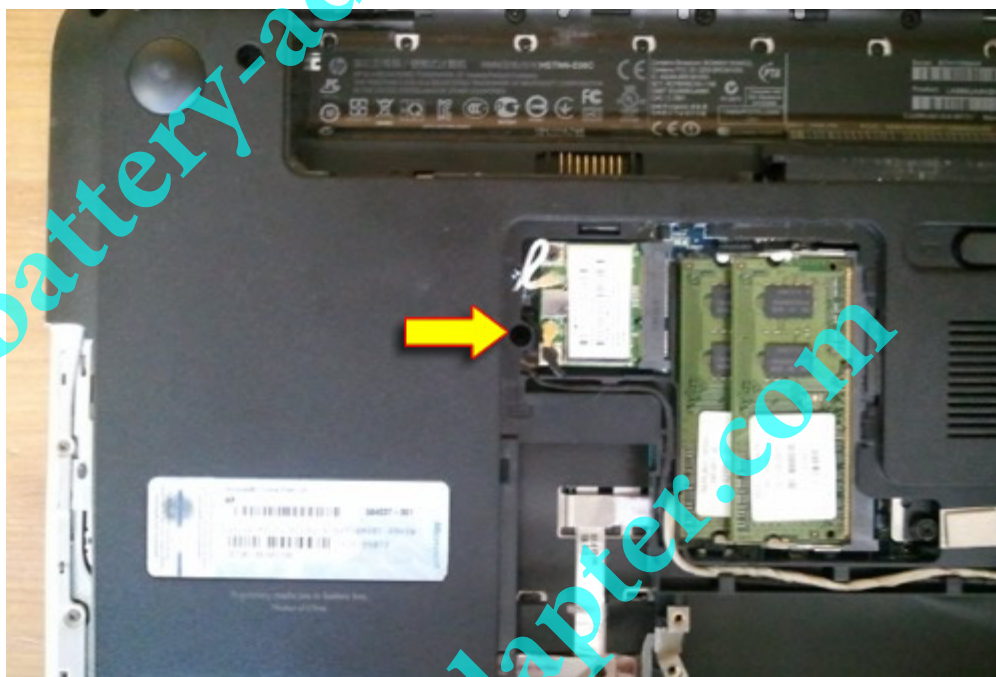
Remove one screw securing the DVD drive.

Pull the DVD drive to the right and remove it from the laptop.



STEP 9.

In order to remove the keyboard you'll have to use the hole located on the left side from the wireless card.



STEP 10.

Insert a small screwdriver into the hole.

NOTE: you'll be pushing on the bottom side of the keyboard so don't use a sharp screwdriver. I'm using a T6 torx screwdriver for that because it has a flat end. A small slotted screwdriver should work too.



STEP 11.

Very gently push the screwdriver into the hole on the bottom of the laptop.

The top side of the keyboard will lift up a little bit and you should be able to insert your fingers under the keyboard.



STEP 12.

Remove the screwdriver and continue removing the keyboard with your fingers.



STEP 13.

Before you remove the keyboard you'll have to disconnect the keyboard cable from the motherboard.

In the following two steps I explain how to unlock the connector.



STEP 14.

On this picture the keyboard connector shown in the LOCKED state.

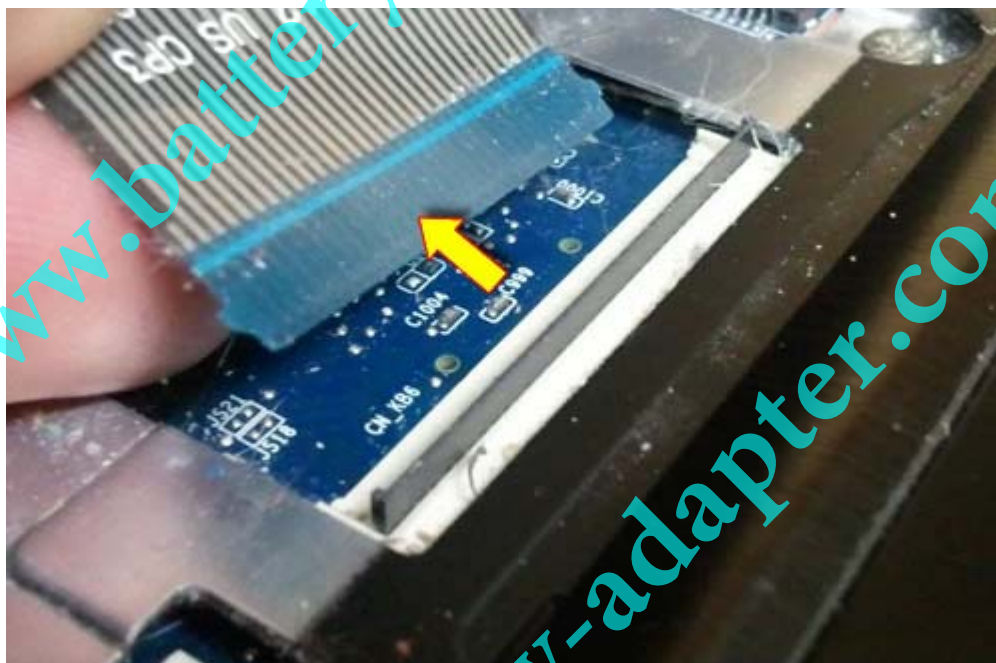
Carefully lift up the left side of the cable retainer (brown piece) with your fingernail.

The retainer will open up at a 90 degree angle.



STEP 15.

Now you can pull the keyboard cable from the connector.



STEP 16.

Remove the keyboard.



STEP 17.

Remove all screws from the bottom of the laptop.

Don't forget three screws in the DVD drive bay.



STEP 18.

Remove screws securing the top cover assembly.

Disconnect three cables from the motherboard.

Left to right:

- The power button board cable.
- The touchpad cable.
- The finger scanner device cable.



In order to disconnect these cables use same technique as for disconnecting the keyboard cable.

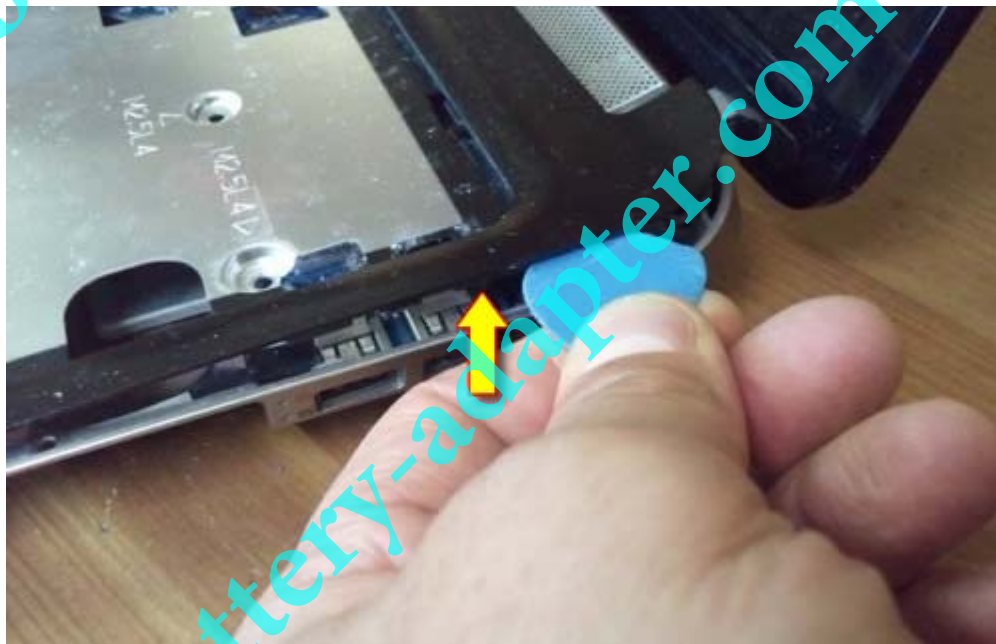
Lift up the cable retainer and pull cable from the connector.



STEP 19.

Now you can start separating the top cover assembly from the laptop bottom cover.

Use a piece of plastic for that. Continue removing the top cover with your fingers.



STEP 20.

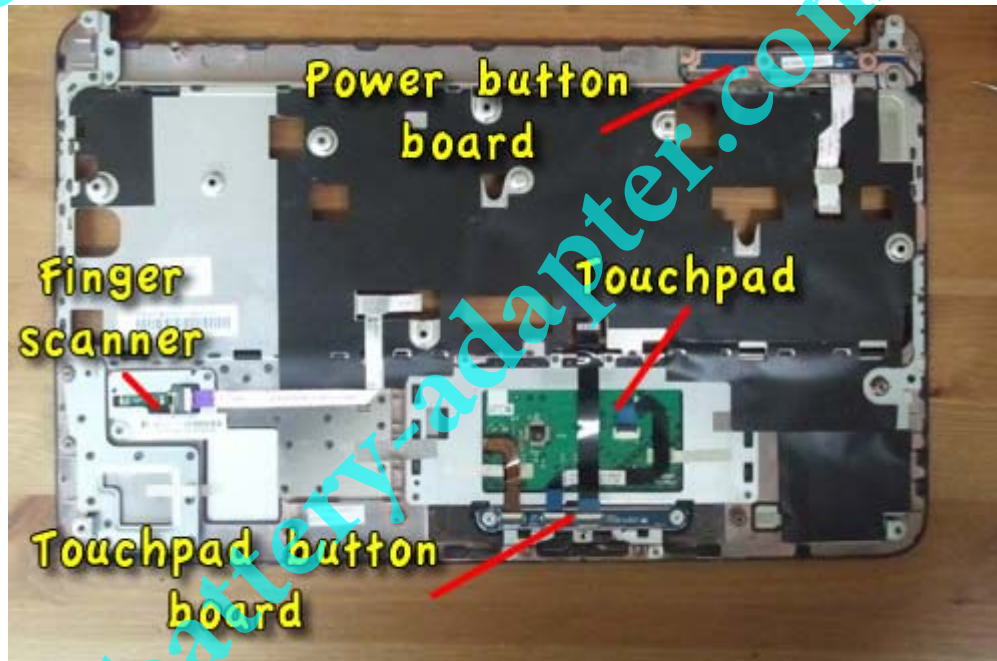
The top cover/palmrest assembly removed.



STEP 21.

On the bottom side of the top cover you can access the following components:

- Finger scanner device.
- Power button board.
- Touchpad.
- Touchpad button board.



In the following steps I'll be removing the laptop motherboard.

In order to remove the motherboard it's necessary to disconnect the wireless card and unplug two more cables from the bottom of the laptop.



STEP 22.

Disconnect two antenna cables from the wireless card.

Remove two screws securing the wireless card.



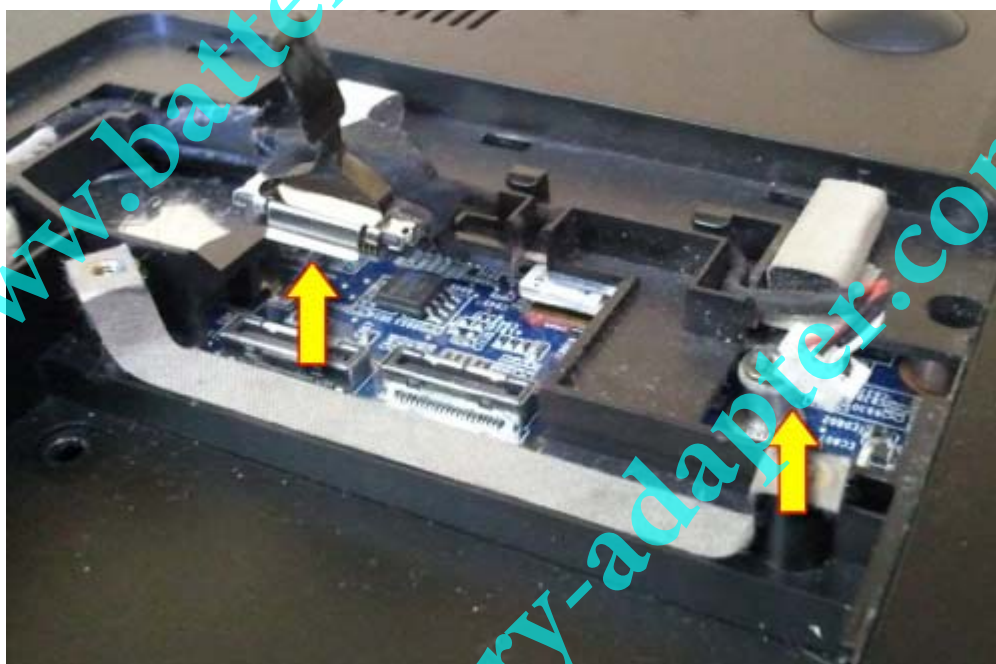
STEP 23.

Pull the wireless card from the slot on the motherboard.



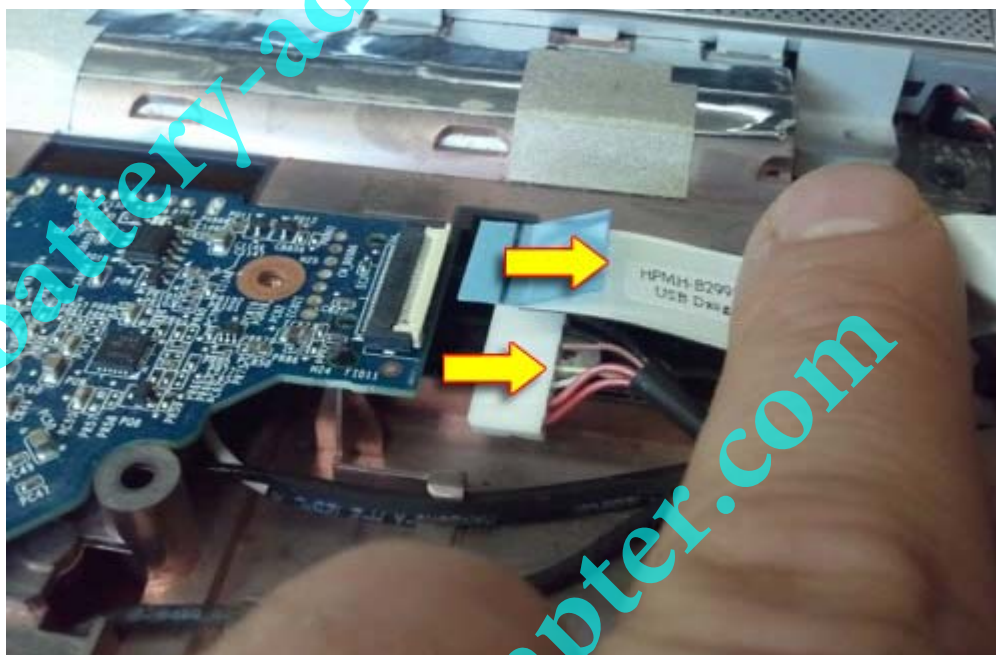
STEP 24.

Disconnect the DVD drive connector cable (left) and speaker cable (right) from the motherboard.



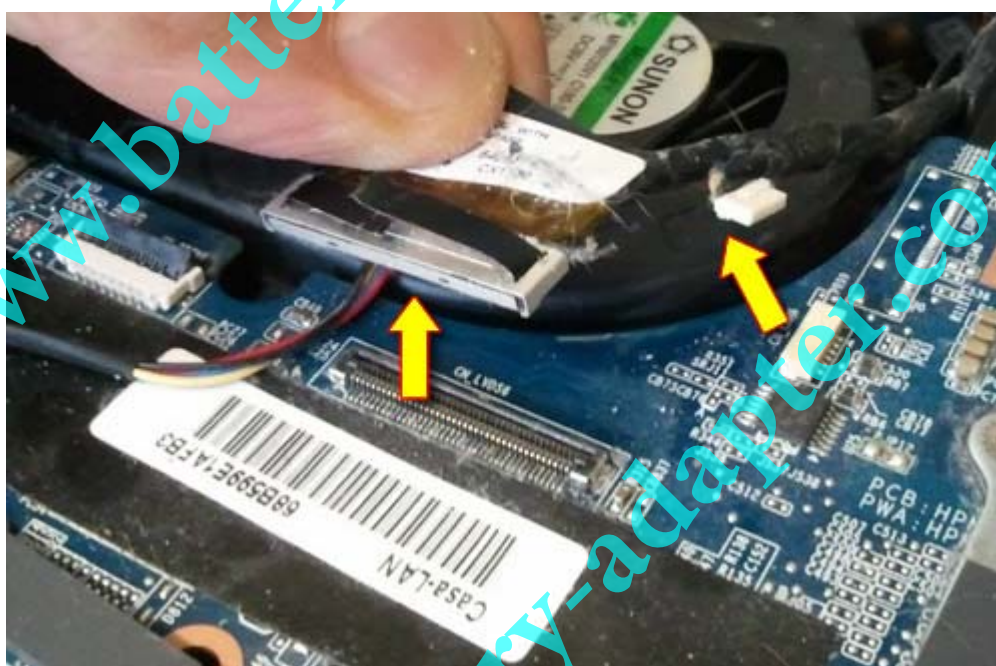
STEP 25.

Disconnect the USB board cable (top) and power connector cable (bottom) from the motherboard.



STEP 26.

Unplug the video cable (left) and webcam/microphone cable (right) from the motherboard.



STEP 27.

Unplug the speaker cable from the motherboard.



STEP 28.

Remove four screws securing the silver cover.



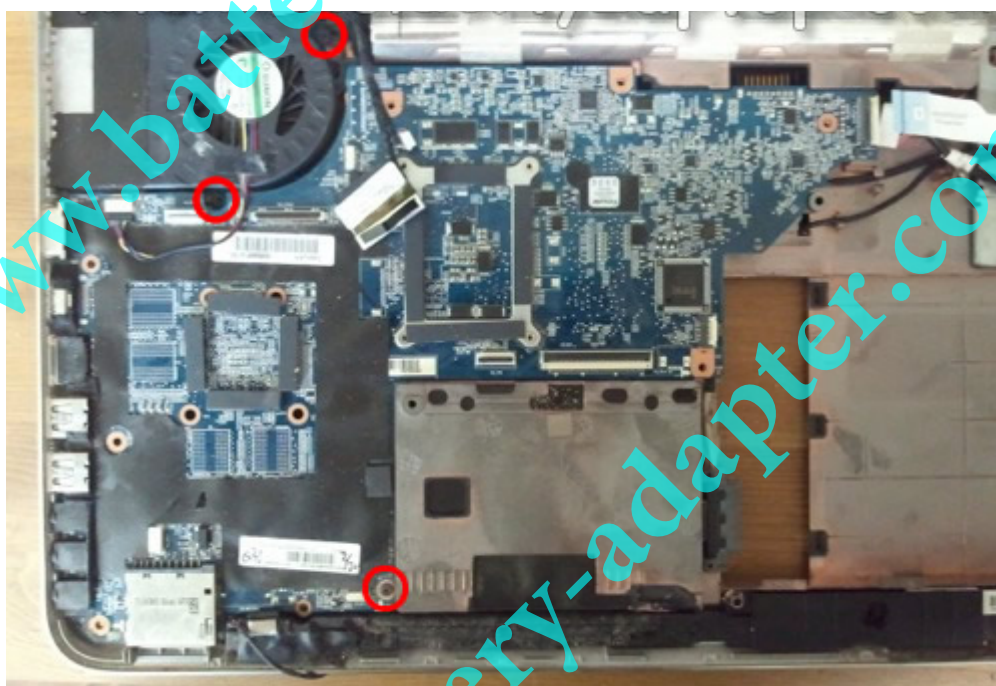
STEP 29.

Remove the silver cover.



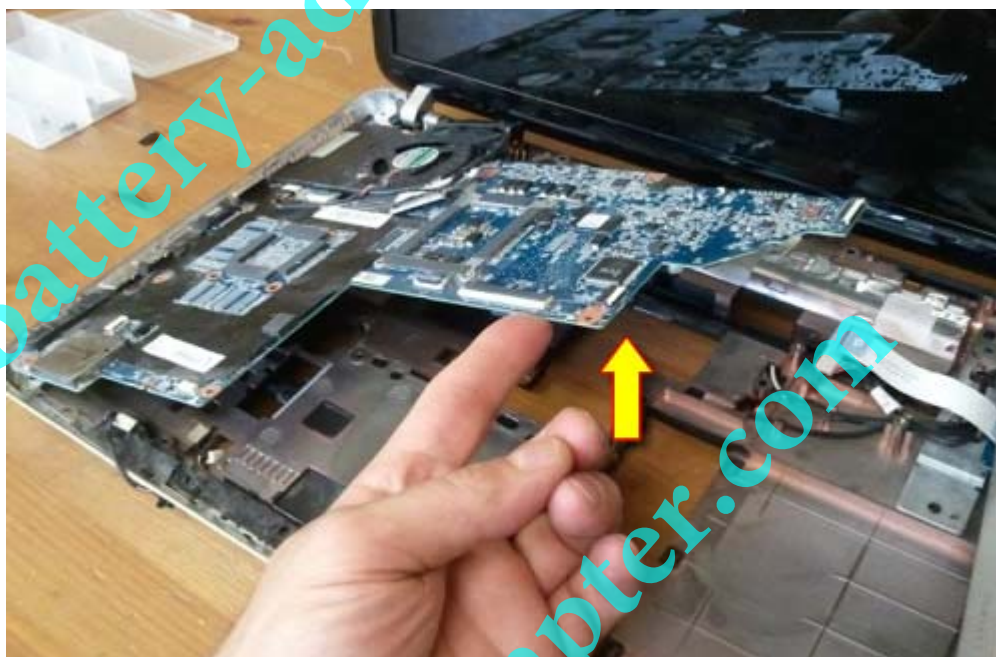
STEP 30.

Remove three screws securing the motherboard assembly to the laptop bottom case.



STEP 31.

Carefully remove the motherboard assembly from the laptop base.



STEP 32.

The motherboard removed.



STEP 33.

The arrow shows where the fan cable connected to the motherboard.

If you want to remove the fan assembly you'll have to unplug this cable first.



STEP 34.

On the other side of the motherboard you can access the remove the cooling fan assembly.



You can search for the replacement cooling fan assembly using HP spare part number.