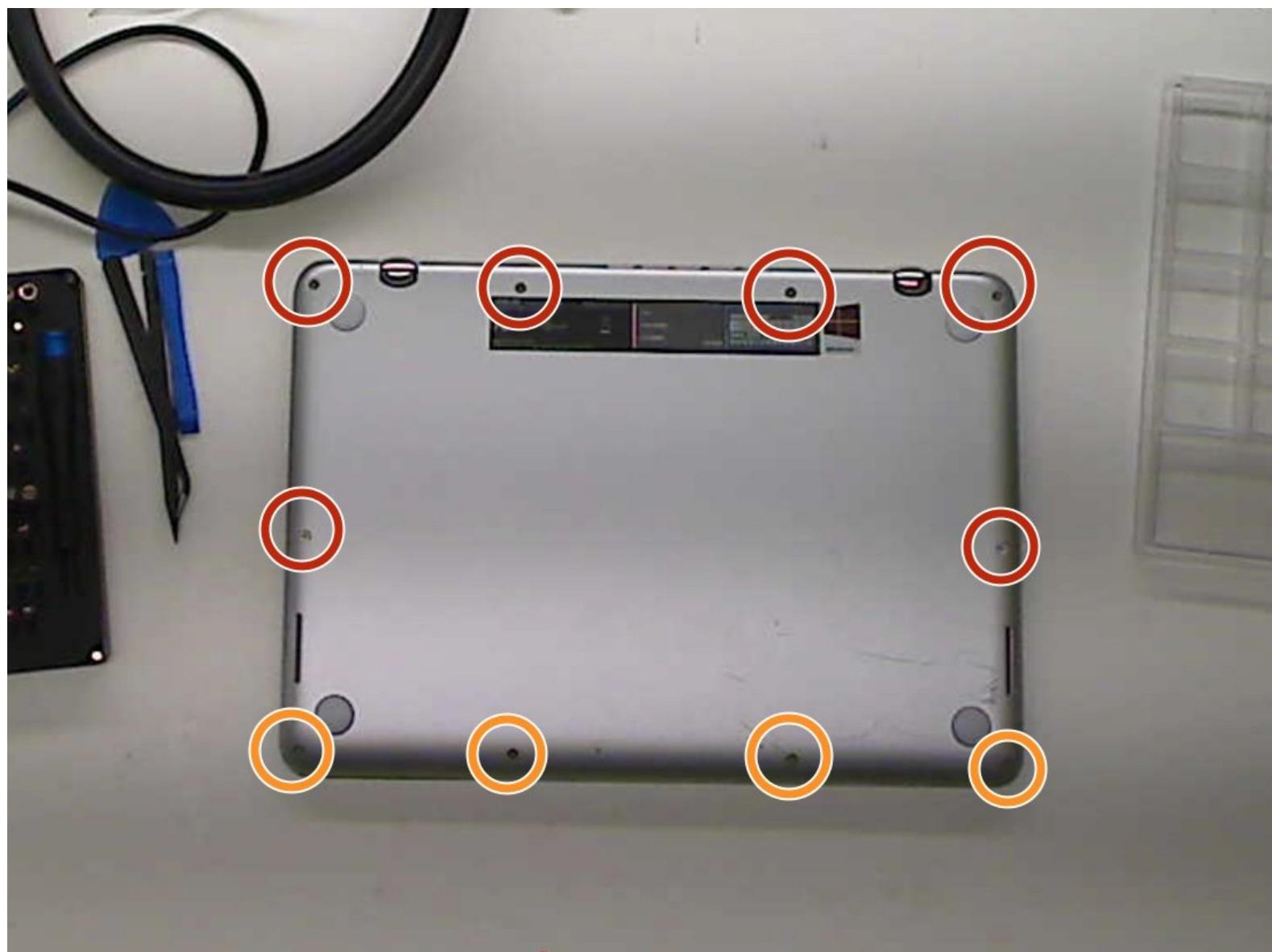




Asus Q304UA Motherboard Replacement

This is a guide on how to replace your Asus Q304UA laptop motherboard.

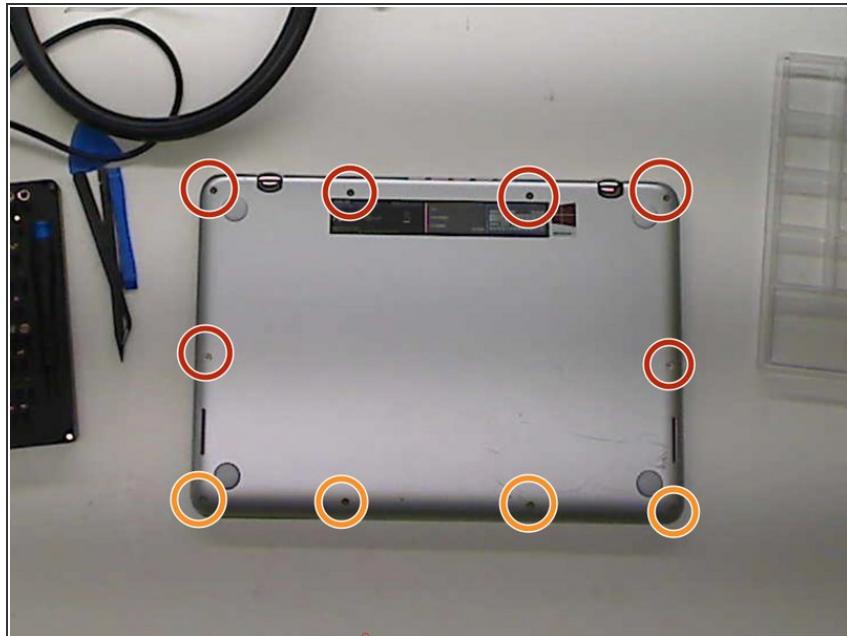
Written By: Ben Meinhart



 **TOOLS:**

- Pro Tech Toolkit (1)

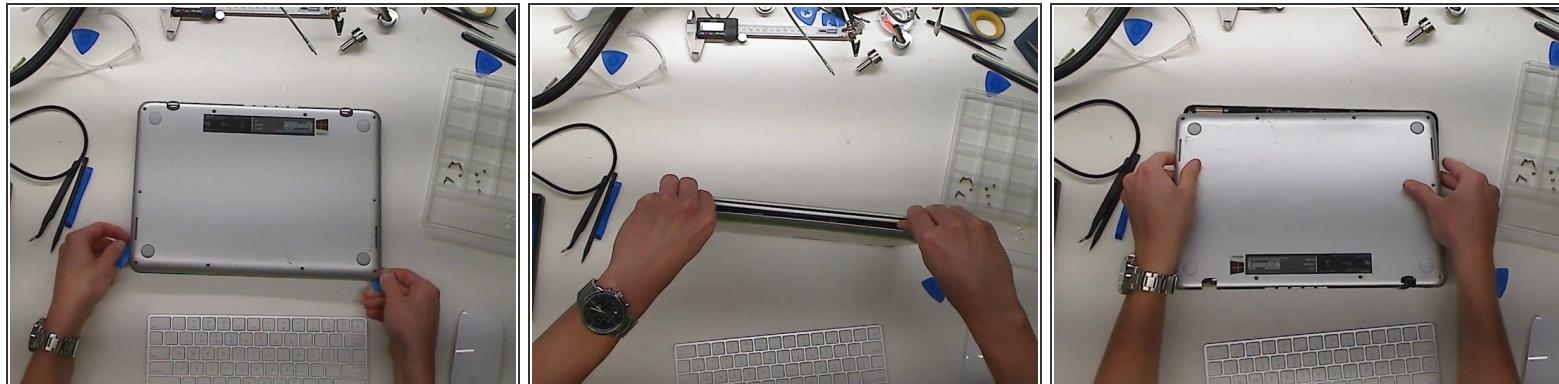
Step 1 — Remove the bottom cover



- Remove ten Phillips #0 screws that secure the plastic bottom cover to the chassis.
 - Six 9.6 mm screws
 - Four 4.6 mm screws

 Throughout this guide, [keep careful track of your screws](#) so that each one goes back where it came from during reassembly. Installing a screw in the wrong place can cause permanent damage.

Step 2



- Use a plastic pry tool to get in-between the bottom cover and the lower case assembly.

 Be careful not separate the cover too violently or you will risk breaking the plastic clips that are on the bottom cover.

Step 3 — Disconnect the battery

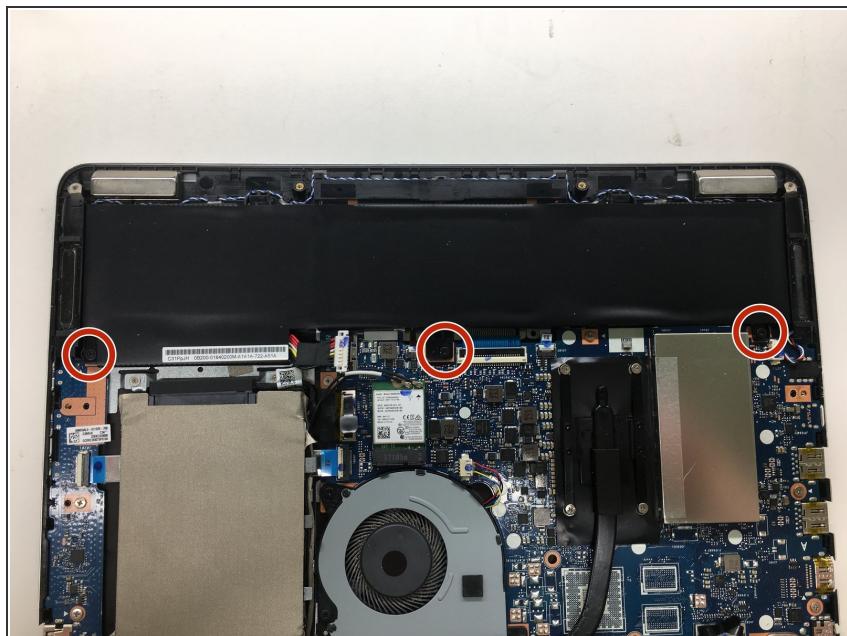


- Push metal bracket away from battery connector.
- Use a spudger to push the battery connection straight up.

⚠ If you pry too hard, or attempt to disconnect the battery with the metal bracket still in place, you risk pulling the connector off of the motherboard.

📌 Make sure the computer is powered off before removing the battery.

Step 4 — Remove the battery



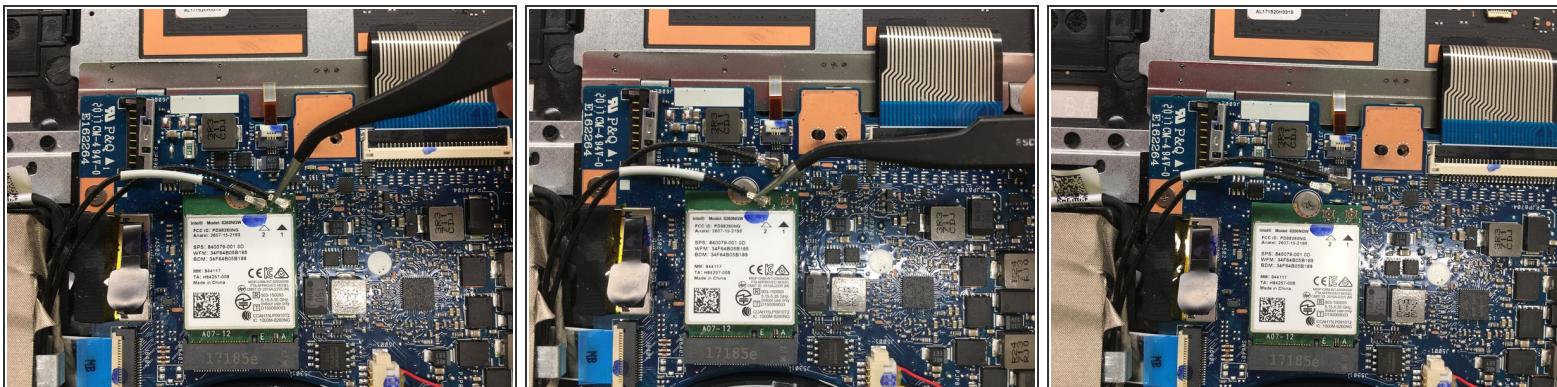
- Remove the Phillips #0 screws that secure the battery to the lower case assembly
- Three 4.7 mm screws.

Step 5



- Tilt battery up from the side closest to the motherboard
- Pull the battery out of the chassis away from the two plastic retainers near the front of the laptop.

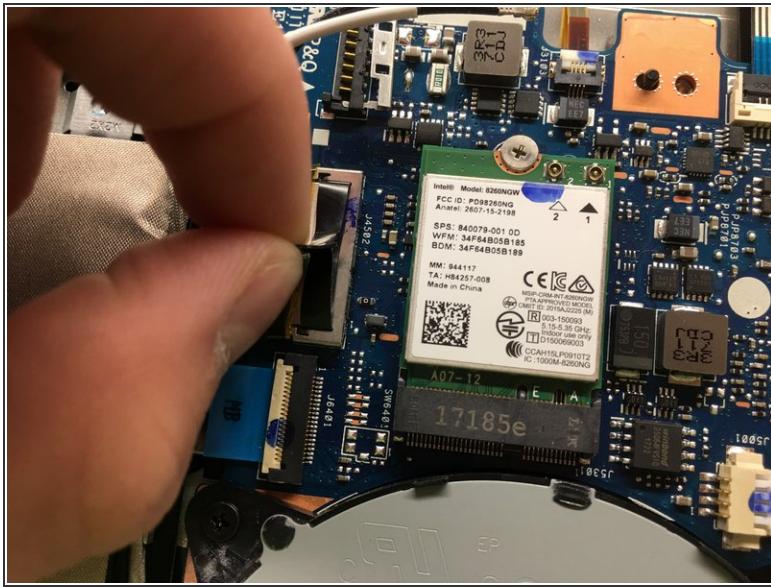
Step 6 — Disconnect RF cables



- Disconnect the Wifi/Bluetooth RF cables from the wireless card.

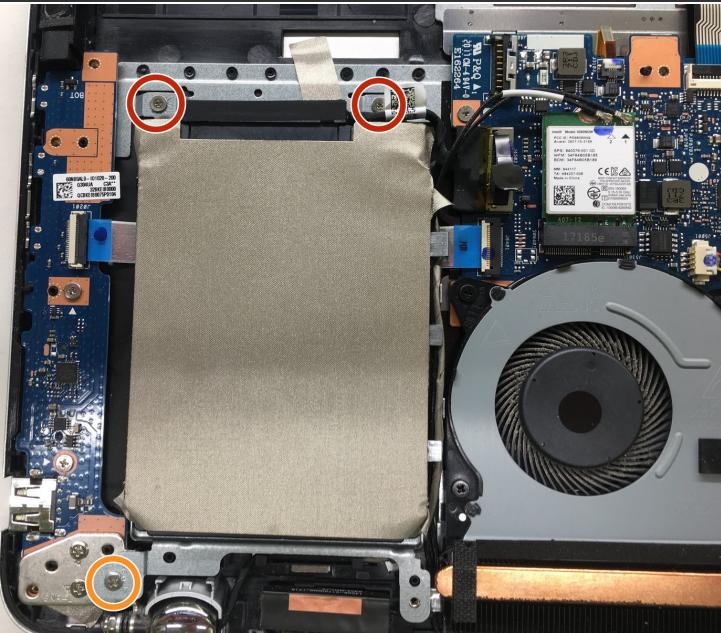
⚠ Pull the RF cables by the metal connector, not by the rubber shielding. This avoids damaging the connector and the cable.

Step 7 — Remove the drive



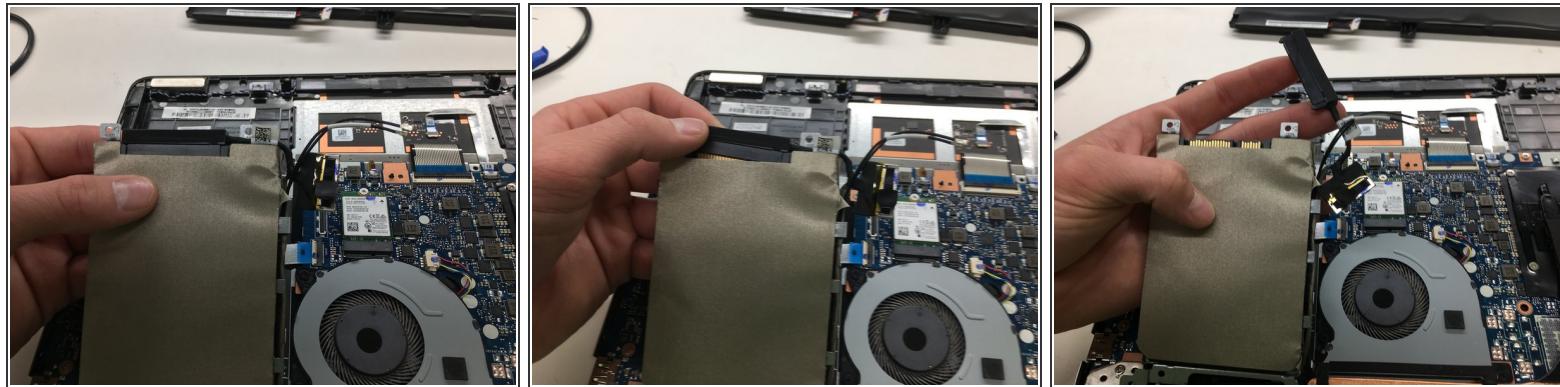
- Pull straight up to disconnect the SATA combo cable from the motherboard.

Step 8



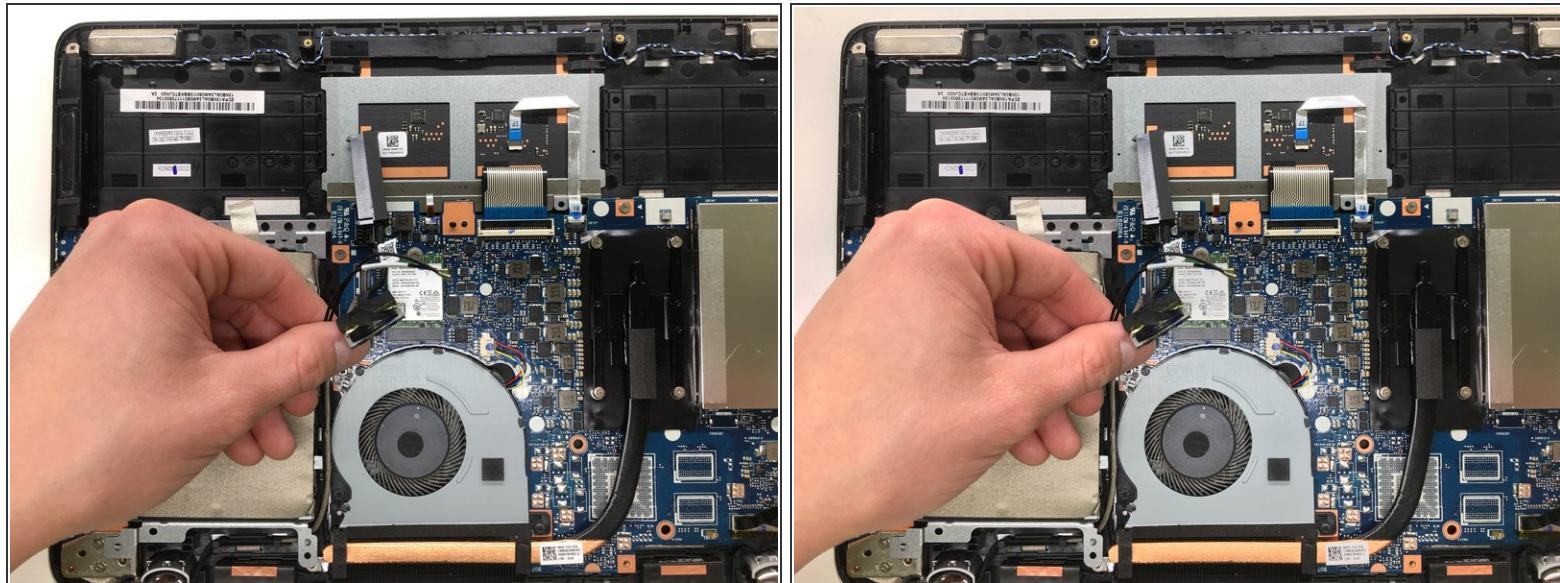
- Remove three Phillips #0 that secure the hard drive bracket to the chassis, of the following lengths:
 - Two 2.3 mm screws
 - One 5.6 mm screw

Step 9



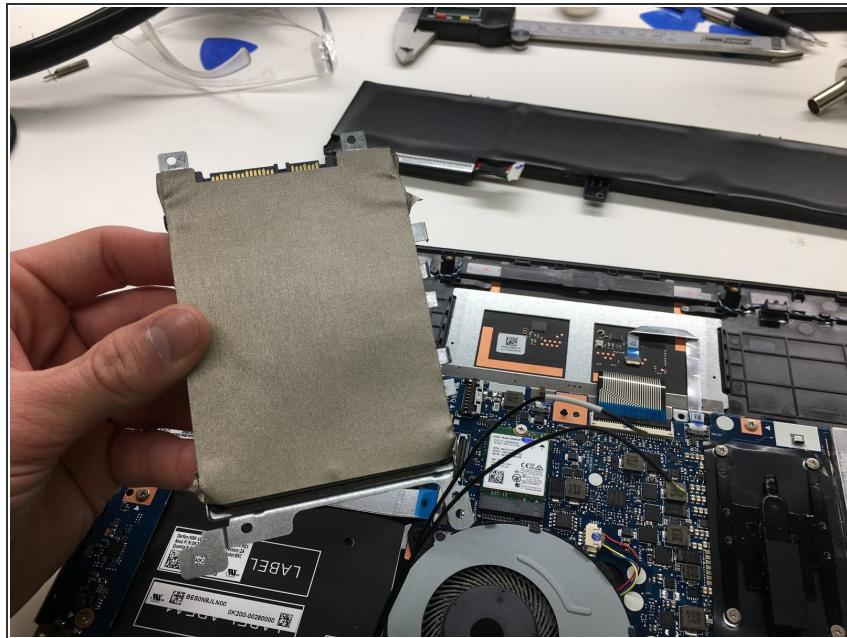
- Tilt the drive up slightly by the connector
- Remove the SATA combo connector

Step 10



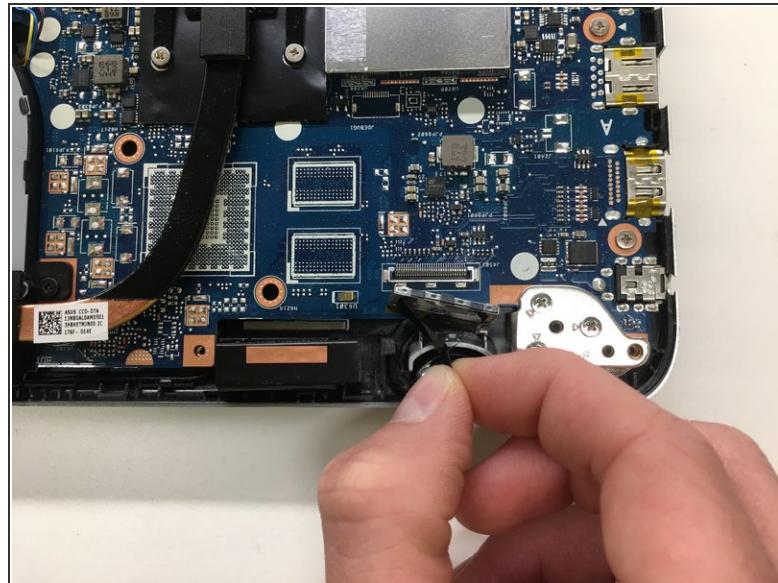
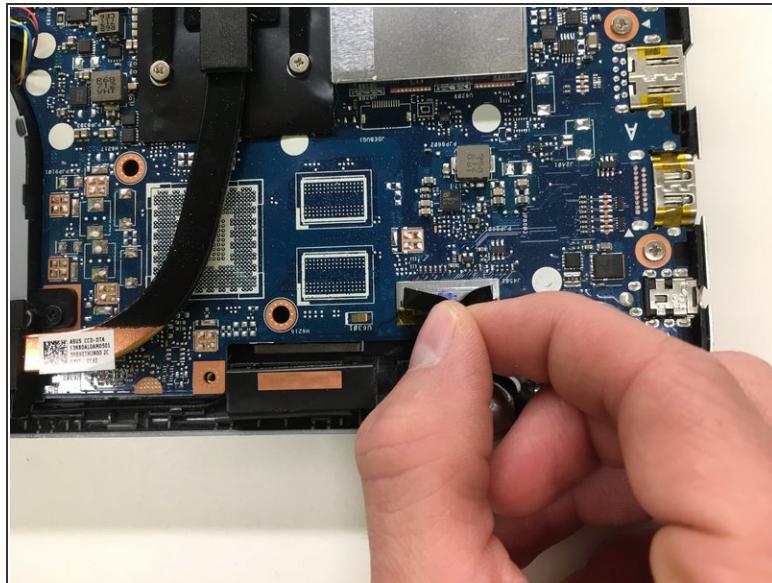
- De-route the SATA and RF cables from the side of the drive bay.

Step 11



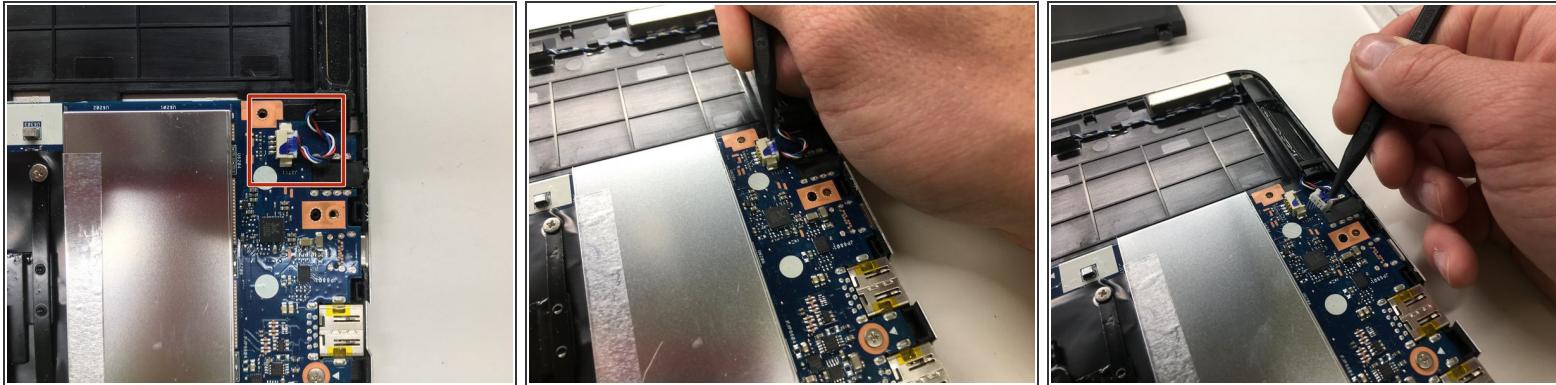
- Remove the drive from the laptop.

Step 12 — Motherboard Assembly



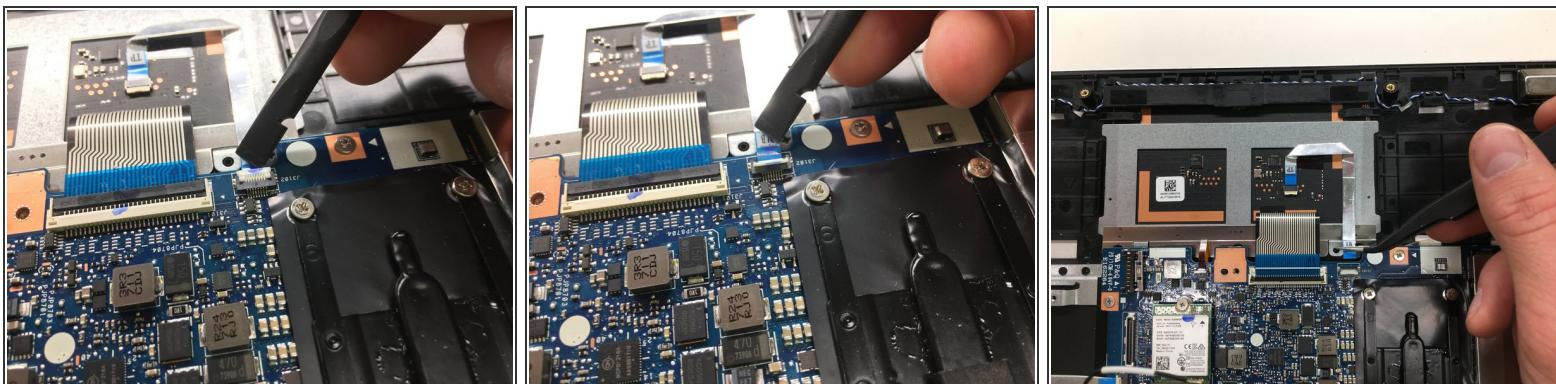
- Pull straight up to disconnect the display cable

Step 13



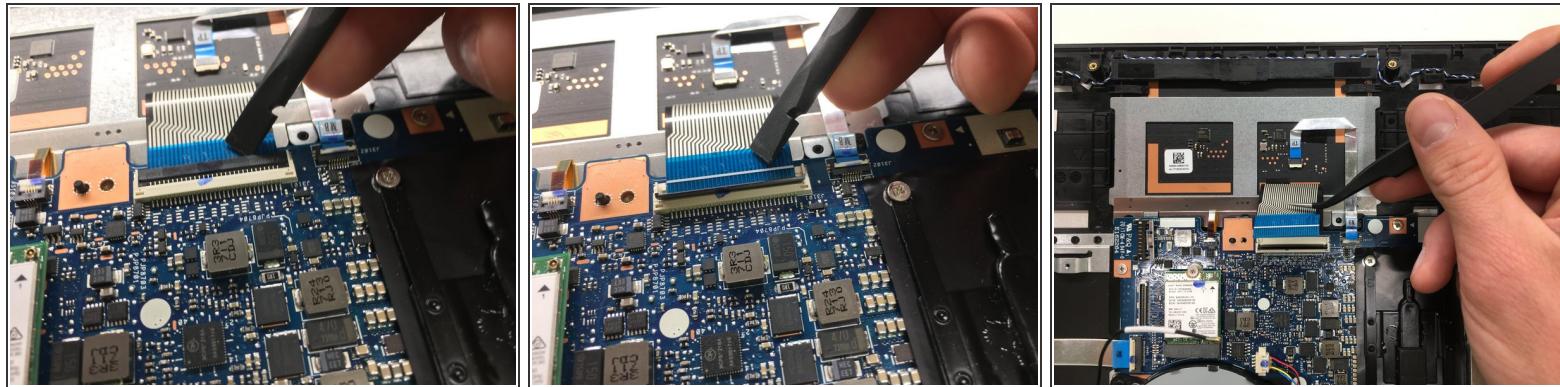
- Use a Spudger to push the left speaker cable out the connector.
- ⚠ Do not pull up on this connector. Only pull directly away from the connector.

Step 14



- Use a spudger to flip up the retaining flap on the trackpad ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use tweezers to pull the ribbon cable straight out of the ZIF socket.

Step 15



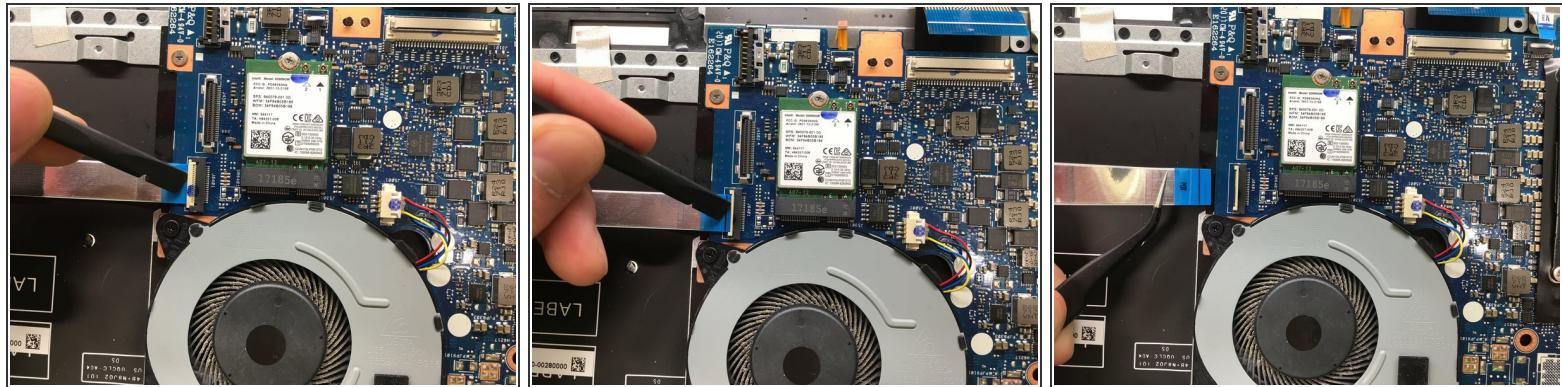
- Use the tip of a spudger to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use tweezers to remove the ribbon cable from the socket.

Step 16



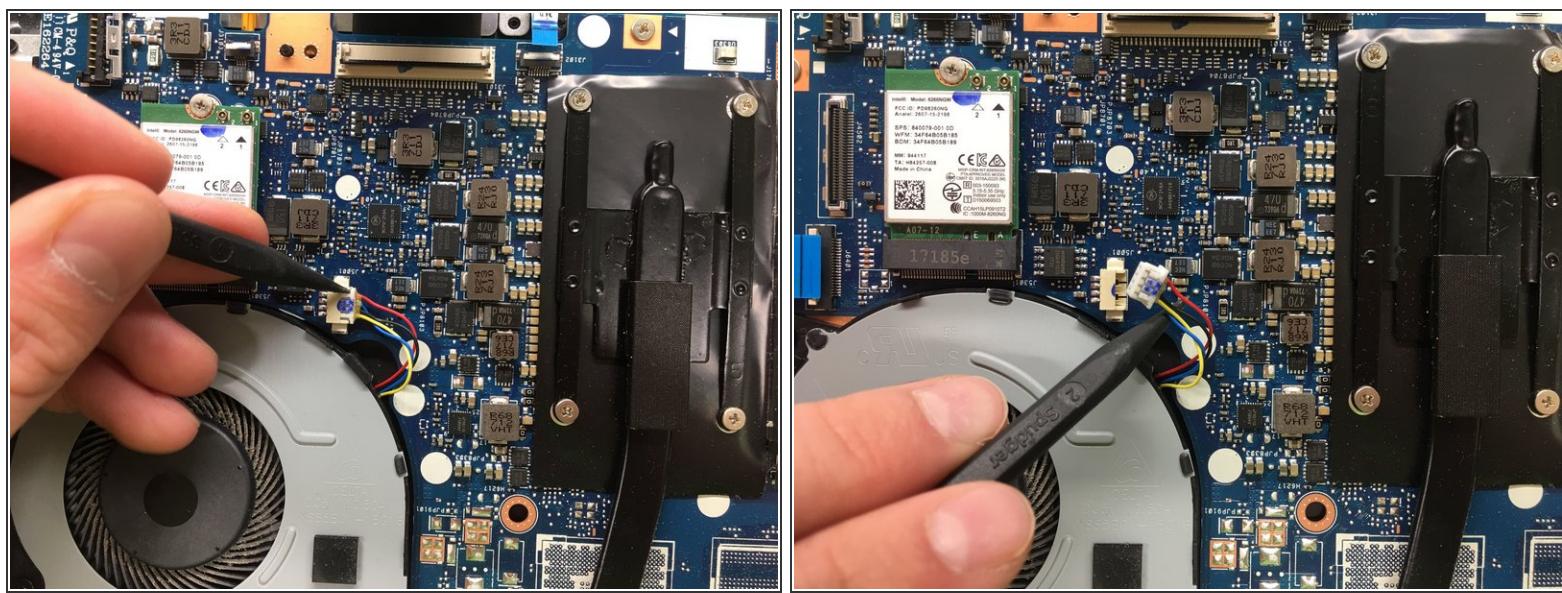
- Use a spudger to flip up the retaining flap on the ribbon cable ZIP socket.
⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use tweezers pull the ribbon cable out of the ZIF socket.

Step 17



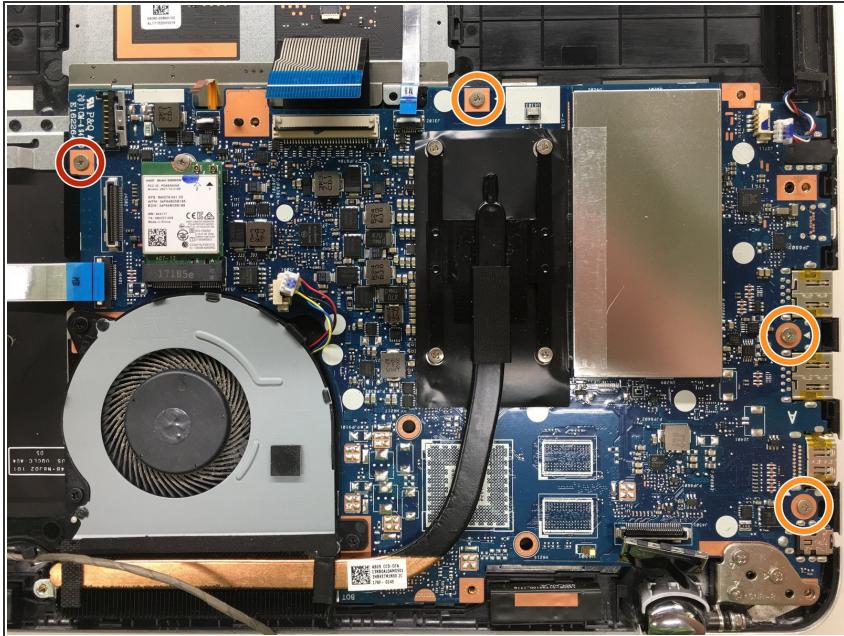
- Use the tip of a spudger to flip up the retaining flap on the daughterboard ribbon cable ZIF socket on the motherboard.
⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use tweezers to pull the ribbon cable away from the ZIF socket

Step 18



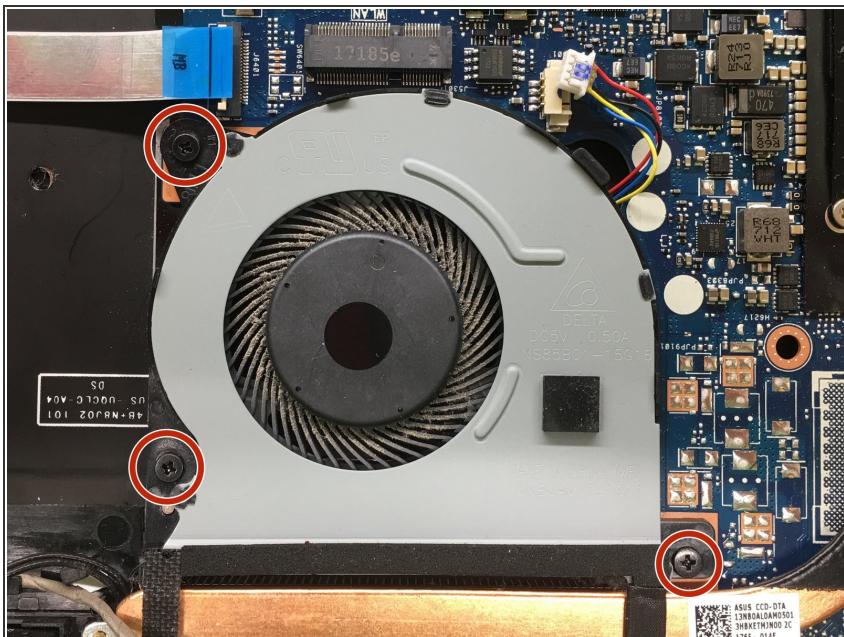
- Use the tip of spudger to push out the fan connector.
⚠ Do not pull up on the connector, only pull out so to not damage the connector.

Step 19



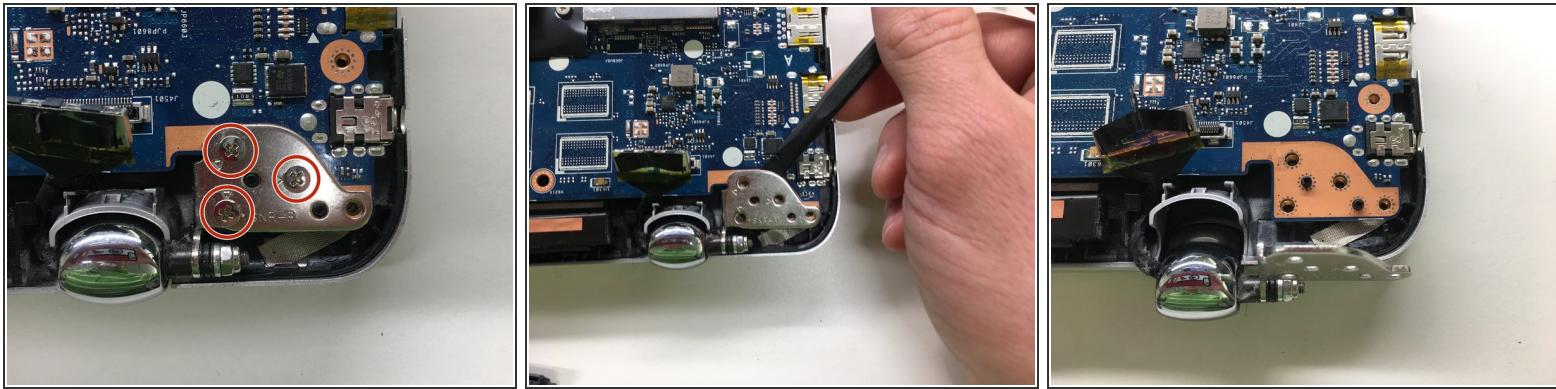
- Remove the four Phillips screws securing the logic board to the lower case assembly.
 - One 2.3 mm screw
 - Three 3.7 mm screws

Step 20



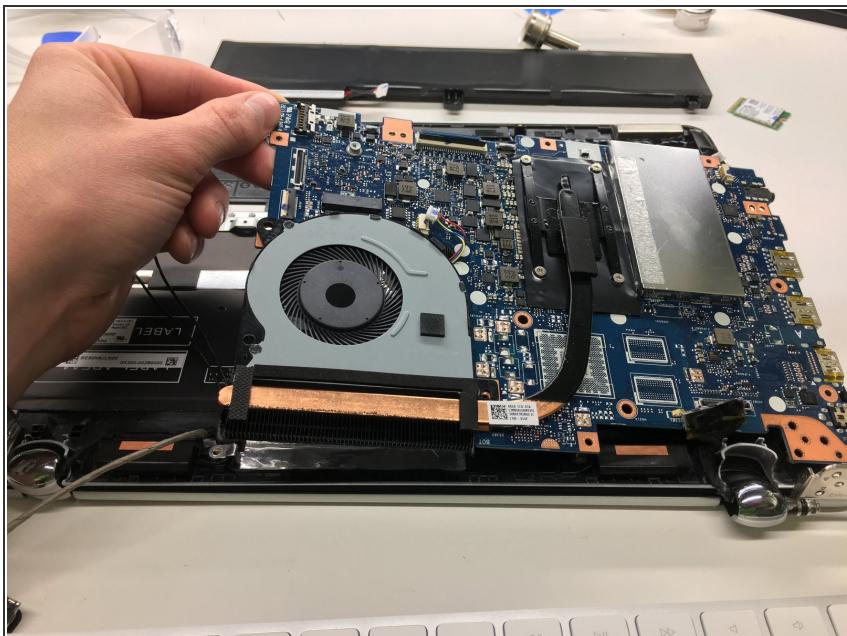
- Remove the three Phillips screws connecting the fan to the lower case assembly.
 - Three 4.6 mm screws

Step 21



- Remove the three Phillips screws securing the left hinge to the corner of the motherboard and lower case assembly.
 - Three 5.6 mm screws
- Take a plastic pry tool and open the hinge about 75°-85°
- *(i)* You may have to open the laptop over the edge of a table and open the display in order to open the hinge.

Step 22 — Remove Motherboard



- Pull up on the corner of the motherboard and remove from the laptop.
- *(i)* Be sure to clear all of the plastic standoffs that go through the motherboard.

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

****I am not responsible for any damages caused by any attempts at this repair. Use at your own risk.**