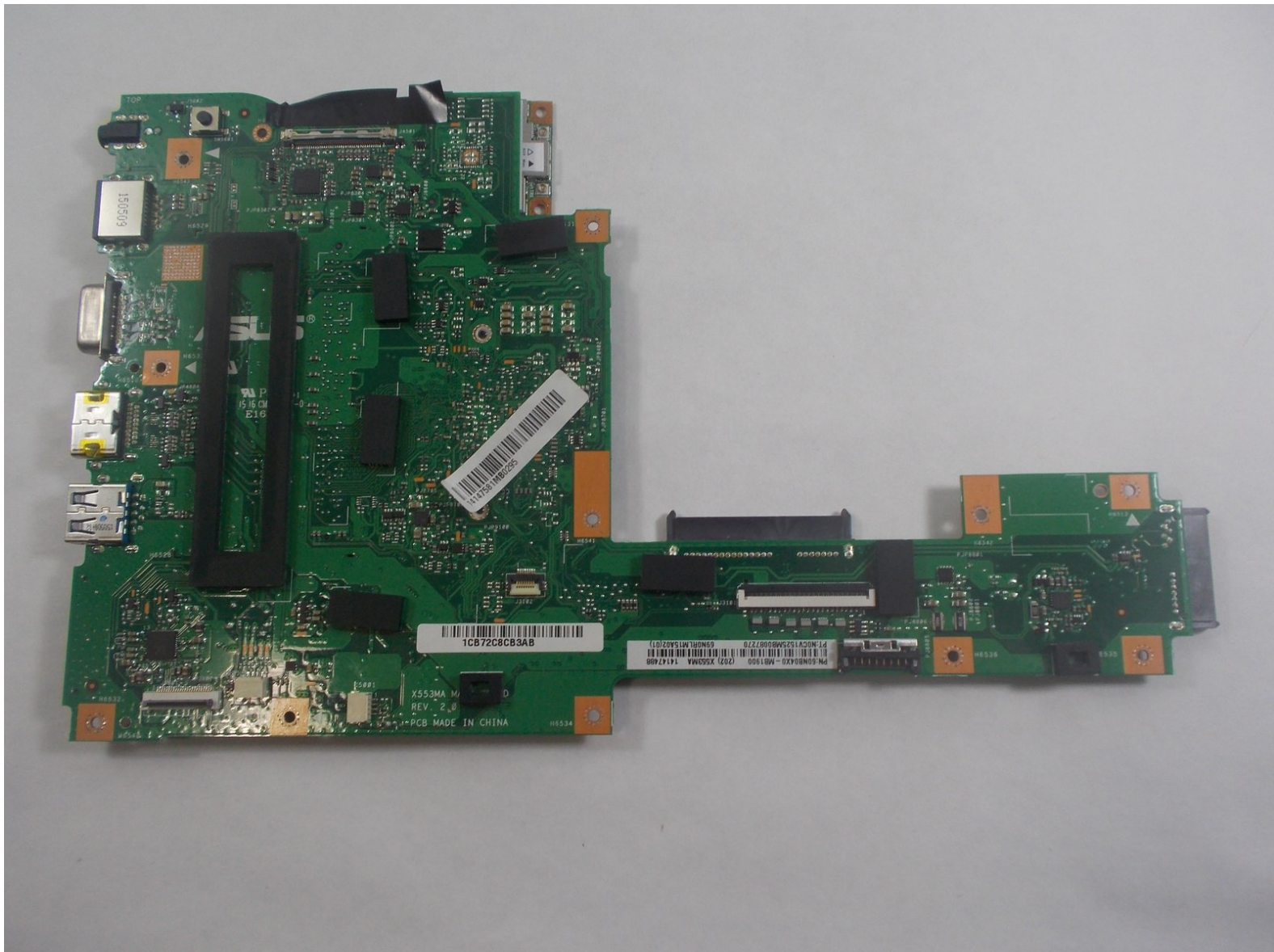




Asus X553MA-BPD07051 Motherboard Replacement

How to replace the motherboard in an Asus X553MA-BPD07051.

Written By: Stephanie DeCarvalho



INTRODUCTION

If your AsusX553MA-BPD07051 keeps giving you a Blue Screen of Death, then the issue is most likely with the RAM or the motherboard. Follow the troubleshooting instructions [here](#) in order to identify which piece of hardware is causing the problem. If you determine that the motherboard is the issue, then follow this guide to replace it. Remember to unplug your computer and disconnect the battery prior to working on it.

TOOLS:

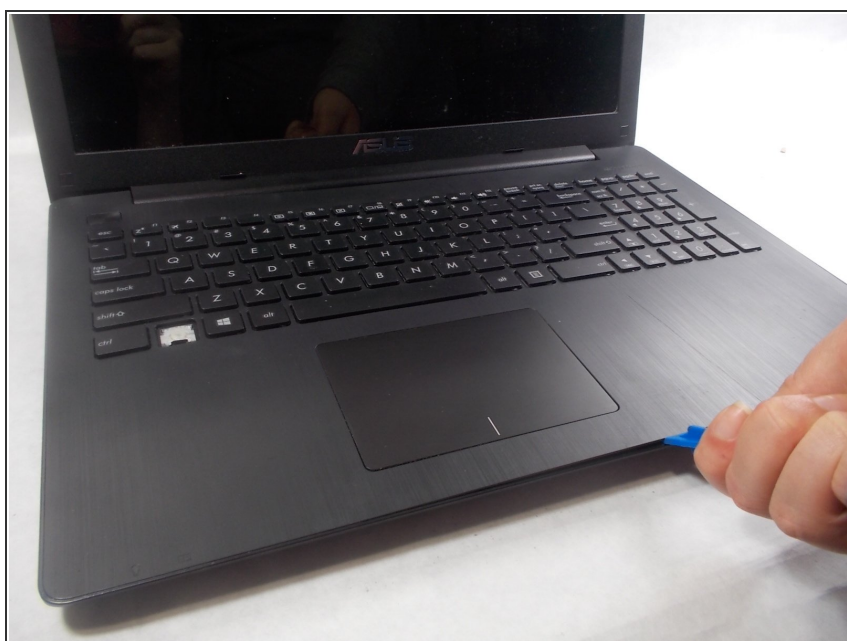
- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Magnetic Project Mat](#) (1)
 - [Tweezers](#) (1)
-

Step 1 — Battery




- Use a Phillips #0 screwdriver (PH0 bit) to remove the four 5.0 mm screws that are securing the bottom of the laptop.
- Use a Phillips #0 screwdriver (PH0 bit) to remove the six 11.0 mm screws that are securing the bottom of the laptop.

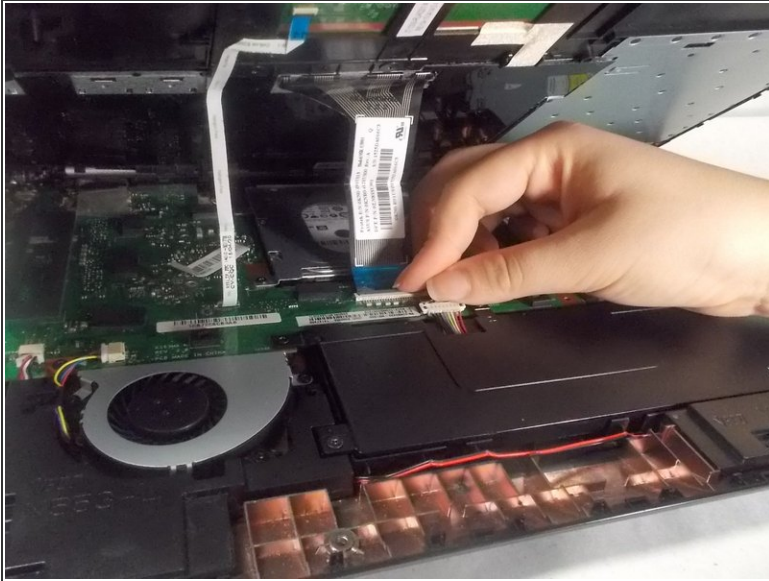
Step 2



- Lift the edges of the keyboard using the plastic iFixit opening tool and raise the keyboard slightly to see the inside of the laptop.

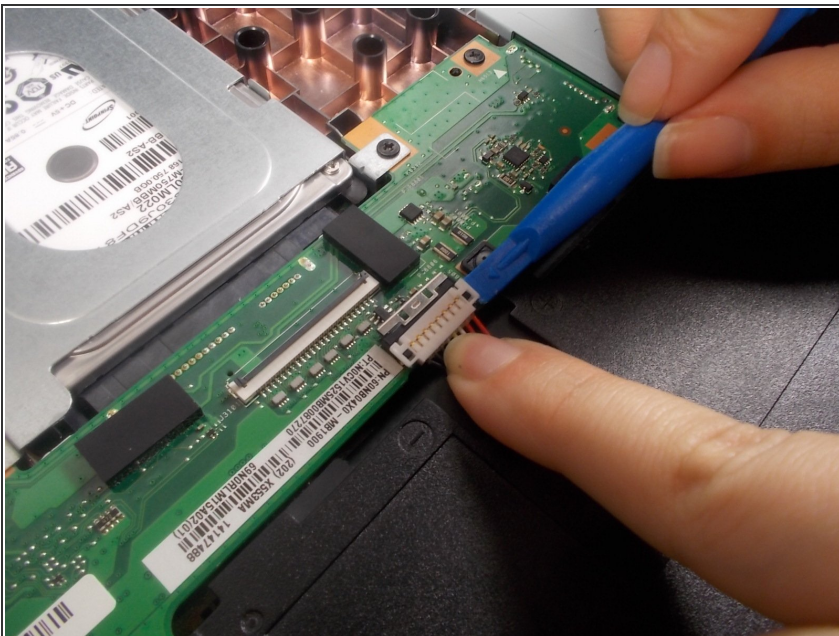
 Do not lift the keyboard too high as the keyboard is connected to the motherboard by two ribbon connectors that must be detached.

Step 3



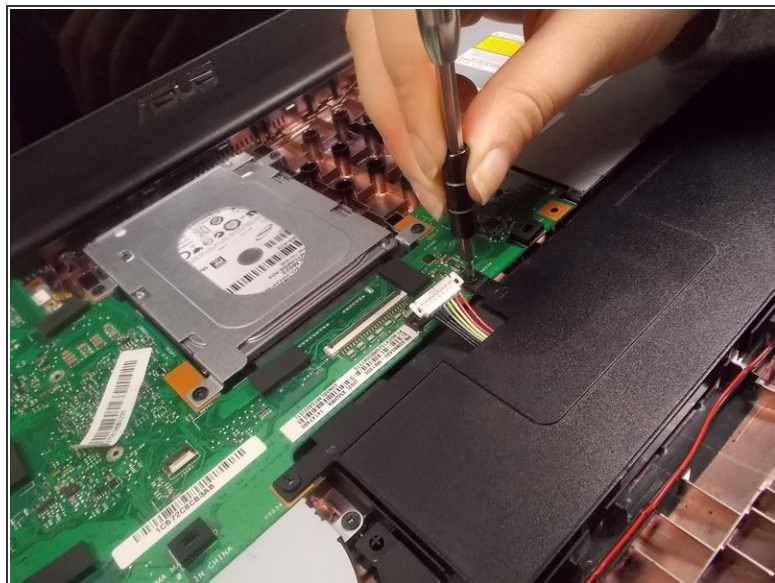
- Lift back the clip on the ribbon tape, and pull the tape out in order to remove the keyboard from the laptop.
- Remove both pieces of the ribbon tape connecting the keyboard to the motherboard.

Step 4



- Remove the bundled cable connector attaching the battery to the motherboard with the plastic iFixit opening tool.
- ⚠** Make sure that you do not remove the entire connector by applying too much force. Only the white plastic connector should be removed from the metal part on the motherboard.

Step 5



- Use Phillips #0 screwdriver (PH0 bit) to remove the four 6.0 mm screws attaching the battery to the laptop.

Step 6



- Lift the battery up and remove it completely from the laptop.

Step 7 — Hard Drive



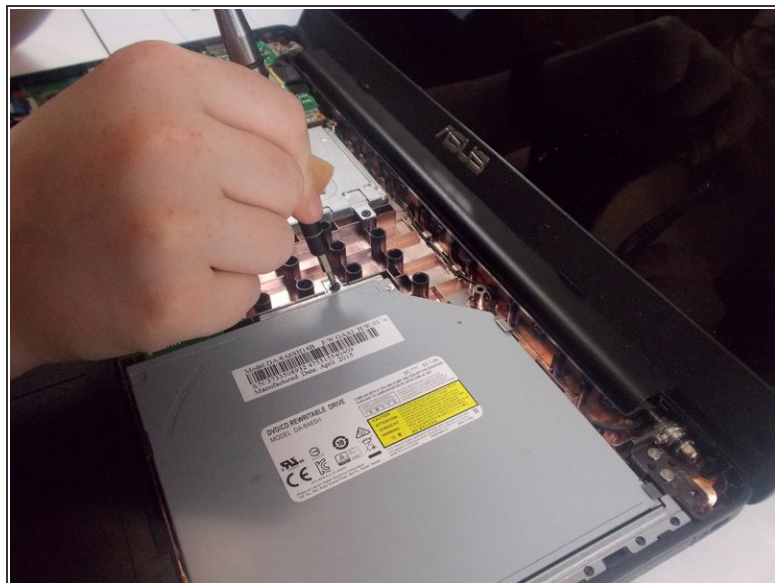
- Use a Phillips #0 screwdriver (PH0 bit) to remove the four 6.0 mm screws that are securing the hard drive.

Step 8



- Lift the hard drive up and pull it towards the screen so that it disconnects from the motherboard.
- ⚠ Use caution when disconnecting the hard drive from the motherboard, so that neither connector gets broken.

Step 9 — Optical Drive



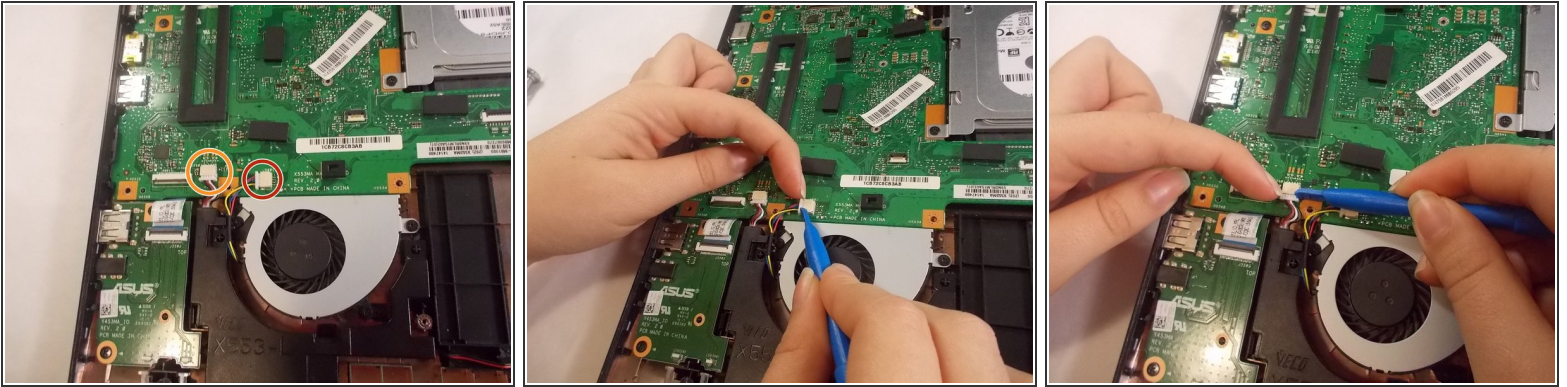
- Use a Phillips #0 screwdriver (PH0 bit) to remove the one 6.0 mm screw holding in the optical drive.

Step 10



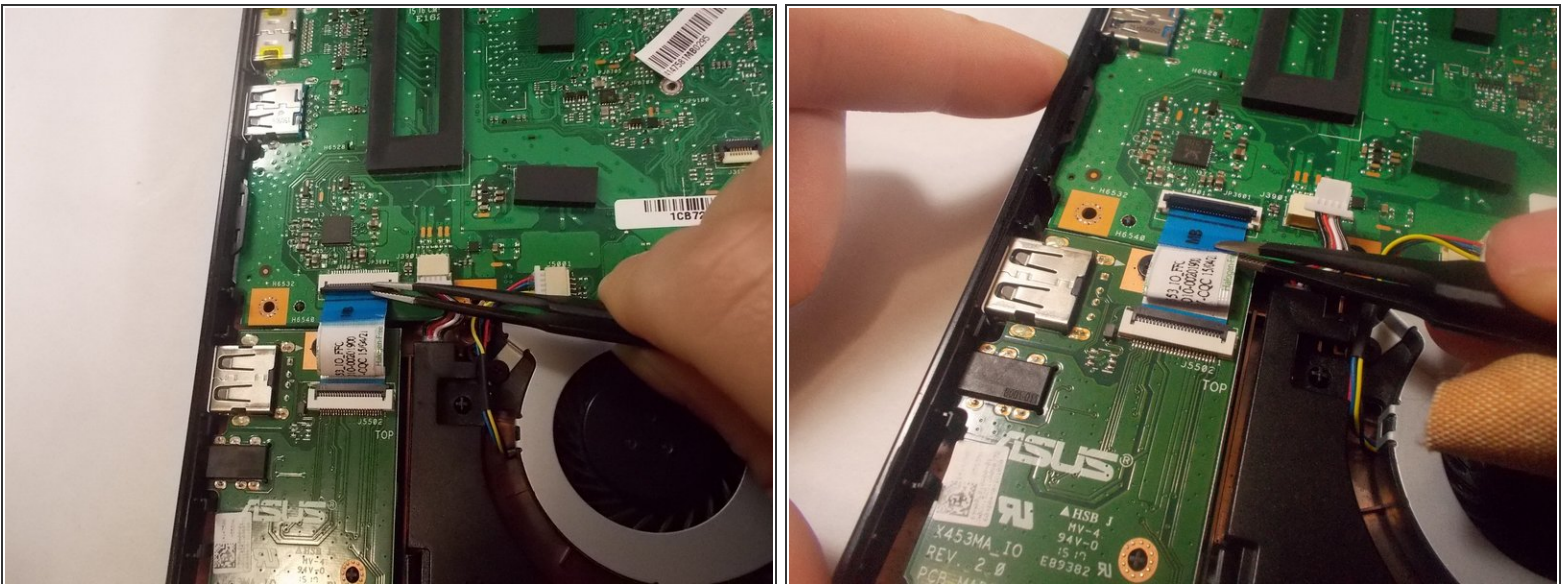
- Gently slide the optical drive out from the motherboard.

Step 11 — Motherboard



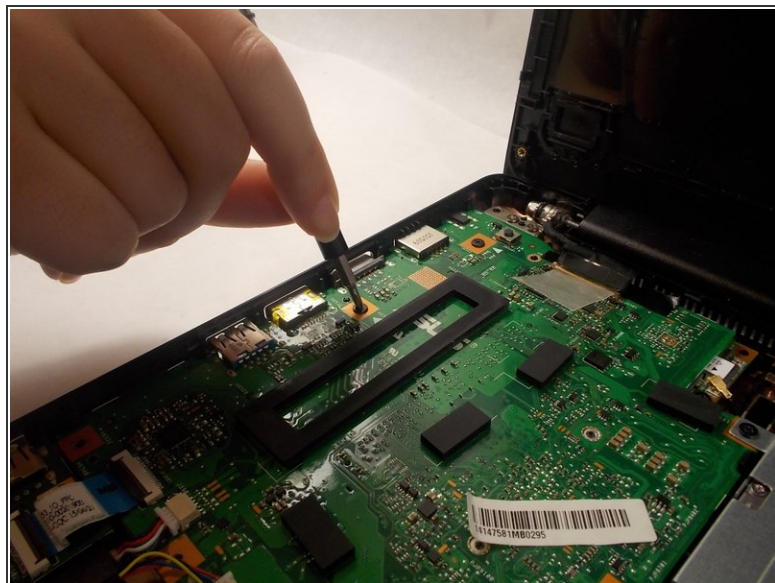
- Remove the bundled cable connector that connects the fan to the motherboard using the plastic iFixit opening tool.
- Remove the bundled cable connector that attaches the audio to the motherboard with the plastic iFixit opening tool.

Step 12



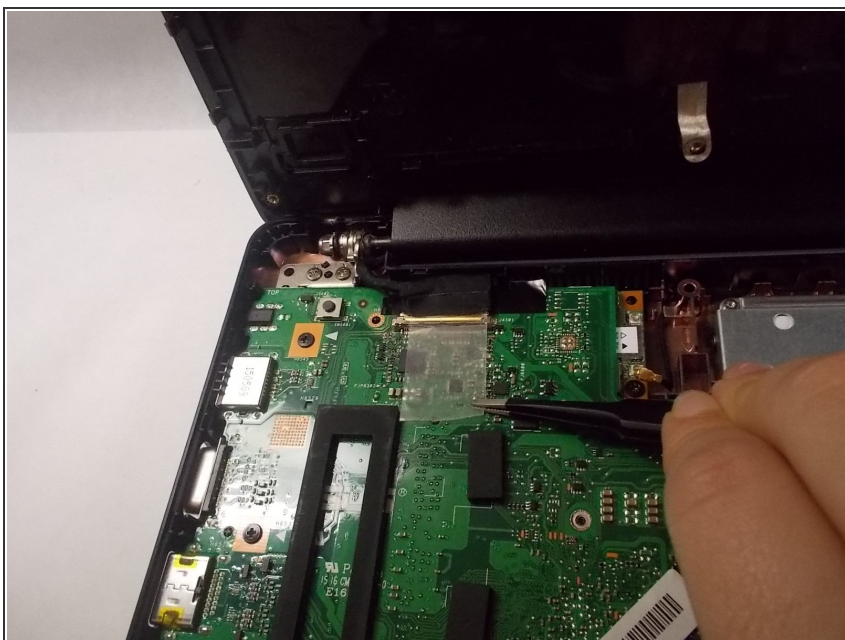
- Lift the metal clip holding the ZIF connector ribbon down.
- Pull the ribbon out from the connector, away from the motherboard.

Step 13



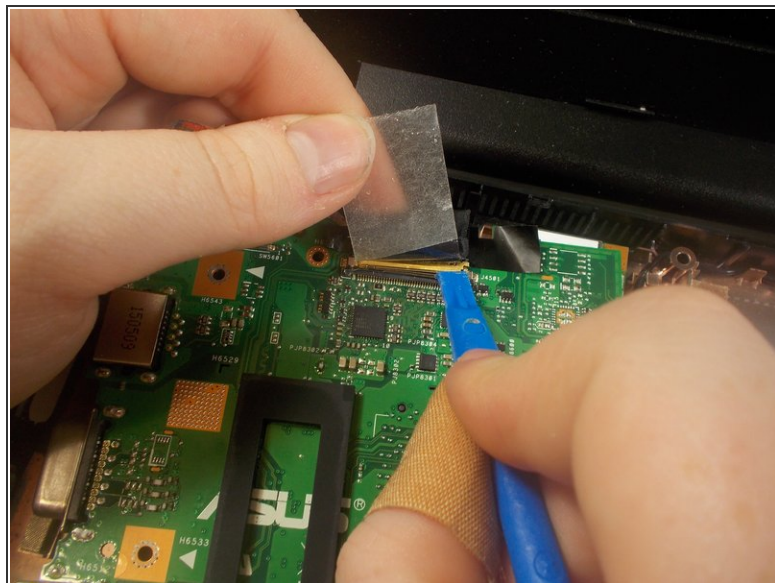
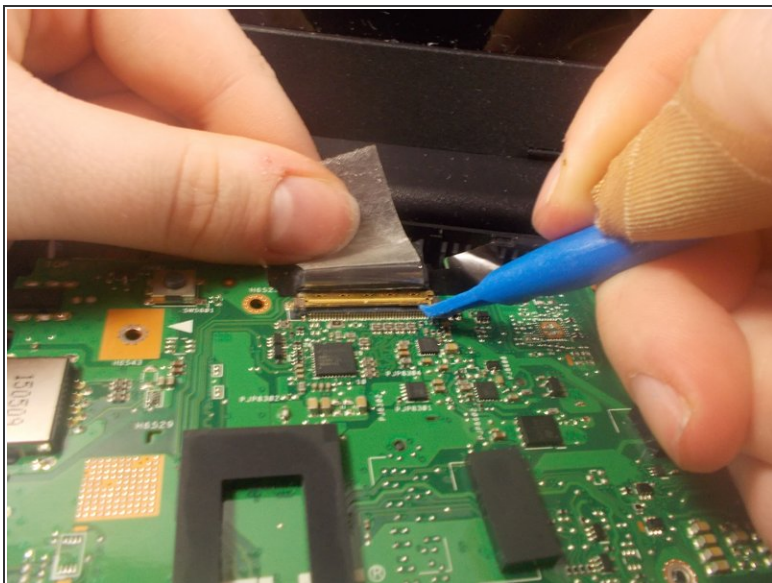
- Use a Phillips #0 screwdriver (PH0 bit) to remove the five 6.0 mm screws attaching the motherboard to the base of the laptop.

Step 14



- Remove the tape from the motherboard.

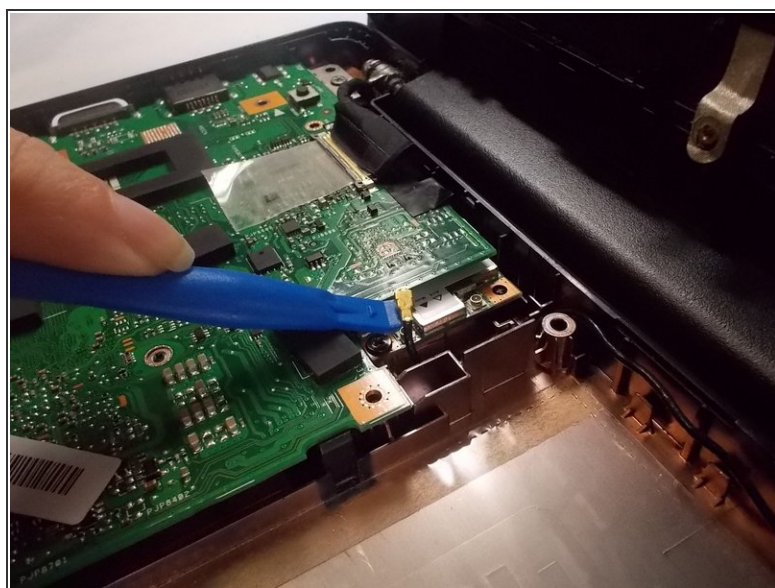
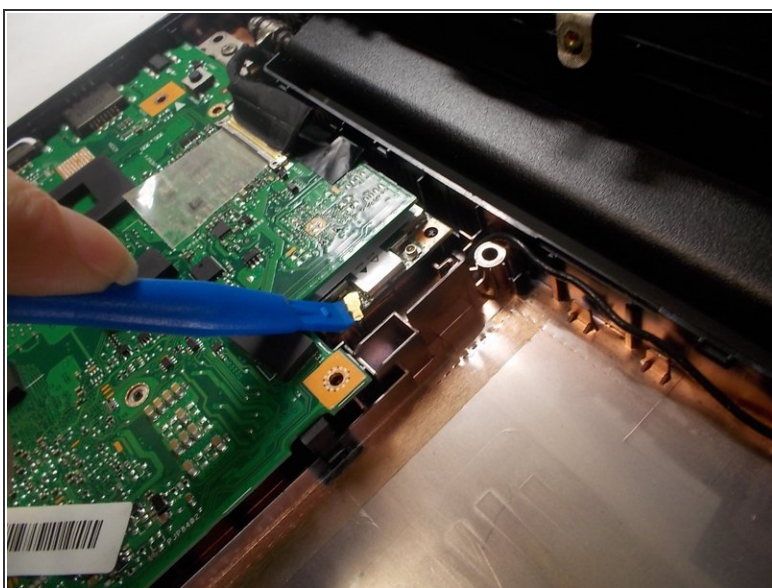
Step 15



- Lift the metal clips holding the ZIF connector down.
- Push the gold metal connector away from the motherboard.

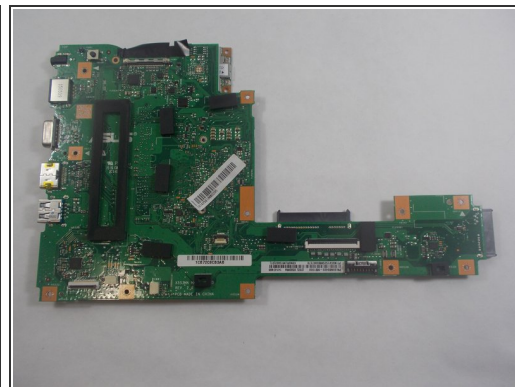
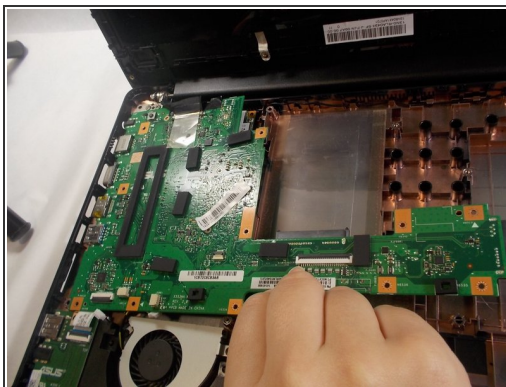
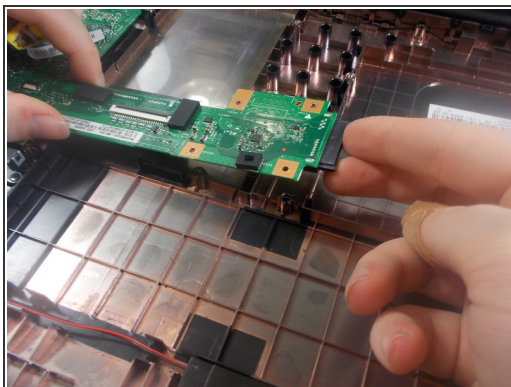
⚠ Be careful not to break the connector.

Step 16



- Lift the coaxial connector from the wifi chip with the plastic iFixit opening tool.

Step 17



- Lift the motherboard to remove it fully.

⚠ Do not pull too hard, the motherboard should come off easily once it has been separated from the base of the laptop.

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