



# Asus X502C-RB01 Motherboard Replacement

This guide will detail how to replace the laptop's motherboard.

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## INTRODUCTION

If your motherboard needs to be replaced or repaired, or need to get into other parts of the laptop, this guide will show you how to dismantle the motherboard.

### TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Spudger](#) (1)

## Step 1 — Keyboard Panel



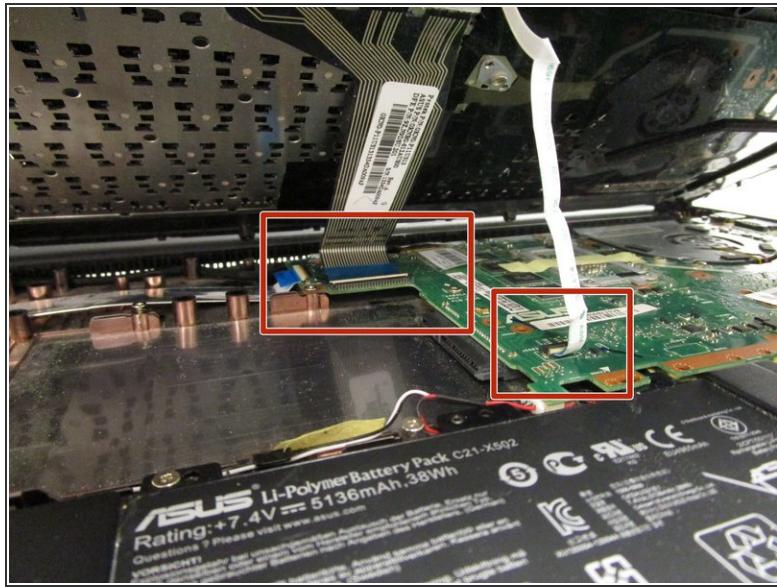
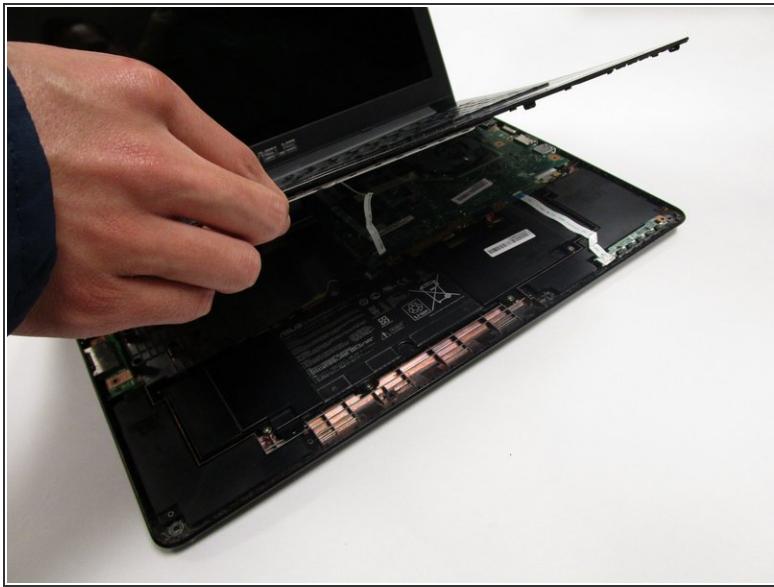
- Turn off the laptop and flip it face down.
- Using a Phillips #0 screwdriver, remove the seven 9mm screws circled in red.
- With the same screwdriver, remove the four 5mm screws circled in orange.

## Step 2



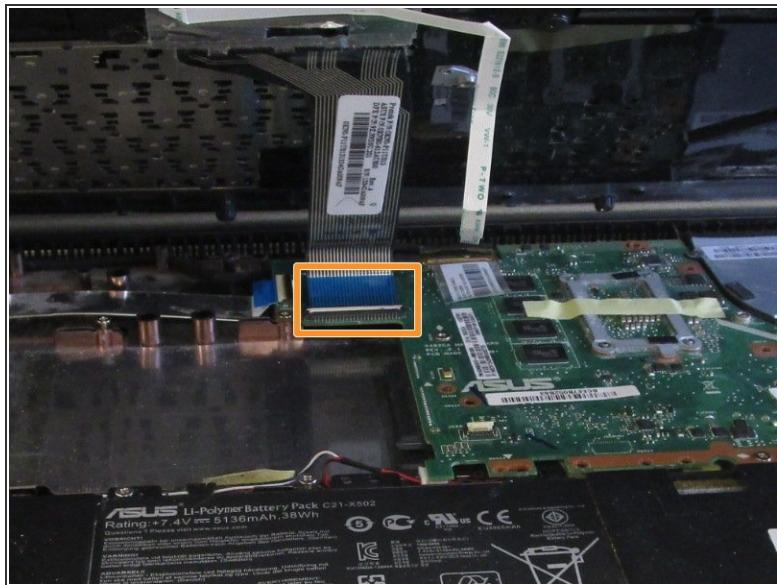
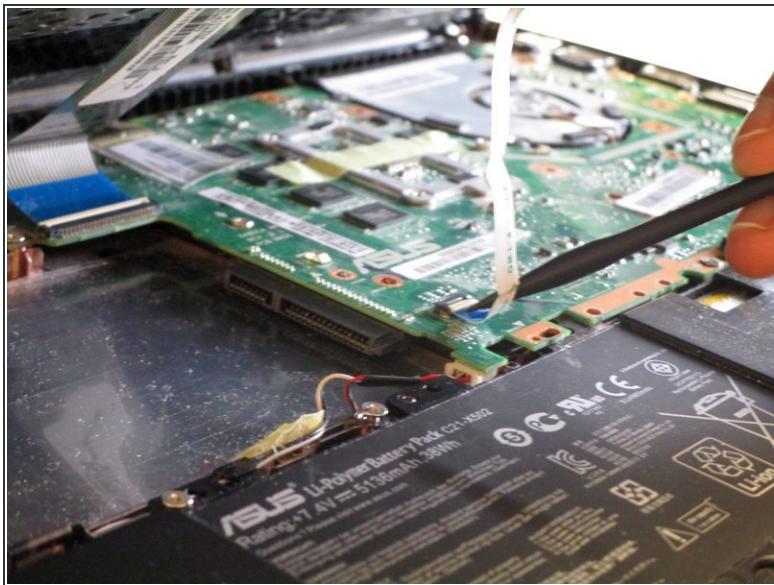
- Flip the laptop face up and open the lid.
  - Use the plastic opening tool to pry around the entire edge of the keyboard panel to loosen the panel from the base.
- ⚠** Be careful not to lift the panel just yet, as it is still connected to the motherboard.

## Step 3



- Partially lift the panel up, revealing the two cables connected to the motherboard.

## Step 4



- Disconnect the first ZIF cable by lifting the tab using the spudger tool or your fingernail and gently pull the cable out.
- Disconnect the second ZIF cable by lifting the tab using your fingernail and gently pull the cable out. This one is more difficult to reach with the spudger.

## Step 5



- Remove the keyboard panel completely and set it aside. The internal components of the laptop are now exposed.

## Step 6 — Hard Drive



- Locate the hard drive in the area highlighted in red.
- i** This demonstration model does not have a mounting bracket around the hard drive.

## Step 7



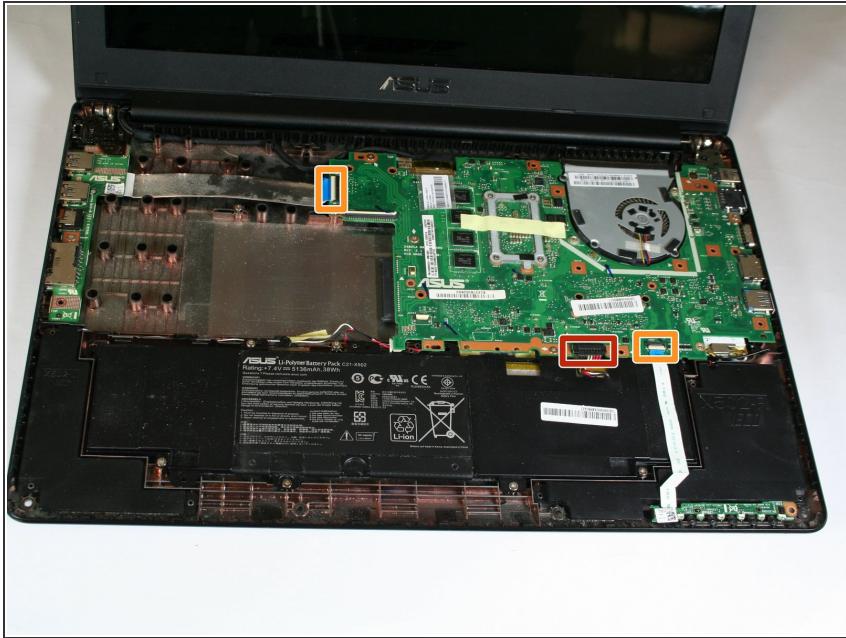
- Remove the four 5mm screws from the hard drive mounting bracket using the Phillips #0 screwdriver.

## Step 8



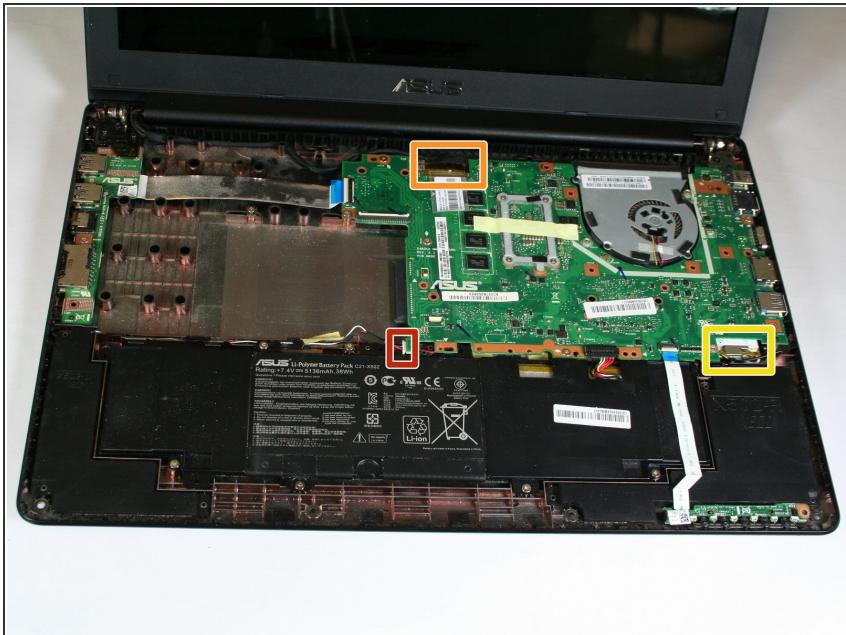
- Slide the hard drive in the direction away from the connector and lift it up to remove it.

## Step 9 — Motherboard



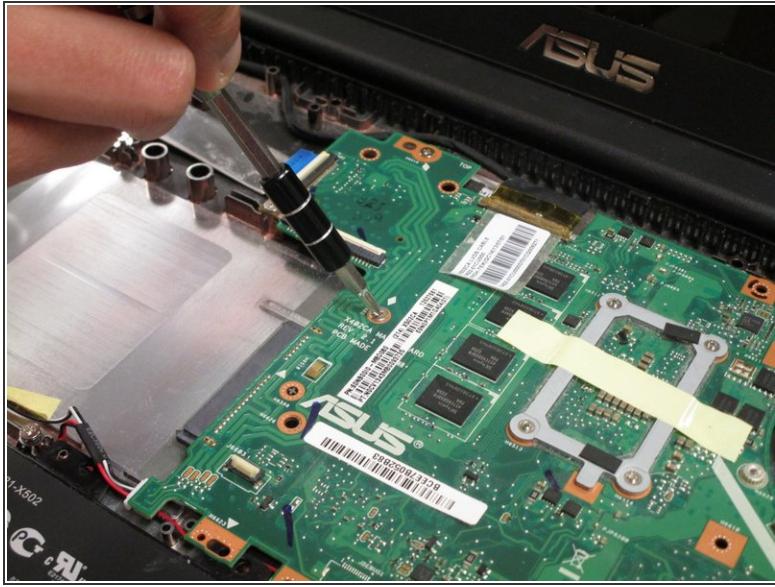
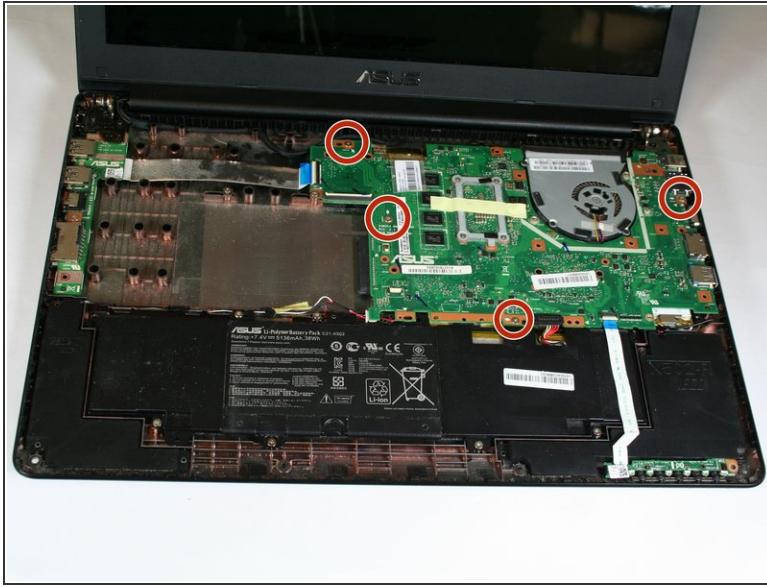
- Unplug the battery from the laptop by lifting the connector up with the flat end of the spudger.
- Unplug the two ZIF cables by lifting the tab using the spudger tool or your fingernail then pulling the cable out gently.

## Step 10



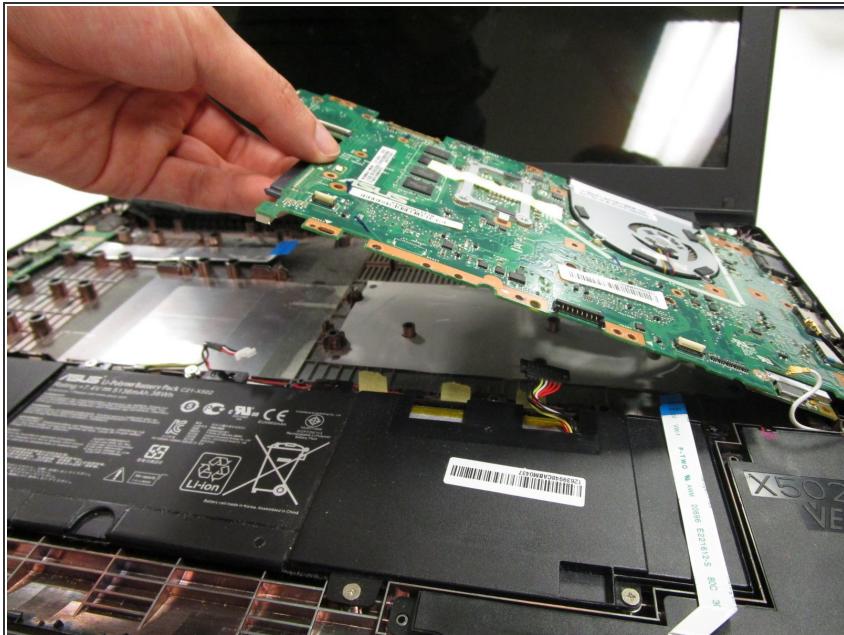
- Unplug the bundled cable by pulling it away from the connector with a bit of force.
- Unplug the display cable connector by lifting the tape and pulling it away from the connector.
- Unplug the two antenna cables connected to the network interface card by prying it off with the flat end of the spudger.

## Step 11



- Remove the four 5.5mm screws using the Phillips #0 screwdriver.

## Step 12



- Gently lift the motherboard out of the casing.

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