



# Fujitsu T902 Teardown

Disassembling the Fujitsu T902 to motherboard extraction.

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 **TOOLS:**

- [Phillips #1 Screwdriver](#) (1)
  - [Spudger](#) (1)
  - [Anti-Static Wrist Strap](#) (1)
  - [iFixit Opening Tools](#) (1)
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## Step 1 — Fujitsu T902 Teardown



 Power off.

- Remove battery by pushing down the latch lock and sliding the latch to the left as shown.
- With your finger nail pry the battery off at the indent for the latch lock.

## Step 2



- With battery removed take out the fan dust catcher (indicated by the red rectangle).
- Using PH1 Philips screwdriver bit (indicated in third picture) remove the screws identified by the red circles.
- Remove the RAM, fan, and hard drive covers.
- Remove the hard drive. Now everything should look like picture two.

## Step 3



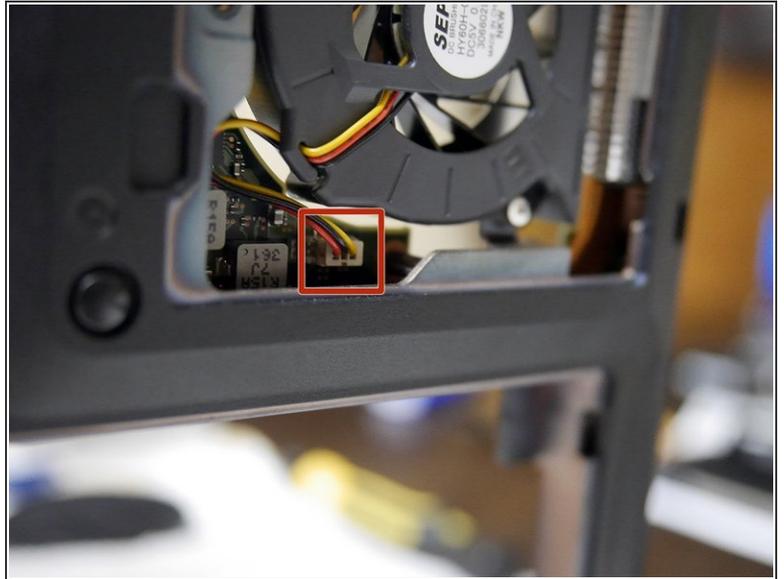
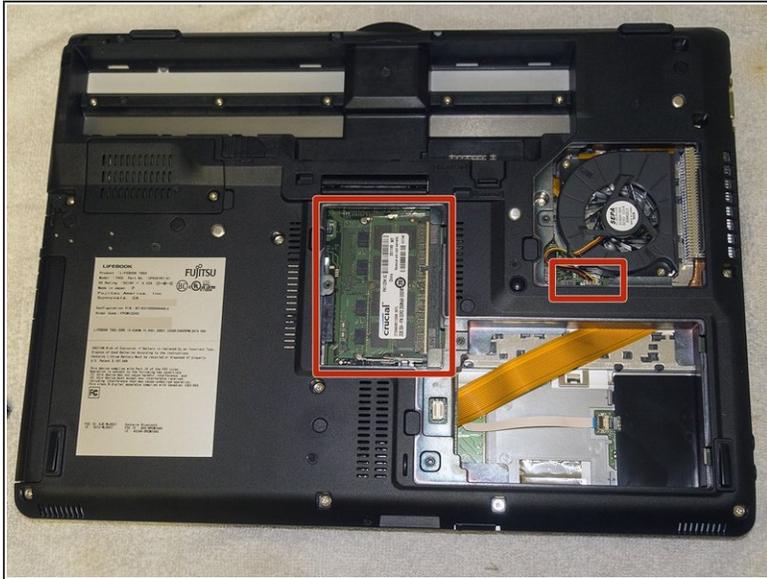
- Remove expansion bay device. (battery, disk drive, weight saver)
- Remove stylus pen.

## Step 4



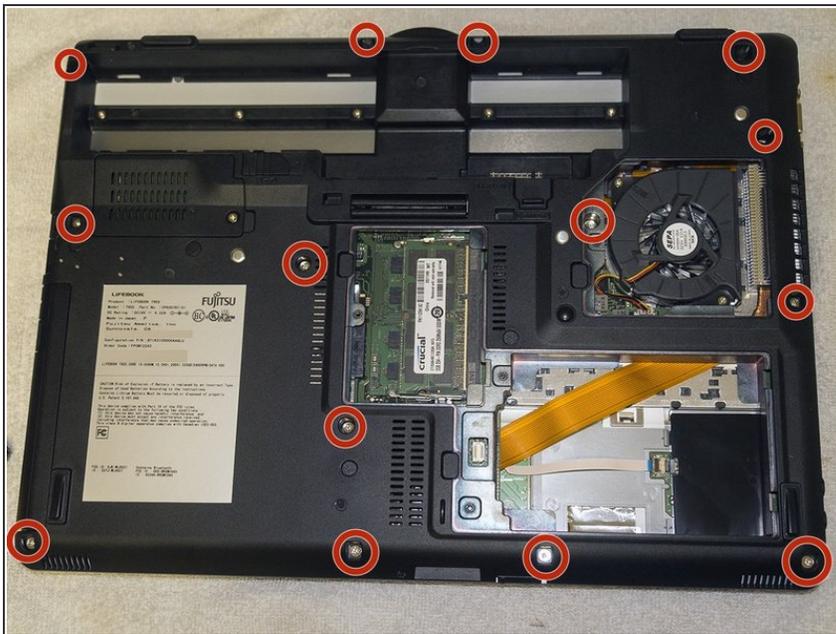
- Using PH1 bit remove the five indicated screws in the battery well.
- ⓘ All screws in this step are the same size and length.

## Step 5



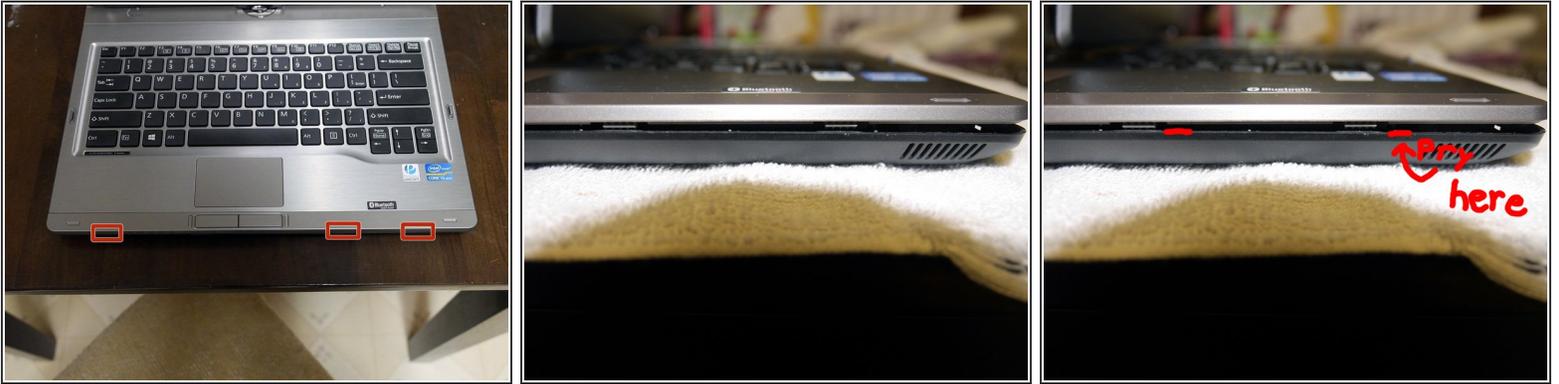
- Remove RAM.
- Unplug system fan. (also indicated in picture two)

## Step 6



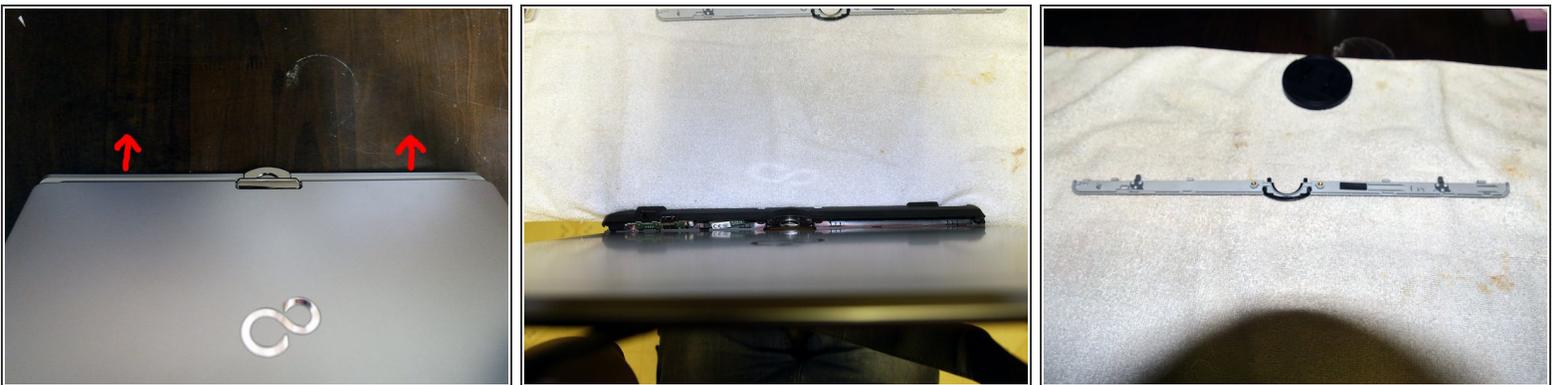
- Using PH1 bit remove the 14 indicated screws on the base of the laptop, indicated by picture three.
- ⓘ All screws in this step are the same size and length.

## Step 7



- Next we are going to remove the keyboard top, this gives access to the inside of the laptop.
- There are three tabs on the keyboard cover that keep it attached. (indicated by picture one)
- Picture two you can see them disconnected, using a finger nail or electronic case opener gently release the tab by applying outward force on the black plastic part of the case.

## Step 8



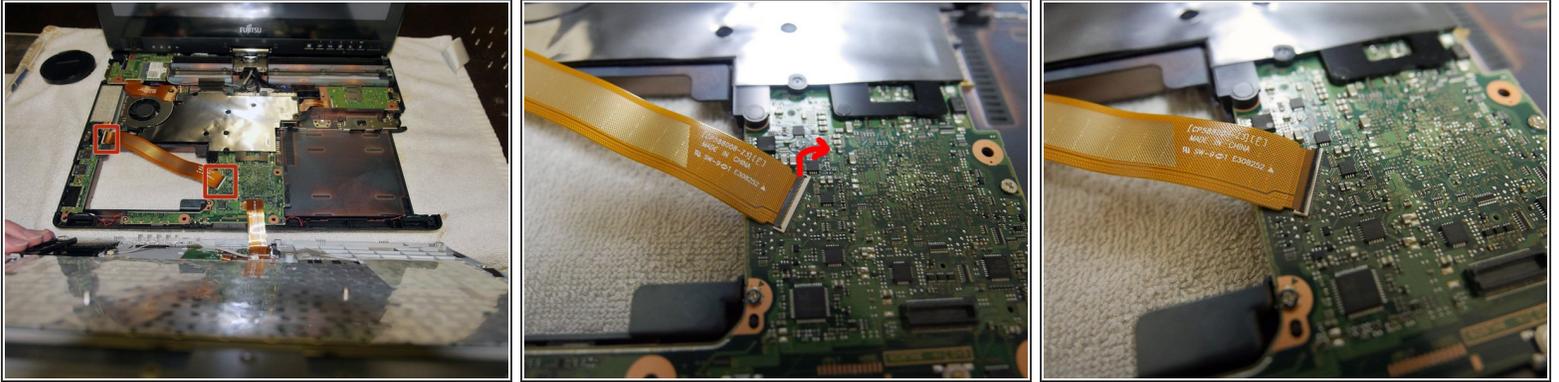
- After unlatching the three tabs from the last step you should be able to remove the keyboard trim underneath the screen.
- Apply gentle force around the edges to unhook any tabs and it should come right out.

## Step 9



- With the tabs unlatched and the keyboard trim removed you should be able to easily pivot the keyboard cover as shown.
  - ⚠ Be careful not to pull on the data cable still tethered to the motherboard.
- Using a fingernail or spudger disconnect the trackpad/keyboard data cable, then set aside the keyboard cover.
  - ℹ Same connector style as the HDD cable.

## Step 10



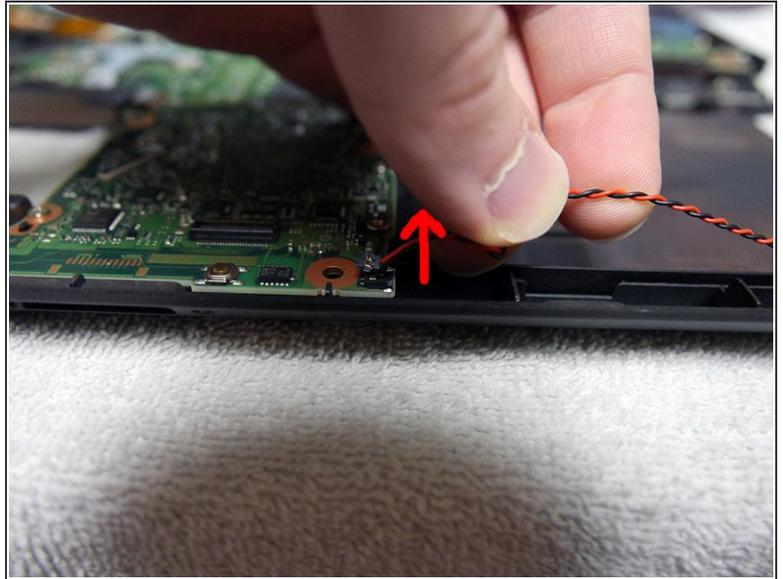
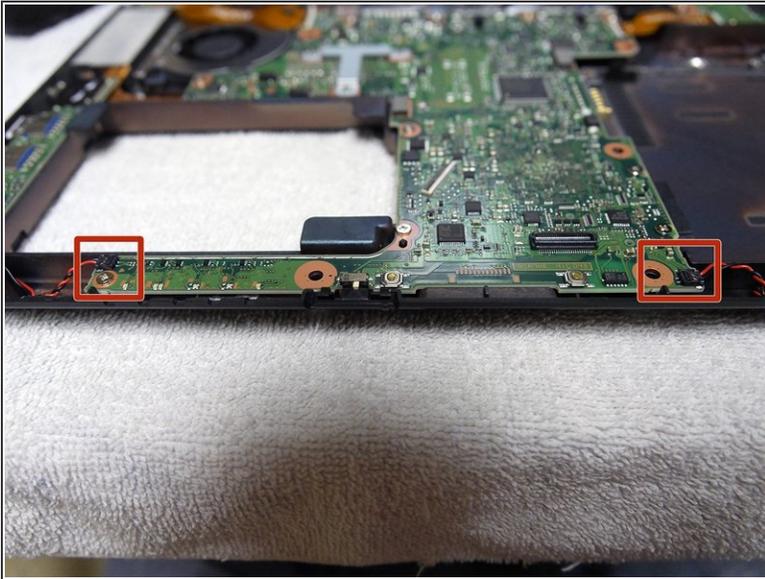
- Remove the data ribbon cable indicated.
- Very gently using a fingernail or small spudger lift up on the dark plastic part of the ZIF connectors. (illustrated in pictures two and three)
- After unlatching both locks you can lift up on the cable and set it to the side.

## Step 11



- Next we are removing the EMI shield attached to the motherboard.
- Shown in picture two if you release this one tab the cover pivots right off.

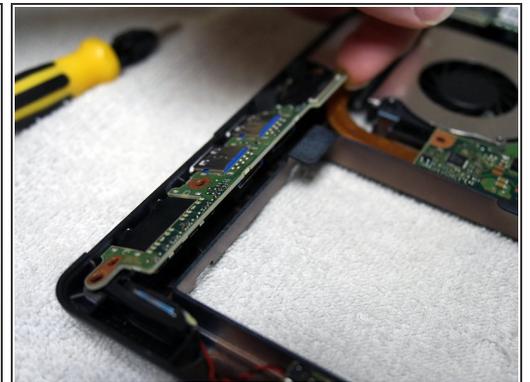
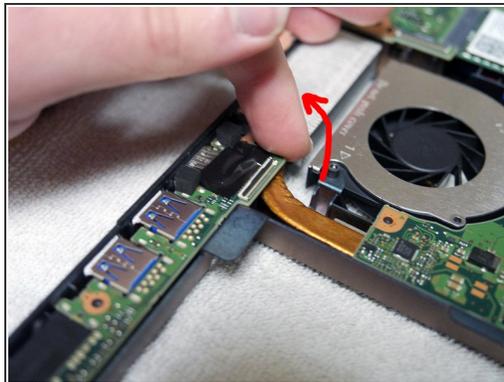
## Step 12



- Disconnect the speakers.

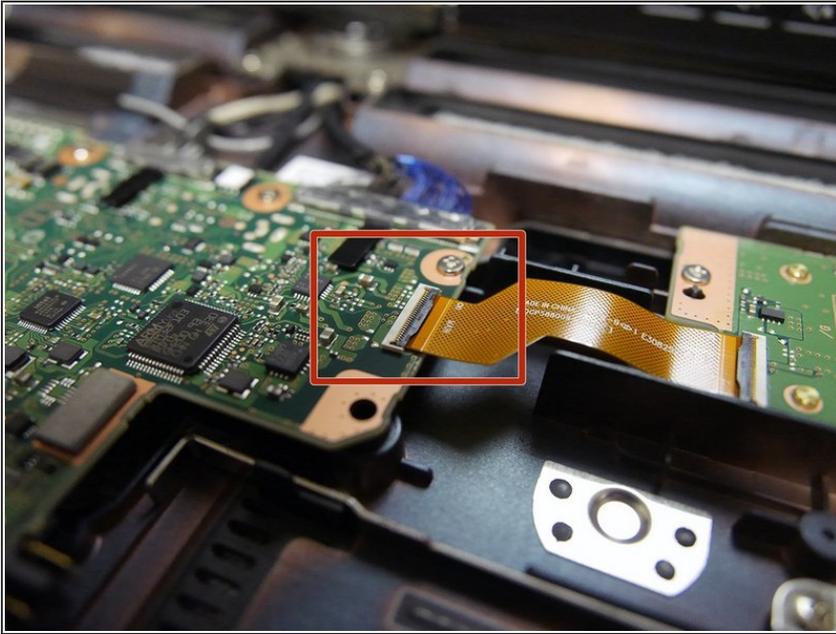
⚠ This is a different connector than I've seen before, on these you lift up vertically as indicated in picture two.

## Step 13



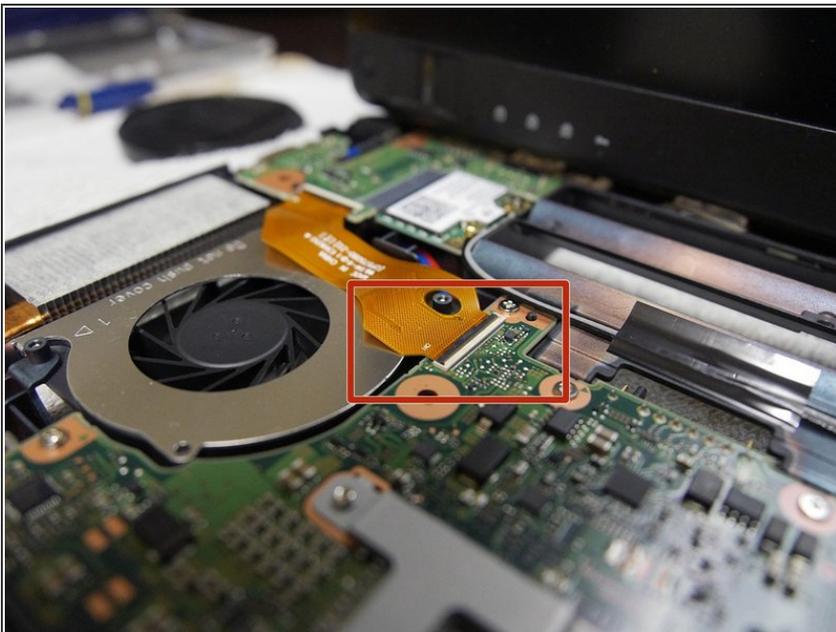
- Next we are removing the USB and audio board. The blue circle is indicated where the only screw is, use your trust PH1 bit.
- Use a fingernail or spudger to lift up the board as shown before pulling it out.

## Step 14



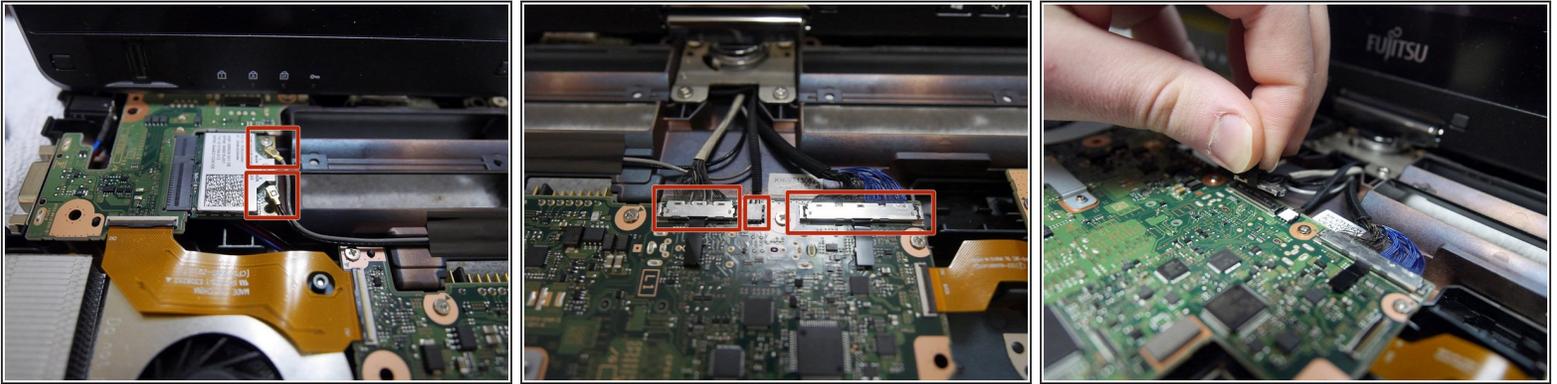
- Disconnect the indicated side of the ribbon data cable.
- ⓘ Same connector as step 10.

## Step 15



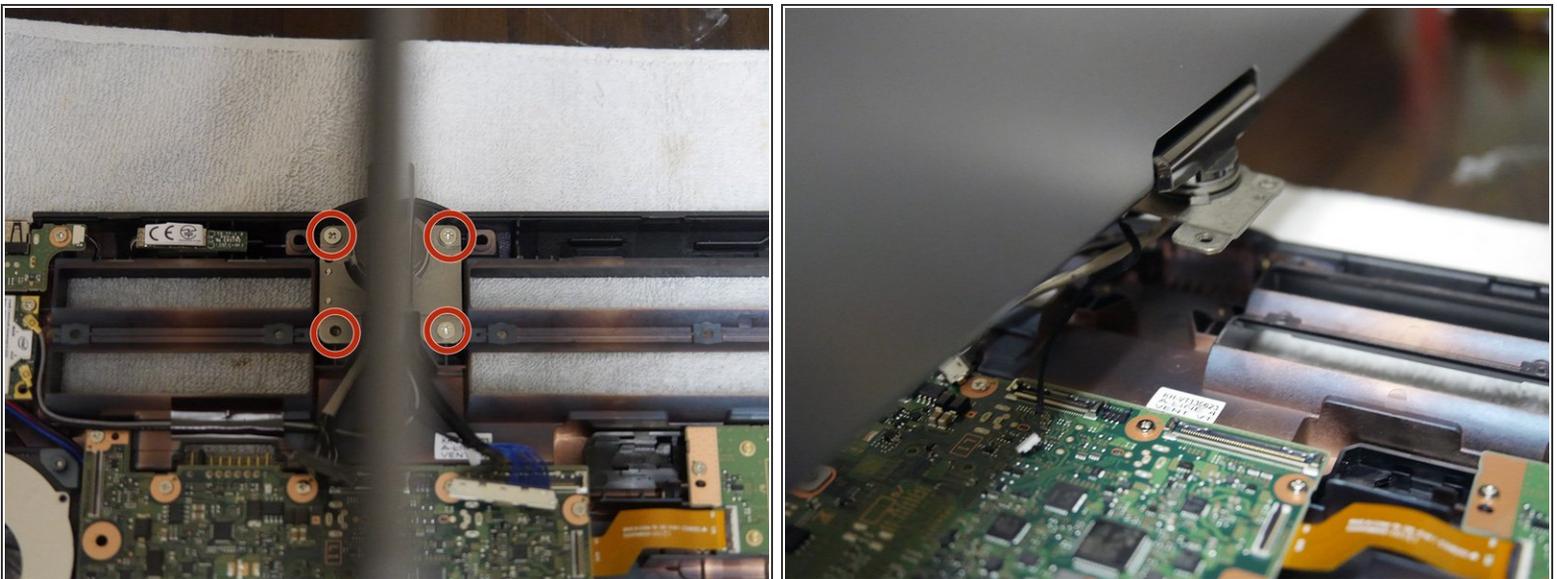
- Disconnect the indicated side of the ribbon data cable.
- ⓘ Same kind of connector as step 10 & 14.

## Step 16 — Next we prepare to remove the display.



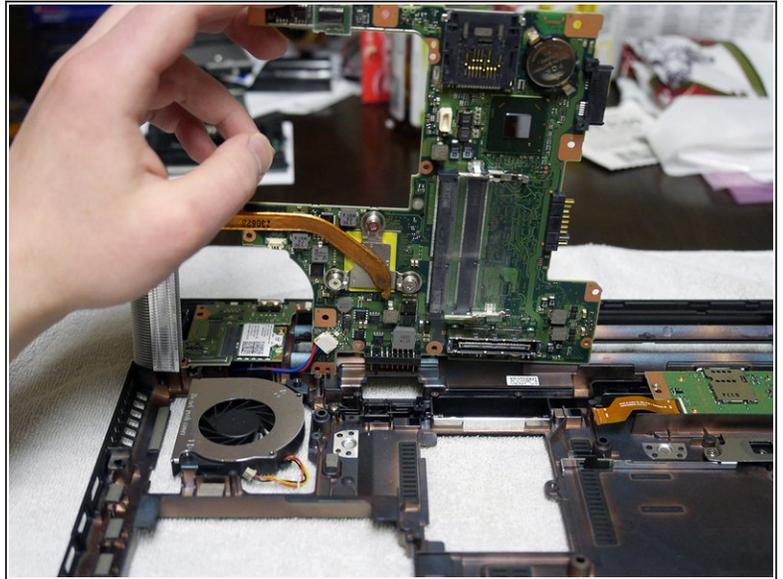
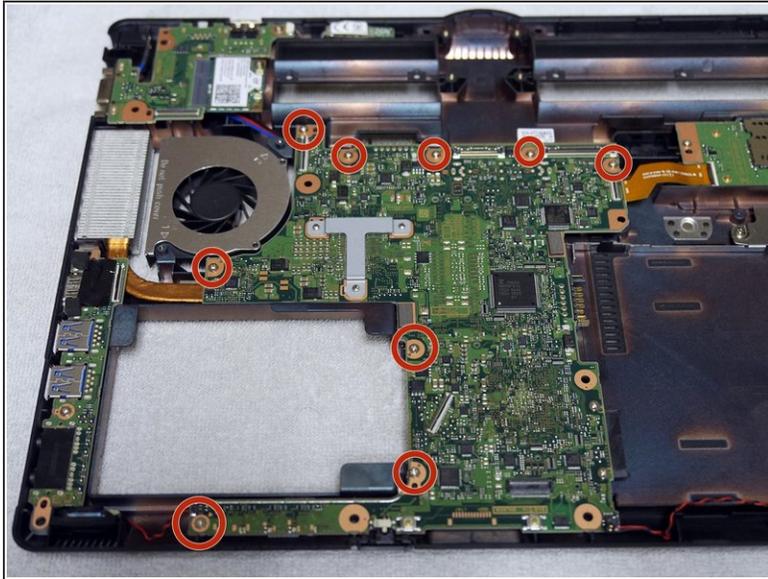
- Remove the wifi antennas. (picture one)
- Remove the display, touch, and backlight connectors from the motherboard as indicated in pictures two and three.

## Step 17



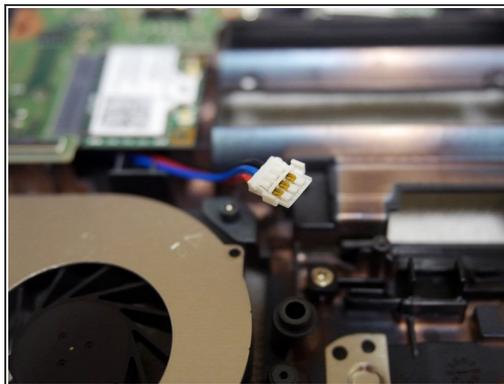
- After disconnecting the display connections we are ready to unscrew the display mount screws.
  - Use the trusty PH1 bit to take out the 4 screws indicated in picture one.
- You can now lift out the display assembly, 2 antennas and 3 cables will be attached to it. Set it aside.

## Step 18 — Now it's time to remove the motherboard.



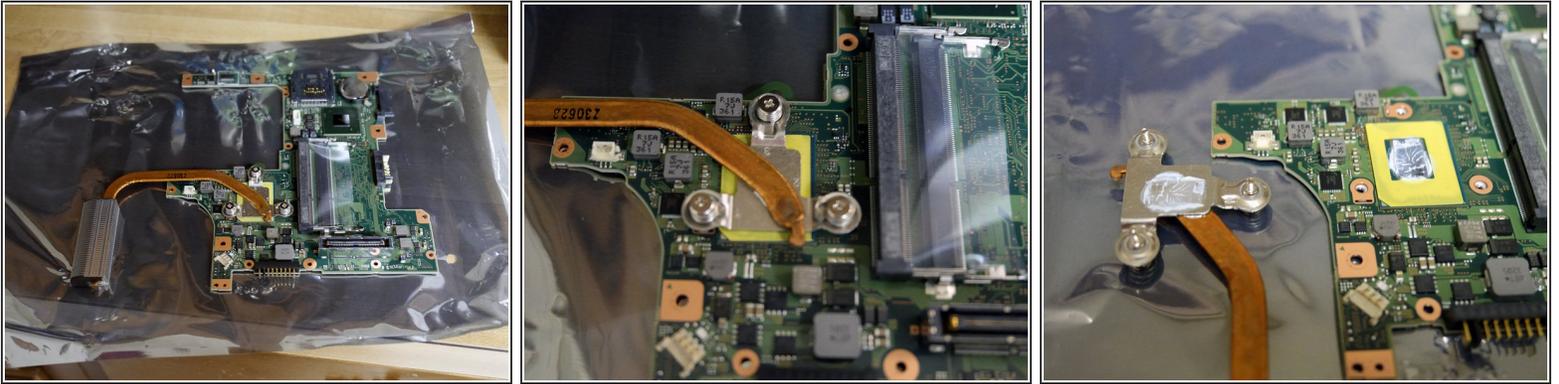
- Remove the 9 screws indicated in picture 1 with PH1 bit.
- Pivot the motherboard up from the front as indicated in picture 2.

## Step 19



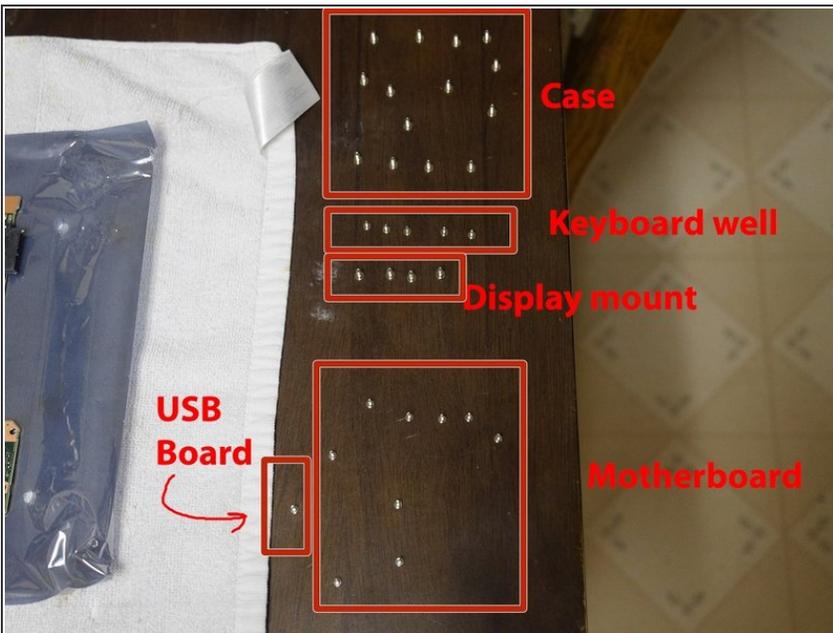
- Next we must disconnect the power plug from the motherboard before we can remove it.
  - ⓘ This connector is the same style as from step 12.
  - Now you can remove the motherboard and set it aside on an anti-static bag or surface.
  - ⚠ The motherboard is very sensitive so handle it with care by only touching the edges of the board and make sure you are properly grounded to ensure no ESD occurs.

## Step 20 — Let's have a look at the motherboard.



- Heatsink is very inadequate, which is why this laptop gets noticeably high temperatures.
- ⓘ Board appears to be well designed and made to the highest of quality standards.
- ★ Thermal paste appears to be gooped on but applying an alternative had no significant advantages.

## Step 21



- ⓘ All the screws categorized.
- Correction: **Battery well** *not* keyboard well.

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