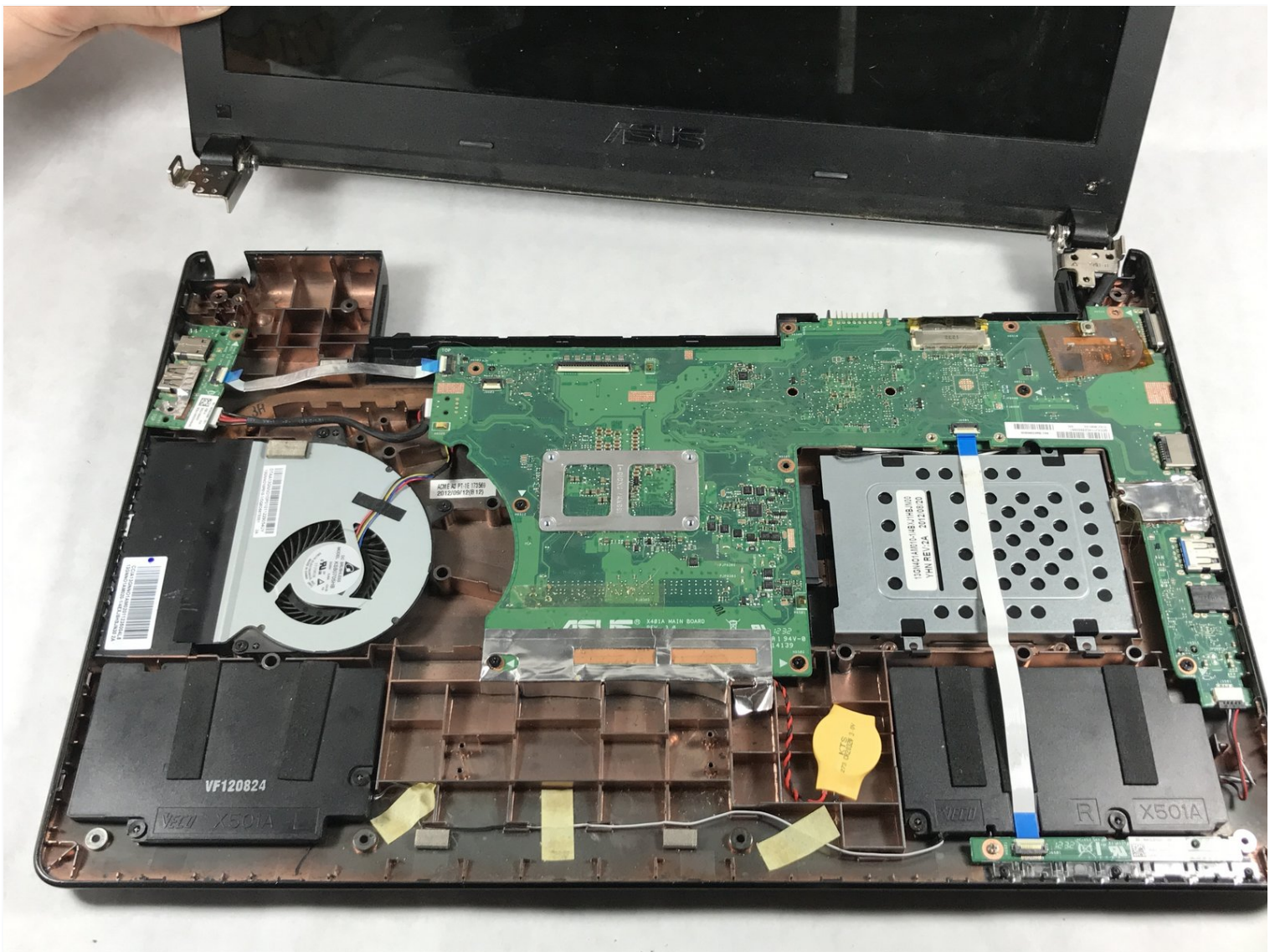




# Asus X501A-RH31 Hinges Replacement

This guide will demonstrate how to successfully...

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# INTRODUCTION

This guide will demonstrate how to successfully replace the hinges in the Asus X501A-RH31 laptop. Please note there are small pieces of the motherboard connected to the hinges so execute caution when removing the hinges.

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## TOOLS:

[Spudger](#) (1)

[iFixit Opening Tool](#) (1)

[Tweezers](#) (1)

[Phillips #00 Screwdriver](#) (1)

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## Step 1 — Battery



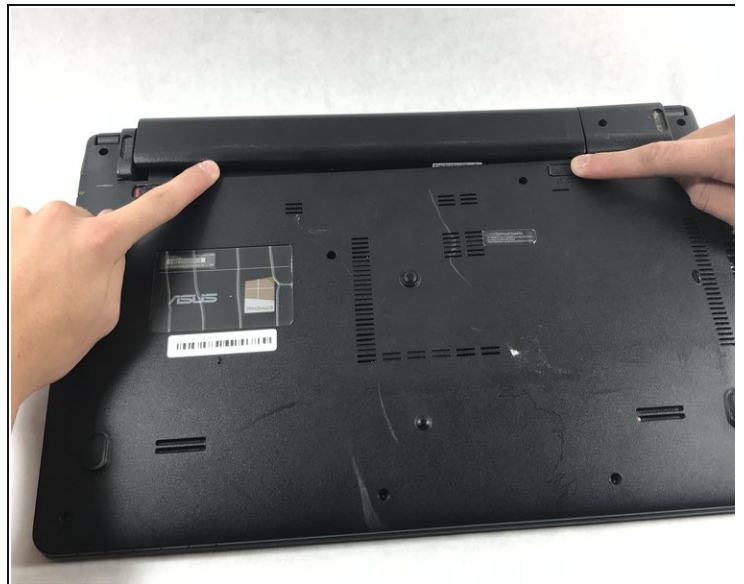
- Turn the laptop over so that the back is facing upwards.

## Step 2



- To unlock the left tab, make sure the tab on the left has red showing.

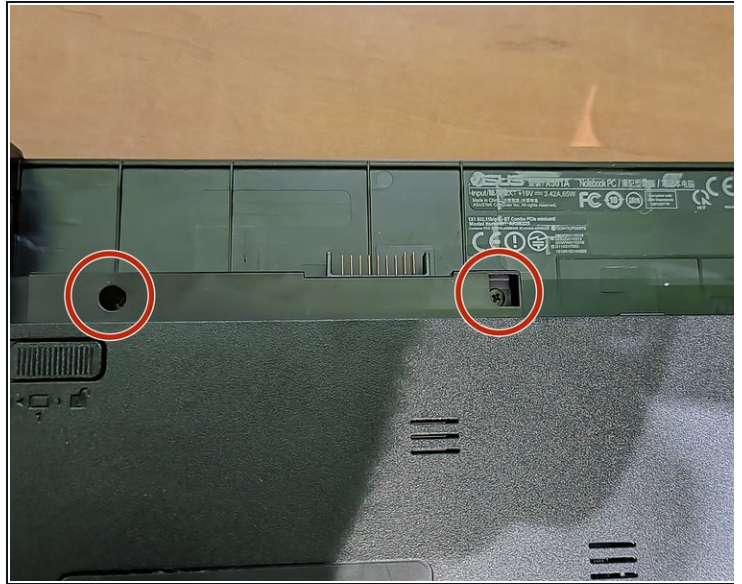
## Step 3



- To unlock the right tab, push the right slider to the left with one hand.
- Push the battery out with the other hand.



## Step 4 — Keyboard



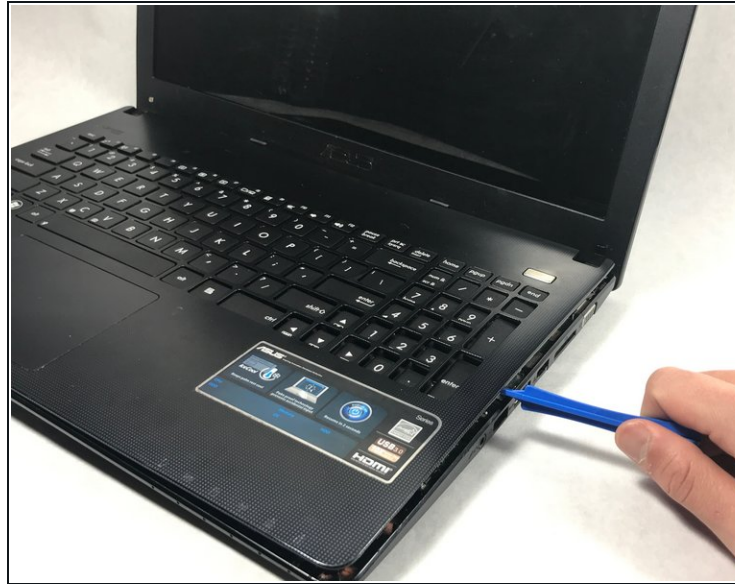
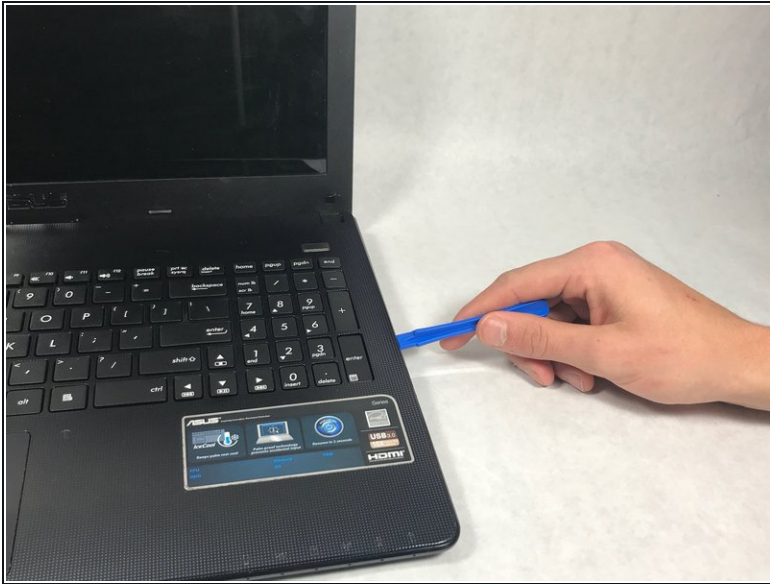
- Using the Phillips #00 screwdriver unscrew all nine screws from the bottom of the laptop, as well as the additional two screws inside the battery compartment.
- ① Nine of the screws are 5 mm long, 4.5 mm in diameter, while two screws closest to the hinges are 7 mm long.

## Step 5



- Turn the laptop over and open the top so the keyboard is facing you.

## Step 6



- Pry off the keyboard cover on the edge using the plastic opening tool.
- Start from one side. Once it is loose, carry out the same procedure on the front and other side.

⚠ Only do little sections at a time as the keyboard may break if you attempt to take the whole thing off from a single point.

## Step 7



- Slowly lift the keyboard upward, but do not remove completely.
- Remove the two data cables that attach the keyboard to the motherboard.



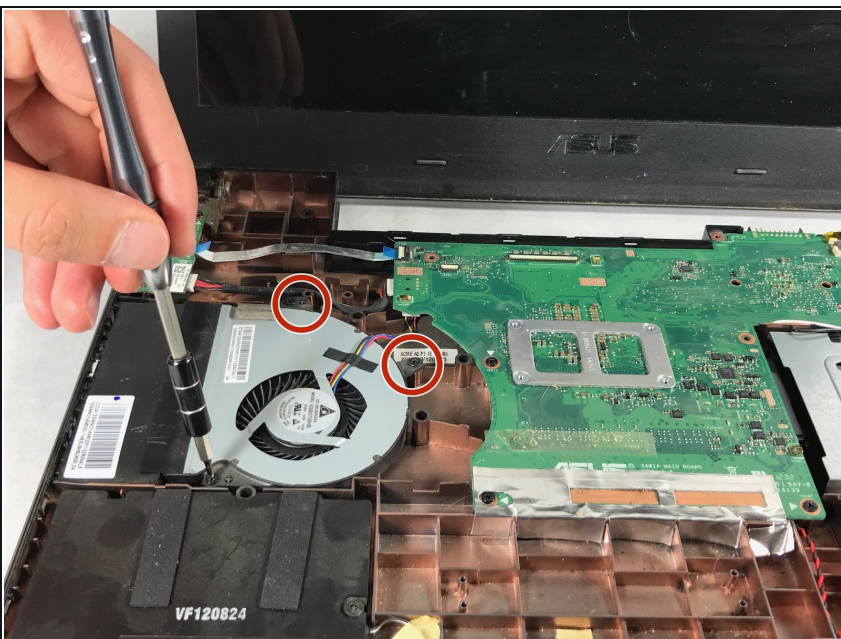
## Step 8



- Use tweezers to pull the white plastic piece up that is attached to the data cable.
- Repeat this process for the big black cable as well.

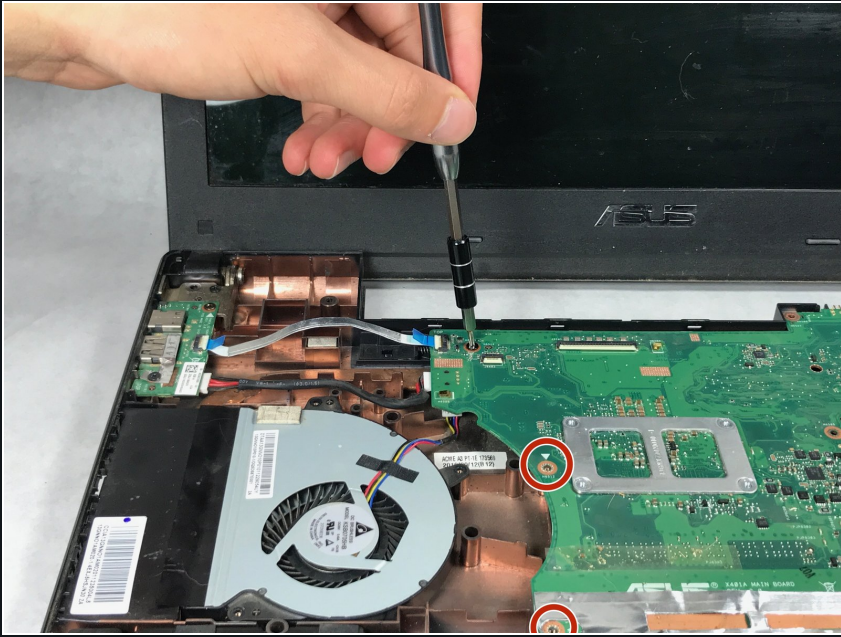
**⚠ Use caution when unlatching the data cables from the motherboard. The cables are extremely delicate and can break.**

## Step 9 — Fan



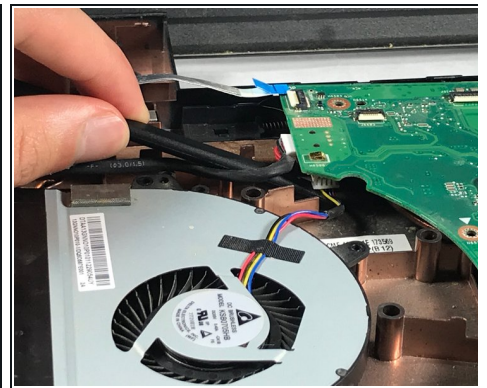
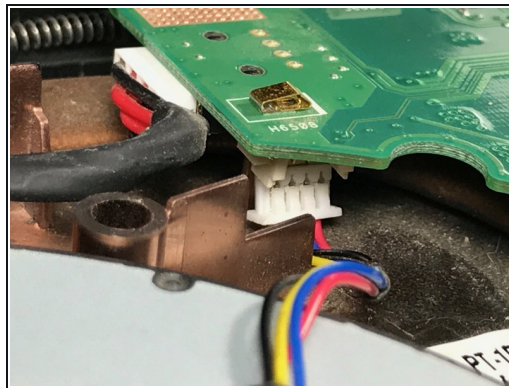
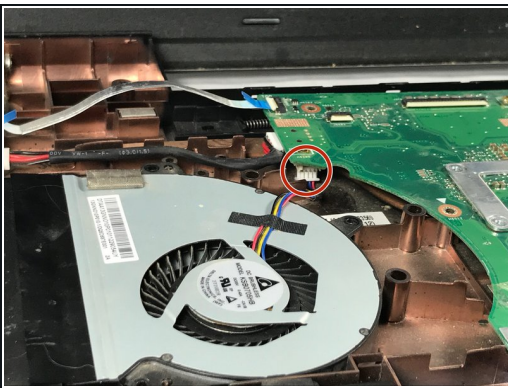
- Unscrew the three screws using the Phillips #00 screwdriver.
- ⓘ The three screws are 5 mm in length, 4.2 mm in diameter.

## Step 10



- Unscrew the three screws on the left hand side of the big motherboard.
- This will loosen the motherboard, which will allow for better access to the cables in the next step.
- ① The three screws are 5 mm in length, 4.2 mm in diameter and Phillips head screws.

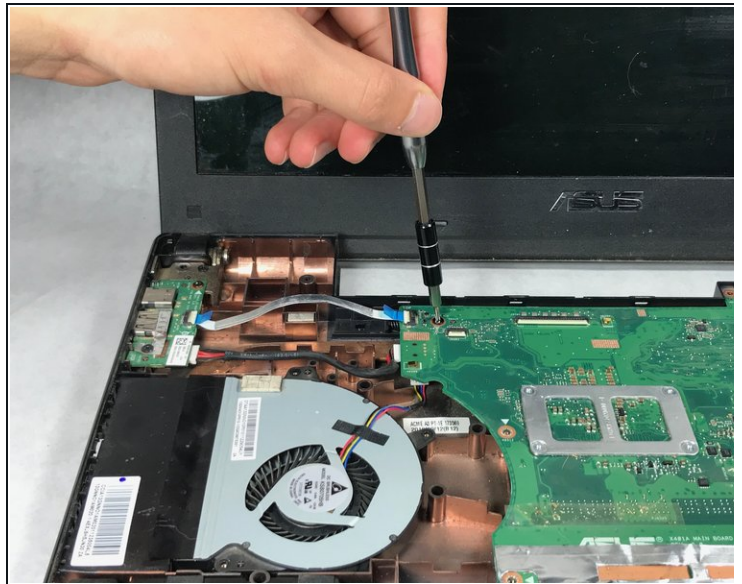
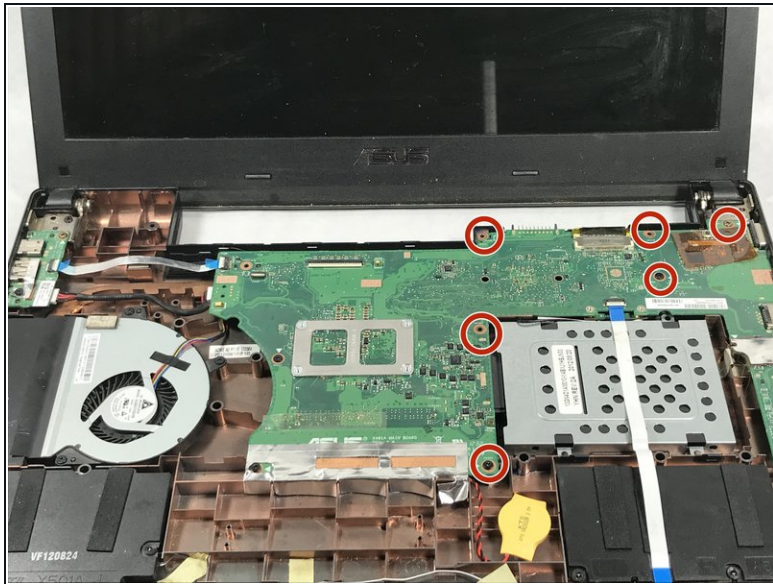
## Step 11



- Remove the connector cable attached to the bottom of the motherboard.
- Take the black plastic spudger and press down on the lower half of the white plastic piece to remove the connector cable.

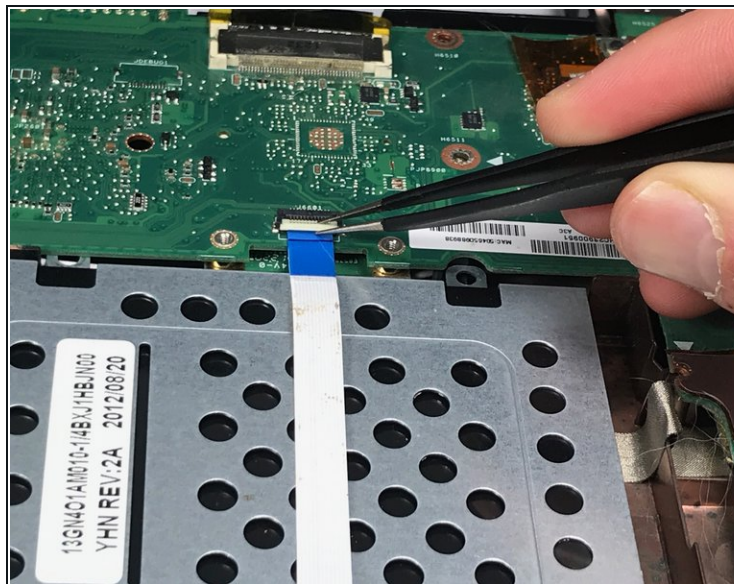
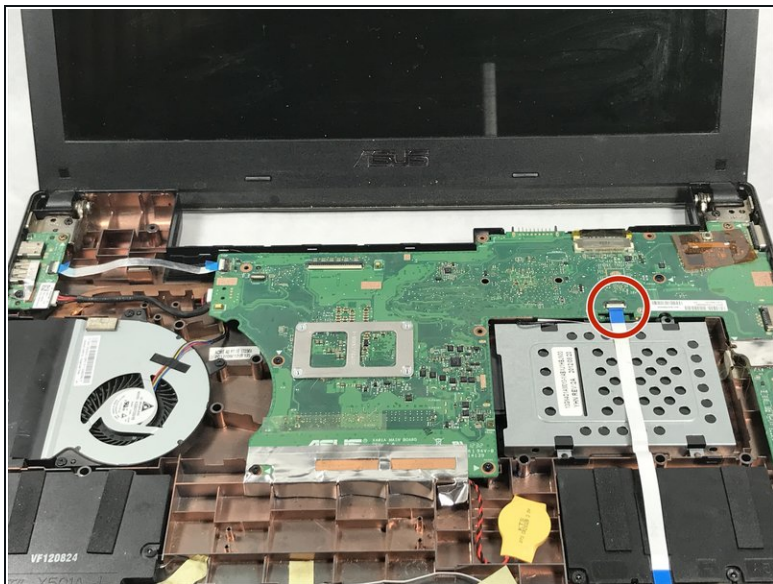


## Step 12 — Motherboard



- Unscrew the six screws that hold the motherboard to the bottom of the laptop using a Phillips #00 screwdriver.
- ❗ The six screws are 4.2 mm long, 5 mm in diameter.

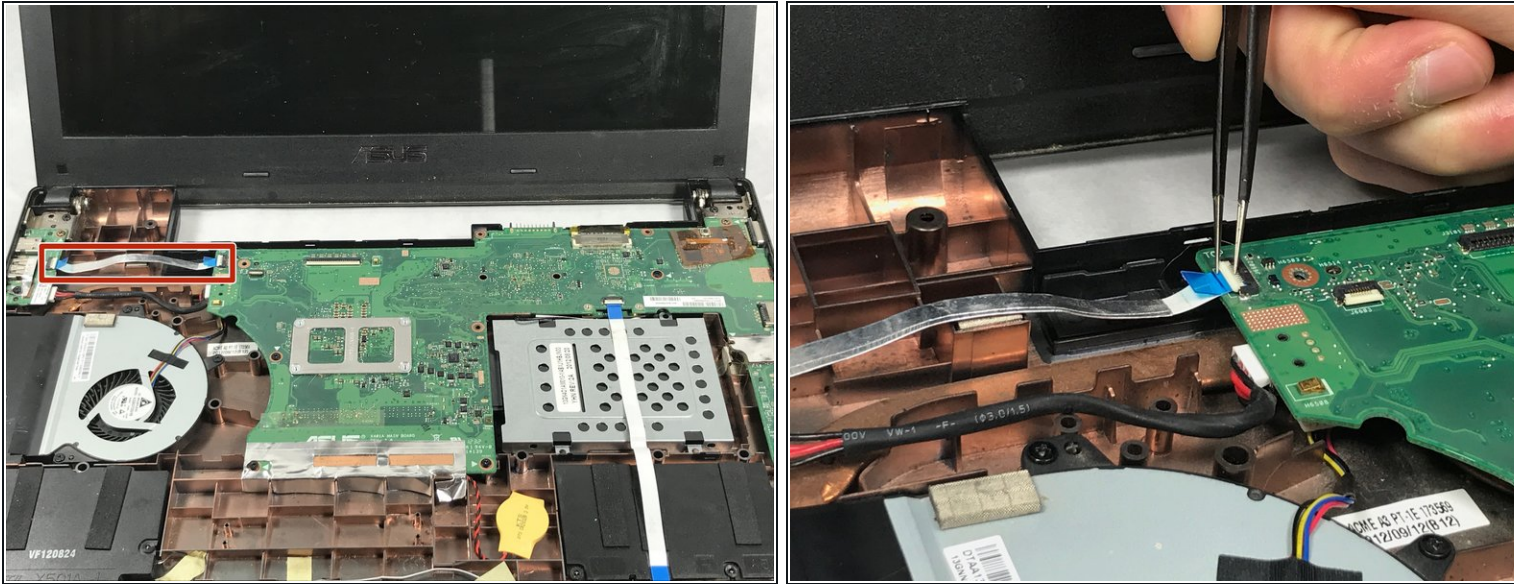
## Step 13



- Unlatch the data cable by using tweezers to lift the white tab and release the cable.

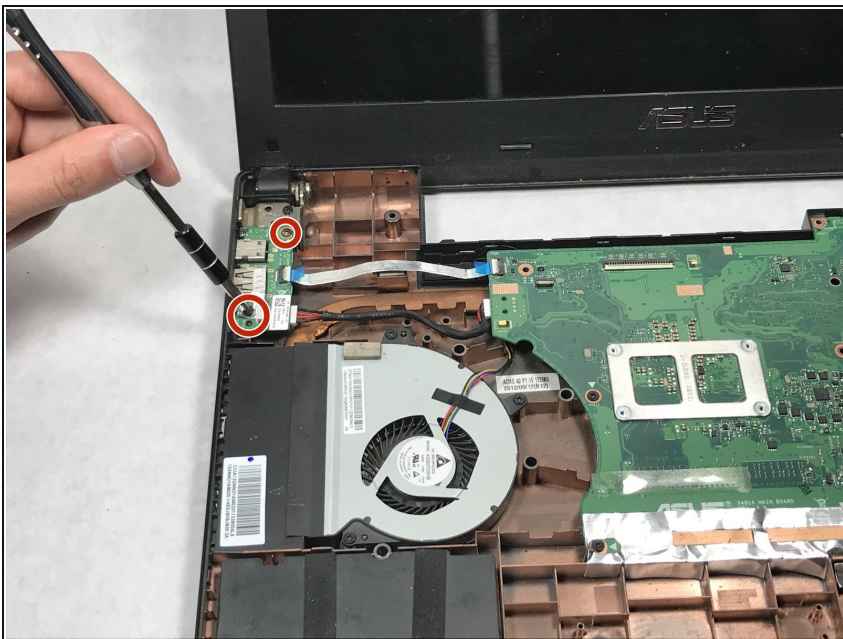


## Step 14



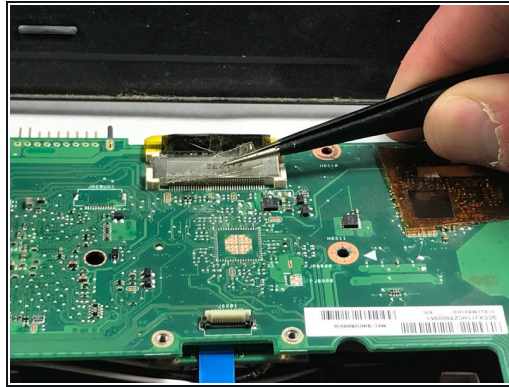
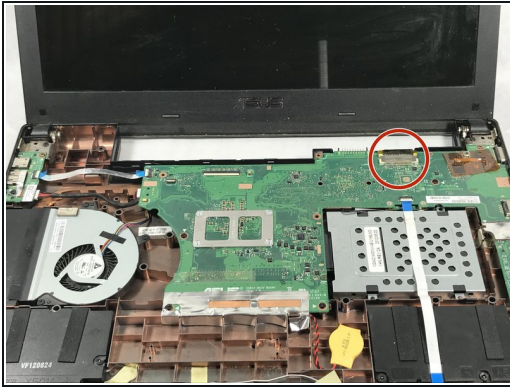
- Remove the cable on the left side of the motherboard.
- Use tweezers to pull the white tab up in order to release this cable.

## Step 15



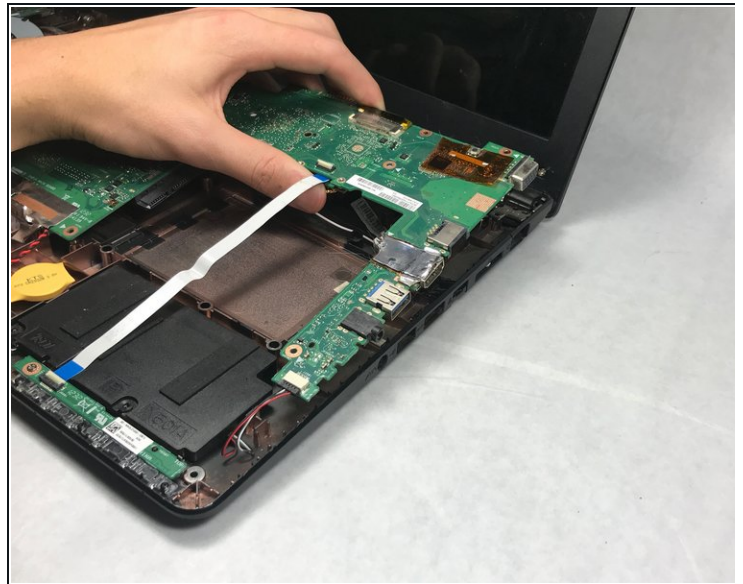
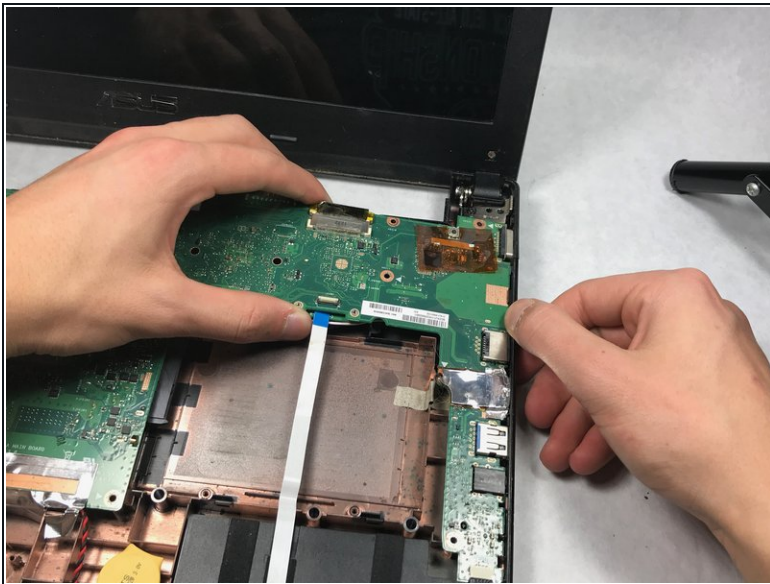
- On the left side is a small piece of the motherboard. Unscrew the two screws holding this piece down with the Phillips #00 screwdriver.
- ① The two screws are 6 mm long, 4.2 mm in diameter.

## Step 16



- Release the connector cable on the back right side of the motherboard.
- Peel off the tape with tweezers so that the cable can be released.
- Using the black plastic spudger, push the back half of the cable towards the screen.

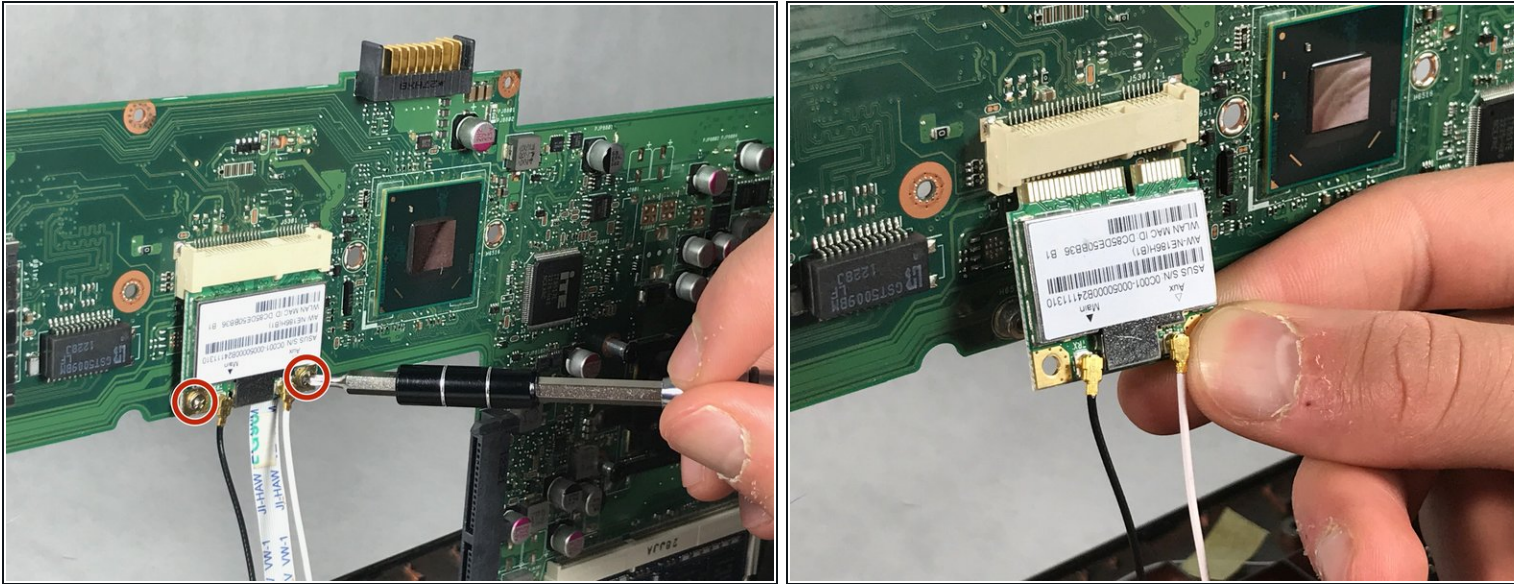
## Step 17



- Grip the motherboard firmly and pull the board leftward and upwards so that the ports on the right side escape their frames.

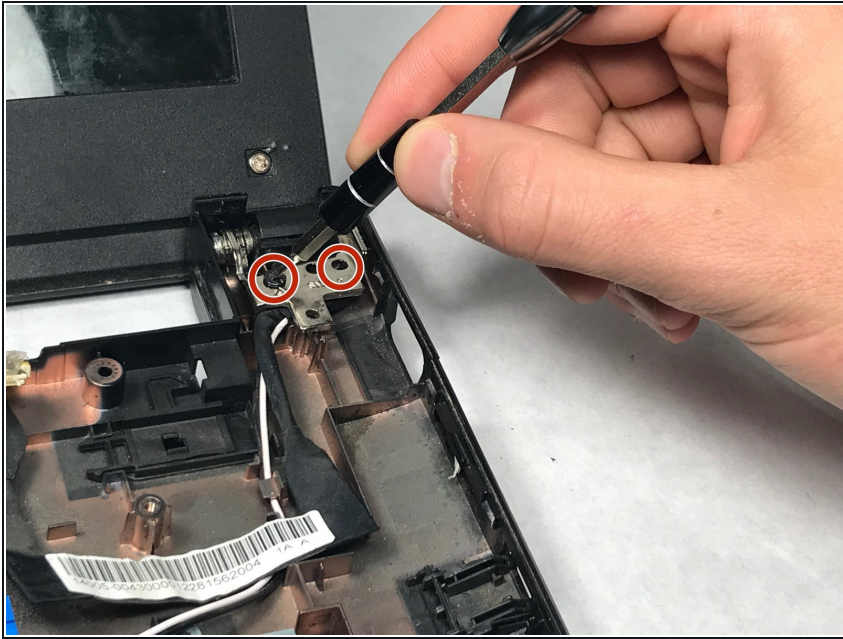


## Step 18



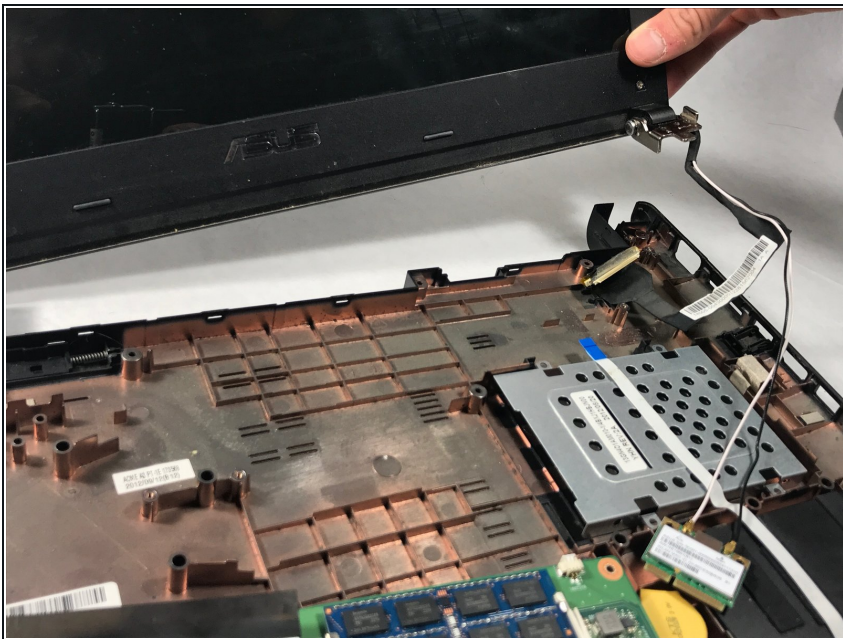
- On the back of the motherboard there are two screws that attach the LCD connector to the motherboard.
- Unscrew the two screws using the Phillips #00 screwdriver.
  - ❗ These screws are 3 mm in length, 3.5 mm in diameter.
- Pull the connector downwards and out.

## Step 19 — Hinges



- To detach the hinges, use the Phillips #00 screwdriver to unscrew the two top screws on both the left and right hinges.
- ⓘ The four screws are all the same. They are 6.2 mm in length, 4 mm in diameter.

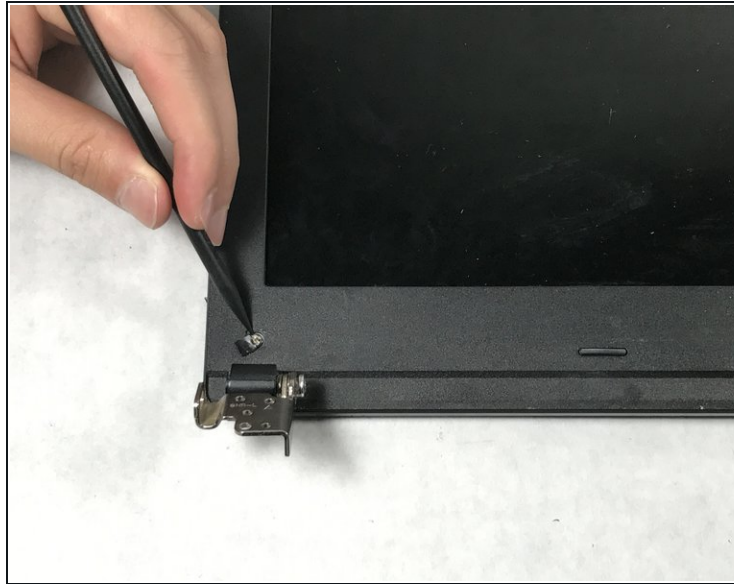
## Step 20



- Once both sides of the laptop are unscrewed, gently pull the upper half of the laptop off of the bottom half.



## Step 21



- Use the black plastic spudger to pry off the black squares on the bottom of the laptop screen, this reveals two screws.

⚠ Take caution when removing these squares as they will bend and crease.

## Step 22



- Use the Phillips #00 screwdriver to unscrew the two screws at the bottom of the laptop screen.
- ⓘ The two screws are 6 mm long, 4mm in diameter.

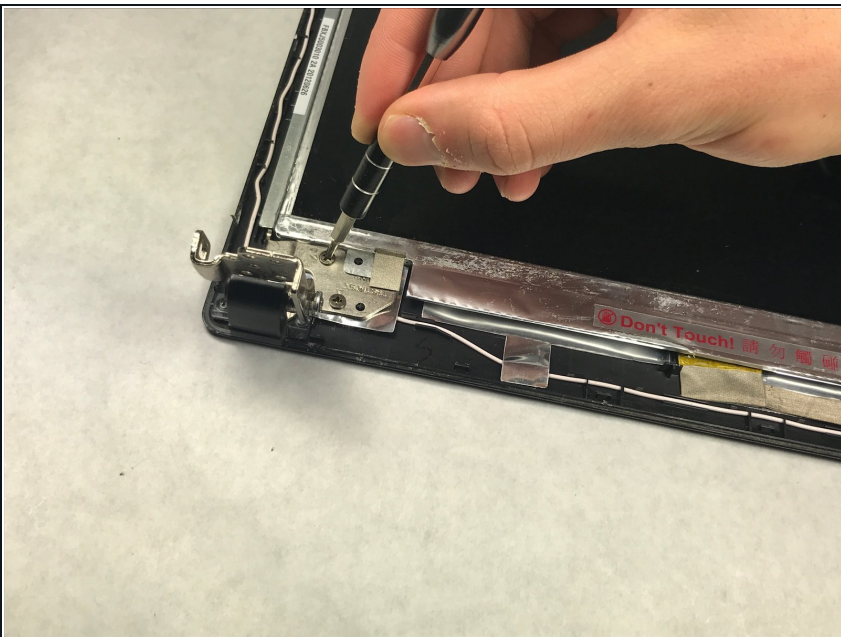
## Step 23



- Place the black plastic spudger between the top cover of the screen and the bottom of the laptop frame that rests on the table.
- Push down on the black plastic spudger to pry the top cover off the screen of the laptop.

**⚠** The screen is fragile and too much pressure applied will damage the screen.

## Step 24



- At the bottom of the screen there are two screws on each hinge.
- Unscrew the four screws using the Phillips #00 screwdriver.
- ⓘ The four screws are 3.5 mm long, 4.5 mm in diameter.



## Step 25



- At the top of the screen there are two screws on the left side and two screws on the right side of the laptop.
- Using the Phillips head #00 screwdriver, unscrew the inside screw and then the outside screw.
- ① All four screws are the same size. They are 4 mm in length, 4.2 mm in diameter.

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