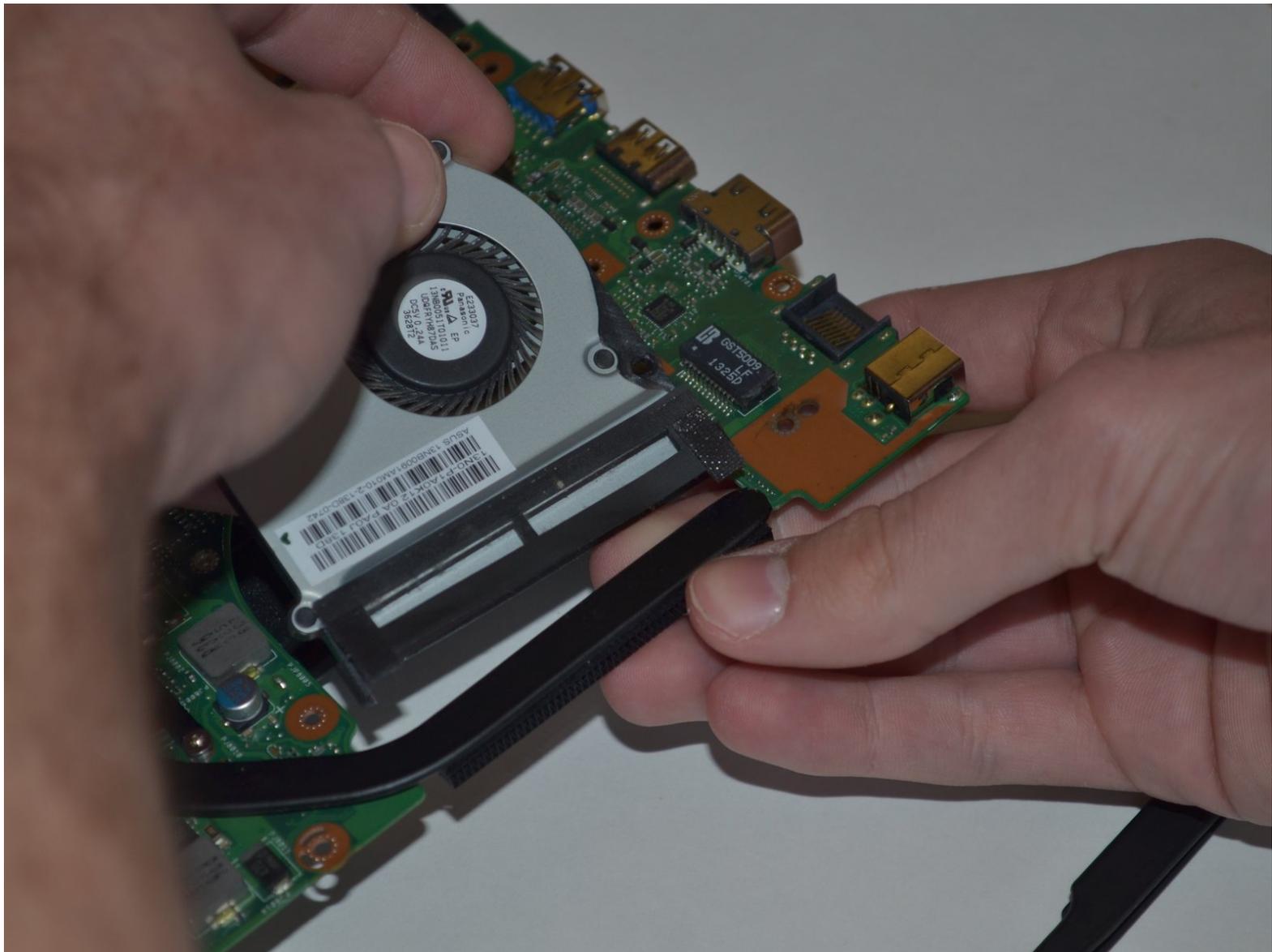




ASUS X502CA Fan Replacement

This guide will explain how to replace a faulty fan.

Written By: David Conner



INTRODUCTION

The fan in your ASUS X502CA keeps components cool while the laptop's running. If your laptop's performance has been dropping, or it feels unusually hot, odds are that the fan is either dirty or damaged.

Before replacement, make sure your fan doesn't just need a good cleaning with an ESD-safe brush and compressed air; gunky blades can't move air efficiently, and often clog with regular use, especially if you have furry pets that like to shed.

If your fan is damaged and not just dirty, it's likely time to replace it altogether.

It is possible that your fan has stopped working due to physical or electrical damage. A replacement fan will need to be purchased before beginning. After purchasing a new fan follow these steps to replace the broken fan of your ASUS X502CA.

Discharge your battery and unplug your laptop before beginning.



TOOLS:

- [iFixit Opening Tool](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Tweezers](#) (1)



PARTS:

- [Laptop Cooling Fan - 13N0-P1A0K11](#) (1)

Step 1 — Fan



- Use a Phillips #00 screwdriver to remove:
 - Eight 9 mm screws.
 - Four 5 mm screws.

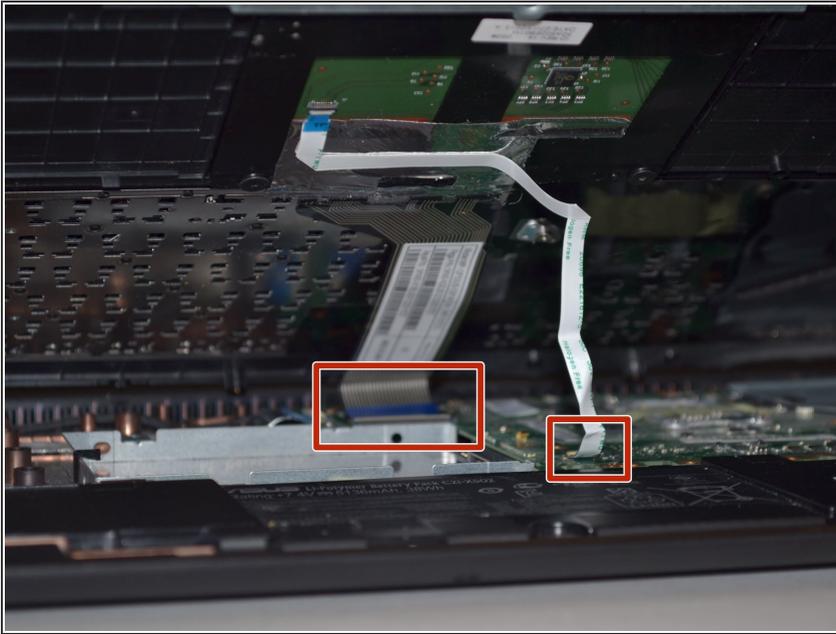
Step 2



- Remove the keyboard cover panel by using a plastic opening tool to carefully pop off the clips around the perimeter.

⚠ Be cautious when pulling off the cover because there are cables you will have to disconnect before completely removing the panel.

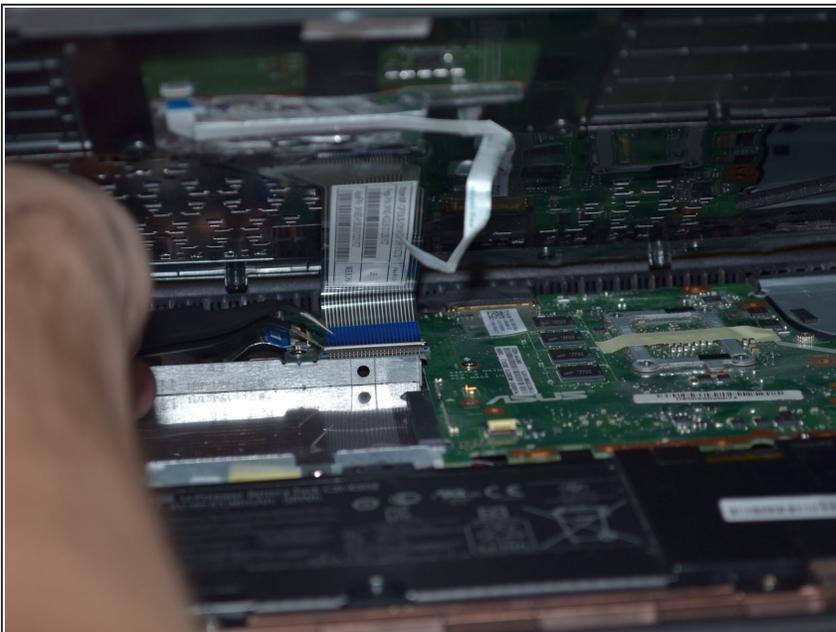
Step 3



⚠ The keyboard cover panel is connected to the motherboard with ribbons; be careful not to damage them.

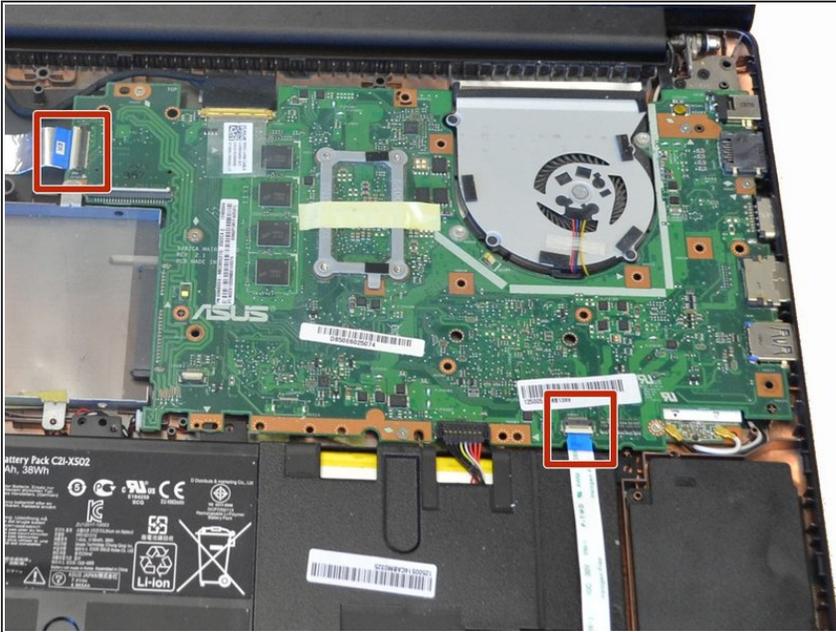
- Lift the keyboard cover carefully.
- Disconnect the keyboard and touchpad ribbons using tweezers.

Step 4



- Remove the keyboard cover panel.

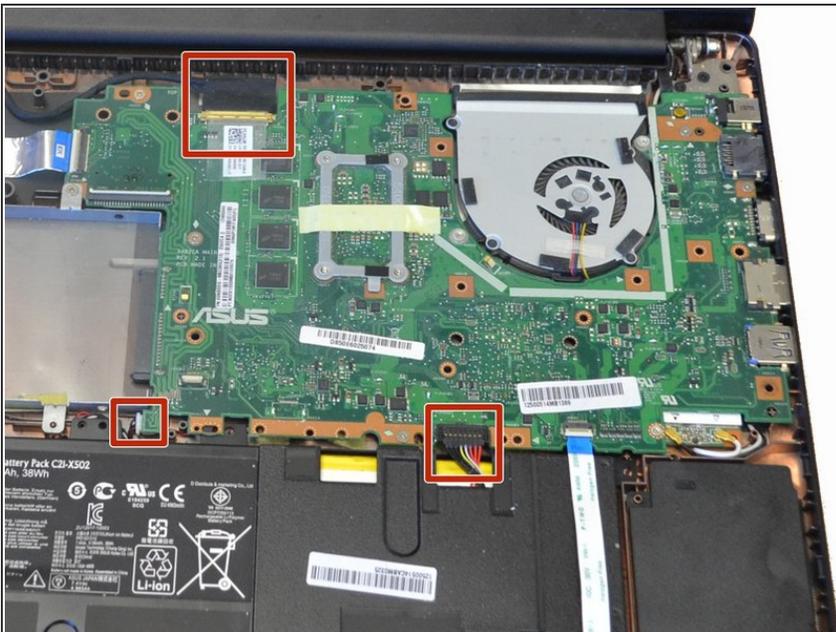
Step 5



- Fold up the black plastic arms securing the cables and disconnect them using tweezers or finger nails.

⚠ If these are not unplugged, the motherboard may shock you.

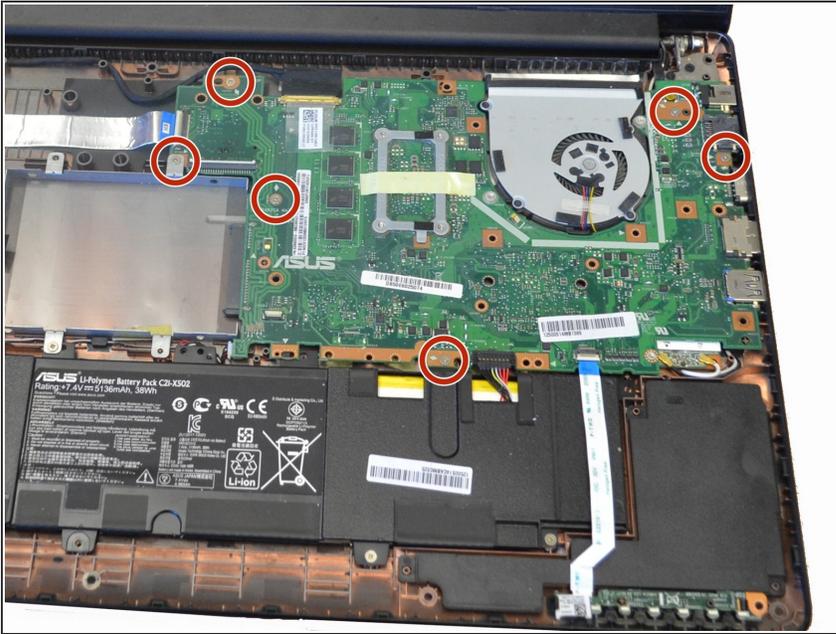
Step 6



- Disconnect the remaining connectors using tweezers or your finger nails.

⚠ If these are not unplugged, the motherboard may shock you.

Step 7



- Remove the six 5 mm screws using the Phillips #00 screwdriver.

Step 8



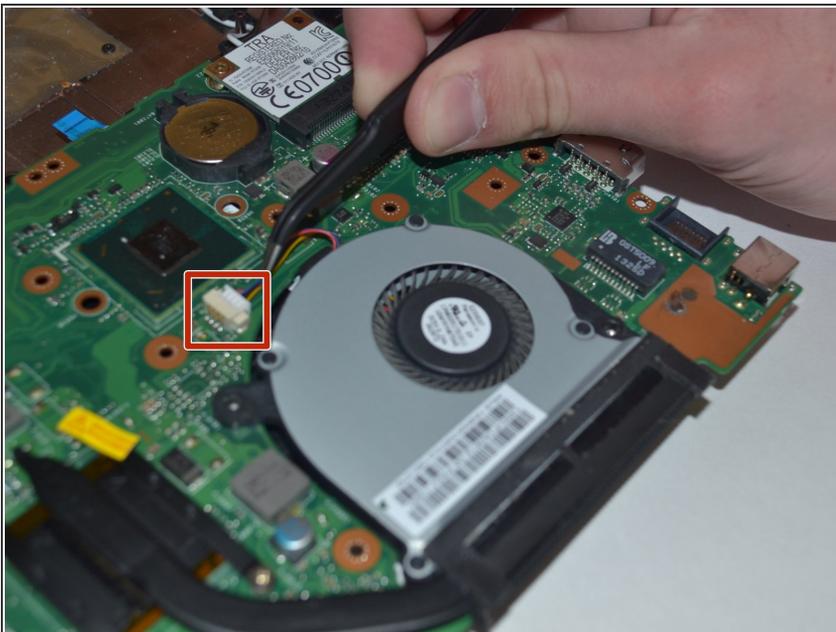
- Flip the motherboard over and away from the screen.

Step 9



- Remove the two 5 mm screws with a Phillips #00 screwdriver.

Step 10



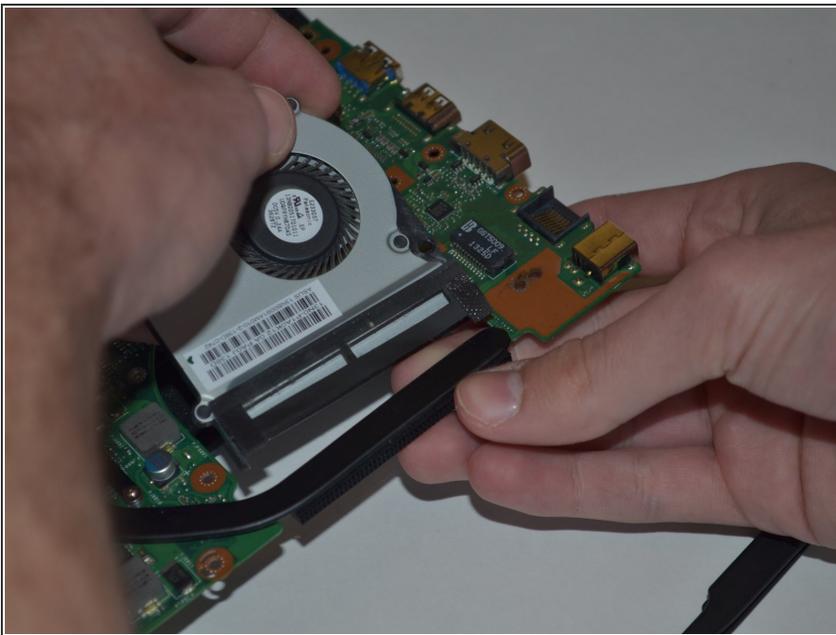
- Unplug the fan's power connector using tweezers or your fingernails.

Step 11



- Peel off the marked strip using your fingers.

Step 12



- Lift the fan up and away from the motherboard.

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