



Asus Chromebook C101P Heat Sink Replacement

How to replace the heat sink in an Asus Chromebook C101P.

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INTRODUCTION

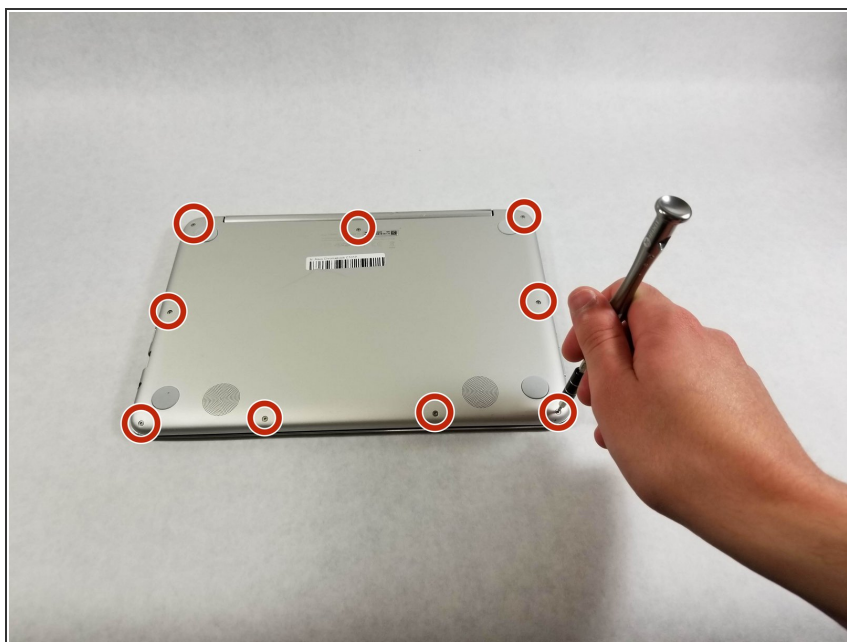
The Asus Chromebook C101P only has one item keeping it from overheating. The heat sink is an L-shaped piece of copper that is attached to the CPU on the motherboard to dissipate heat. It is attached using [thermal paste](#) so be sure to have some on hand. Ensure that the Chromebook is fully powered off and not plugged in before removing the heat sink. Also, be sure to wait a few minutes after powering off, as the heat sink may be hot.



TOOLS:

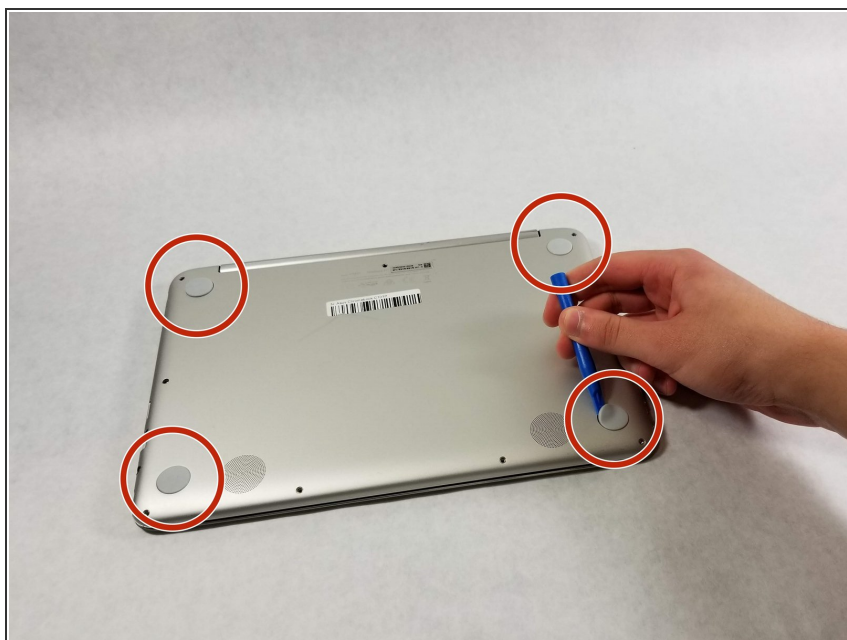
- [Tweezers](#) (1)
 - [T5 Torx Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Thermal Paste](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
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Step 1 — Keyboard



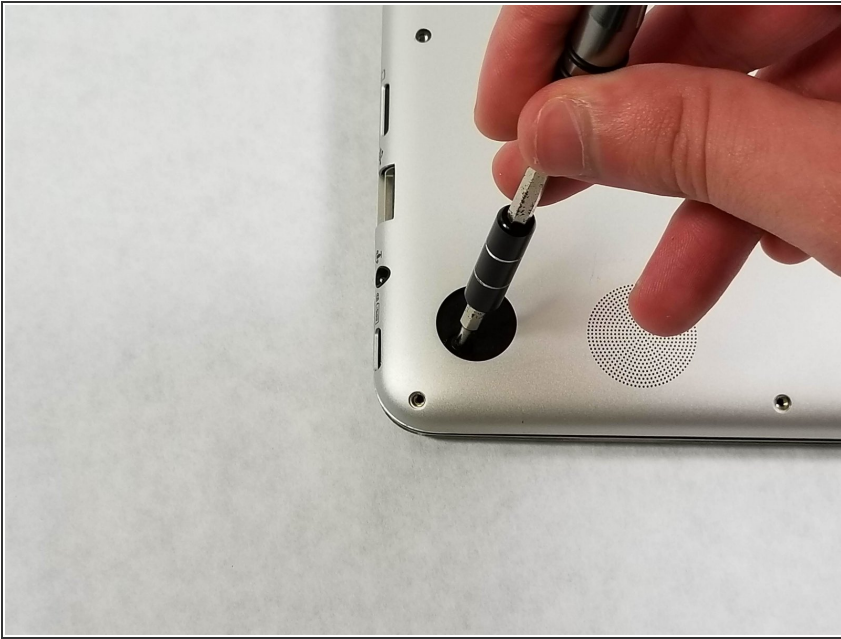
- Flip the Chromebook so that the bottom is facing up.
- Remove the eight T5 Torx screws.

Step 2



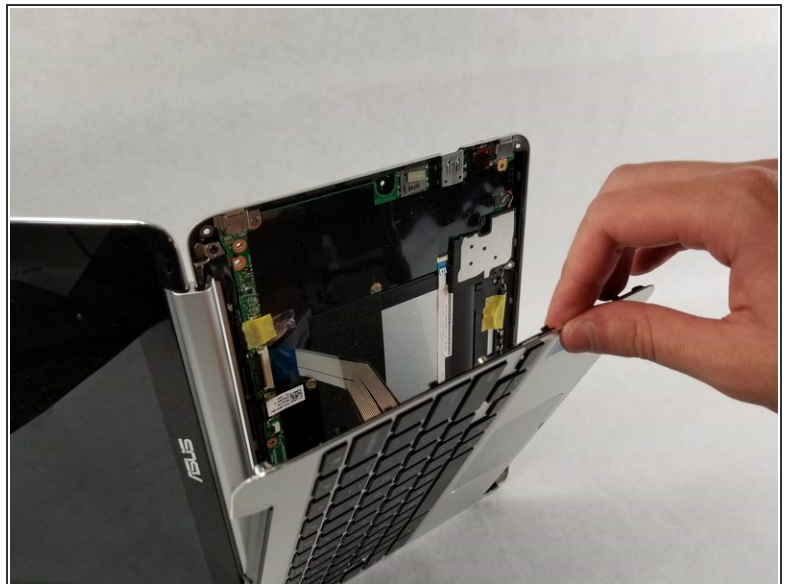
- Remove the four rubber grips on the bottom side of the Chromebook using an opening tool.

Step 3



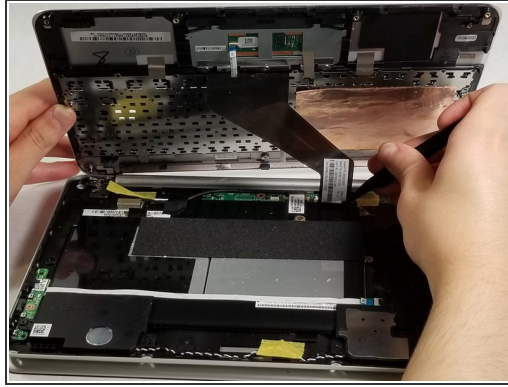
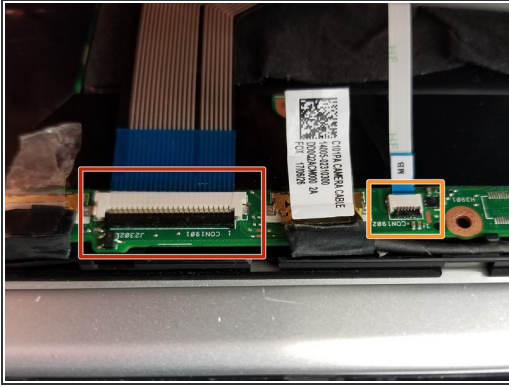
- Remove the four black screws where the rubber grips were.

Step 4



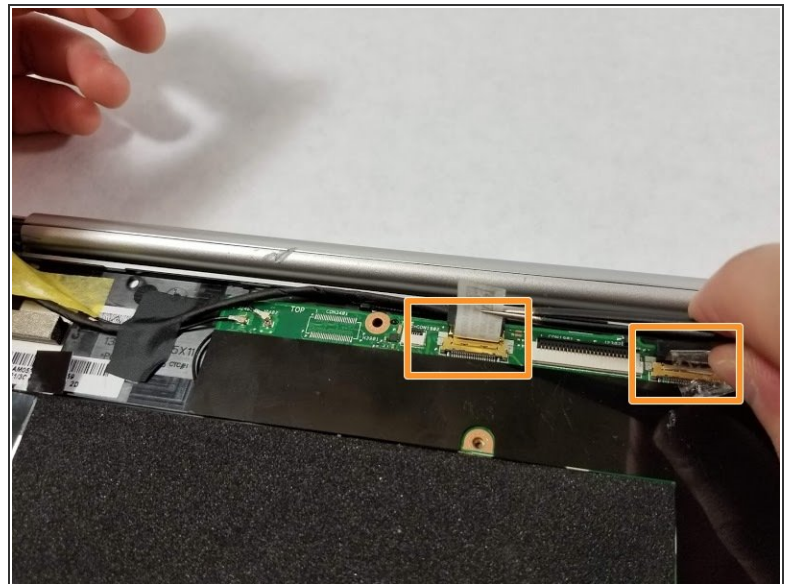
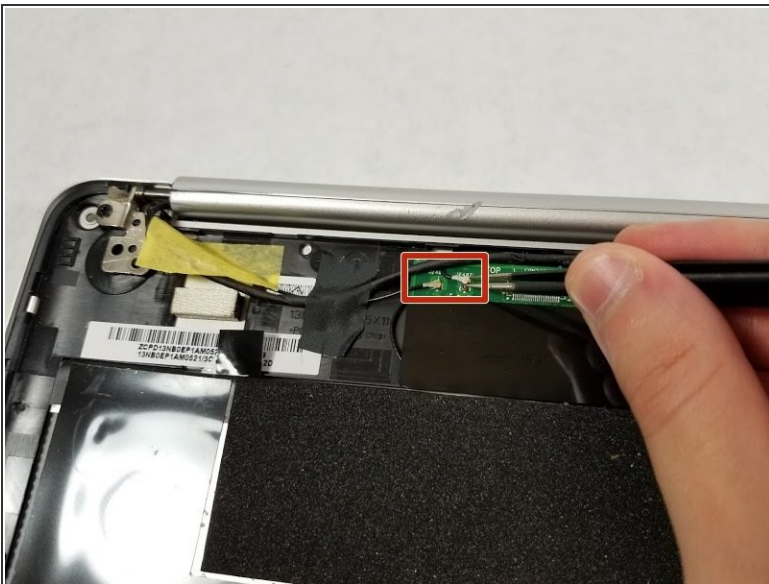
- Reorient the Chromebook so the right side is facing upwards.
- Wedge an opening tool or spudger between the keyboard (upper case) and the lower case of the bottom portion of the Chromebook.

Step 5



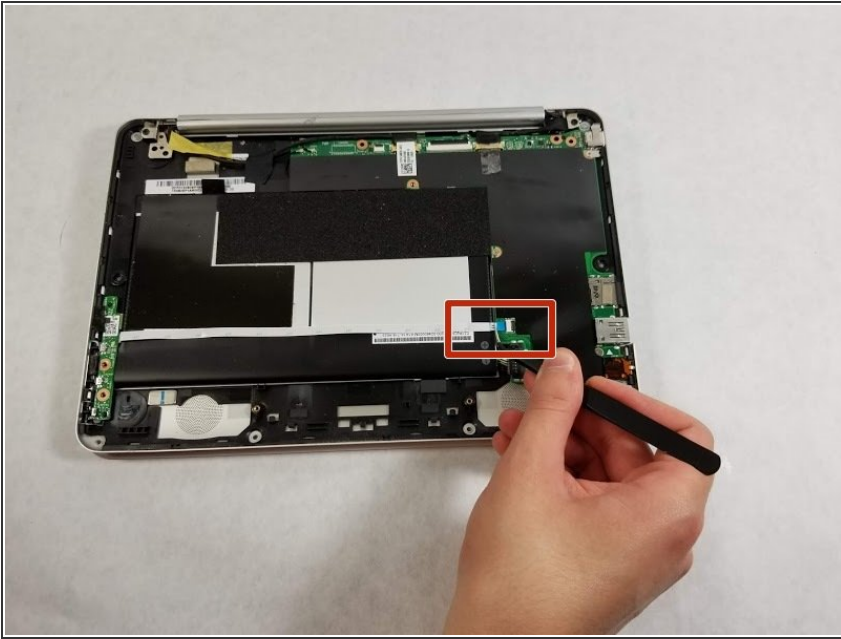
- Pull back the black lever on the base of the cable. While pulling back, take your tweezers and pull back on the large ribbon cable.
- Pull back the black lever on the base of the cable. While pulling back, take your tweezers and pull back on the small ribbon cable.
- Separate the keyboard from the rest of the laptop.

Step 6 — Heat Sink



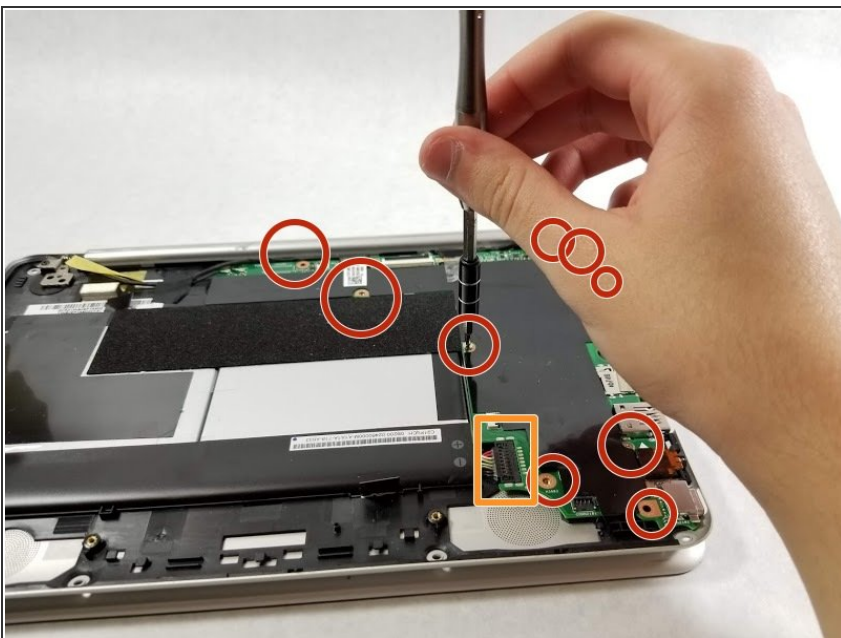
- Detach the the screen cables from the motherboard using a pair of tweezers.
- Peel off the tape or seal to easily remove the screen cables.

Step 7



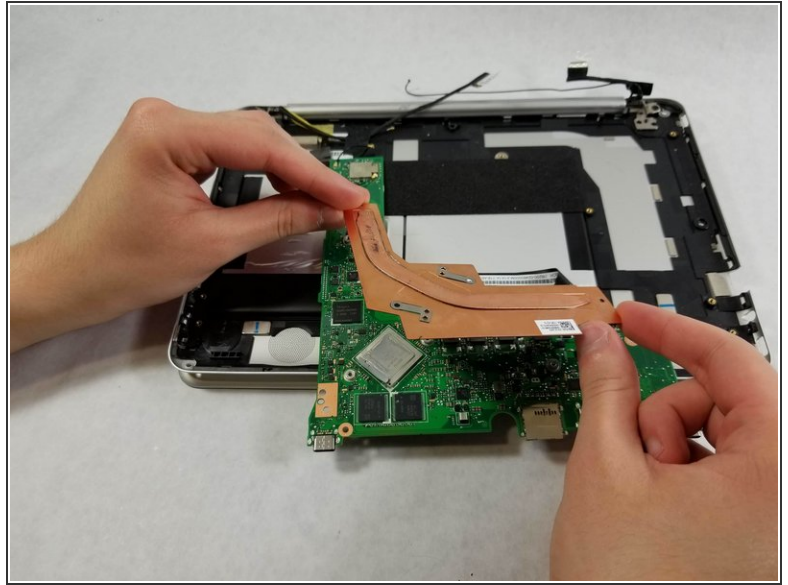
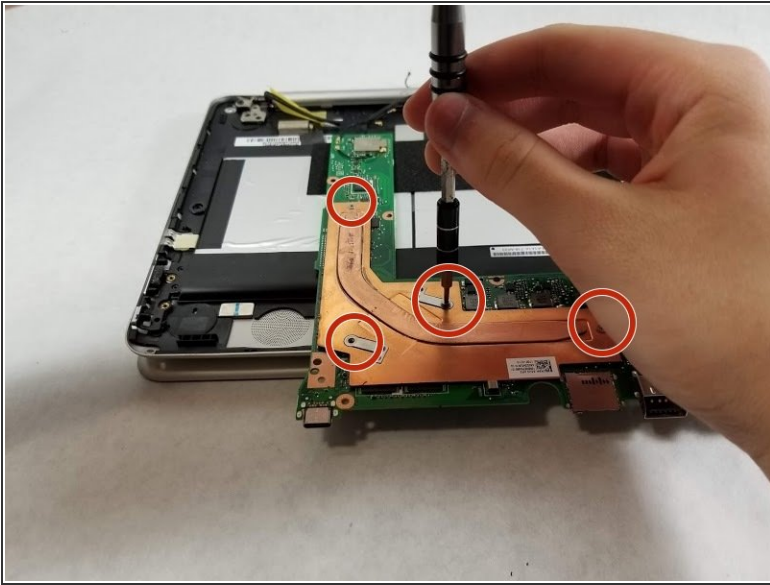
- Flip up the black lever on the base of the small white ribbon cable. Remove the cable and set it aside.

Step 8



- Remove the nine Phillips #0 screws.
 - ⓘ The 3 circles on the hand indicate that there are 3 more screws not visible in the photo.
- Remove the battery cable if possible. Otherwise, gently flip the motherboard upside down to reveal the heat sink.
- ⚠ The motherboard may be hot. Be sure that you have left the Chromebook turned off for a few minutes.

Step 9



- Remove the four Phillips #0 screws from the heat sink.
- Detach the heat sink from the motherboard.
- ⓘ Detaching may provide a bit of resistance because of thermal paste.
- ⚠ When you are ready to apply the new heat sink, be sure to apply a small dab of [thermal paste](#) onto the CPU.

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