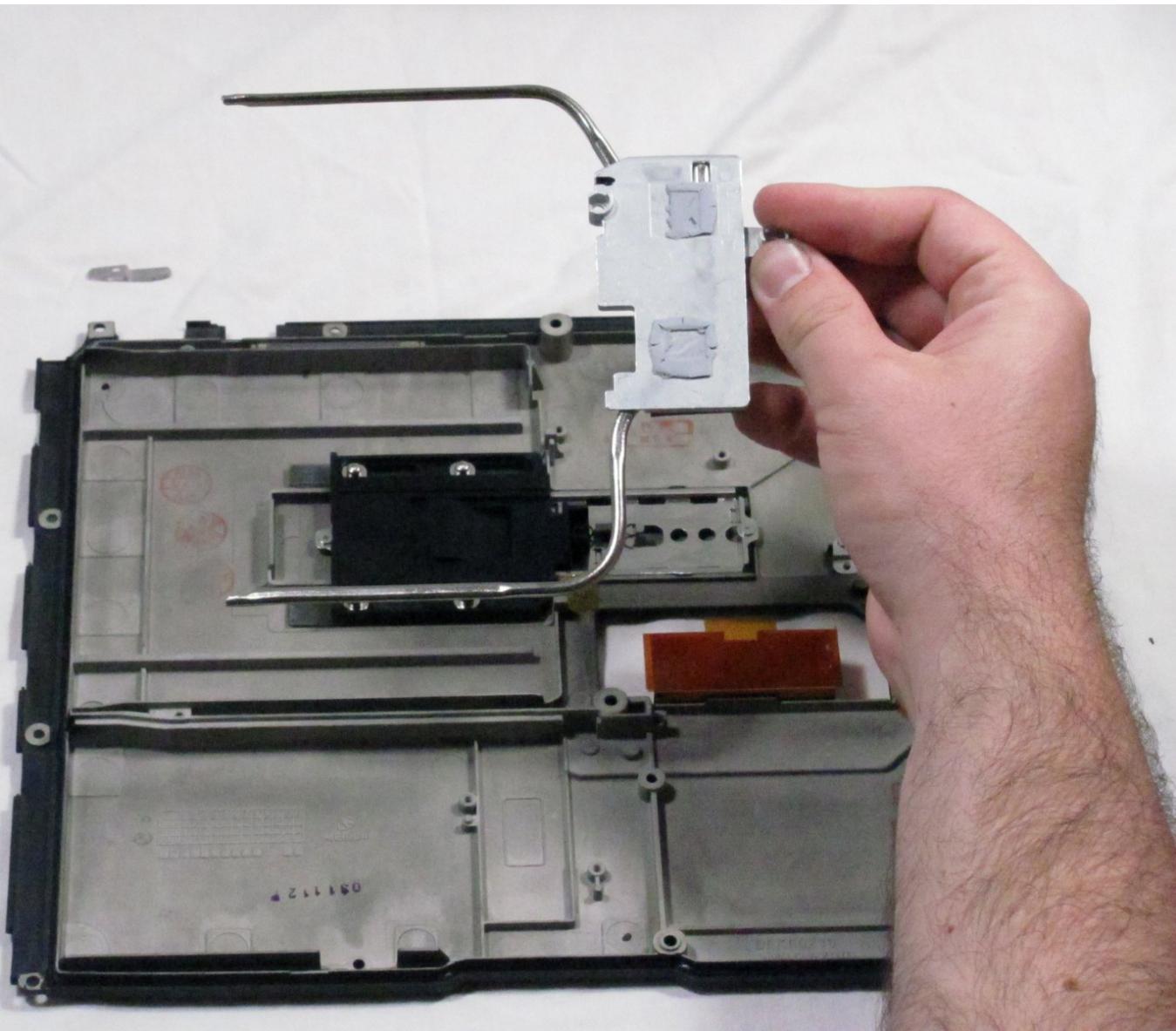




Panasonic Toughbook CF-29 Heat Sink Replacement

Written By: Clint Kirsop



INTRODUCTION

The purpose of this guide is to show how to properly remove and replace the heat sink.

TOOLS:

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

Step 1 — Battery



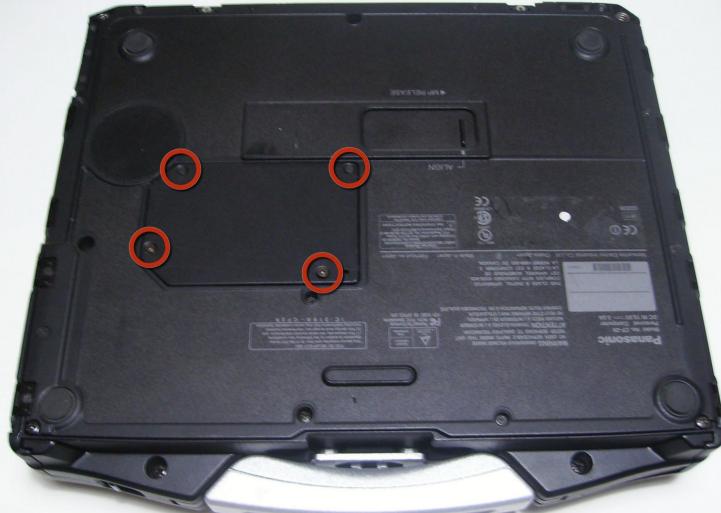
- Locate the bay door for the battery on the left side of the laptop.

Step 2



- Slide the latch to the right and then down to unlock it.
- Pull out the battery.

Step 3 — Back Cover



- Begin by turning the laptop upside down with the handle towards you.
- Use a Phillips size 0 screwdriver to remove the 4 screws holding down the ram cover.

Step 4



- Remove the panel and set it aside.
- Use a Phillips size 0 screwdriver to remove these 8 small screws.

Step 5



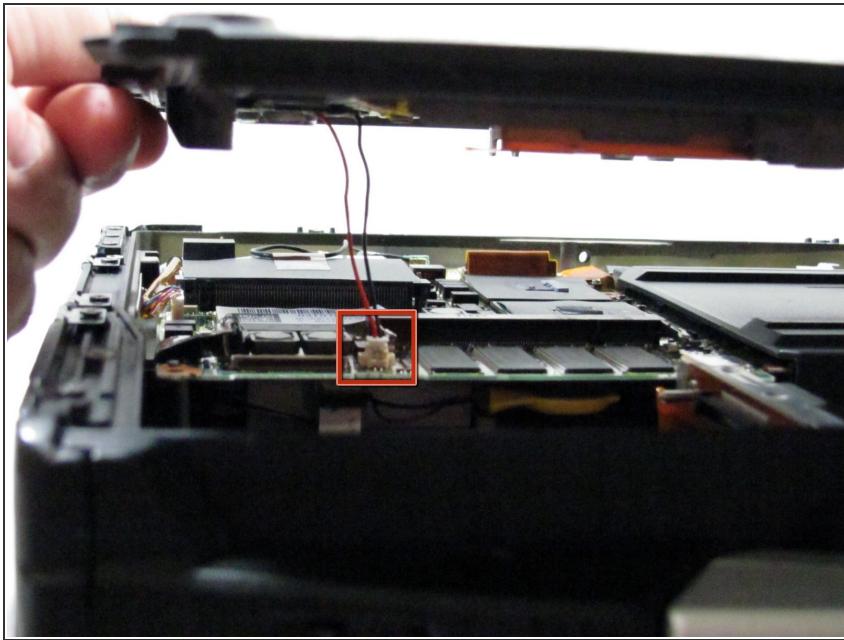
- Use a Phillips size 1 screwdriver to remove the remaining 8 screws.

Step 6



- Use a plastic opening tool to release, but NOT remove, the back cover because it is sealed with adhesive.

Step 7



⚠ Be careful when lifting the cover as you may damage some connections.

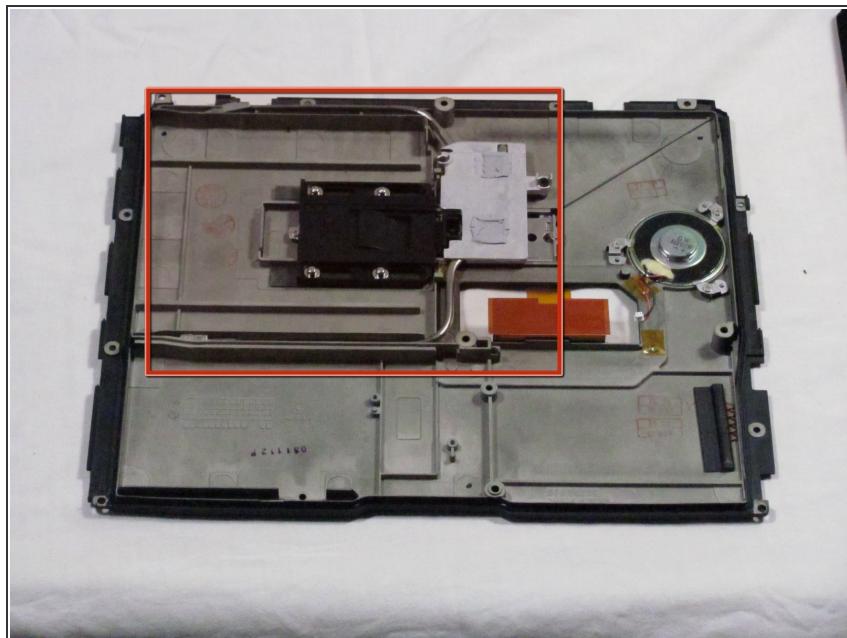
- Slowly lift the cover so that you can disconnect the red and white wires connecting the speaker to the sound card.

Step 8



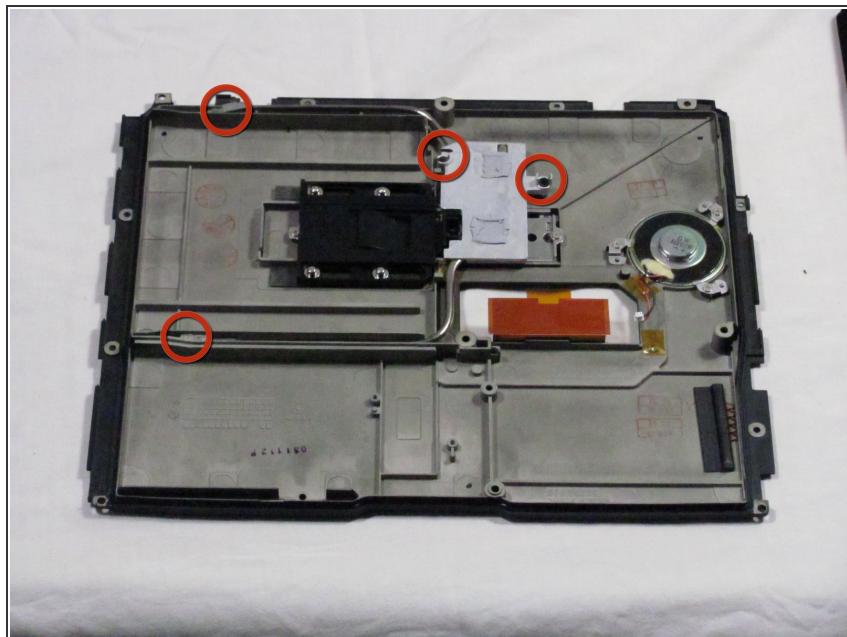
- Now the back cover should be off and you can access the inside of the casing.

Step 9 — Heat Sink



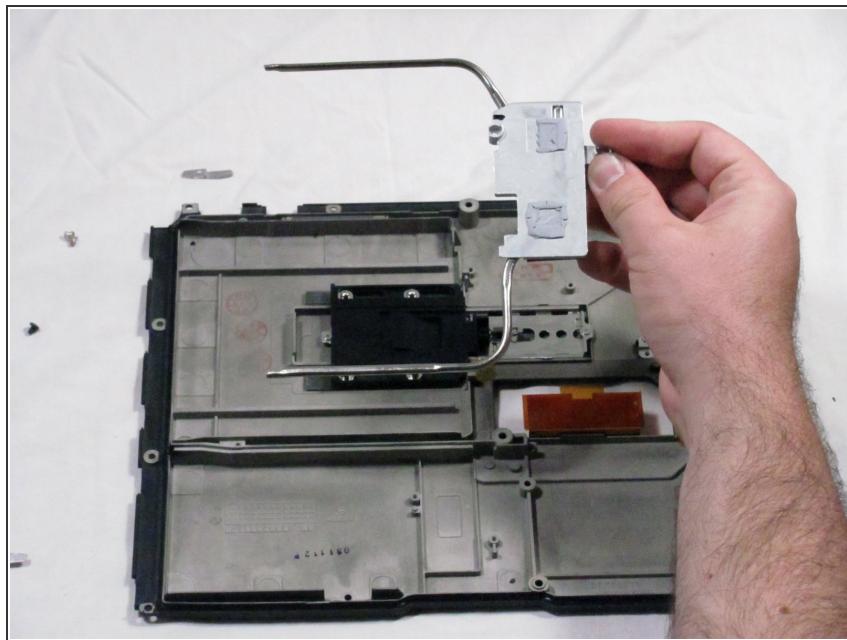
- Locate the heat sink on the underside of the back cover.
 - It is the U shaped metallic piece.

Step 10



- Remove the four screws with a Phillips size 1 screwdriver.
 - One on each of the ends
 - Two on the base of the U shape

Step 11



- Being careful not to lose the brackets at the ends of the heat sink, lift it up and out.

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