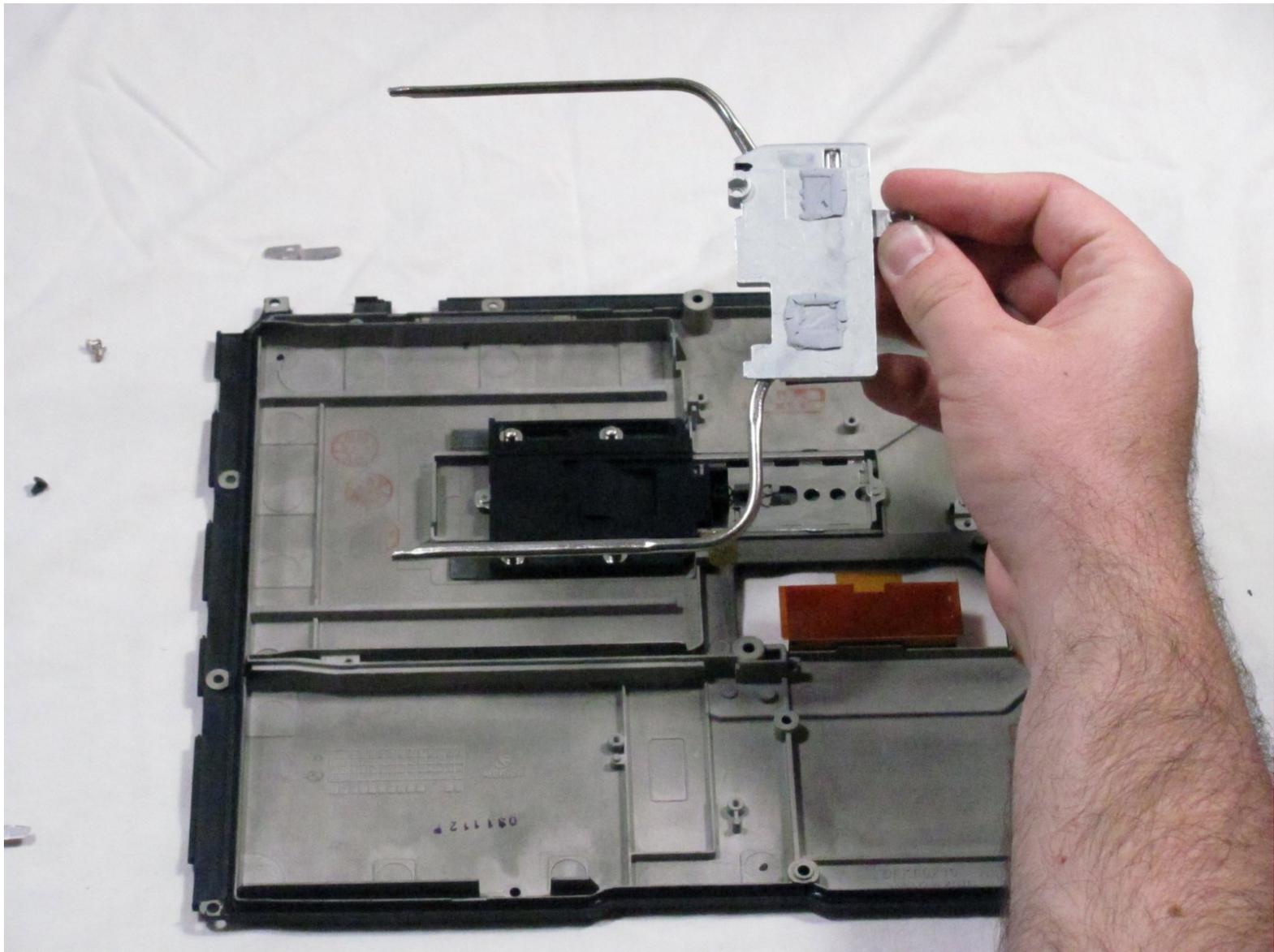




# Panasonic Toughbook CF-29 Heat Sink Replacement

Written By: Clint Kirsop



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## INTRODUCTION

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

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### TOOLS:

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



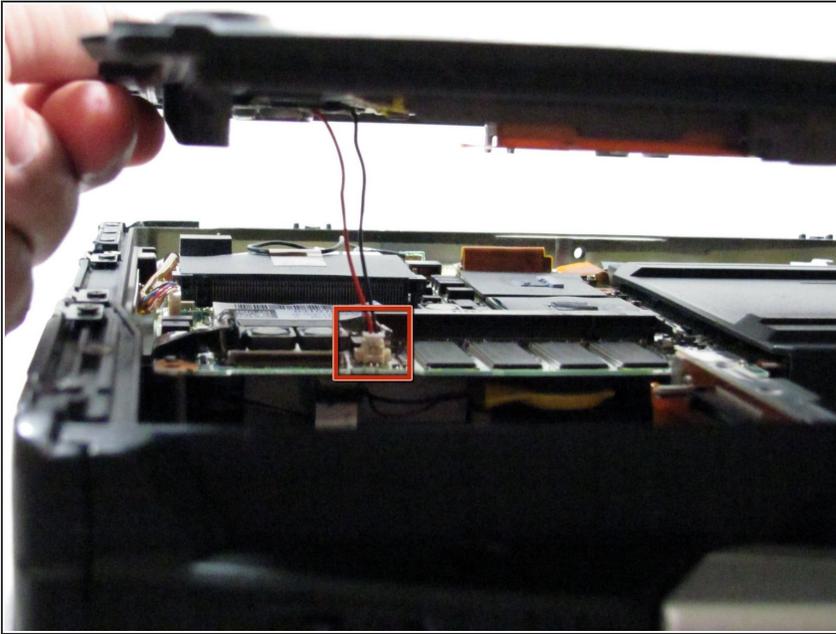
- Use a Phillips size 1 screwdriver to remove the remaining 8 screws.

## Step 6



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

## Step 7



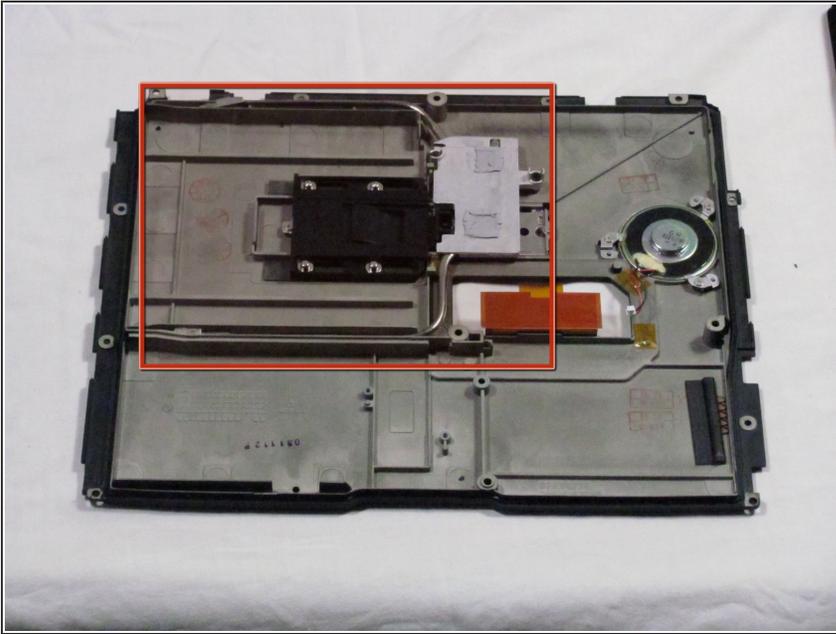
- ⚠ Be careful when lifting the cover as you may damage some connections.
- Slowly lift the cover so that you can disconnect the red and white wires connecting the speaker to the sound card.

## Step 8



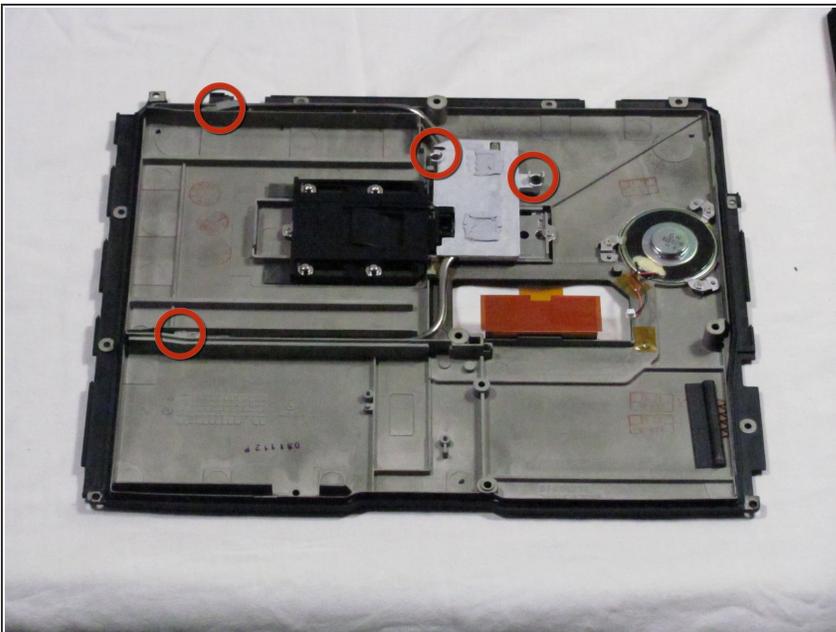
- Now the back cover should be off and you can access the inside of the casing.

## Step 9 — Heat Sink



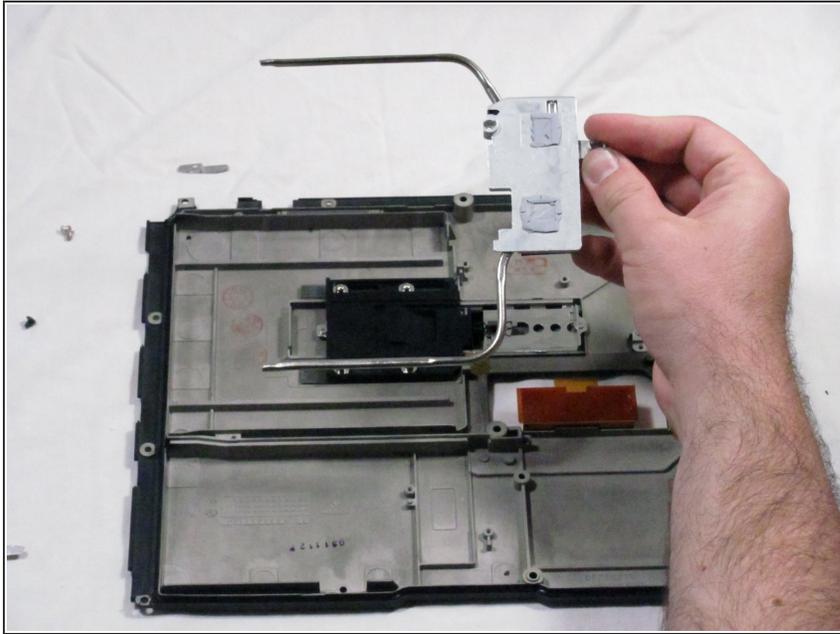
- Locate the heat sink on the underside of the back cover.
- It is the U shaped metallic piece.

## 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.