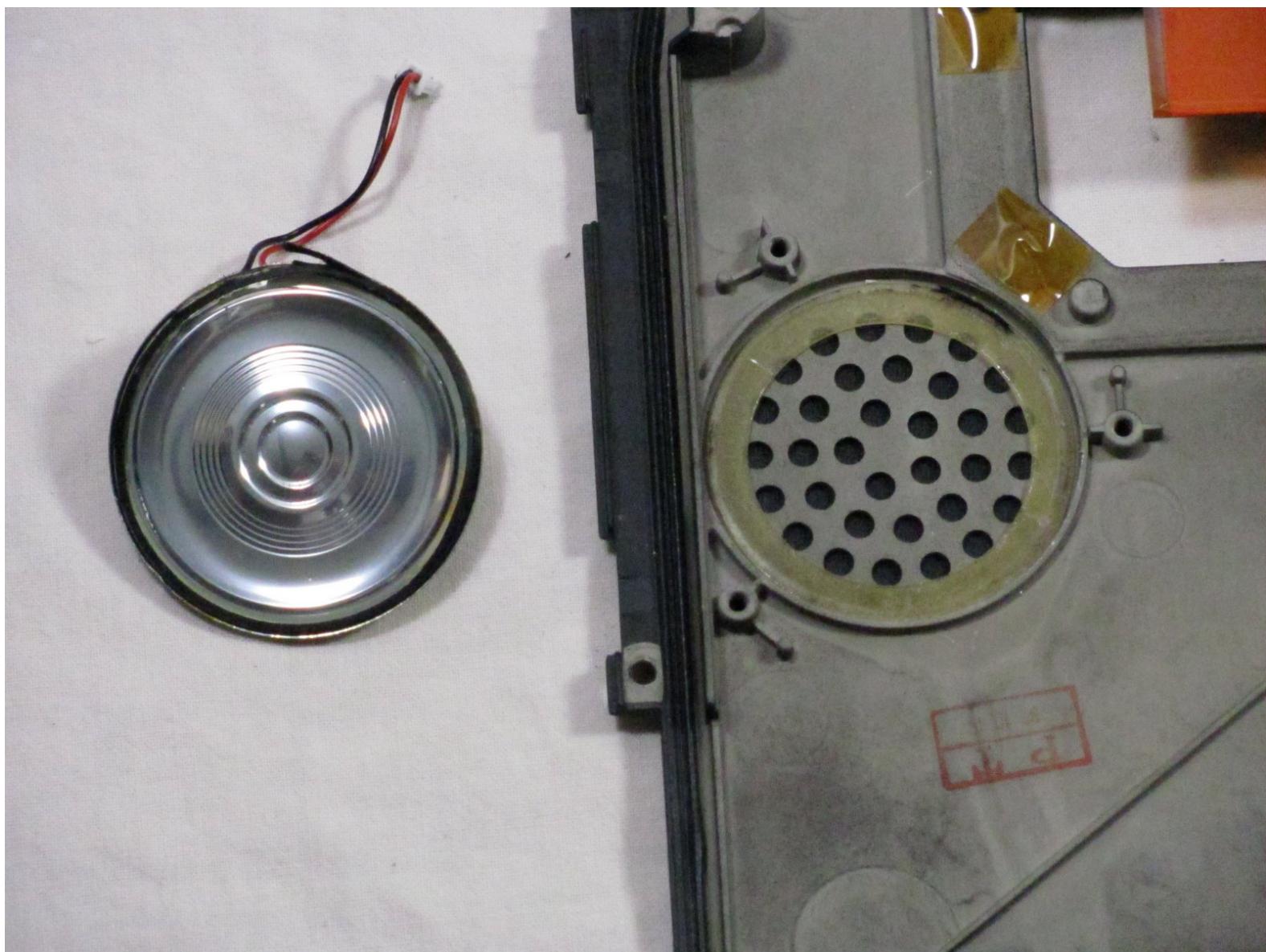




Panasonic Toughbook CF-29 Speaker Replacement

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INTRODUCTION

This guide will provide you with step by step instructions to replace your Toughbook CF-29's speaker.

TOOLS:

- [Phillips #00 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



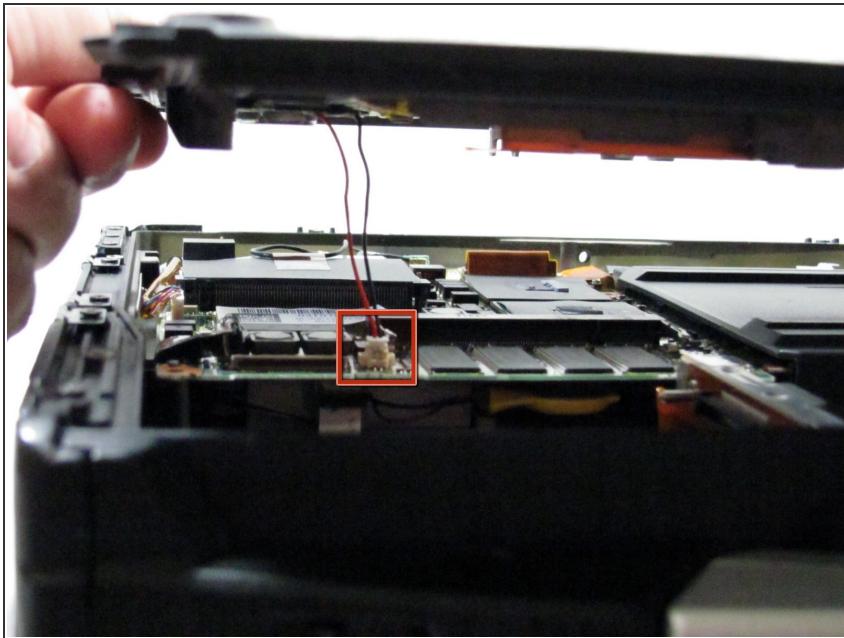
- Use a Phillips size 1 screwdriver to remove the remaining 8 screws.

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.

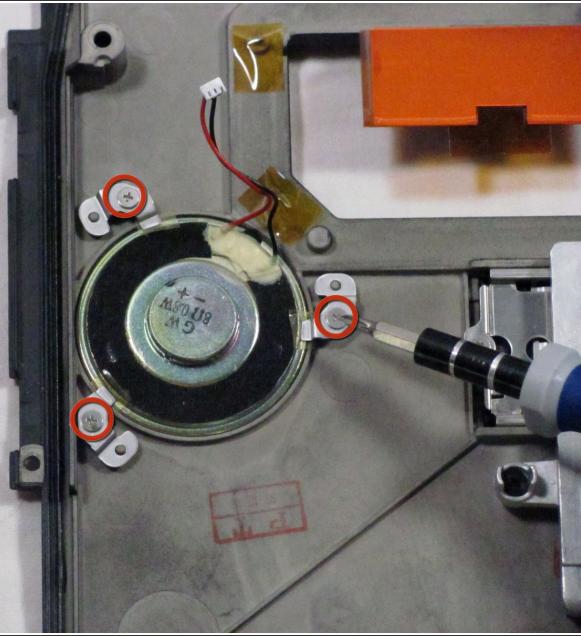
- Slowly lift the cover so that you can disconnect the red and white wires connecting the speaker to the sound card.

Step 8



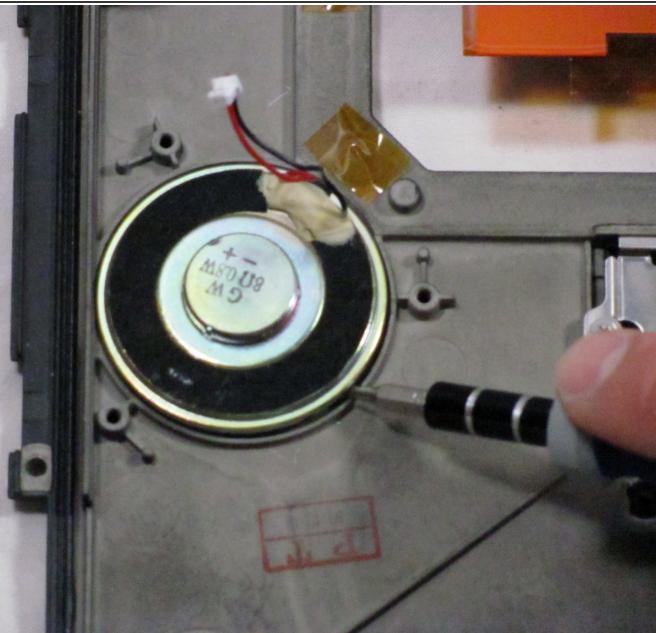
- Now the back cover should be off and you can access the inside of the casing.

Step 9 — Speaker



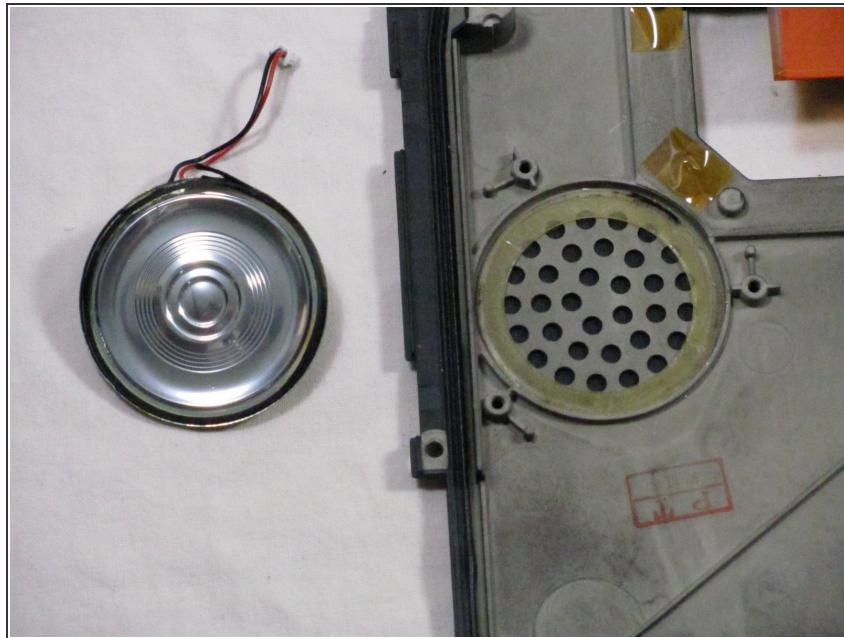
- Place the back cover in front of you so you can access the inside of it.
- Remove the 3 screws holding in the speaker.

Step 10



- Pry out the speaker using a flat screw driver or a blue pry tool. It is held in with an adhesive.

Step 11



- Your speaker is now removed
- Put in your replacement by following the reverse steps.

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