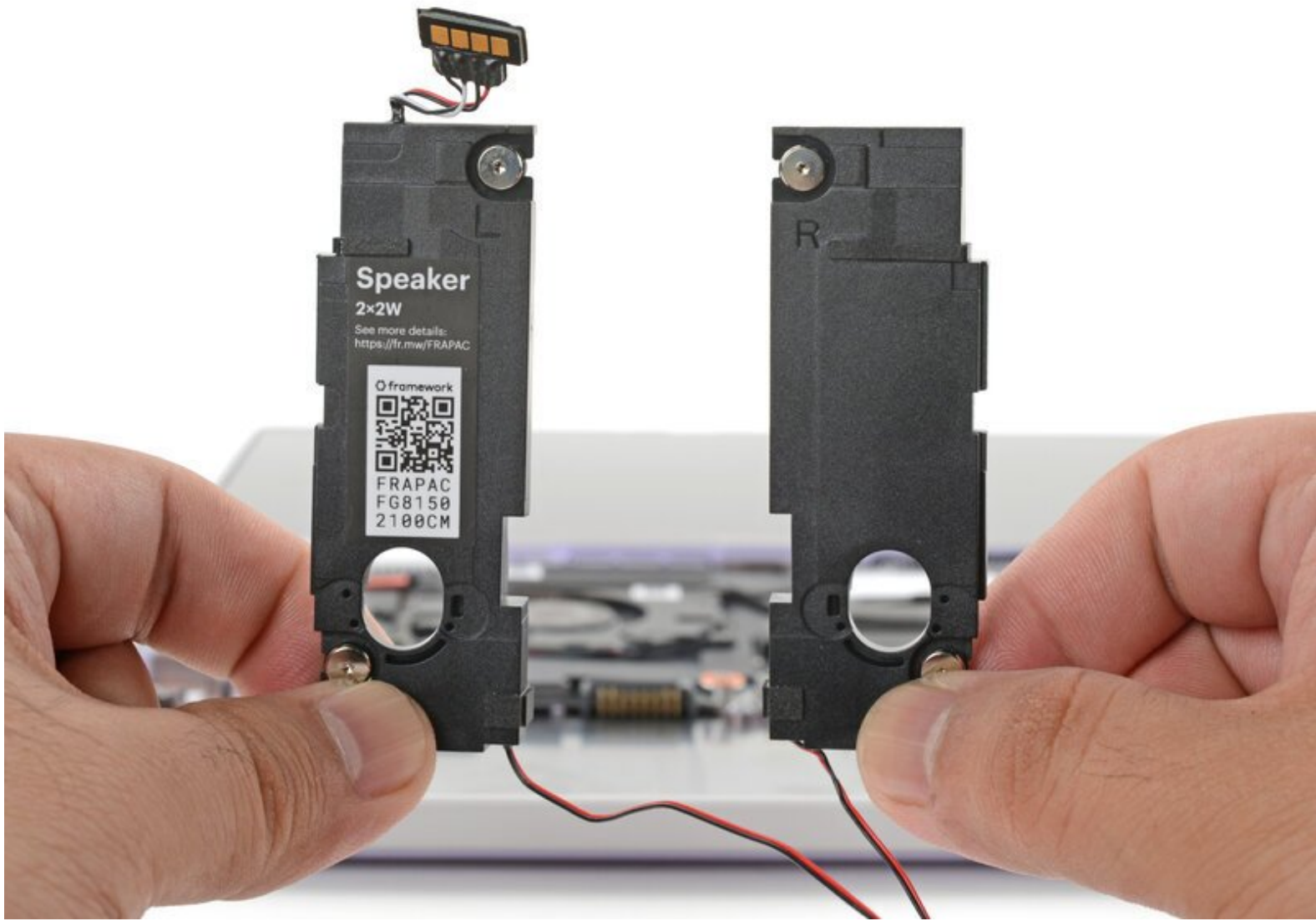




Speakers Replacement on Framework Laptop 12

Written By: Iroh



INTRODUCTION

Follow this guide to remove and replace the speakers in your Framework Laptop 12.

The Speakers are replaced in a pair. If you're not getting any sound or your audio sounds distorted, you may need to replace your Speakers.

You'll encounter some component terms in this guide:

- The **Input Cover** is the part that contains the Keyboard and Touchpad.



TOOLS:

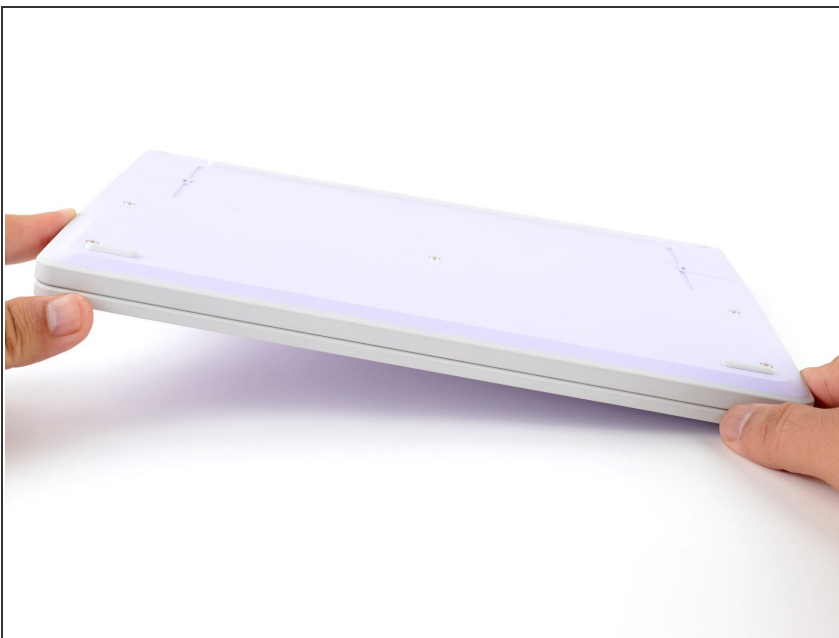
- [Framework Screwdriver](#) (1)
-

Step 1 — Power down your Laptop



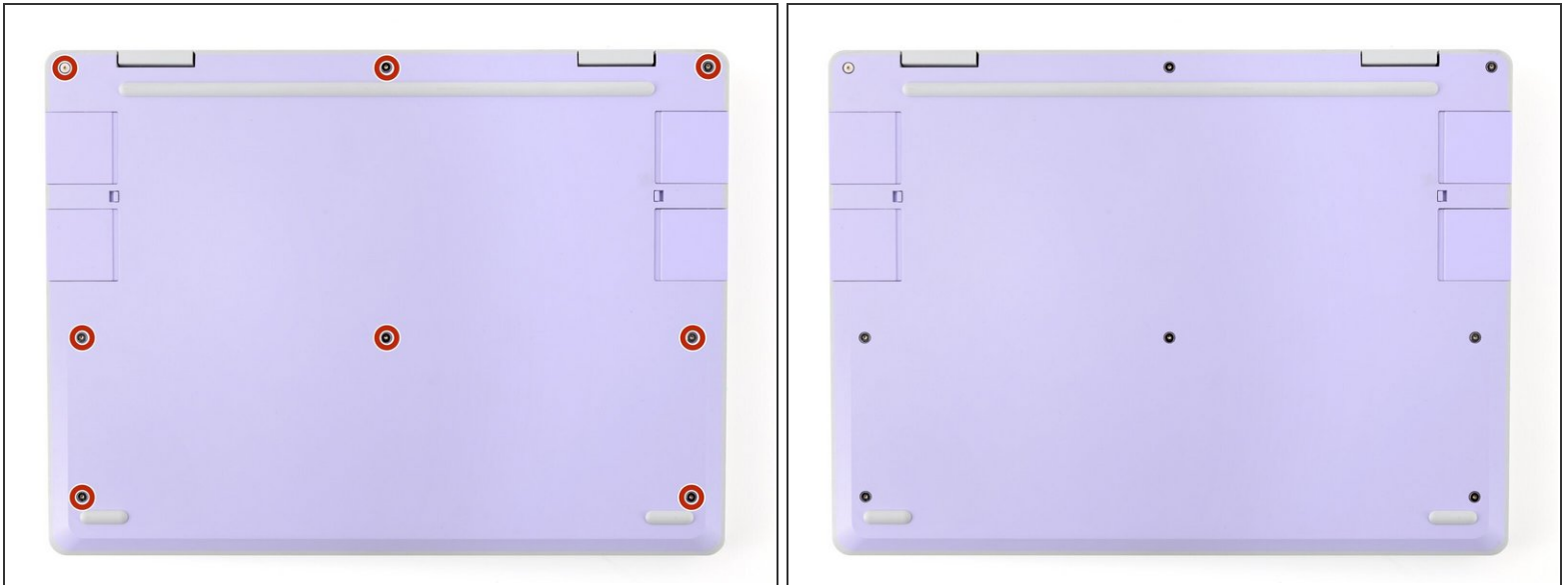
- Before you begin repairs, unplug your Laptop and **shut it down from the operating system**. This ensures that the Laptop isn't in standby/suspend mode.
 - ⓘ The indicator LEDs along the edges should be unlit. The Laptop should be silent.
 - ⓘ If you accidentally turn on the Laptop during repair, hold the power button down for 10 seconds to shut it down.
- Make sure your Framework Screwdriver has the T5 Torx bit (labeled as T-5) facing outwards. If it's not, pull the bit out and flip it.

Step 2 — Set your Laptop down



- Set your Framework Laptop face-down on a clean work surface.

Step 3 — Loosen the bottom screws



- Use your Framework Screwdriver to fully loosen the eight captive T5 Torx screws on the bottom of your Laptop.
 - ① Most screws in your Framework Laptop (including these) are captive—they're designed to stay in place after you loosen them.
 - ① Your Laptop comes with a spare set of screws [in the frame above the battery](#). Be careful—the replacement screws aren't captive.

Step 4 — Flip your Laptop over



- Flip your Laptop over so it's face-up on your work surface.

Step 5 — Open your Laptop



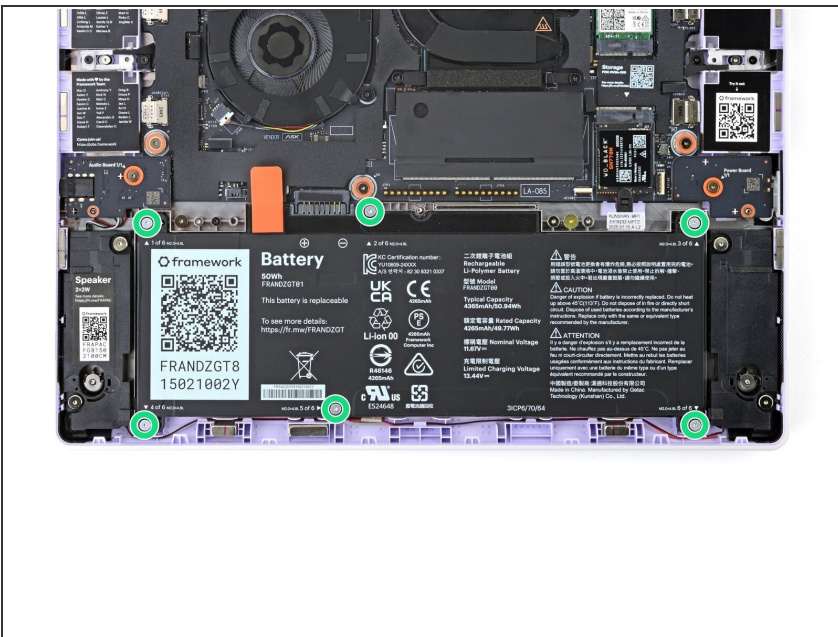
- Open the Laptop lid so that both the screen and the base lie flat on your work surface.

Step 6 — Remove the Input Cover



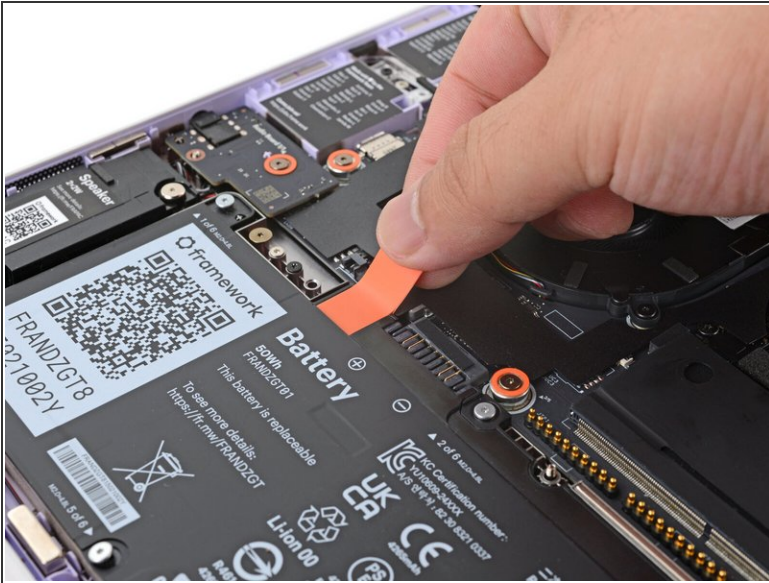
- Use your fingers to grip the Input Cover in the hinge cutouts.
- Lift upwards to swing the Input Cover up from the base of the Laptop.
 - ⓘ There are magnets holding the Input Cover down, so you'll feel some resistance. If it feels like a lot of force is required, check that you've fully loosened all the screws on the bottom of your Laptop.
- Remove the Input Cover.

Step 7 — Loosen the battery screws



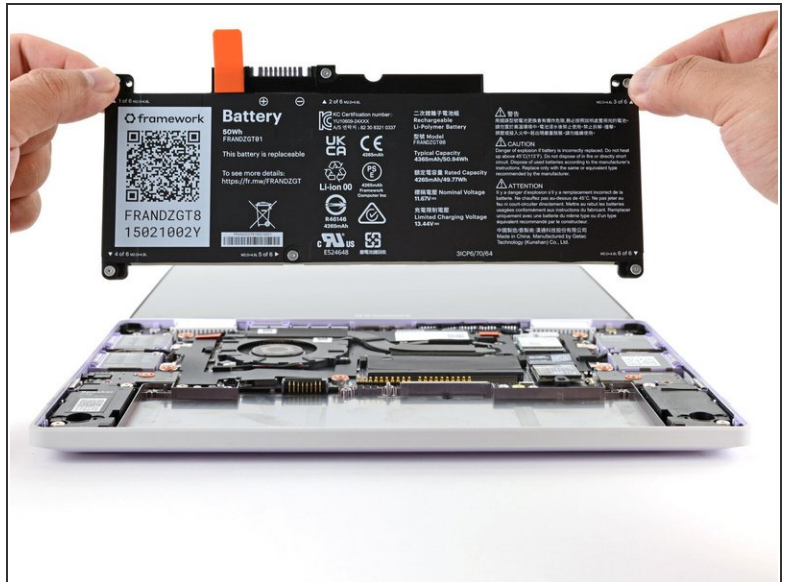
- Use your Framework Screwdriver to loosen the six captive T5 Torx screws securing the battery.

Step 8 — Disconnect the battery



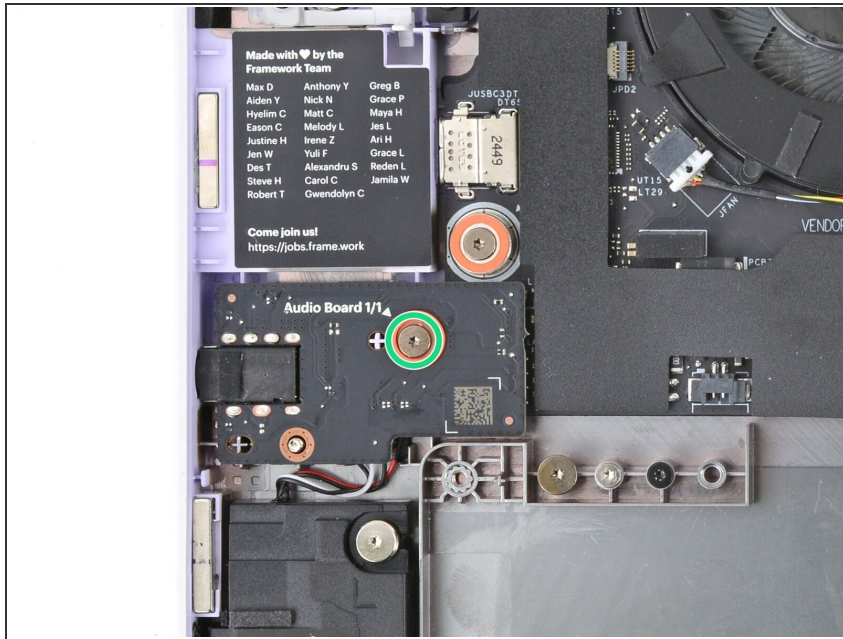
- Grab the orange battery tab with your fingers and lift straight up to disconnect the battery.
 - ① The battery connector can be tight, requiring some force. If it feels like part of the battery won't come up, check that the battery screws are fully loosened.

Step 9 — Remove the Battery



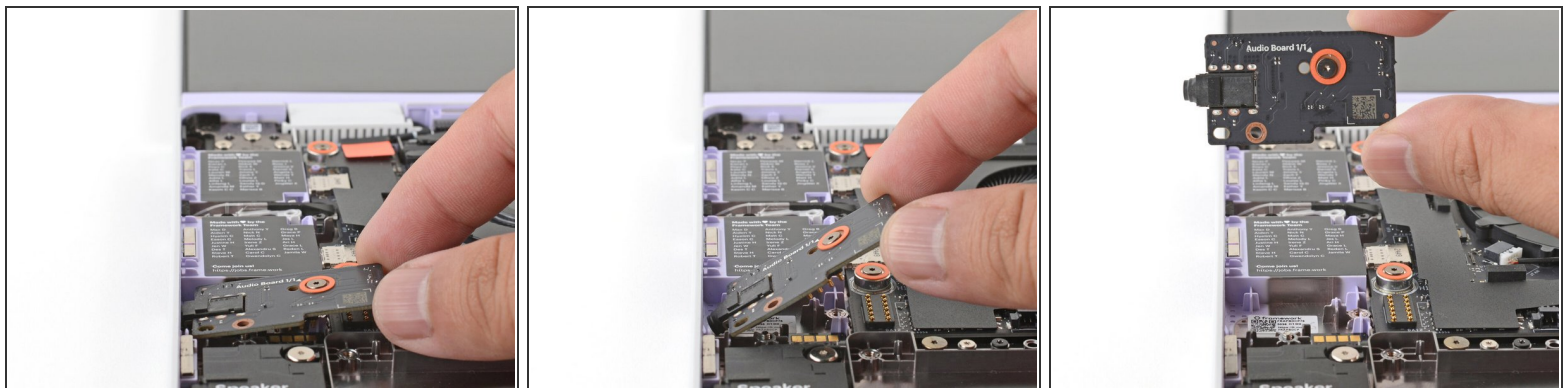
- Lift and remove the battery from the laptop.

Step 10 — Remove the Audio Board



- Use your Framework Screwdriver to loosen the captive T5 Torx screw securing the Audio Board, located near the left edge of the laptop.

Step 11



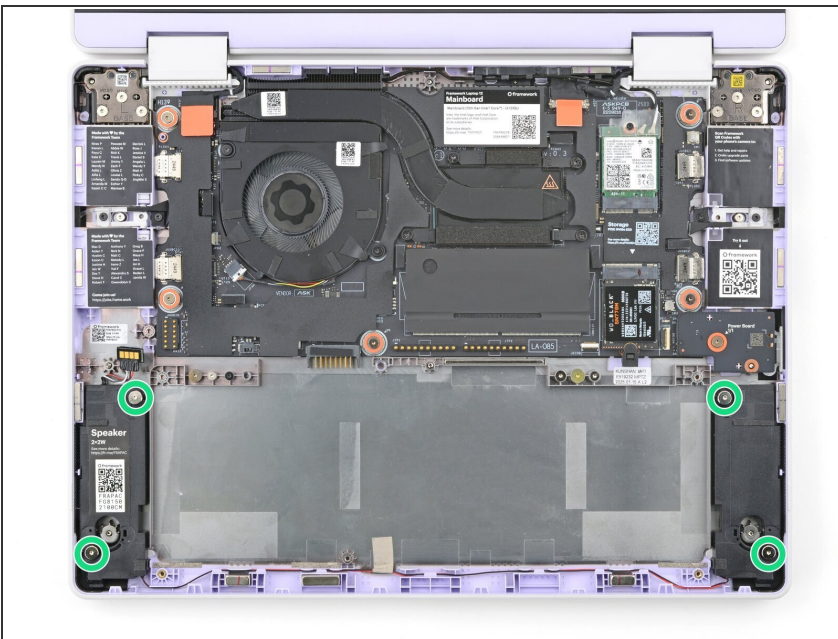
- Use your fingers to lift the right edge of the Audio Board and pull it out of its recess.
- Remove the Audio Board.

Step 12 — Pry up the speaker connector



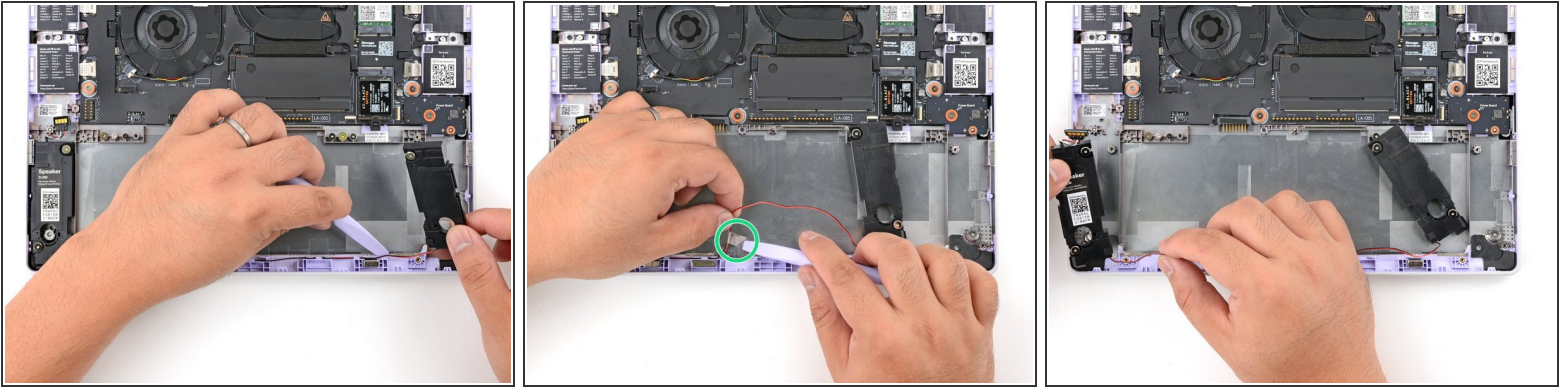
- Use the flat end of your Framework Screwdriver to pry up the speaker connector from its recess near the top of the left speaker.

Step 13 — Loosen the speaker screws



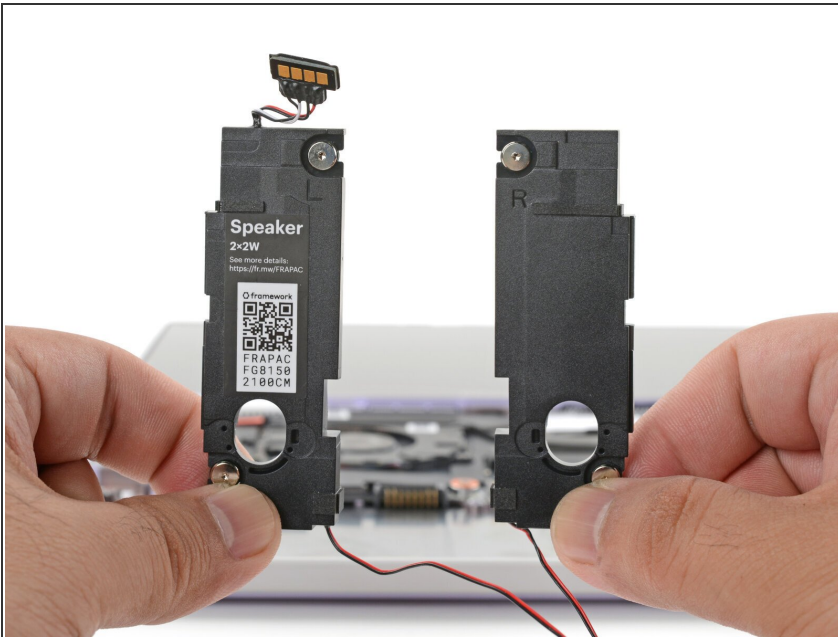
- Use your Framework Screwdriver to loosen the four captive T5 Torx screws (two per speaker) securing the speakers.

Step 14 — Unthread the speaker wire



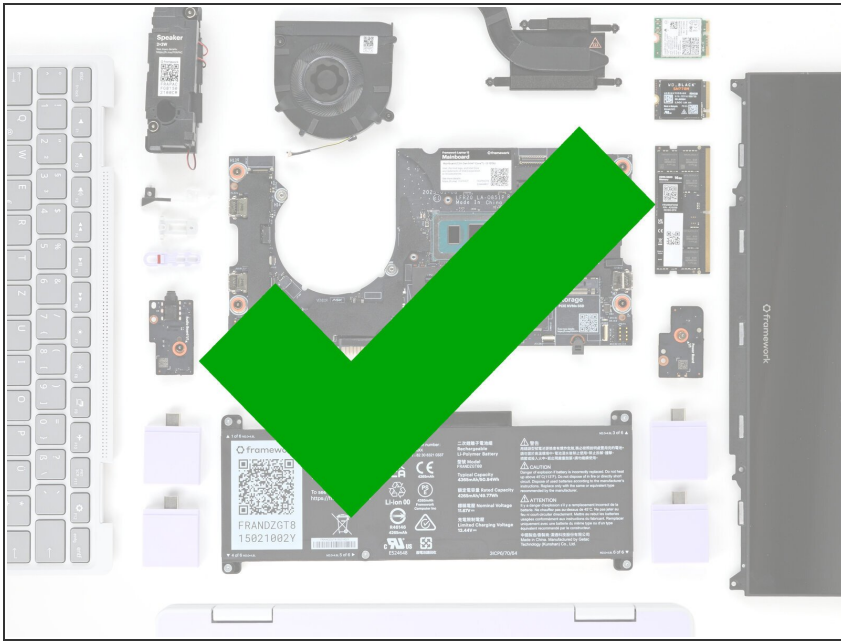
- Use your Framework Screwdriver to lift and guide the wire connecting the two speakers out of the frame channel.
- Use your Framework Screwdriver to lift the silver tape securing the center of the speaker wire to the frame.
- ❗ If you're reusing the speakers, try to keep the silver tape intact.

Step 15 — Remove the speakers



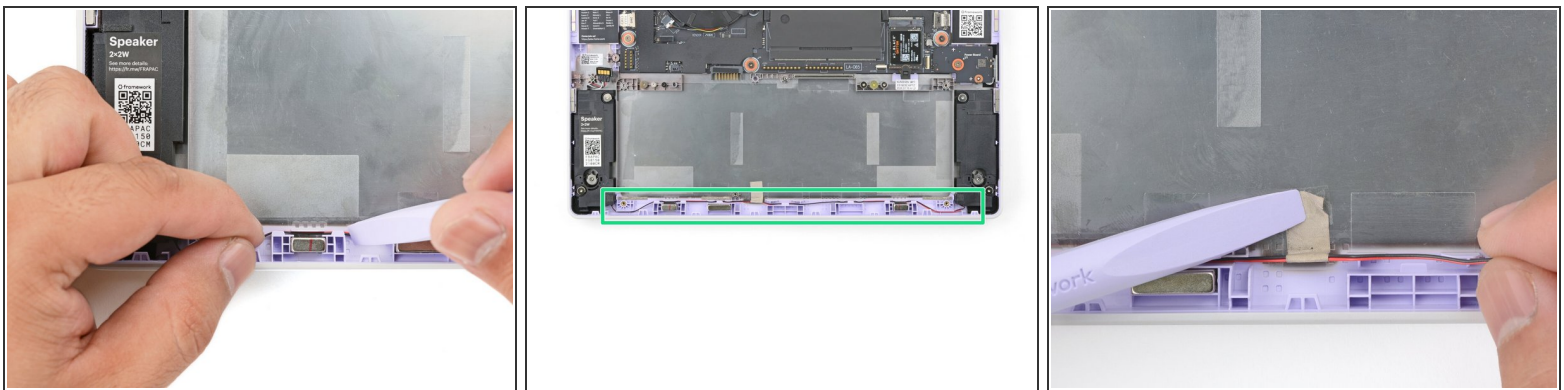
- Remove the speakers.

Step 16 — Disassembly complete



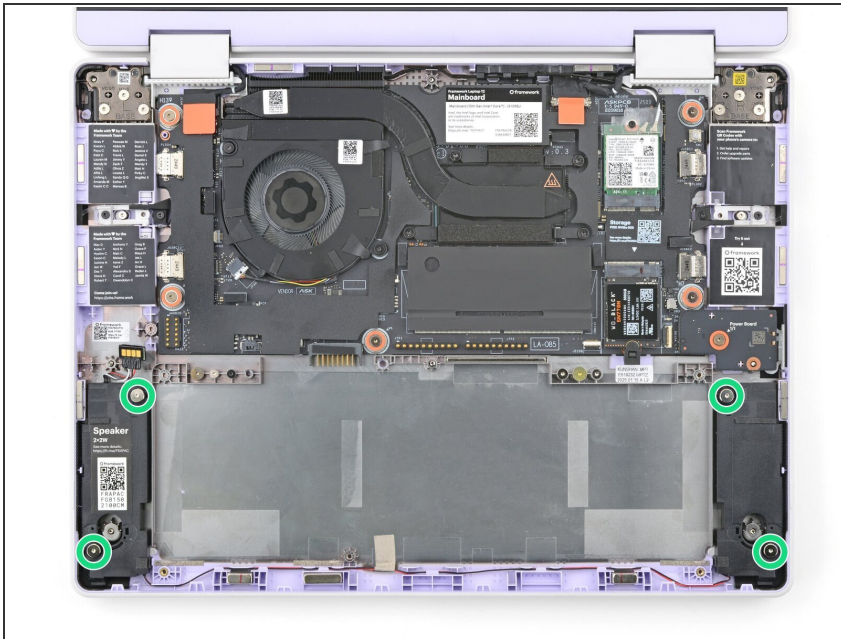
i Congratulations on completing disassembly! **The remaining steps will show how to reassemble your Framework Laptop.**

Step 17 — Install the speakers



- Use your Framework Screwdriver to loosely screw the left speaker in place.
- Starting near the left speaker, use your fingers and your Framework Screwdriver to carefully press and guide the speaker wire back into its channel.
 - Zoom in on the second image to see how the wire sits in its channel.
- Press the silver tape to adhere the center of the wire to the frame.

Step 18



- Use your Framework Screwdriver to tighten the four captive T5 Torx screws to secure the speakers.
- ⓘ The speaker screws have rubber bushings in them to dampen vibrations. Tighten the screws until they're snug. Don't over-tighten them, or you'll damage the bushings.

Step 19 — Seat the speaker connector



- Use the flat end of your Framework Screwdriver to press the speaker connector into its recess.
- ⓘ Make sure the gold contacts are facing up.

Step 20 — Install the Audio Board



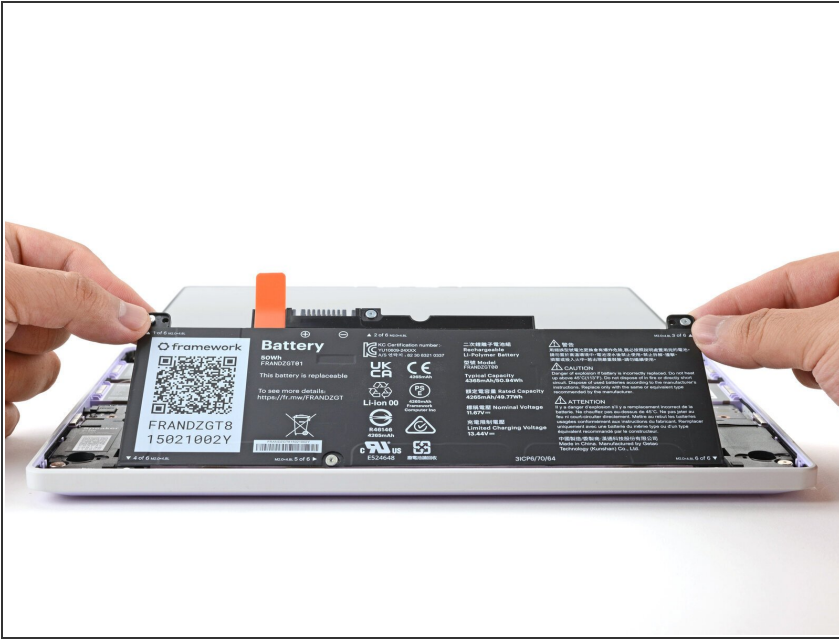
- Insert the Audio Board into the laptop at an angle to help align the headphone jack.
 - Use the two plastic alignment pins on the laptop to help with final alignment.

Step 21 — Tighten the Audio Board screw



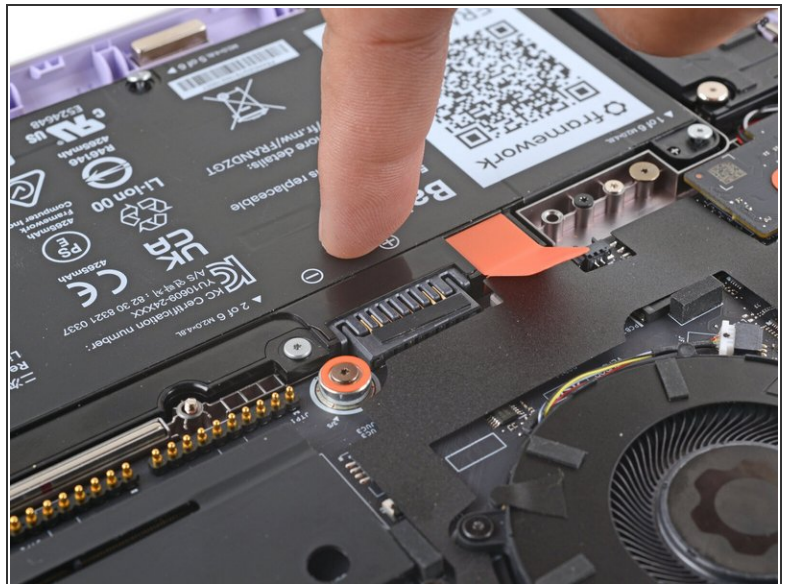
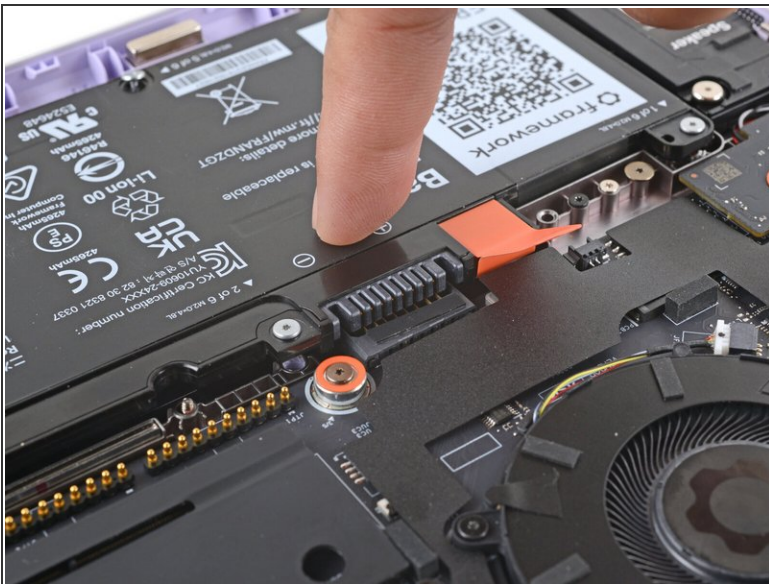
- Use your Framework Screwdriver to tighten the captive T5 Torx screw to secure the Audio Board.

Step 22 — Install the Battery



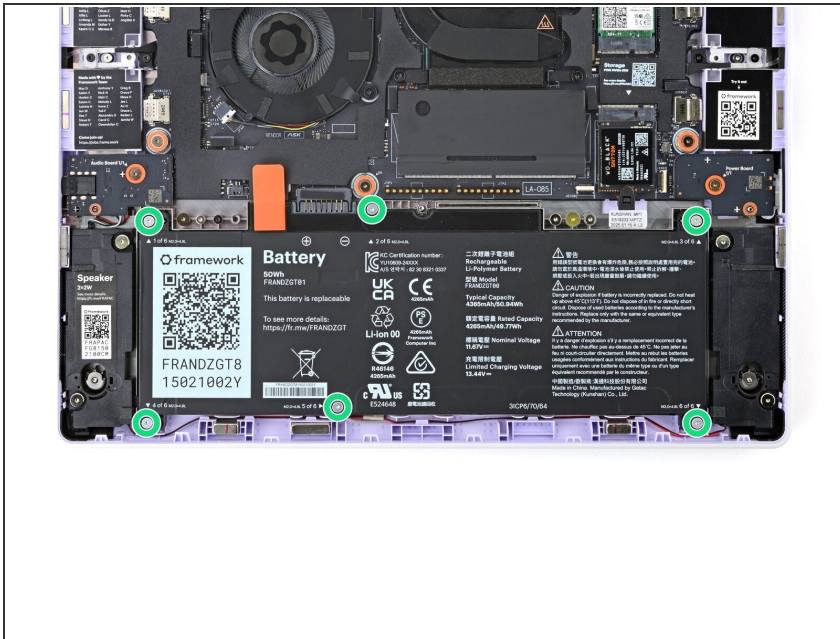
- Lay the battery in its recess in the laptop.

Step 23



- Use your finger to push the battery down near its connector to reconnect it.

Step 24



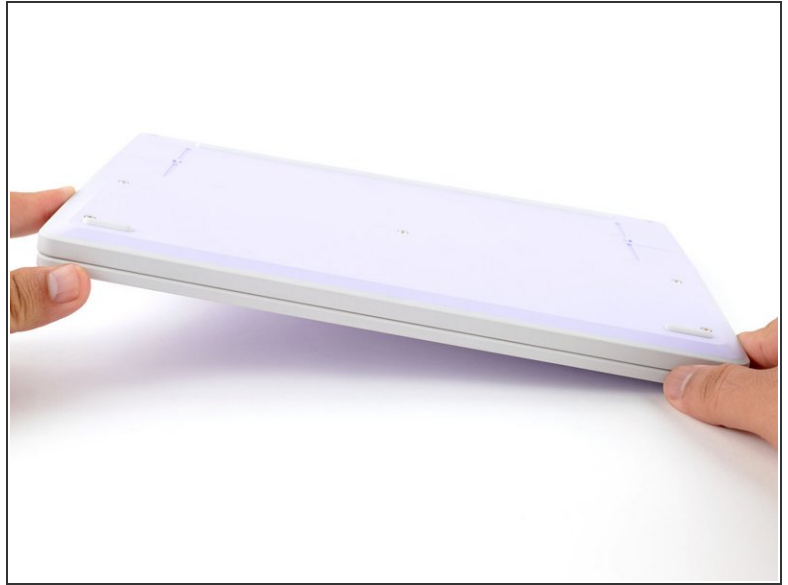
- Use your Framework Screwdriver to tighten the six captive T5 Torx screws to secure the battery.
- ⓘ Tighten the screws until they're snug. Don't over-tighten them, or you may strip the screws.

Step 25 — Install the Input Cover



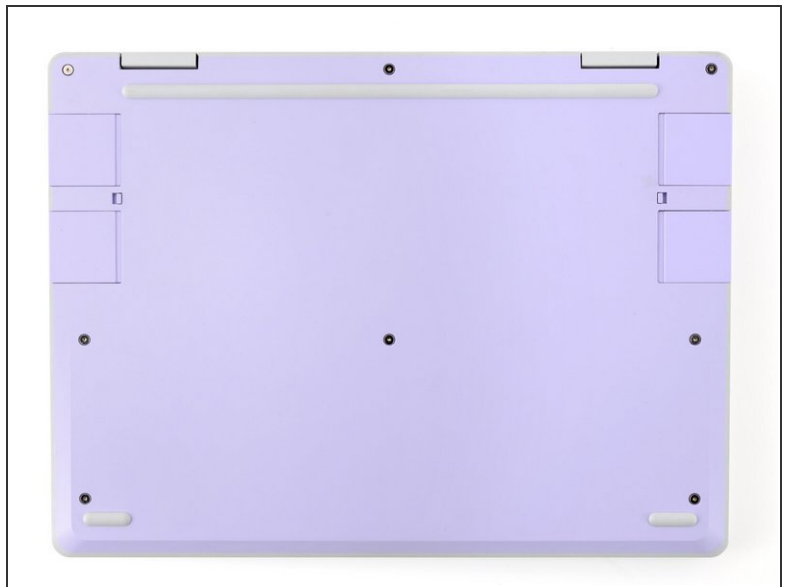
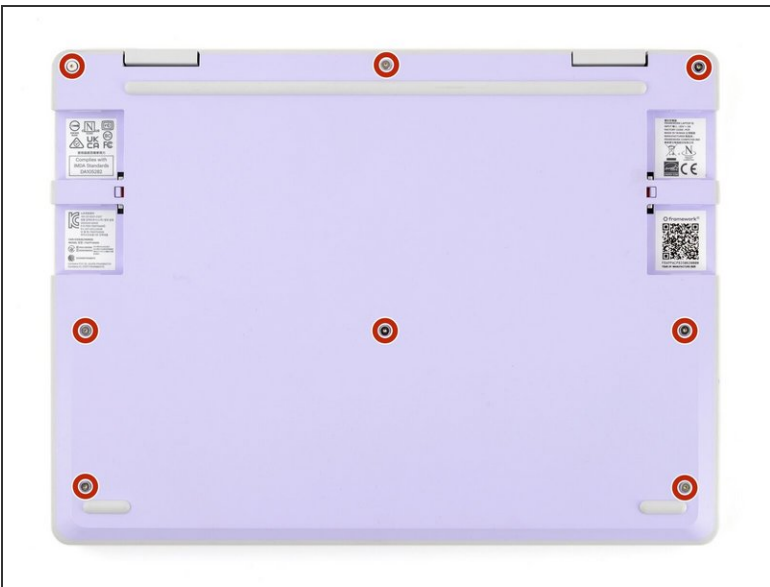
- Angle the bottom edge of the Input Cover towards the base of the Laptop.
- Align and insert the bottom edge of the Input Cover into the base of the Laptop.
 - ⓘ Make sure the [slots along the bottom edge of the Input Cover](#) slide into the tabs in the base.
- Lower the Input Cover's top edge onto the laptop until the magnets snap it in place.
 - ⓘ Make sure the Input Cover sits neatly within the laptop frame and no corners are popping up.

Step 26 — Close and flip your Laptop



- Close the Laptop lid.
- Flip your Laptop face-down on a clean work surface.

Step 27 — Tighten the bottom screws



- Use your Framework Screwdriver to tighten the eight captive T5 Torx screws on the bottom of your Laptop.
 - ⓘ Tighten the screws until they're snug. Don't over-tighten them, or you may strip the screws.

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You finished fixing your Framework Laptop!

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

If you need help, [contact Framework support](#).