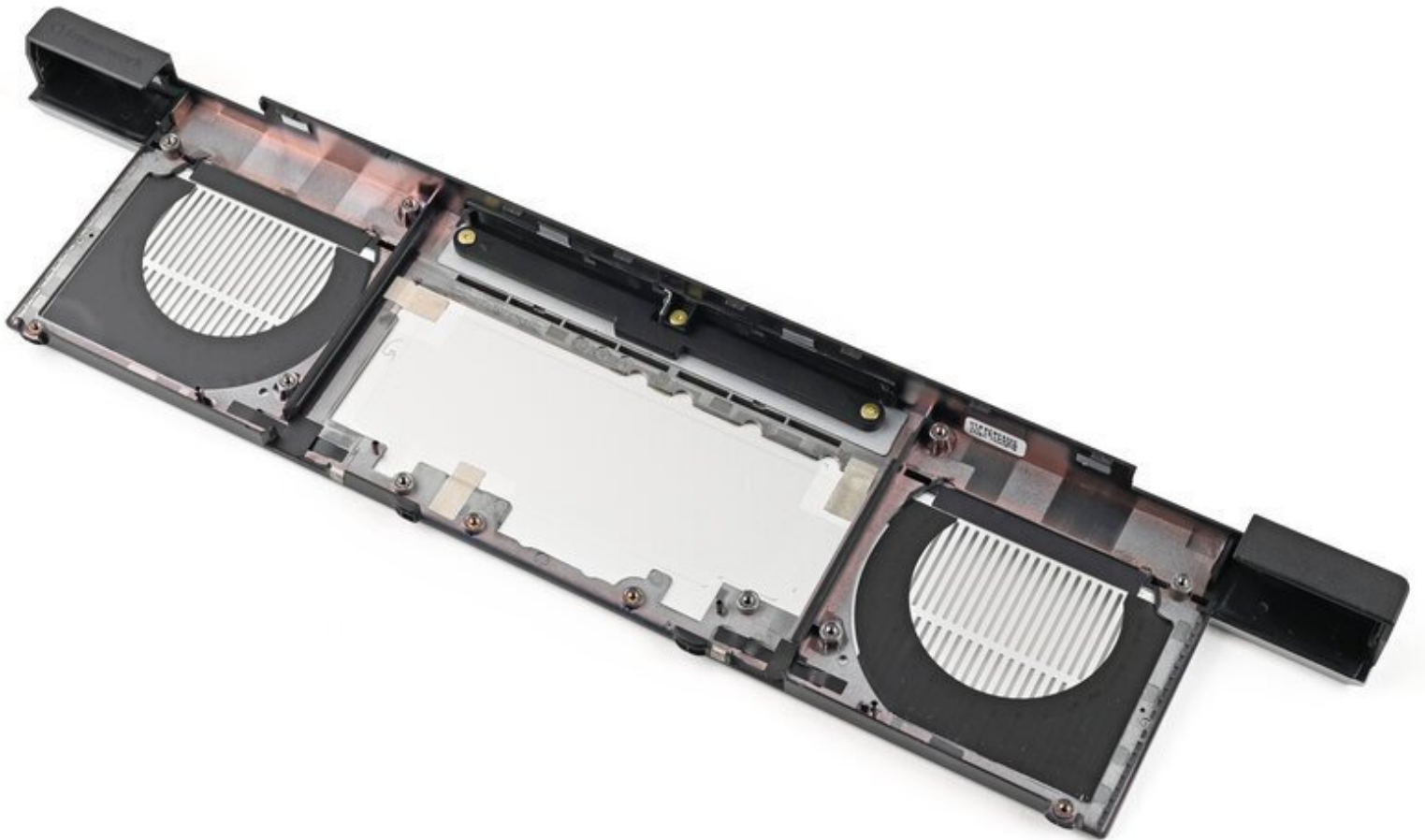




Expansion Bay Module

Written By: Iroh



INTRODUCTION

Use this guide to remove and replace the Expansion Bay Shell Cover in your Framework Laptop 16.

TOOLS:

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

Step 1 — Before you begin



- Unplug all cables and fully shut down your laptop.

Step 2 — Unlock the Input Modules



- Use your fingernail to pull out the two Input Module latches and unlock them.
 - ⓘ The latch will show red if it's unlocked.

Step 3 — Remove the Touchpad Spacers



- Use your fingers to slide the Touchpad Spacer toward the bottom edge of the laptop and unclip it.
 - ❗ If you're having trouble, check if the corresponding Input Module latch is properly unlocked.
- Lift the Touchpad Spacer off the laptop and remove it.

Step 4



- Repeat the same procedure for the other touchpad spacer.

Step 5 — Remove the Touchpad Module



- Use your fingers to slide the Touchpad Module toward the bottom edge of the laptop and disconnect it.
 - ❗ If you're having trouble, check if the Input Module latches are properly unlocked.
- Lift the Touchpad Module and remove it.

Step 6 — Remove the keyboard



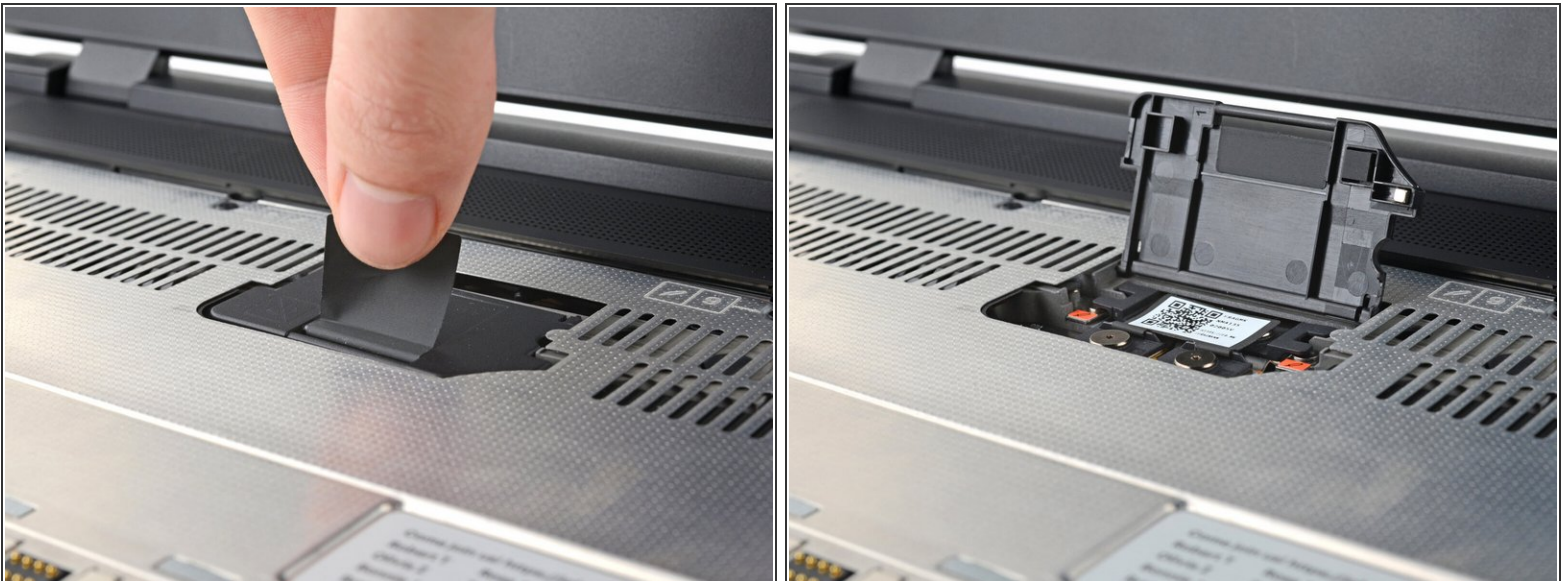
- ❗ The keyboard is held in place with strong magnets. Apply gradually increasing force to avoid having the keyboard violently eject.
- Grip the two pull tabs along the bottom of the keyboard and lift until its magnets release.
- Remove the keyboard.

Step 7 — Remove the Input Modules



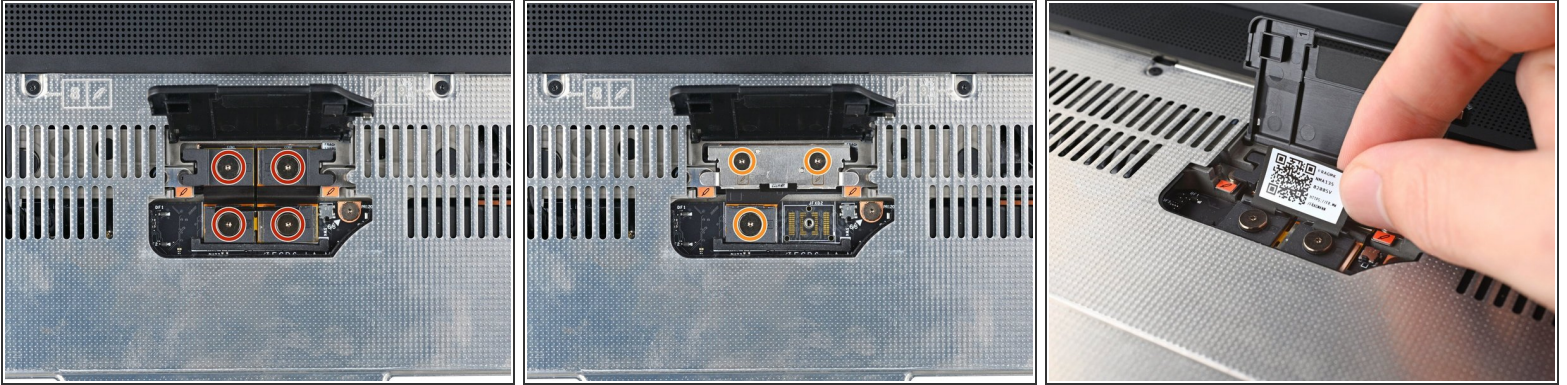
- ❗ Your Input Module(s) might be different, but the procedure to remove them is the same.
- Grip the pull tab at the bottom of the Input Module and lift until its magnets release.
 - Remove the Input Module.
 - Repeat for any remaining Input Modules.

Step 8 — Lift the interposer door



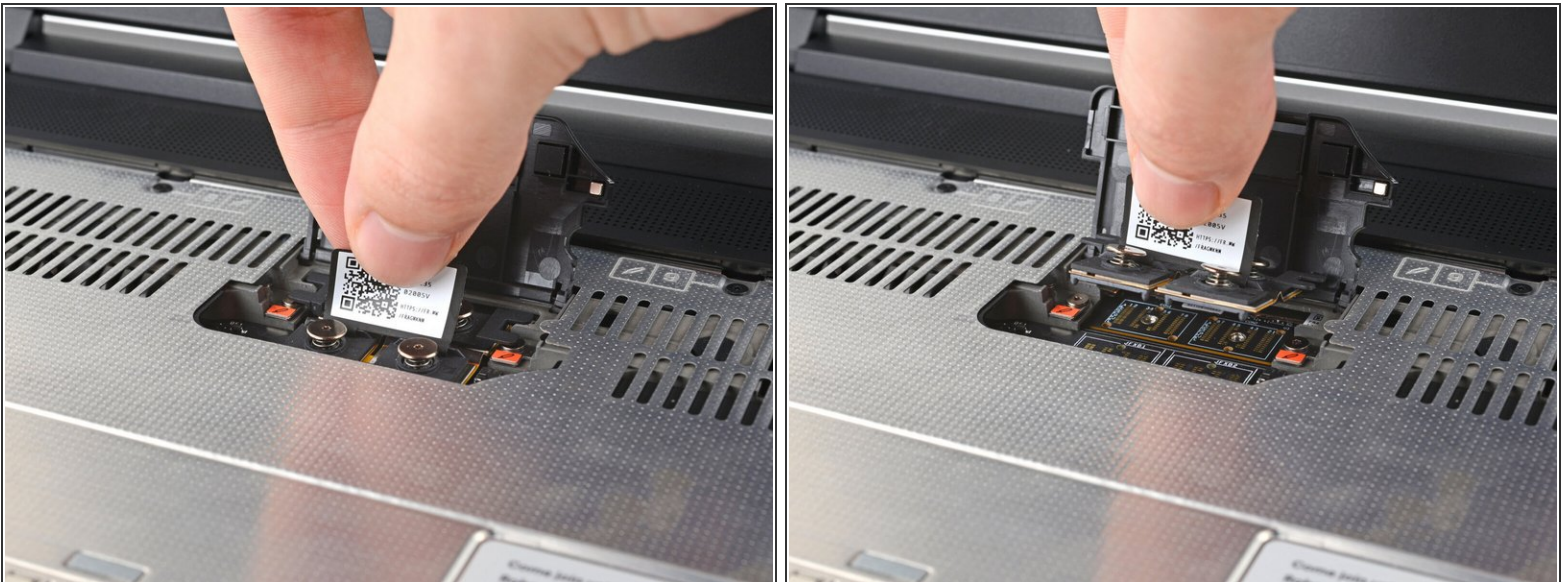
- Lift the interposer door by its black pull tab and let it rest upright.

Step 9 — Loosen the interposer screws



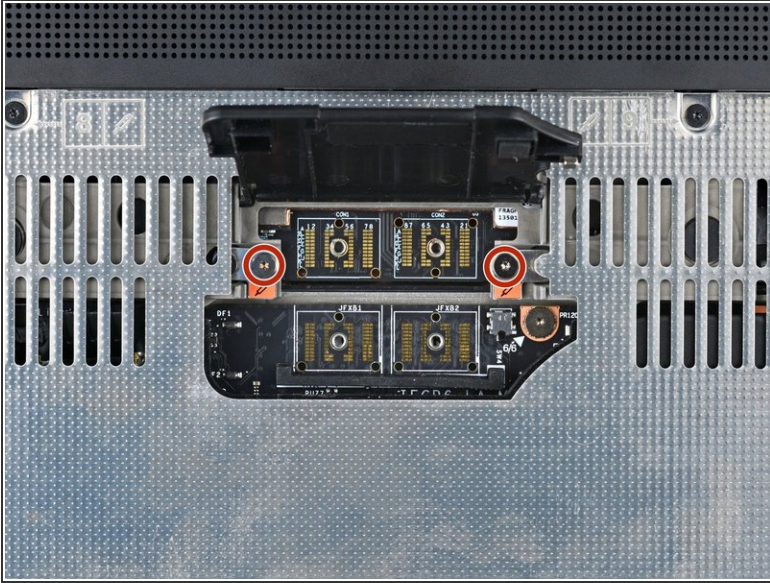
- ❗ If you have the Graphics Module installed, your interposer will have four screws. If you have the Expansion Bay Shell installed, you'll have three screws instead.
- If you have the Graphics Module, use your Framework Screwdriver to loosen the four captive T5 Torx screws securing the interposer.
- If you have the Expansion Bay Shell, use your Framework Screwdriver to loosen the three captive T5 Torx screws securing the interposer.

Step 10 — Remove the interposer



- Lift the interposer by its pull tab and remove it.

Step 11 — Loosen the Expansion Bay Module screws



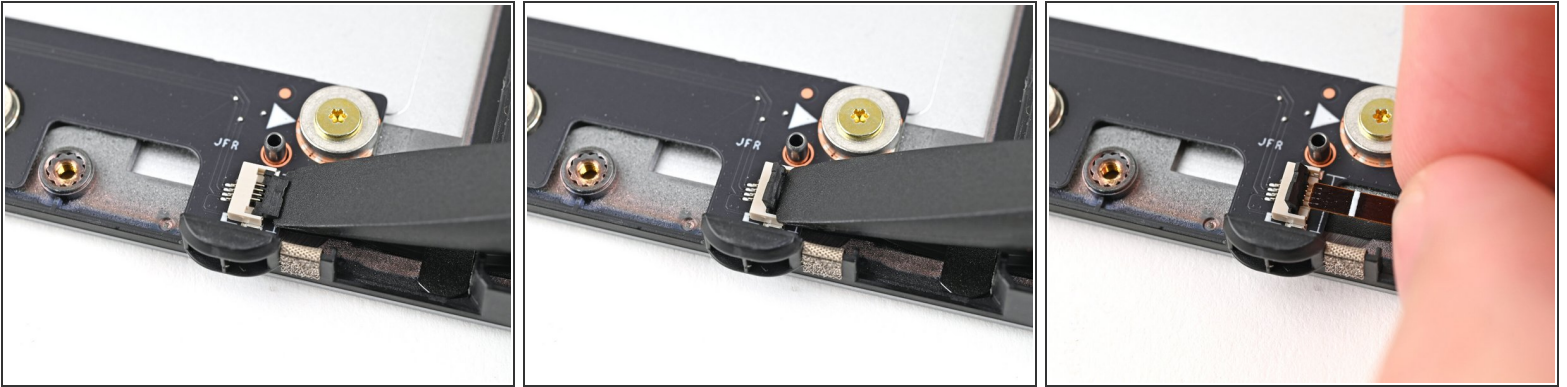
- Use your Framework Screwdriver to loosen the two captive T5 Torx screws securing the Expansion Bay Module.
- Close the interposer door before continuing.

Step 12 — Remove the Expansion Bay Module



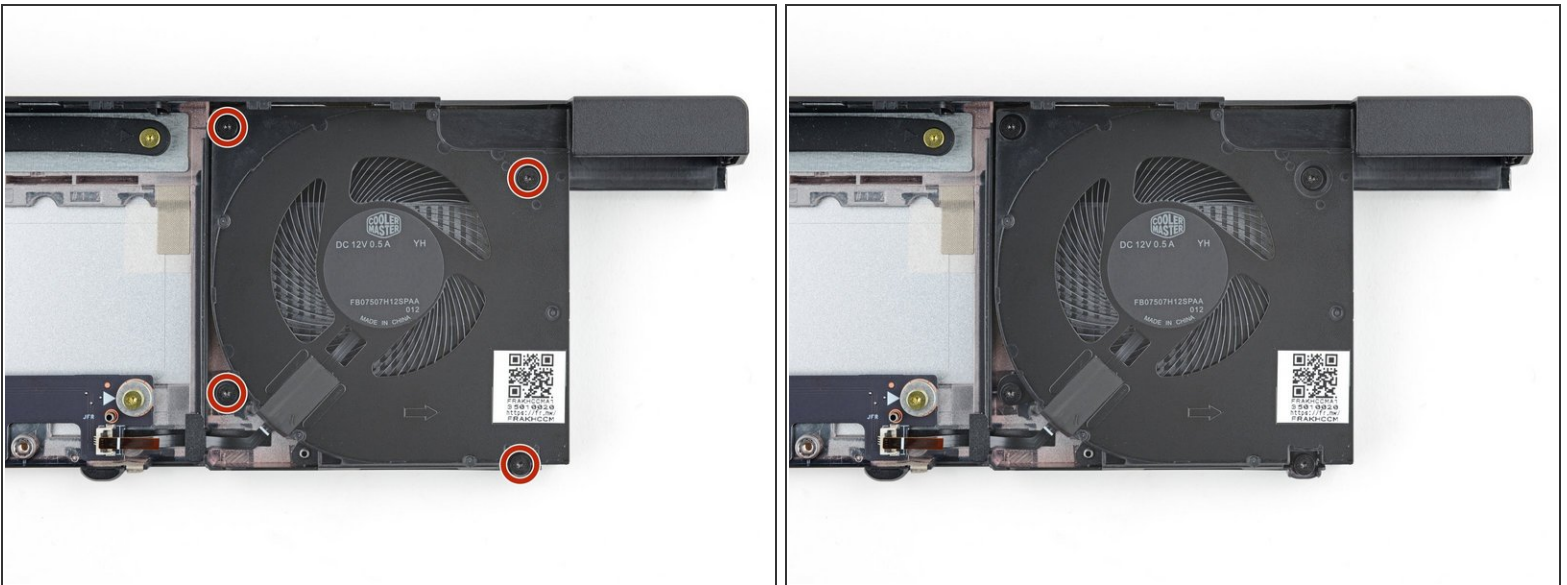
- Close your laptop and flip it over.
- Slide the Expansion Bay Module out of the laptop and remove it.
 - ① The module should slide out easily. If you feel any resistance, check that the screws holding it in place are fully loosened.

Step 13 — Disconnect the right fan



- Use the flat end of your Framework Screwdriver, or a clean fingernail, to lift up and release the locking tab on the right fan [ZIF connector](#).
- Use your fingers to grip the brown pull tab and slide the right fan cable straight out of its socket.

Step 14 — Loosen the right fan screws



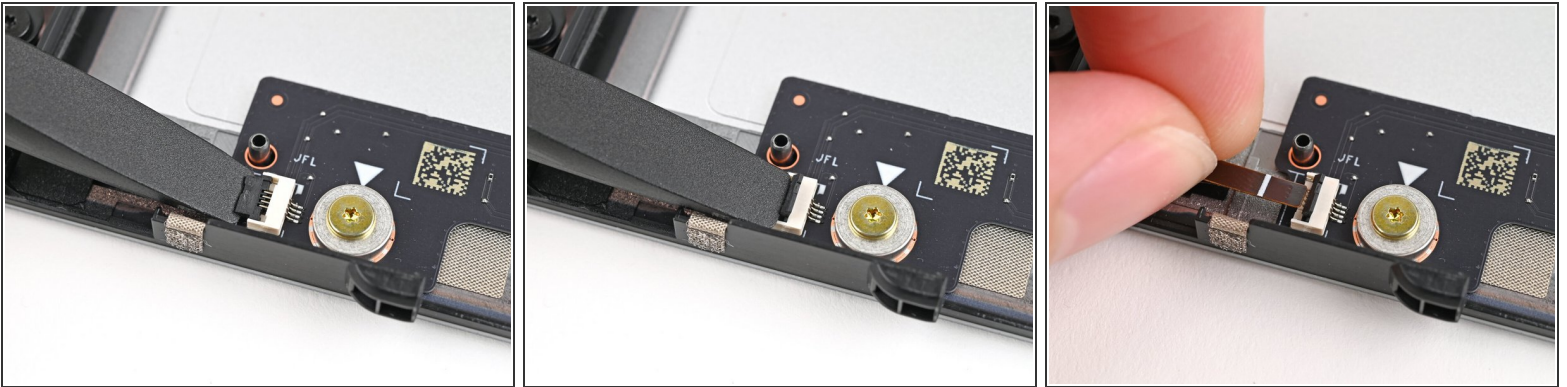
- Use your Framework Screwdriver to loosen the four captive Torx T5 screws securing the right fan.

Step 15 — Remove the right fan



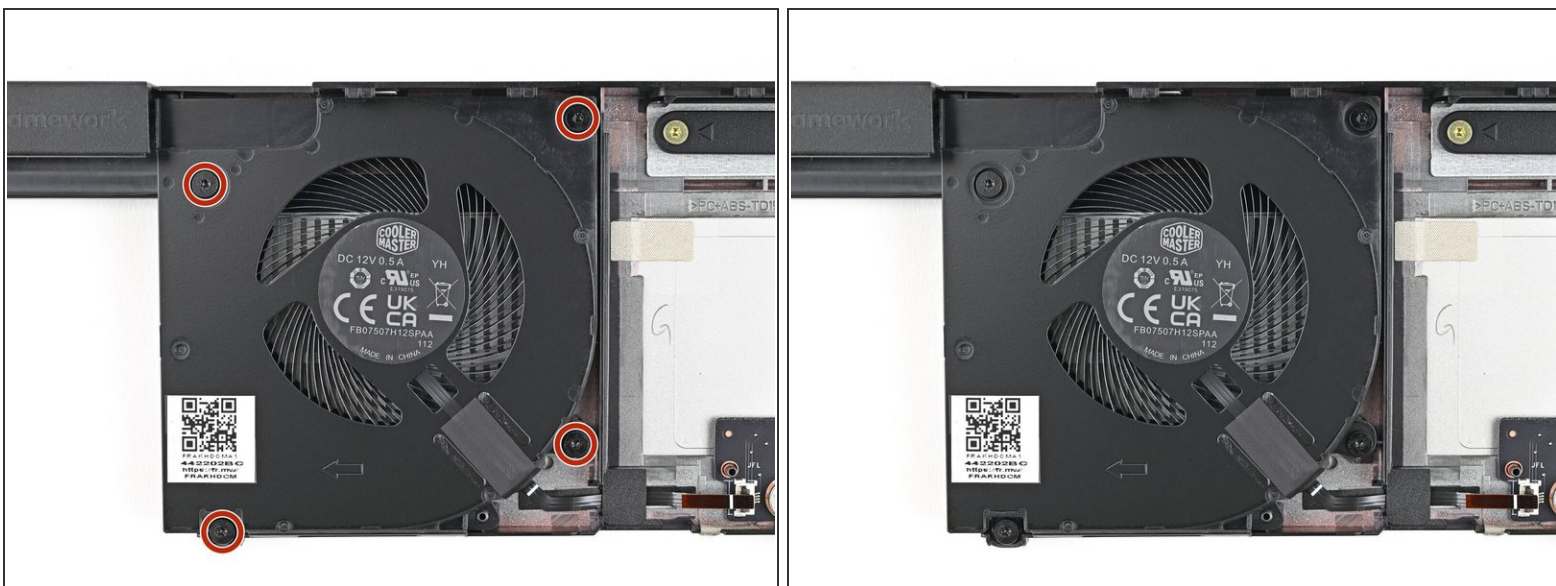
- Use one hand to press the right fan cable flat to the module.
- Use your other hand to pull the fan out of its housing, making sure to thread the cable through [its slot](#).

Step 16 — Disconnect the left fan



- Use the flat end of your Framework Screwdriver, or a clean fingernail, to lift up and release the locking tab on the left fan ZIF connector.
- Use your fingers to grip the brown pull tab and slide the left fan cable straight out of its socket.

Step 17 — Loosen the left fan screws



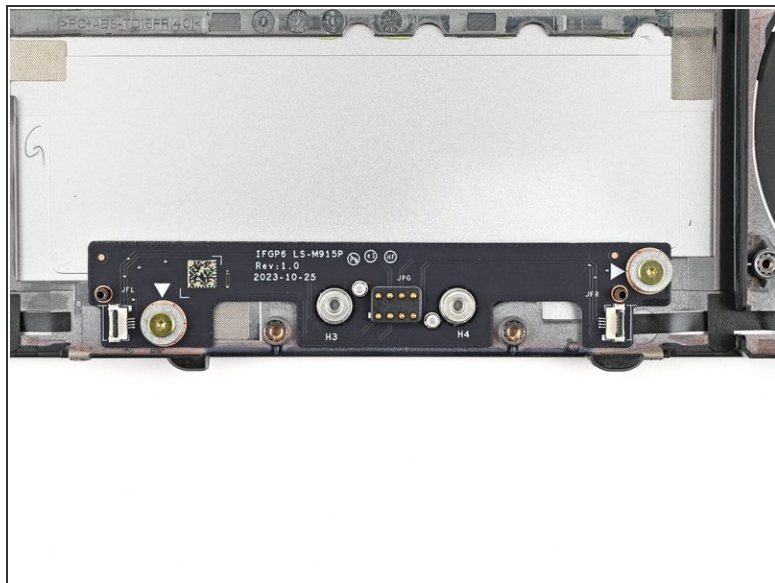
- Use your Framework Screwdriver to loosen the four captive Torx T5 screws securing the left fan.

Step 18 — Remove the left fan



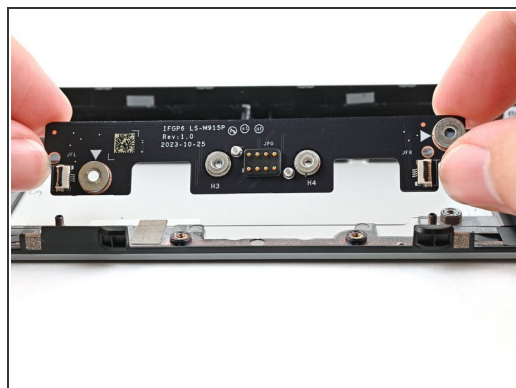
- Use one hand to press the left fan cable flat to the module.
- Use your other hand to pull the fan out of its housing, making sure to thread the cable through [its slot](#).

Step 19 — Remove the Expansion Bay Shell Fan Board screws



- Use your Framework Screwdriver to remove the two 3.6 mm-long screws securing the Expansion Bay Shell Fan Board.

Step 20 — Remove the Expansion Bay Shell Fan Board



- Use your fingers to lift the board straight off the Expansion Bay Shell and remove it.

Step 21 — Disassembly complete



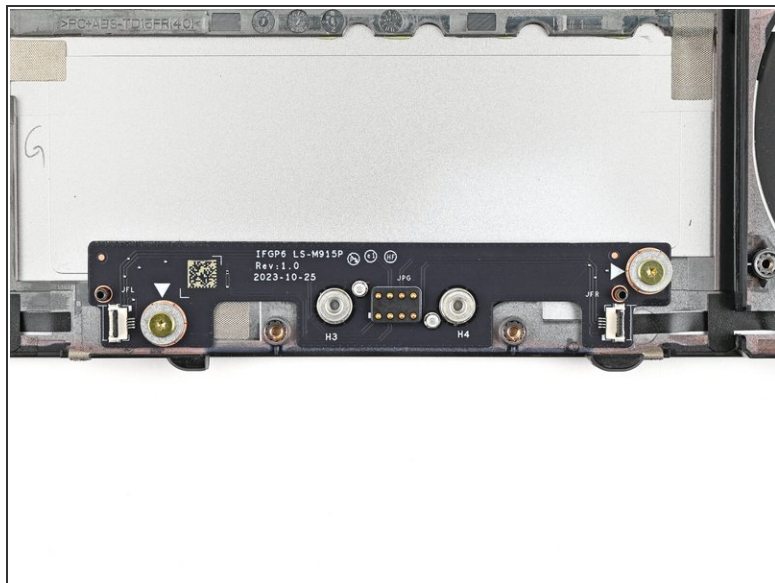
- Congratulations on completing disassembly! **The remaining steps will show how to reassemble your Framework Laptop.**

Step 22 — Place the Expansion Bay Shell Fan Board



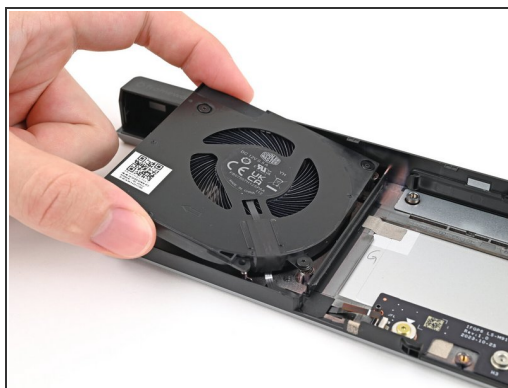
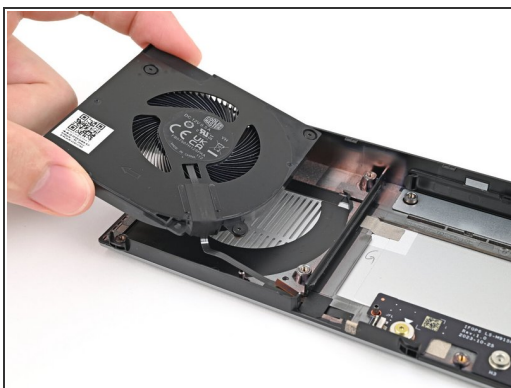
- Place the board straight on its [alignment pegs](#) on the Expansion Bay Shell.

Step 23 — Install the Expansion Bay Shell Fan Board screws



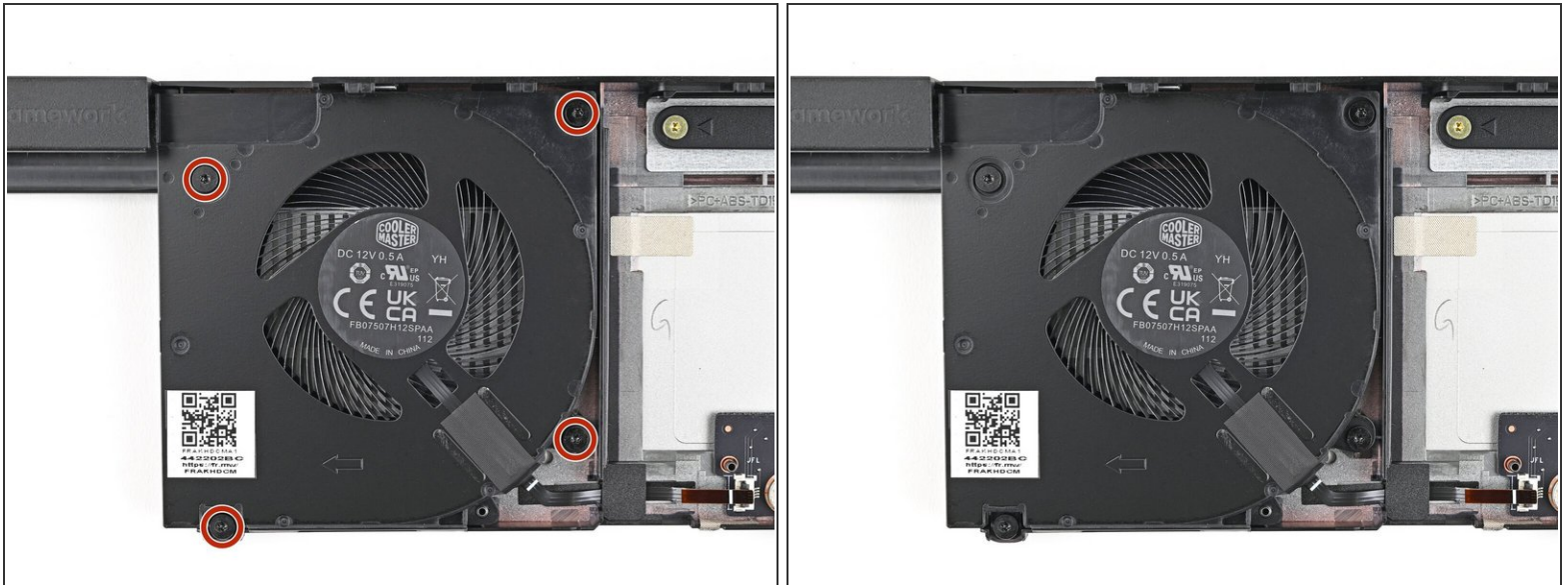
- Use your Framework Screwdriver to install the two 3.6 mm-long screws securing the Expansion Bay Shell Fan Board.

Step 24 — Place the left fan



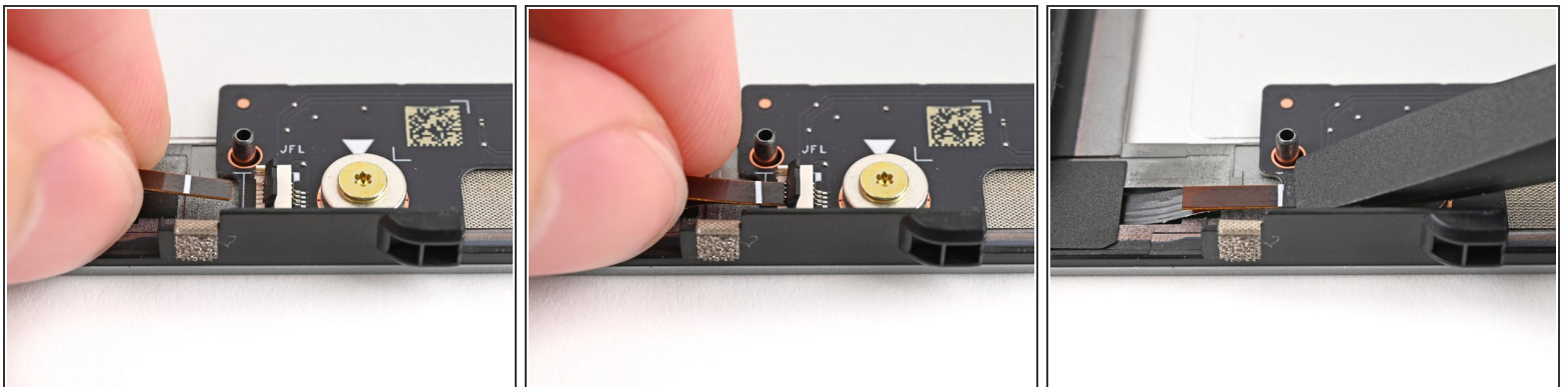
- Place the left fan onto the Expansion Bay Shell, making sure to thread the cable through [its slot](#).

Step 25 — Install the left fan screws



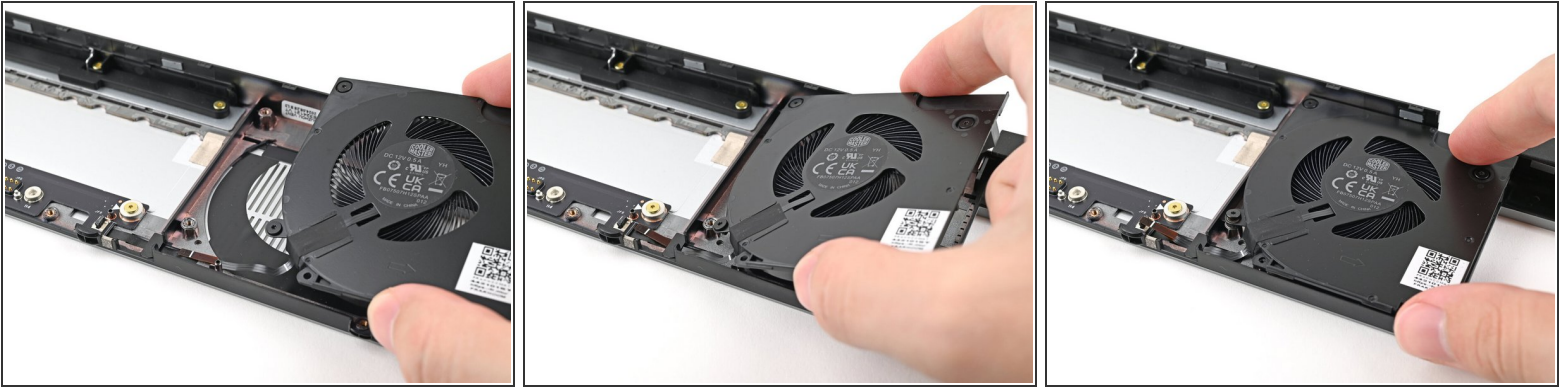
- Use your Framework Screwdriver to tighten the four captive Torx T5 screws securing the left fan.

Step 26 — Connect the left fan



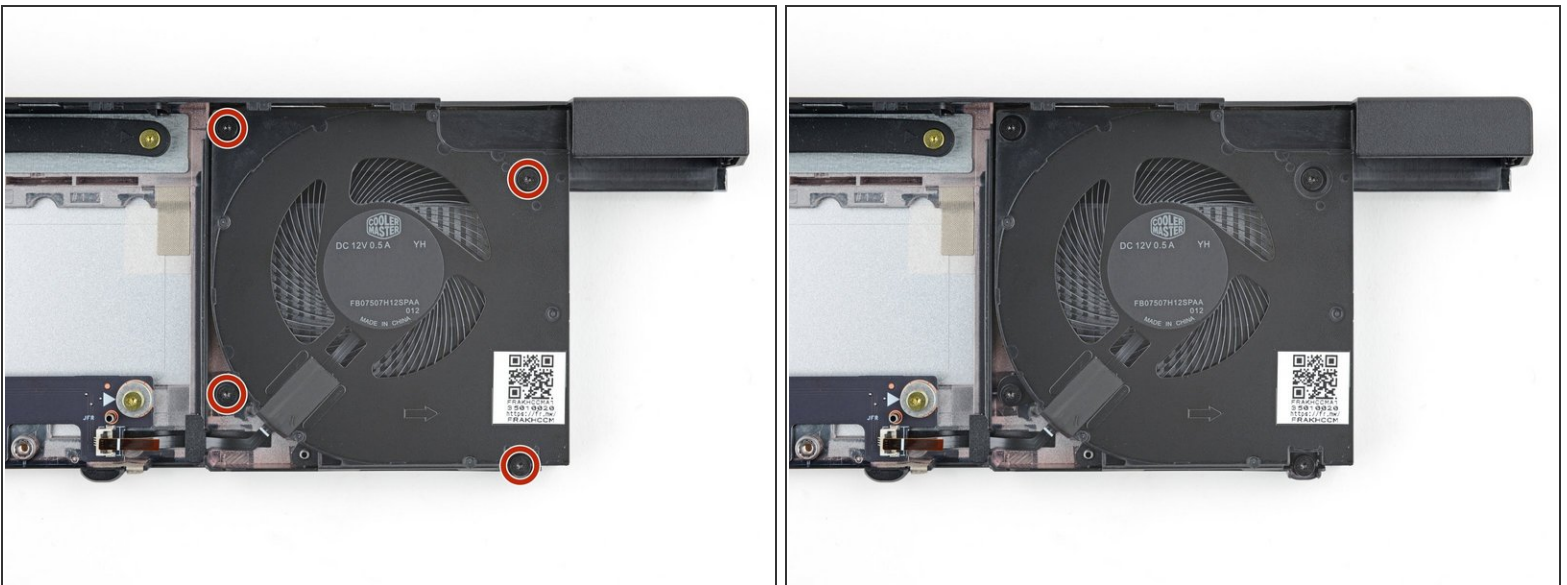
- Use your fingers to grip the brown pull tab and slide the left fan cable straight into its socket.
- Use the flat end of your Framework Screwdriver, or a clean fingernail, to press down the locking tab on the left fan ZIF connector.

Step 27 — Place the right fan



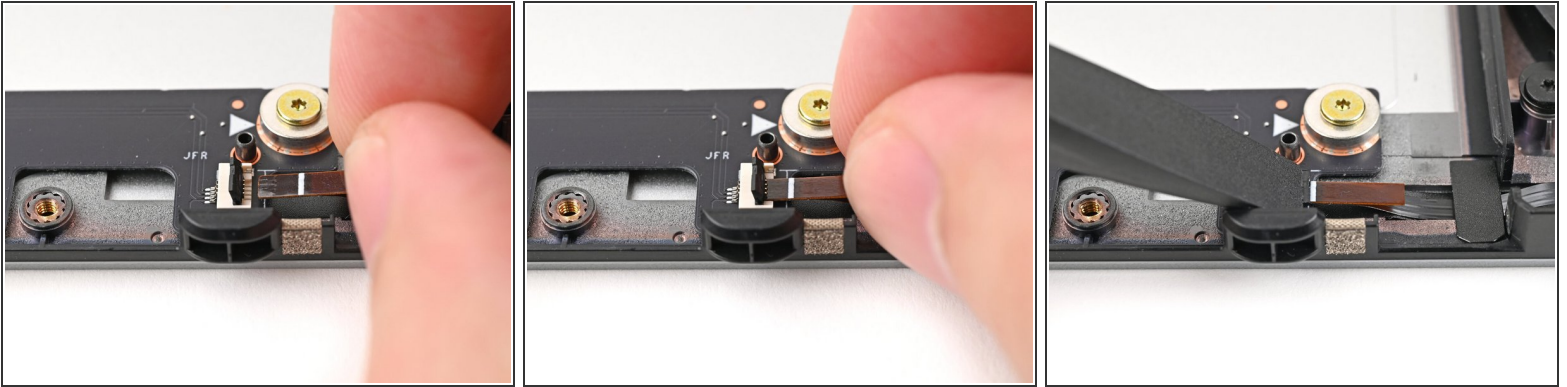
- Place the right fan onto the Expansion Bay Shell, making sure to thread the cable through [its slot](#).

Step 28 — Install the right fan screws



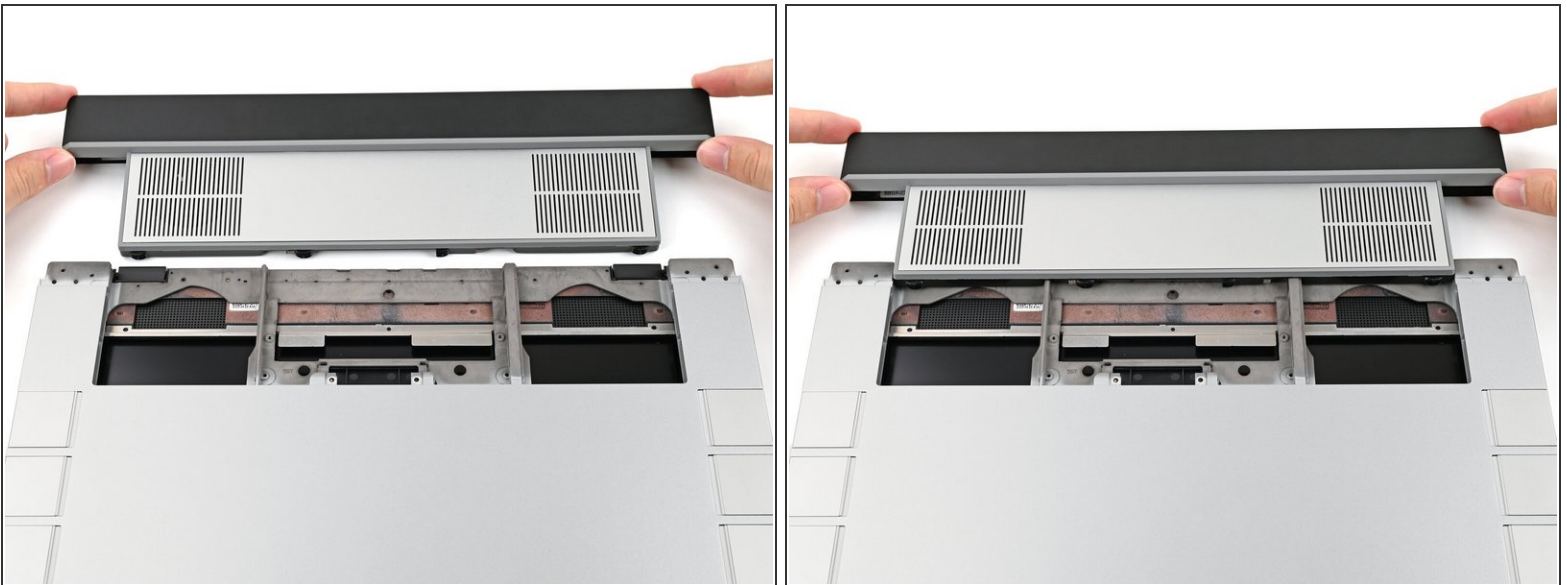
- Use your Framework Screwdriver to tighten the four captive Torx T5 screws securing the right fan.

Step 29 — Connect the right fan



- Use your fingers to grip the brown pull tab and slide the right fan cable straight into its socket.
- Use the flat end of your Framework Screwdriver, or a clean fingernail, to press down the locking tab on the right fan ZIF connector.

Step 30 — Insert the Expansion Bay Module



- Align the Expansion Bay Module with its slot in the laptop.
 - ① Check that the module sits evenly with [the rail on the outside edges of the slot](#).
 - ① Check that [the two center rails](#) are threaded between the fans.

Step 31



- While keeping the module level with the laptop, slide it into its slot.
 - ① The module should slide in easily. If you feel any resistance, pull the module out and realign it.
 - ① You should hear an audible "click" when the module's clips snap into place.

Step 32



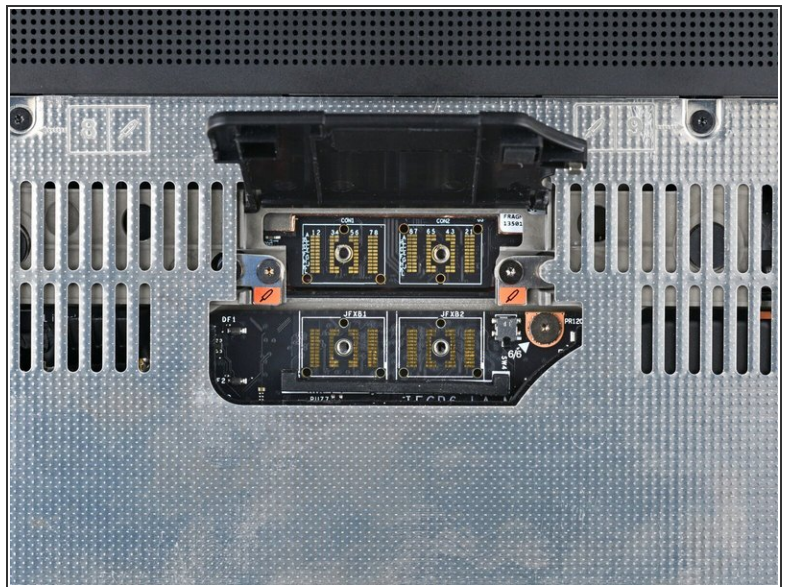
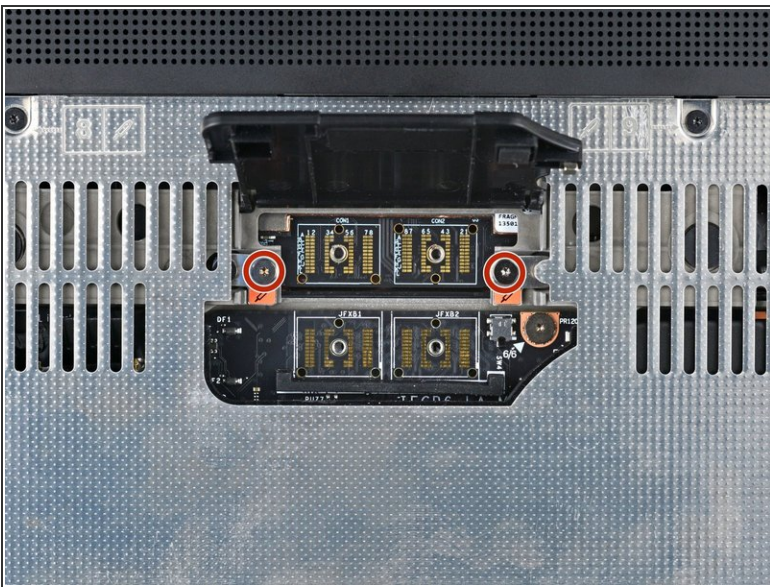
- While keeping the shell level with the laptop, slide it into its slot.
 - ① The shell should slide in easily. If you feel any resistance, pull the module out and realign it.
 - ① You should hear an audible "click" when the shell's clips snap into place.

Step 33 — Lift the interposer door



- Flip over the laptop and open it.
- Lift the interposer door by its black pull tab and let it rest upright.

Step 34 — Tighten the Expansion Bay Module screws



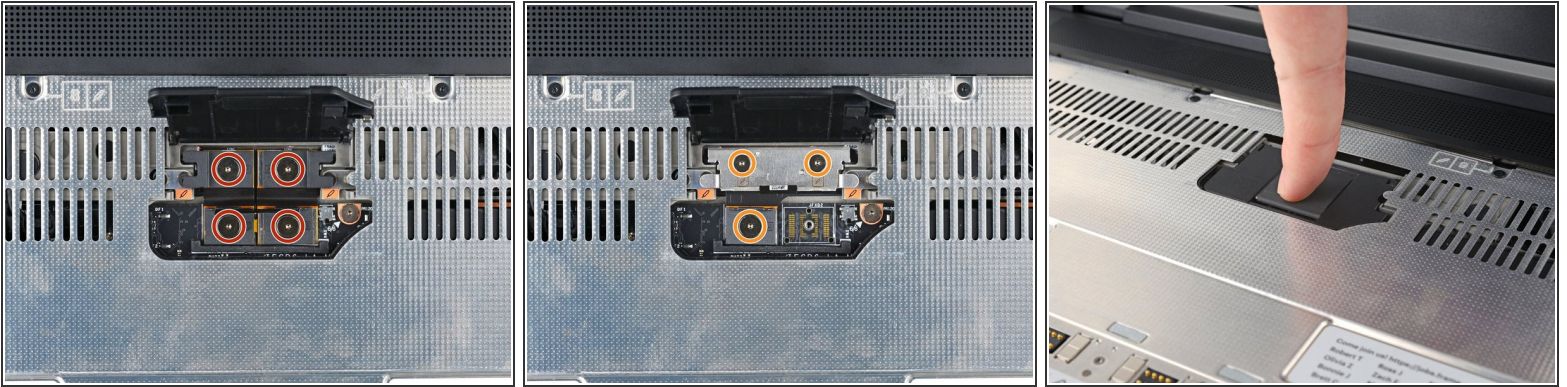
- Use your Framework Screwdriver to tighten the two captive T5 Torx screws securing the Expansion Bay Module.

Step 35 — Place the interposer



- Place the interposer over its spot between the Mainboard and the Expansion Bay.
 - ① Depending on if you're installing a Graphics Module or the Expansion Bay Shell, the interposer should be oriented so either [rubber grommets](#) or [metal tabs](#) cover the Expansion Bay screws.

Step 36 — Tighten the interposer screws



- ❗ If you have the Graphics Module installed, your interposer will have four screws. If you have the Expansion Bay Shell installed, you'll have three screws instead.
- If you have the Graphics Module, use your Framework Screwdriver to tighten the four captive T5 Torx screws securing the interposer.
- If you have the Expansion Bay Shell, use your Framework Screwdriver to tighten the three captive T5 Torx screws securing the interposer.
- Close the interposer door.

Step 37 — Install the Input Modules



- ❗ Your Input Module(s) might be different, but the procedure to remove them is the same.
- Align the top edge of the Input Module with the top edge of the laptop.
- Lay the Input Module on the laptop and let the magnets pull the keyboard into place
 - ❗ Make sure the Input Module is seated properly on its [alignment pegs](#) and sits flush with the edges of the laptop.
- Repeat for any remaining Input Modules.

Step 38 — Install the keyboard



- Align the top edge of the keyboard with the top edge of the laptop.
- Lay the keyboard on the laptop and let the magnets pull the keyboard into place
 - ❗ Make sure the keyboard is seated properly on its [alignment pegs](#) and sits flush with the edges of the laptop.

Step 39 — Install the Touchpad Module



- Place the Touchpad Module flat on its cutout so [its clips](#) are properly aligned.
- Press the Touchpad Module down and slide it into place so it lines up evenly with the bottom edge of the laptop.

Step 40 — Install the Touchpad Spacers



- Place the Touchpad Spacer over its spot on the laptop with the bottom edge overhanging slightly.
- Slide the Touchpad Spacer towards the top of the laptop to secure it.
- Repeat the same procedure for the other Touchpad Spacer.

Step 41 — Lock the Input Modules



- Push the Input Module latches back into place to lock them.

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](#).