Ventilation Plate

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INTRODUCTION

Use this guide to remove and replace the ventilation plate in your Framework Laptop 16.

TOOLS:

- Framework Screwdriver (1)

PARTS:

- Ventilation Plate (1)

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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

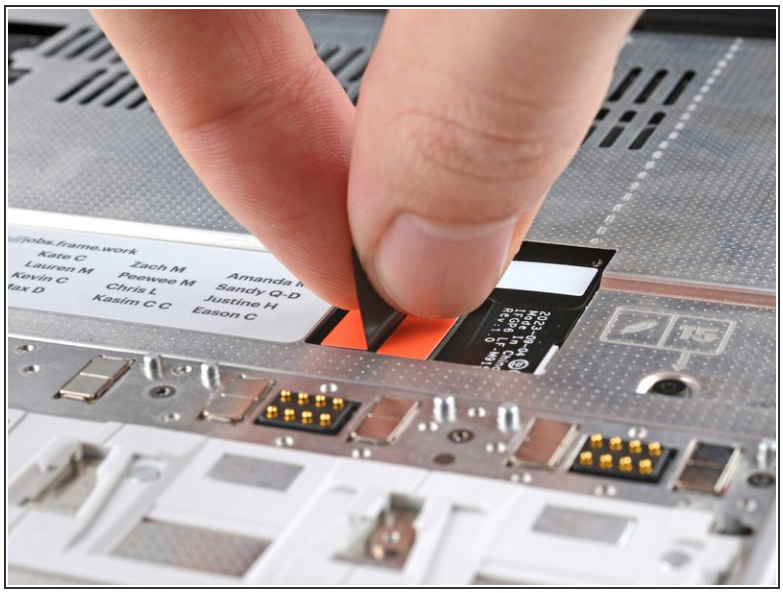
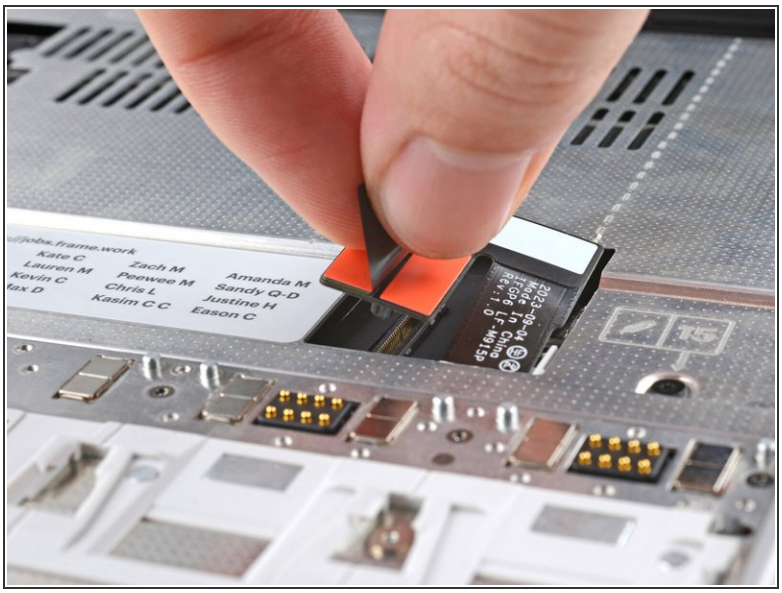
- ⓘ The keyboard is held in place with strong magnets. Apply gradually increasing force to avoid having the keyboard violently eject.
- Grip the two pull tabs along the bottom of the keyboard and lift until its magnets release.
- Remove the keyboard.

Step 7 — Remove the Input Modules

ⓘ Your Input Module(s) might be different, but the procedure to remove them is the same.

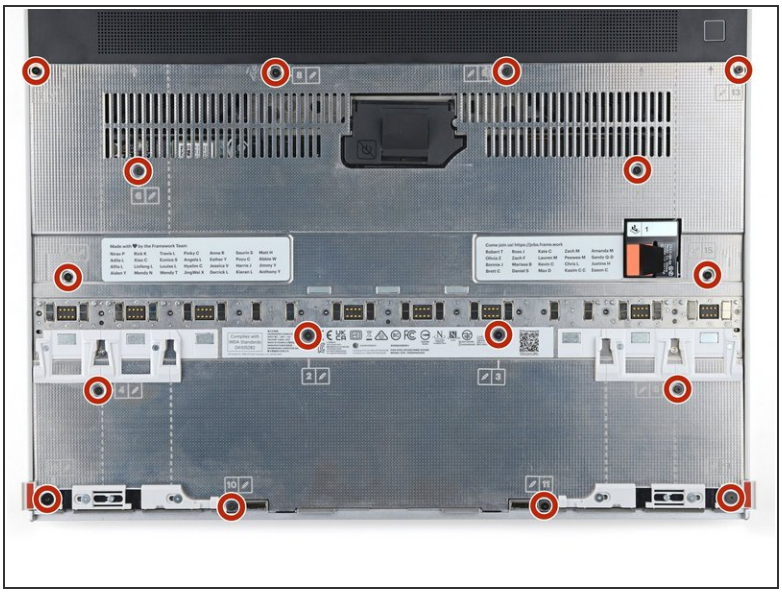
- Grip the pull tab at the bottom of the Input Module and lift until its magnets release.
- Remove the Input Module.
- Repeat for any remaining Input Modules.

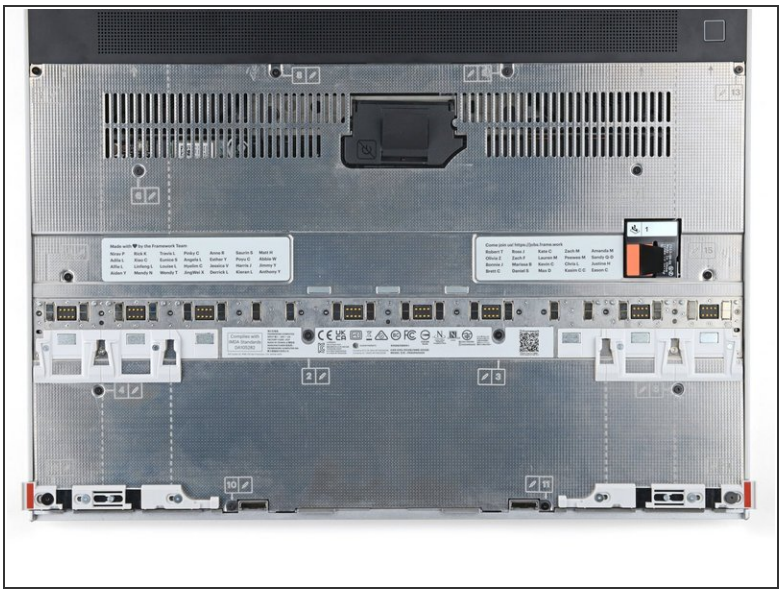
Step 8 — Disconnect the Mid Plate cable

- Grip the black pull tab on the Mid Plate cable press connector and lift up to disconnect it.

Step 9 — Loosen the Mid Plate screws

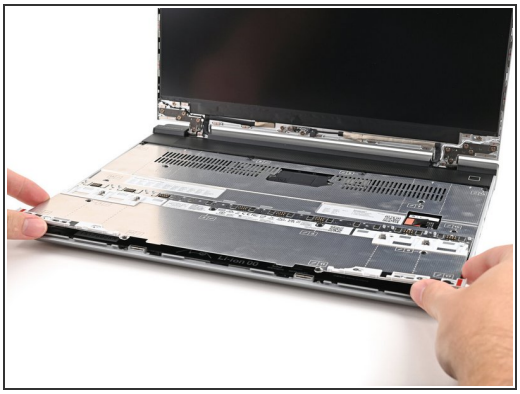




ⓘ The Mid Plate screws are ordered from 2–17 (number 1 is the press connector). You don't have to follow the order, but you can use it to help keep track of the screws you've loosened.

- Use your Framework Screwdriver to loosen the 16 captive T5 Torx screws securing the Mid Plate.

Step 10 — Remove the Mid Plate

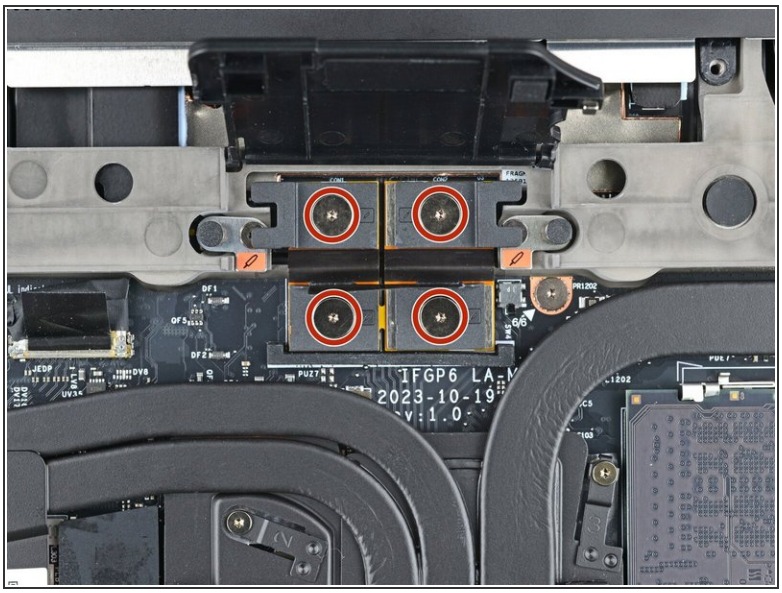


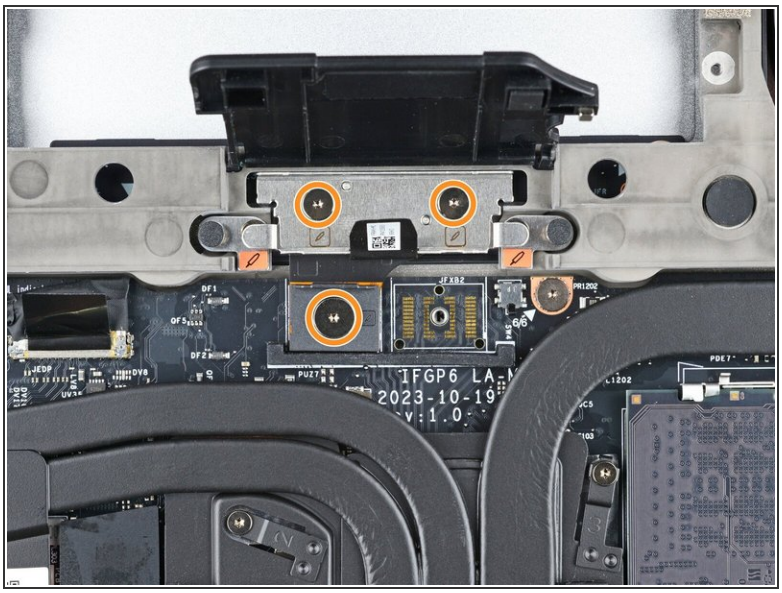
- Use your fingers to lift the Mid Plate off the laptop and remove it.

Step 11 — Lift the interposer door

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

Step 12 — Loosen the interposer screws





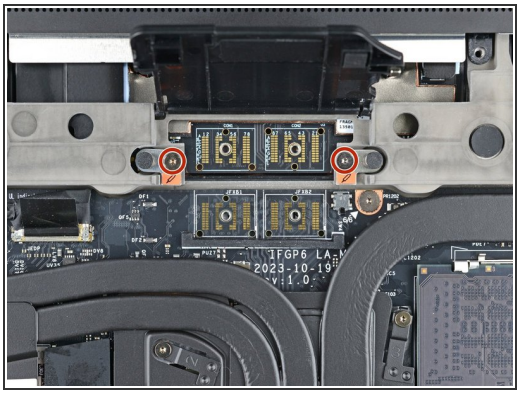
ⓘ If you have the Graphics Module installed, your interposer will have four screws. If you have the Expansion Bay Shell installed, you'll have three screws instead.

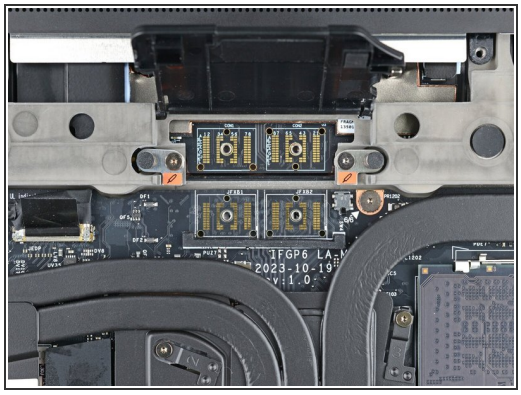
- If you have the Graphics Module, use your Framework Screwdriver to loosen the four captive T5 Torx screws securing the interposer.
- If you have the Expansion Bay Shell, use your Framework Screwdriver to loosen the three captive T5 Torx screws securing the interposer.

Step 13 — Remove the interposer

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

Step 14 — Loosen the Expansion Bay Module screws



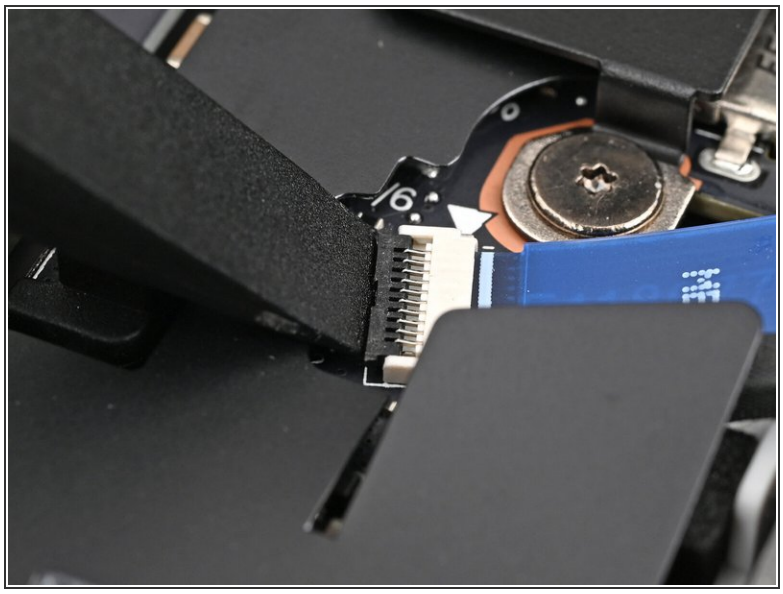


- Use your Framework Screwdriver to loosen the two captive T5 Torx screws securing the module in the Expansion Bay.
- Close the interposer door before continuing.

Step 15 — Remove the Expansion Bay Module

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

Step 16 — Disconnect the fingerprint sensor



- Use the flat end of a spudger, or a clean fingernail, to lift up the locking tab on the fingerprint sensor ZIF connector next to the memory.

Step 17

- Use tweezers, or your fingers, to grip the blue pull tab and slide the fingerprint sensor cable straight out of its socket.

Step 18

ⓘ The fingerprint sensor cable is lightly adhered to the laptop's frame.

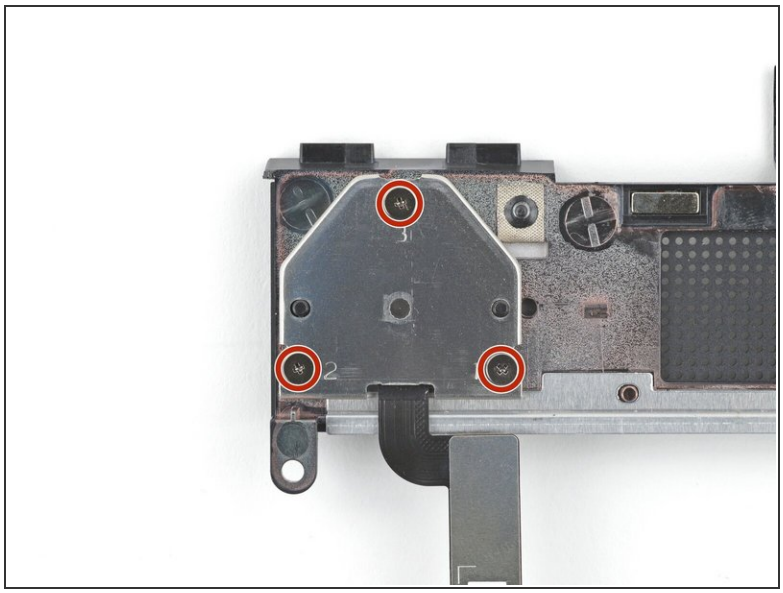
- Use your fingers to peel the fingerprint sensor cable away from the frame and separate the adhesive.

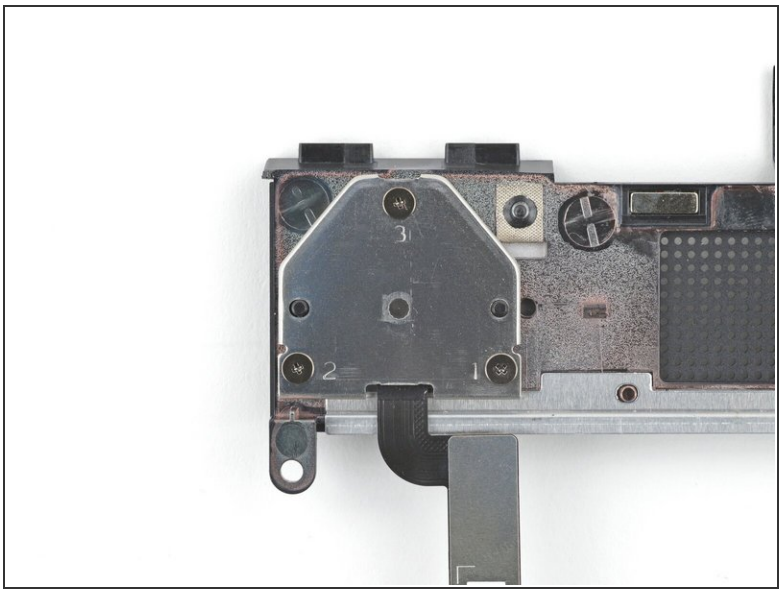
Step 19 — Remove the ventilation plate

ⓘ The ventilation plate is held in place with magnets.

- Lift the bottom of the ventilation plate and pull it away from the laptop until the magnets release.
- Remove the ventilation plate.

Step 20 — Remove the fingerprint reader cover screws

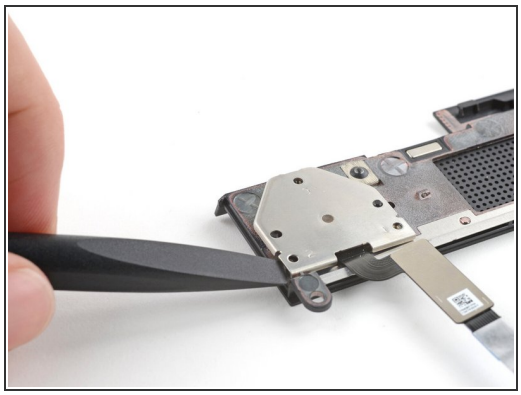
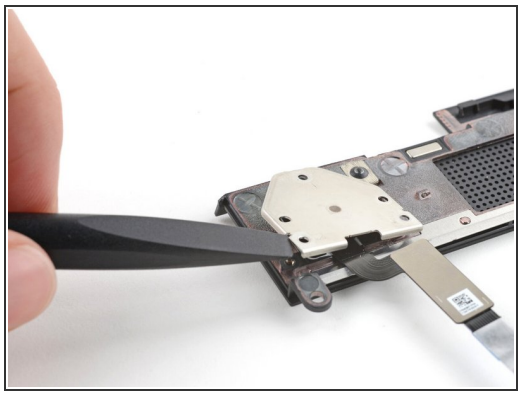
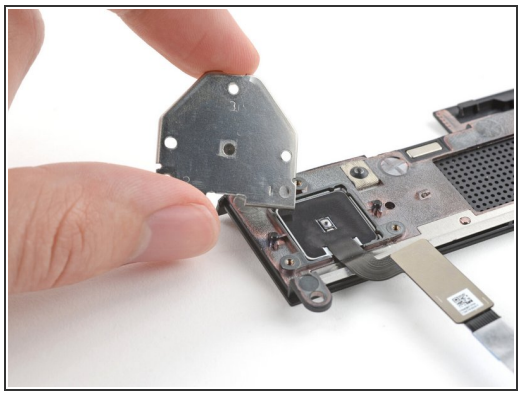




ⓘ The fingerprint reader cover screws are marked **1–3**. You don't need to follow this order, but you can use it to help keep track of the screws you've removed.

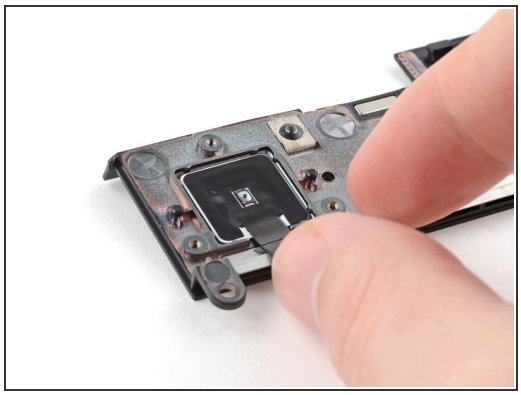
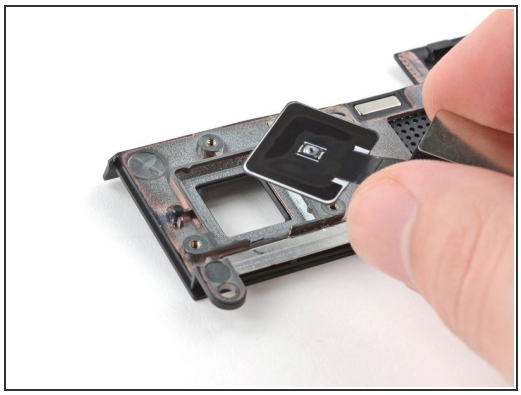
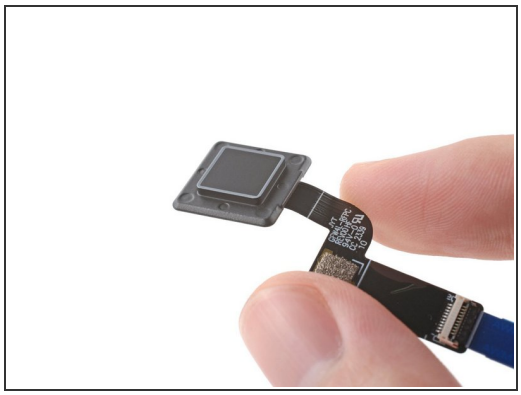
- Use your Framework Screwdriver to remove the three 2.0 mm-long Phillips screws securing the fingerprint reader cover.

Step 21 — Remove the fingerprint reader

- Use the flat end of your Framework Screwdriver to lift the fingerprint reader cover and remove it.

Step 22

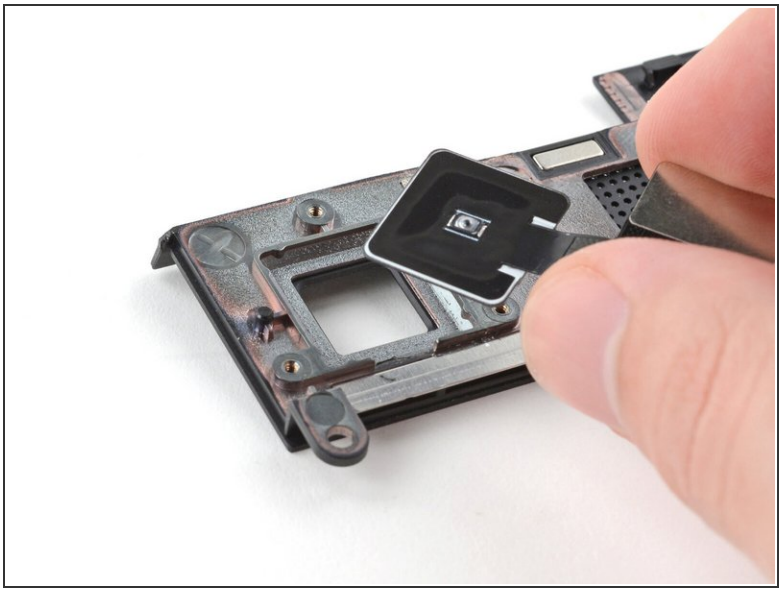




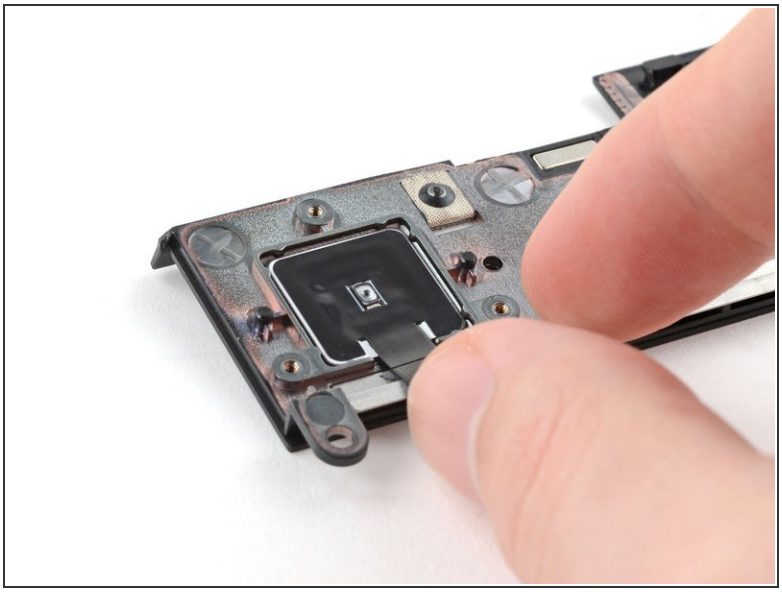
- Lift the fingerprint reader out of its slot in the ventilation plate and remove it.

Step 23 — Disassembly complete

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

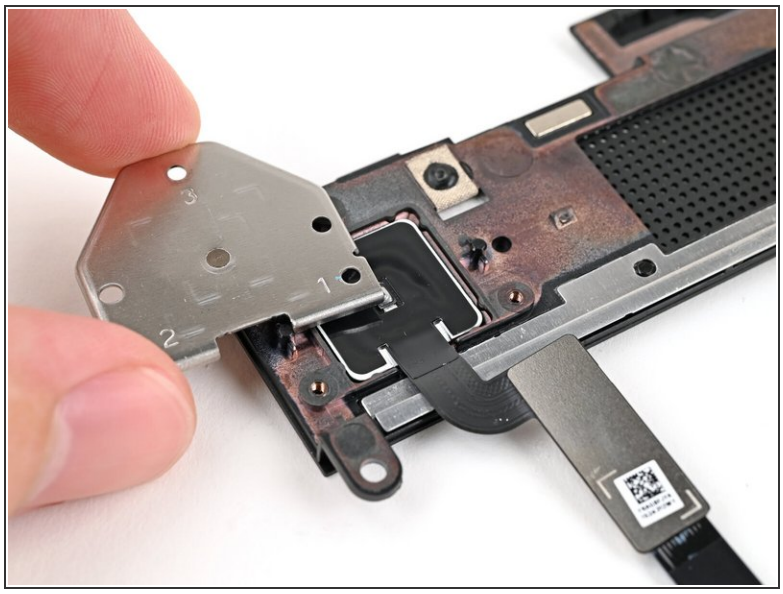
Step 24 — Place the fingerprint reader

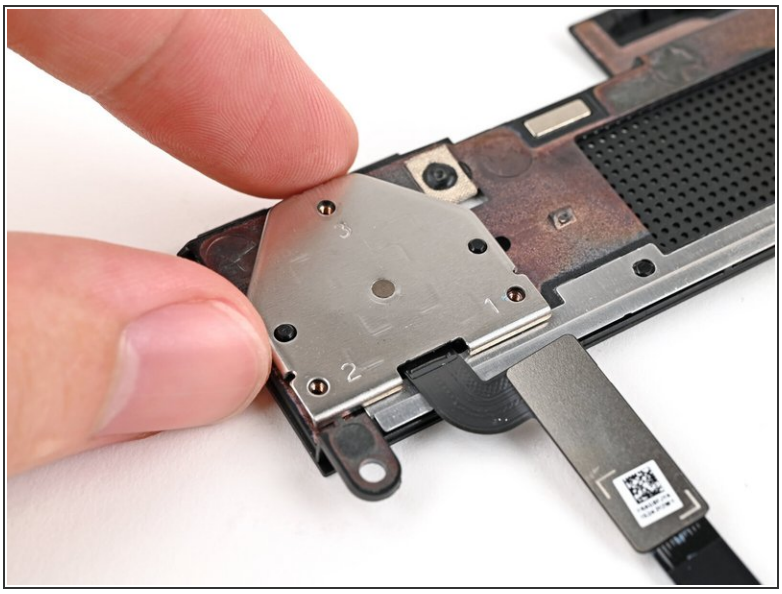




- Place the fingerprint reader into its slot in the ventilation plate.

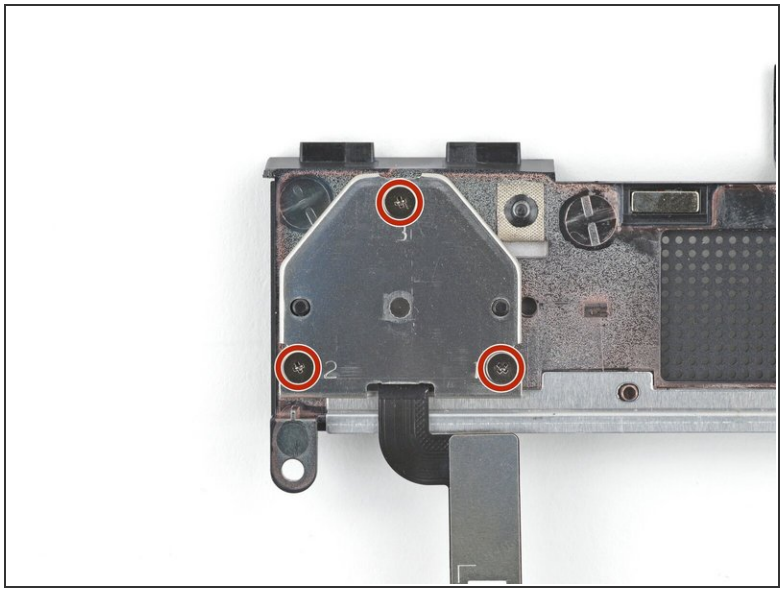
Step 25 — Place the fingerprint reader cover

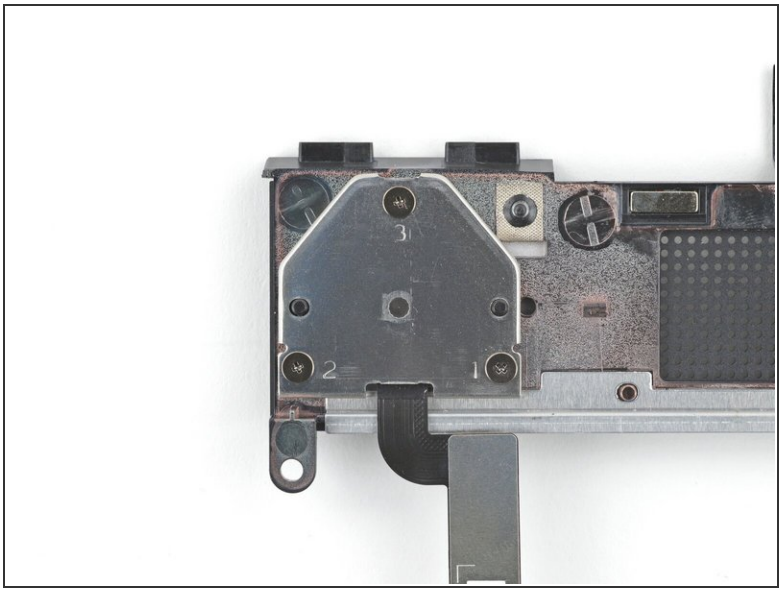




- Place the fingerprint reader cover over the back of the reader.

Step 26 — Install the fingerprint reader cover screws





- Use your Framework Screwdriver to install the three 2.0 mm-long Phillips screws securing the fingerprint reader cover.

Step 27 — Place the ventilation plate

- Lay the ventilation plate along the top edge of the laptop and let its magnets pull into place.

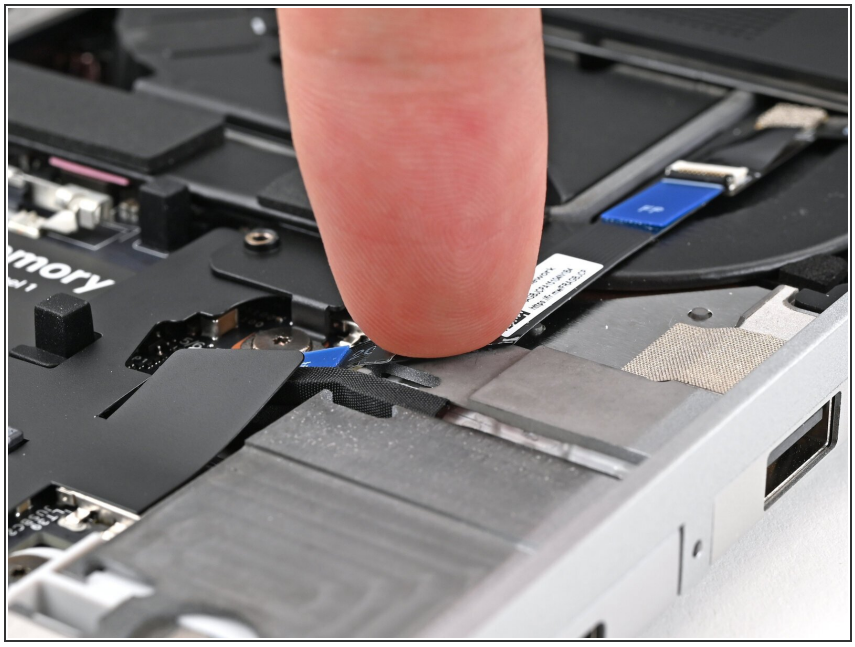
Step 28 — Connect the fingerprint sensor

- Use tweezers, or your fingers, to grip the blue pull tab and slide the fingerprint sensor cable straight into its socket.

Step 29

- Use the flat end of a spudger, or a clean fingernail, to press down the locking tab on the fingerprint sensor ZIF connector.

Step 30

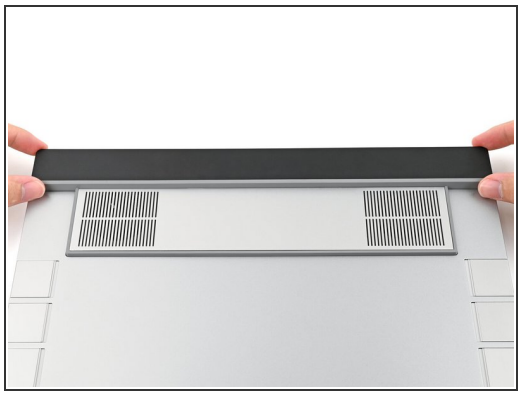


- Press the fingerprint sensor cable to the frame to re-adhere it.

Step 31 — Insert the Expansion Bay Module

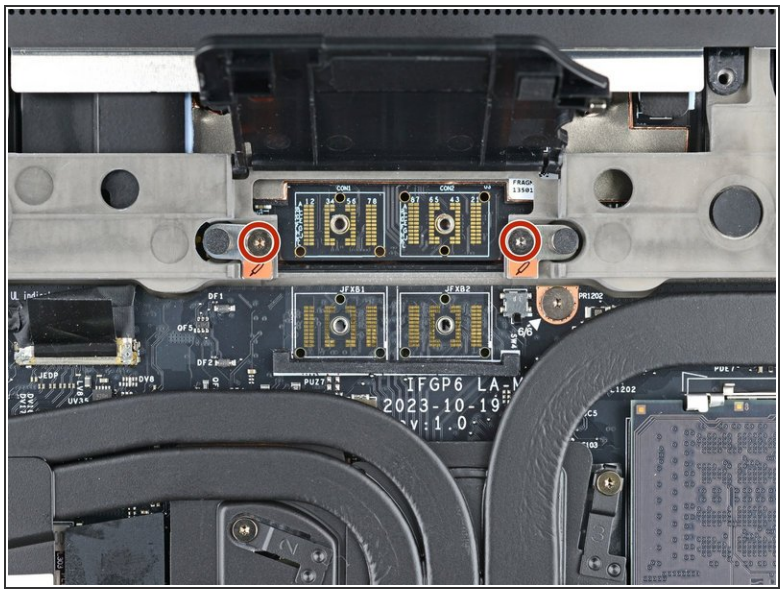
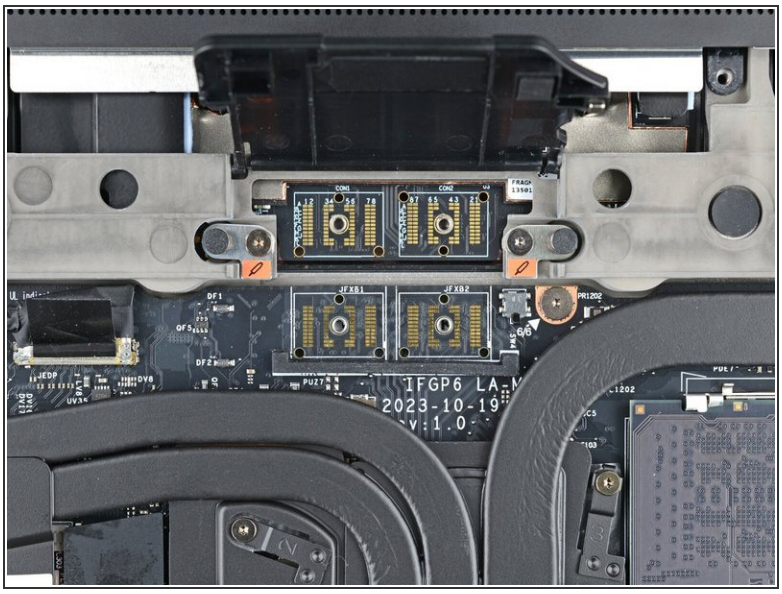
- Align the Expansion Bay Module with its slot in the laptop.
  - ⓘ Check that the module sits evenly with the rail on the outside edges of the slot .
  - ⓘ Check that the two center rails are threaded between the fans.

Step 32



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

Step 33 — Tighten the Expansion Bay Module screws

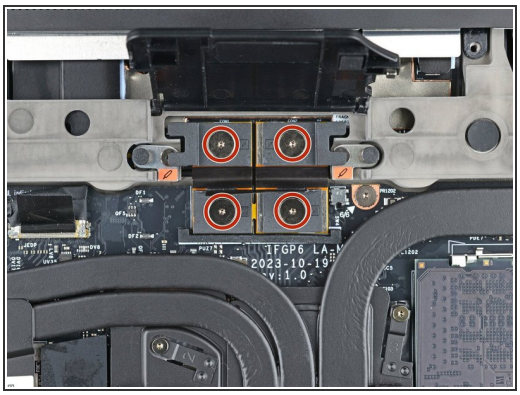
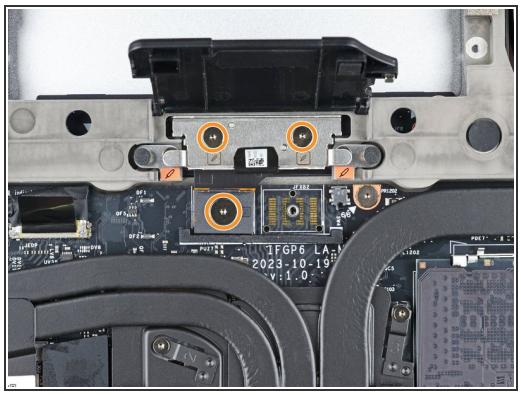



- Use your Framework Screwdriver to tighten the two captive T5 Torx screws securing the Expansion Bay Module.

Step 34 — Place the interposer

- Place the interposer over its spot between the Mainboard and the module.
  - ⓘ 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 35 — Tighten the interposer screws

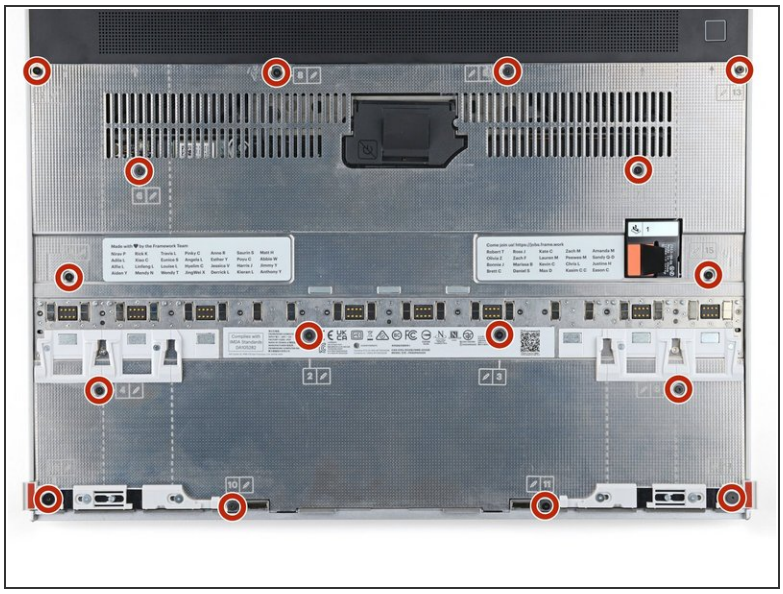
ⓘ If you have the Graphics Module installed, your interposer will have four screws. If you have the Expansion Bay Shell installed, you'll have three screws instead.

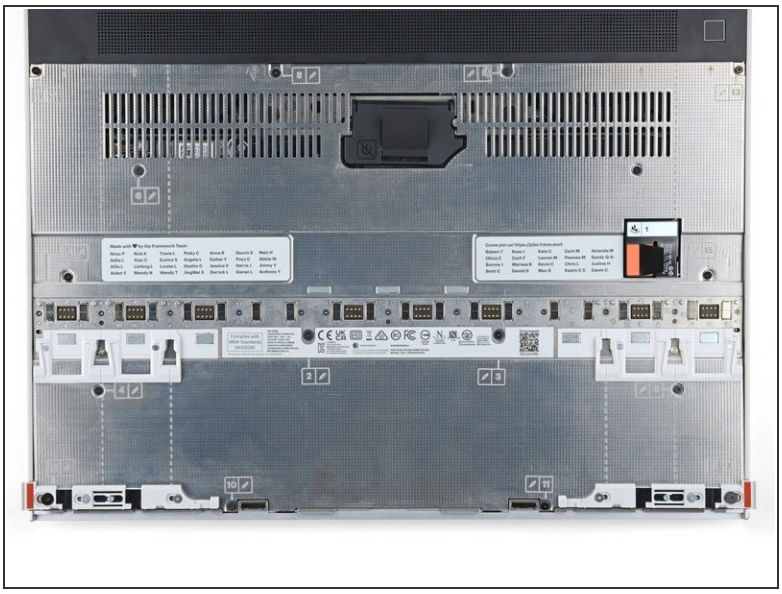
- If you have the Graphics Module, use your Framework Screwdriver to tighten the four captive T5 Torx screws securing the interposer.
- If you have the Expansion Bay Shell, use your Framework Screwdriver to tighten the three captive T5 Torx screws securing the interposer.
- Close the interposer door.

Step 36 — Place the Mid Plate

- Place the Mid Plate on the laptop, making sure it sits evenly on its alignment pegs.

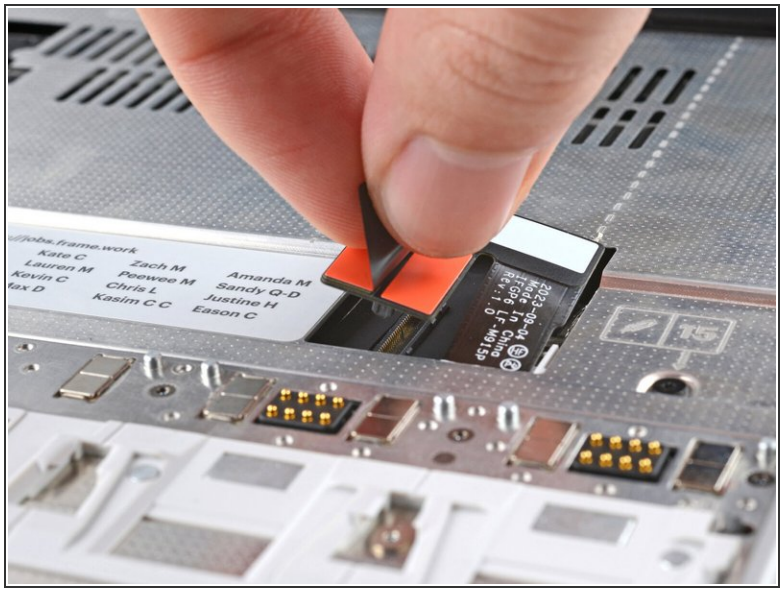
Step 37 — Tighten the Mid Plate screws

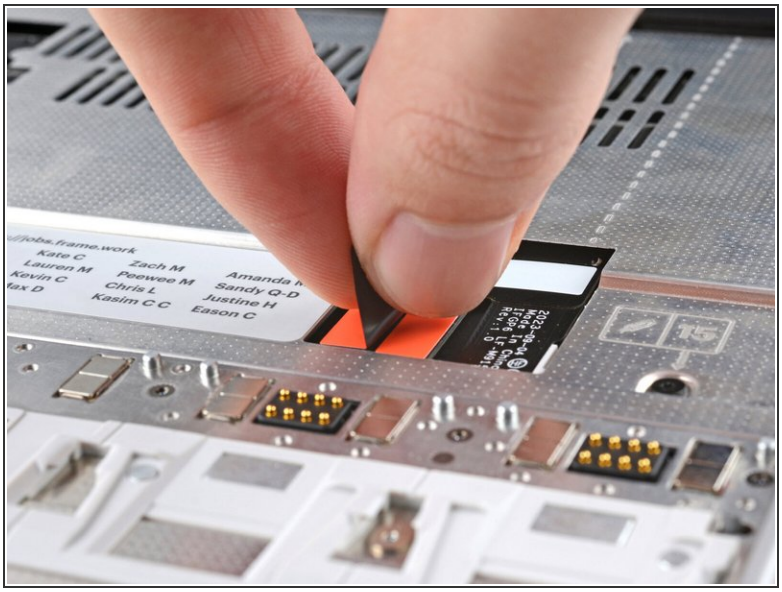




- Use your Framework Screwdriver to tighten the 16 captive T5 Torx screws **in order** (starting with 2) to secure the Mid Plate evenly.

Step 38 — Connect the Mid Plate cable





- Align the Mid Plate cable press connector over its socket and press down to connect it.

Step 39 — 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 40 — 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 41 — 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 42 — 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 43 — 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.