Wi-Fi Module

Written By: Iroh



INTRODUCTION

Follow this guide to remove and replace the Wi-Fi module in your Framework Laptop 16.

The Wi-Fi module is a modular card that enables Wi-Fi and Bluetooth functions. While the Framework Laptop 16 works with M.2 2230 Wi-Fi cards, Framework recommends replacing it with the same model of card that the system originally came with.

The Wi-Fi module has delicate antenna connectors. Be sure to follow the instructions carefully to avoid damaging them.

TOOLS:

- Framework Screwdriver (1)

PARTS:

- AMD RZ616 Wi-Fi 6E (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.

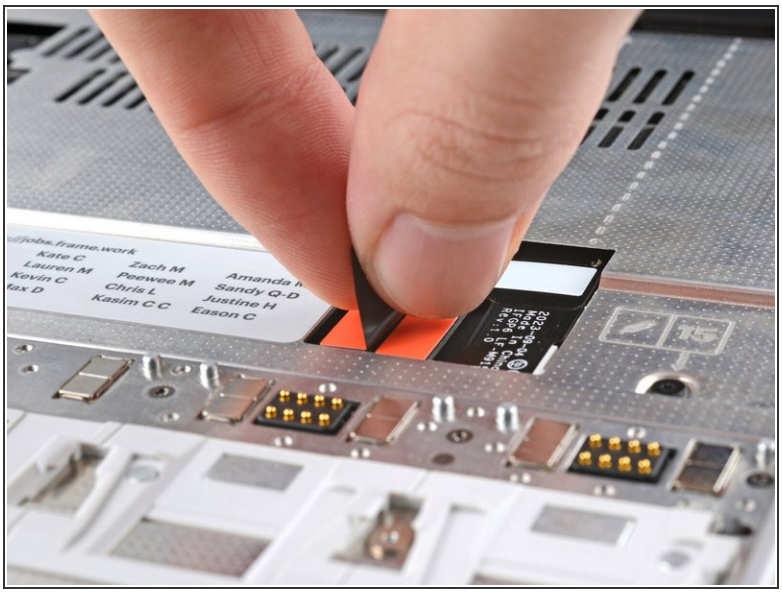
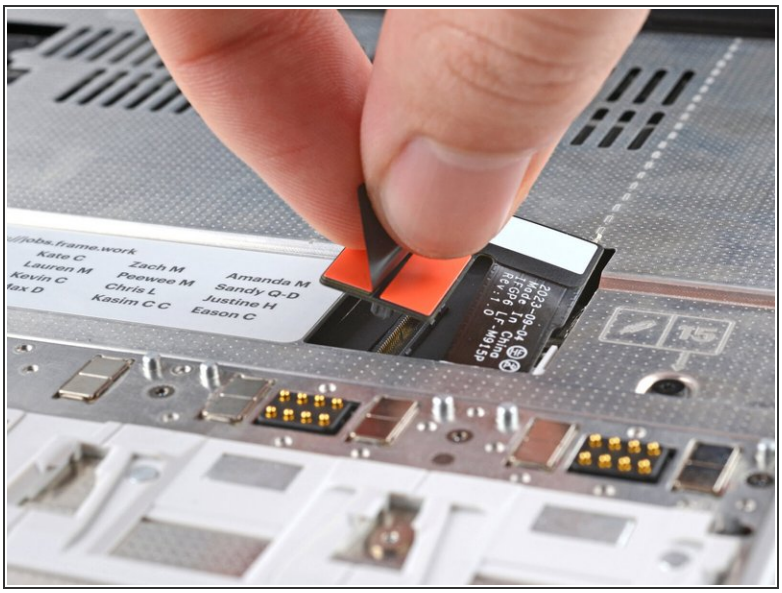
Step 7 — Remove the Input Modules





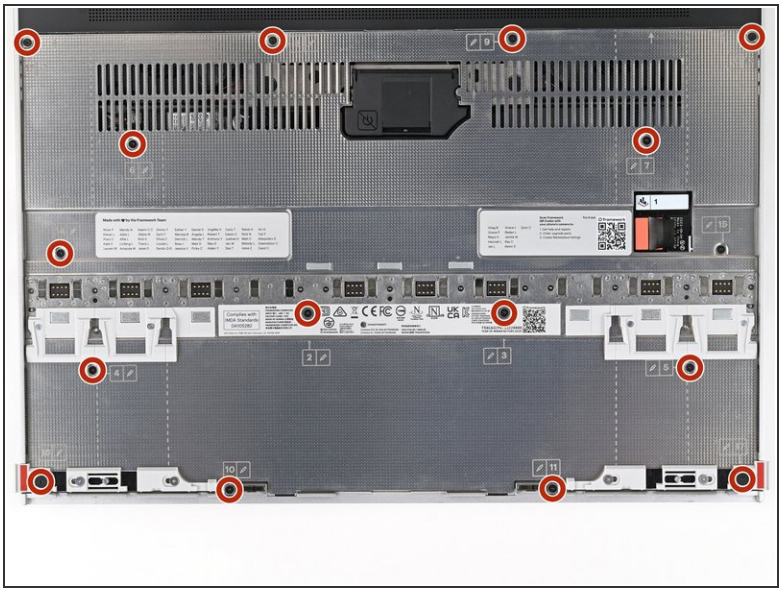
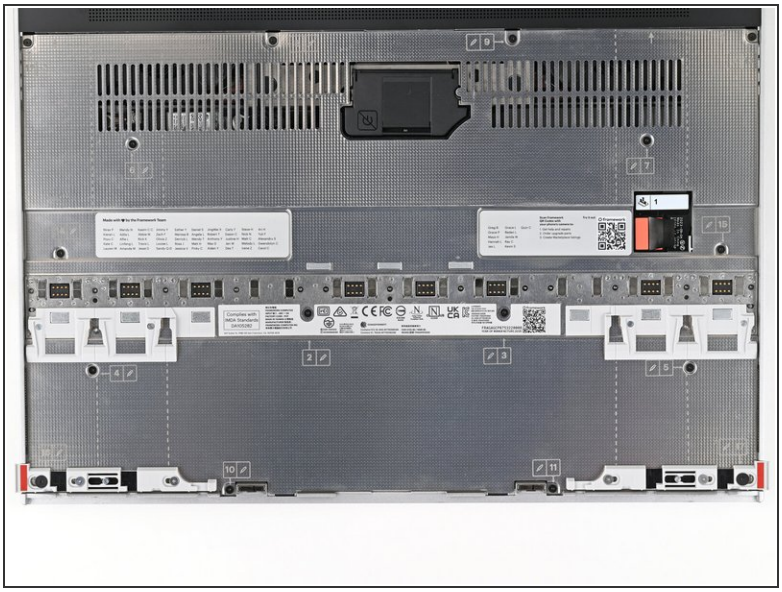
- Your Input Module(s) might be different, but the procedure to remove them is the same.
- Grip the pull tab at the bottom of the Input Module and lift until its magnets release.
- Remove the Input Module.
- Repeat for any remaining Input Modules.

Step 8 — Disconnect the Mid Plate cable

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

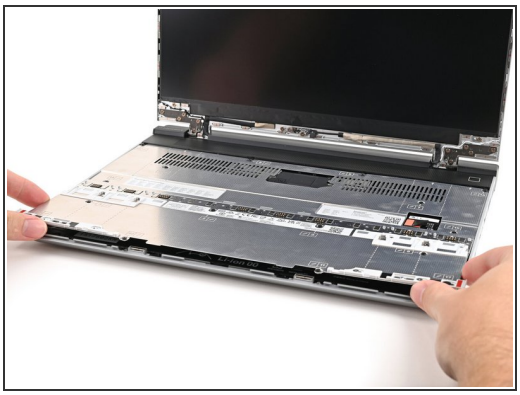
Step 9 — Loosen the Mid Plate screws

ⓘ 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 — Loosen the Wi-Fi module screw





- Use your Framework Screwdriver to loosen the captive T5 Torx screw securing Wi-Fi module.
  - ⓘ The module might pop up at a shallow angle when you loosen the screw.

Step 12 — Remove the Wi-Fi module cover





- Slide the clear plastic cover straight off the module and remove it.

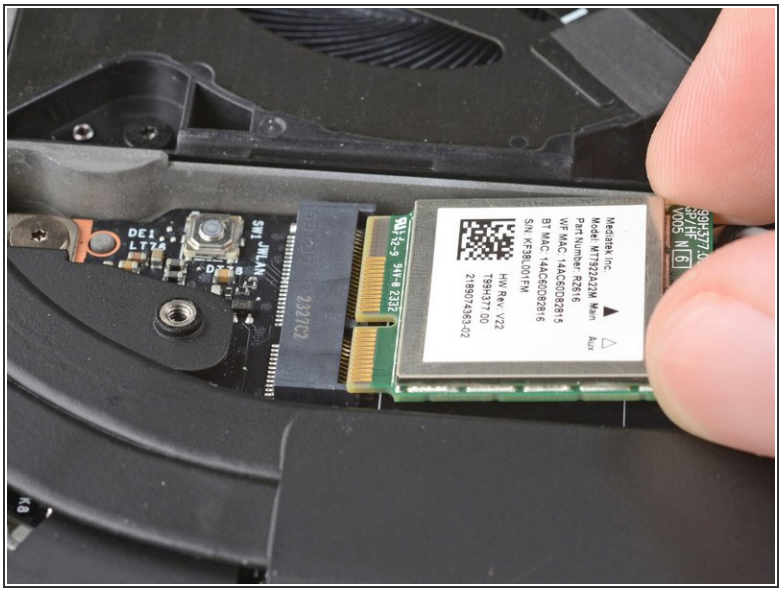
Step 13 — Disconnect the Wi-Fi module





- While holding the Wi-Fi module down, insert the flat end of your Framework Screwdriver under one of the coaxial connectors, where the cable meets the metal head.
- Lift the screwdriver straight up to disconnect the coaxial cable.
- Repeat for the other coaxial cable.

Step 14 — Remove the Wi-Fi Module

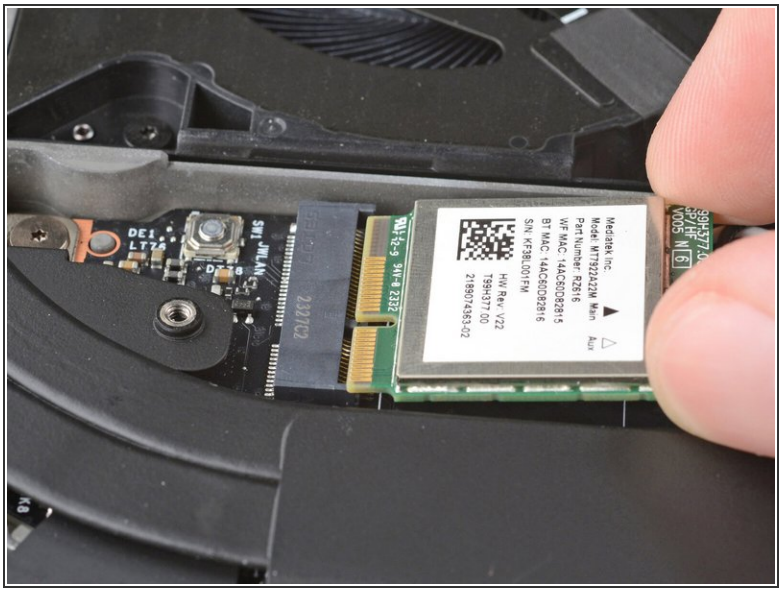
- Grip the end of the Wi-Fi Module with the screw hole and slide it out of its socket.
- Remove the Wi-Fi Module.

Step 15 — Disassembly complete



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

Step 16 — Install the Wi-Fi module



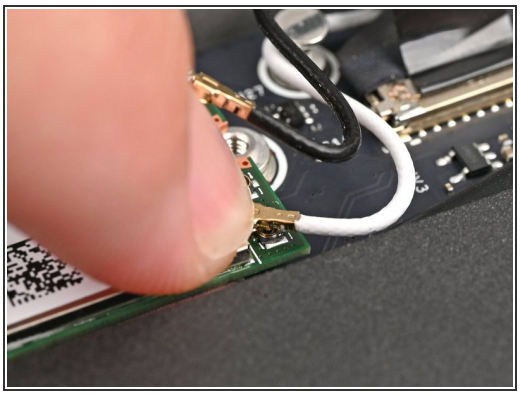
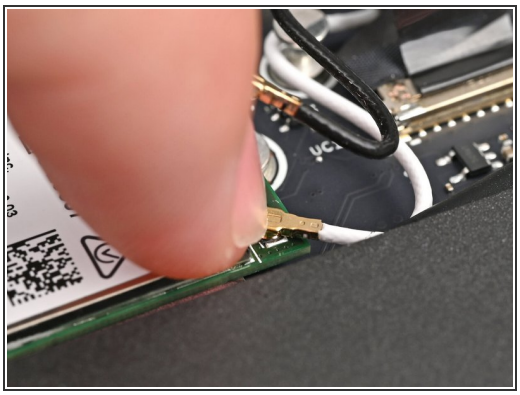
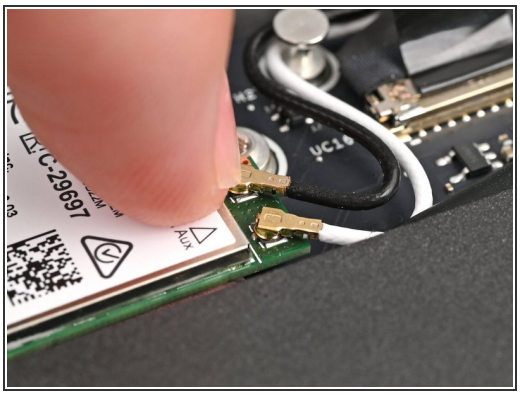


⚠ Hold the Wi-Fi module by its edges. Don't touch the gold contacts with your fingers. If you do, wipe the contacts with a clean, lint-free cloth to remove any finger oils.

- Align the Wi-Fi module's gold contacts and notch with the socket on the Mainboard.
- Insert the Wi-Fi module into the socket at a shallow angle. The gold contacts should mostly be covered by the socket.

ⓘ The Wi-Fi module fits into the socket in one orientation. If it doesn't fit, try flipping the module.

Step 17 — Connect the Wi-Fi module

- Hold the Wi-Fi module down with your finger.
- Position the white antenna cable connector over the left Wi-Fi module's coaxial socket.
  - ⓘ If you're unsure which cable goes where, refer to the arrows on the Wi-Fi module for which color cable matches with its connector.
  - ⓘ Tweezers can help position the connector.
- Use your finger to press the connector into place. You should feel a faint click, and the cable will stay attached to the socket by itself.
  - ⚠ These connectors are very delicate! If the connector doesn't feel like it's clicking in place, reposition the connector and try again.
- Repeat the procedure with the black antenna cable.

Step 18 — Install the Wi-Fi module cover




- Slide the clear plastic cover on the module and align its screw with the screw hole cutout.

Step 19 — Tighten the Wi-Fi module screw




- Use your Framework Screwdriver to tighten the captive T5 Torx screw securing Wi-Fi module.

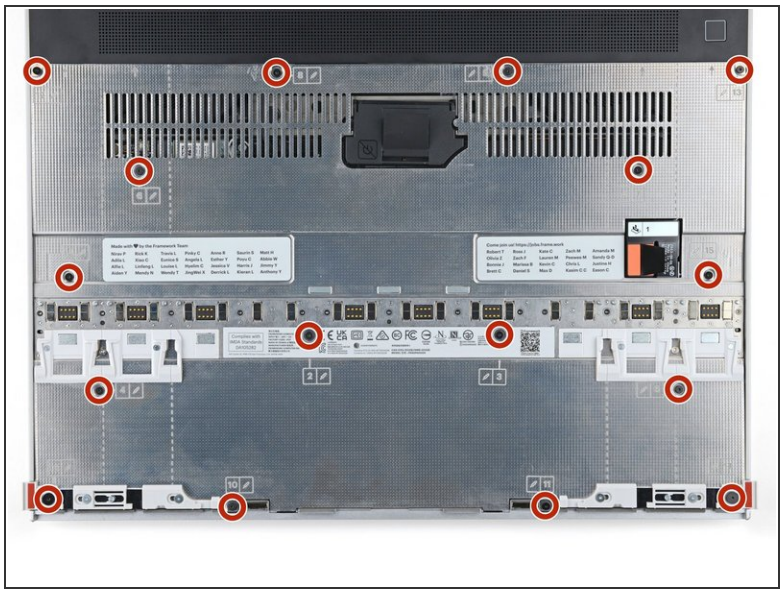
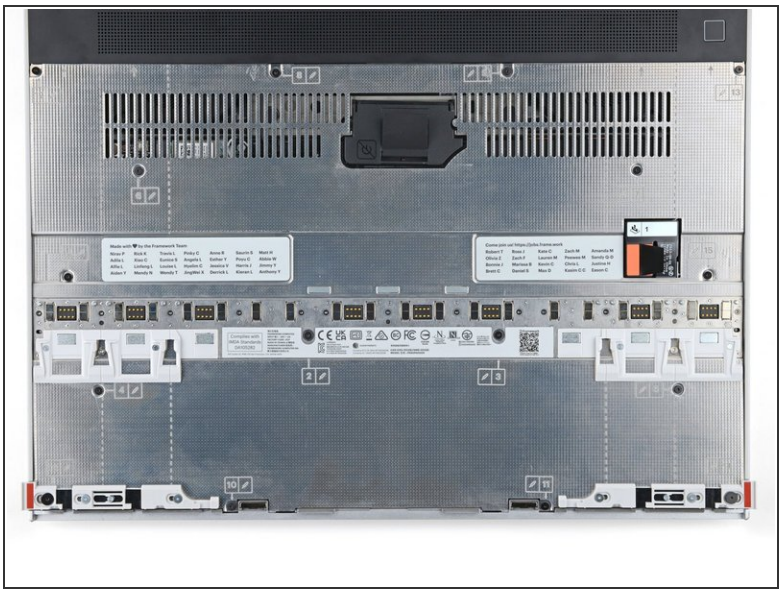
Step 20 — Place the Mid Plate





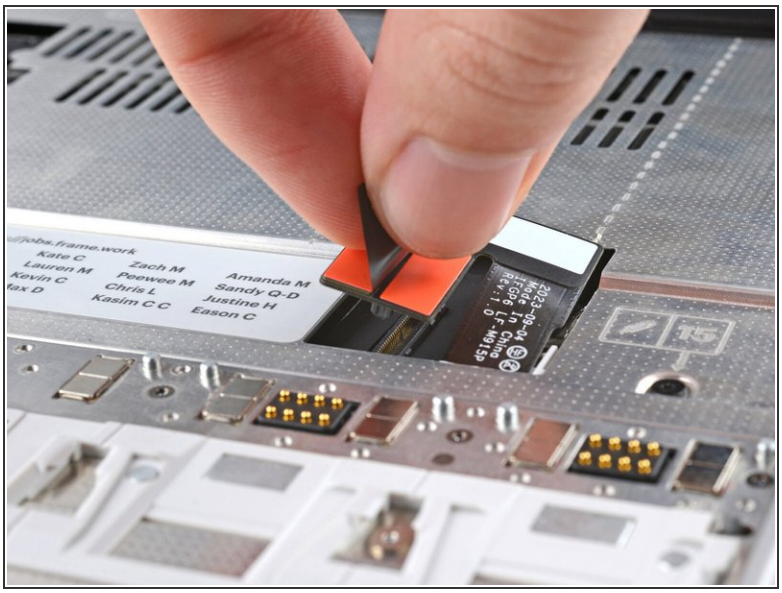
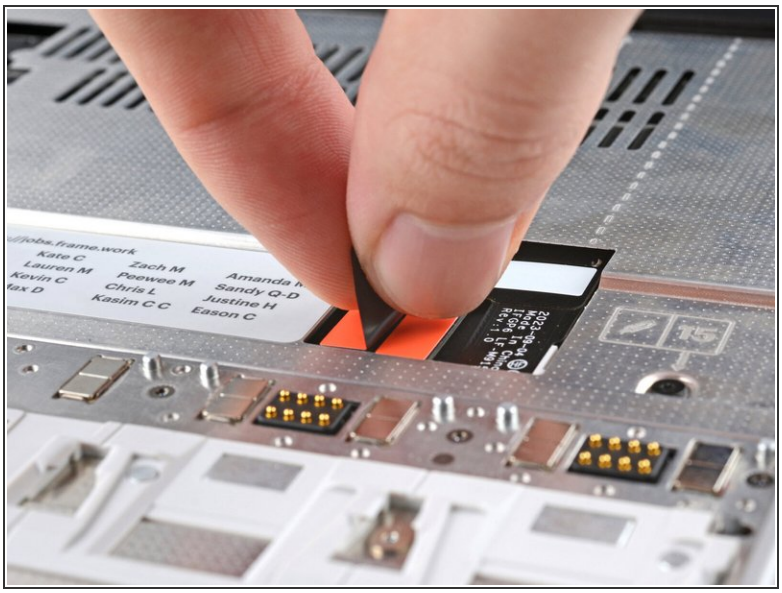
- Place the Mid Plate on the laptop, making sure it sits evenly on its alignment pegs.

Step 21 — 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 22 — Connect the Mid Plate cable

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

Step 23 — 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 24 — 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 25 — 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 26 — 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 27 — Lock the Input Modules





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

If you need help, contact Framework support.