LPCAMM2 Memory Replacement for Framework Laptop 13 Pro

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INTRODUCTION

Follow this guide to remove and replace the LPCAMM2 memory (aka RAM) in your Framework Laptop 13 Pro (*Intel® Core™ Ultra Series 3*).

Framework Laptop 13 Pro (*Intel® Core™ Ultra Series 3*) supports one slot of LPCAMM2 memory up to 96GB. For further details, please see our "What DRAM/memory is supported by Framework Laptop 13 Pro (Intel® Core™ Ultra Series 3)?" Knowledgebase page.

TOOLS:

- Framework Screwdriver (1)

Step 1 — Before you begin





- Unplug all cables and fully shut down your laptop from the OS.

Step 2 — Loosen the Input Cover screws





- Use your Framework Screwdriver to loosen the five captive T5 Torx screws securing the Input Cover.

Step 3 — Lift the Input Cover





- Flip over your laptop and open it.
- Use your fingers to lift the Input Cover up and release it from its magnets.

⚠ Don't fully remove the Input Cover yet, as it's still attached by the Touchpad Cable.

ⓘ If you're having trouble lifting the Input Cover, you can leverage the gap at the bottom right corner to get your fingers fully under it.

Step 4 — Flip over the Input Cover

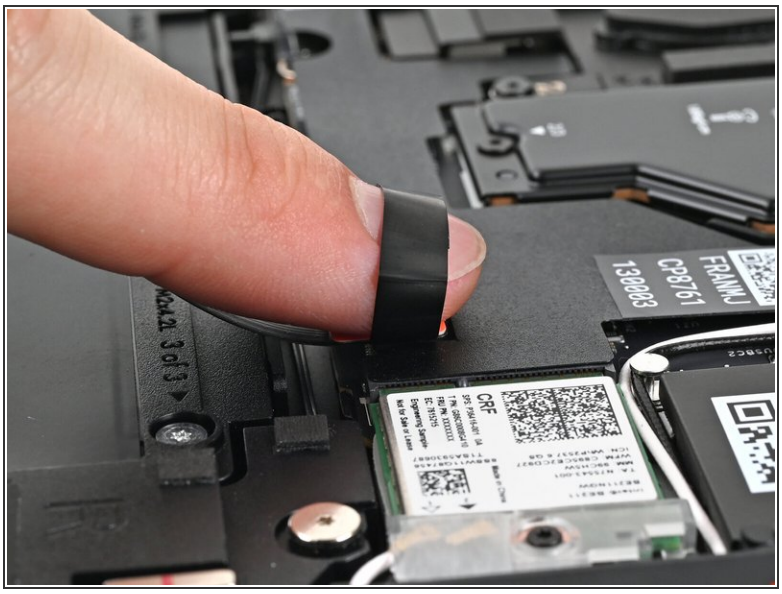




- Flip the top of the Input Cover so the Keyboard is facing down.
- Rest the Input Cover over the Battery, making sure the Touchpad Cable isn't being strained.

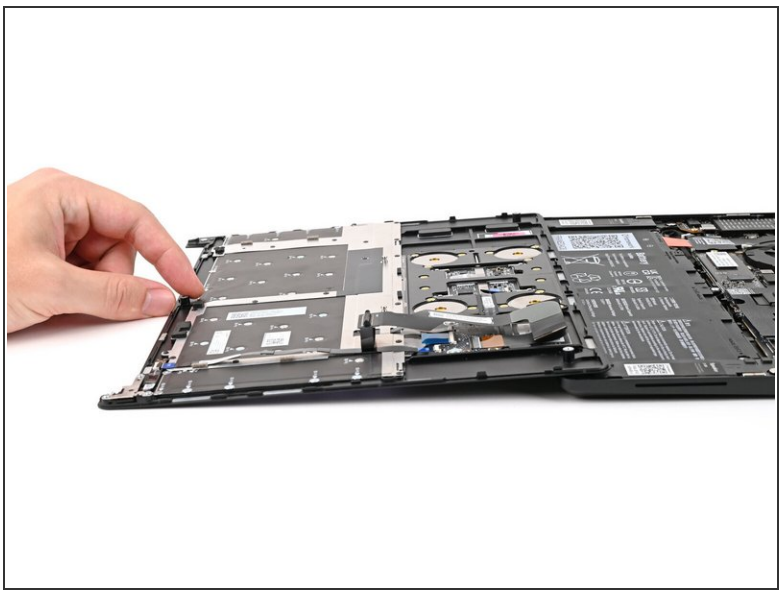
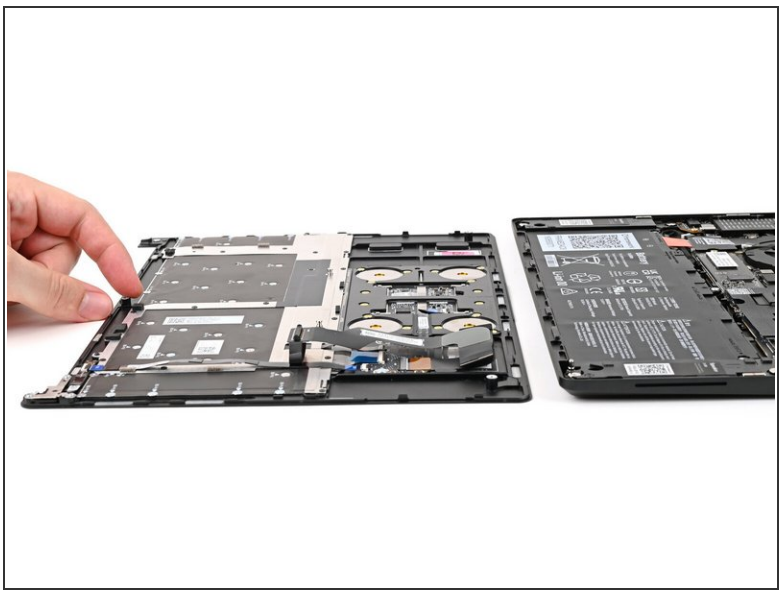
⚠ If the LEDs on the left and right sides of the Mainboard are flashing, then your laptop is still powered on. Make sure your laptop is completely powered off before continuing.

Step 5 — Disconnect the Touchpad Cable




- Insert your finger into the Touchpad Cable press connector loop.
- Lift up to disconnect the Touchpad Cable from the Mainboard.

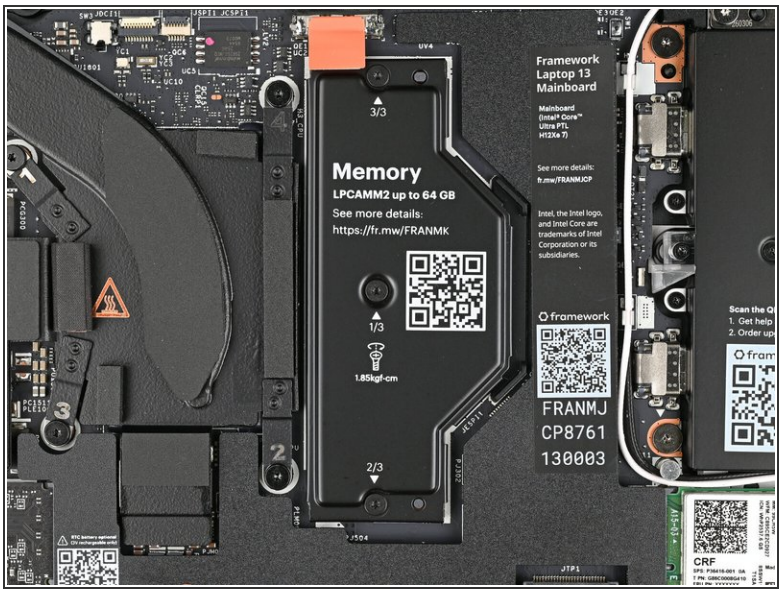
Step 6 — Remove the Input Cover

- Remove the Input Cover.

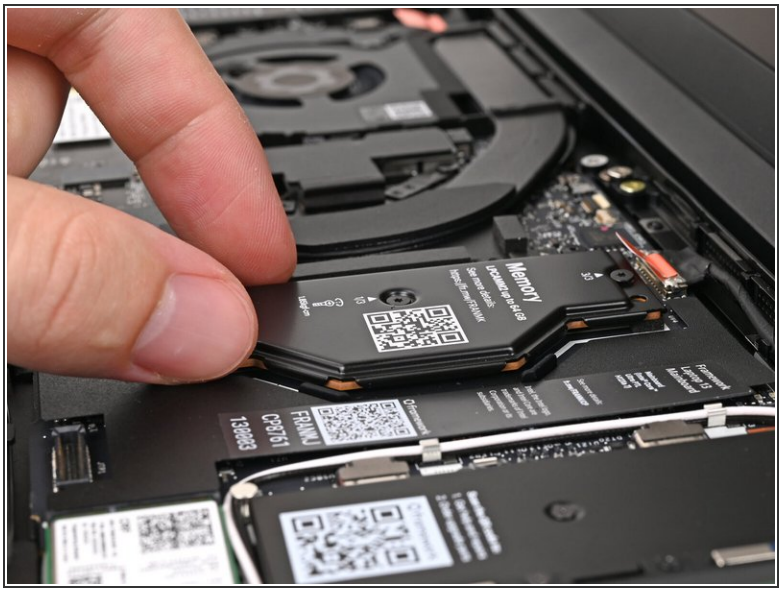
Step 7 — Loosen the LPCAMM2 Memory Cover





- Use your Framework Screwdriver to loosen the captive T5 Torx screws securing the LPCAMM2 Memory Cover in reverse order from **3–1**.

Step 8 — Remove the LPCAMM2 Memory Cover



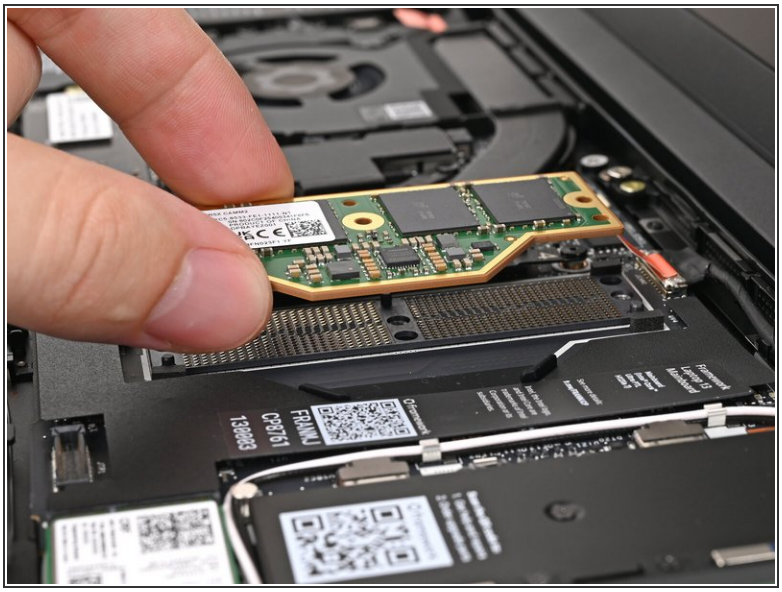


- Lift the LPCAMM2 Memory Cover straight off the memory and remove it.

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Step 9 — Remove the LPCAMM2 Memory



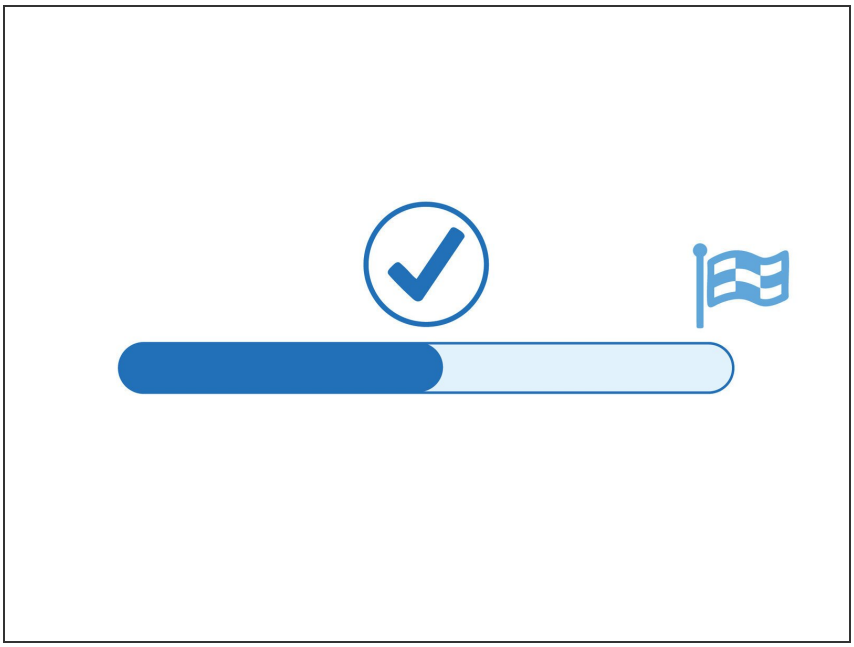


- Grip the LPCAMM2 module by its edges and lift it straight off its alignment pegs to remove it.

  ⚠ Avoid touching the Interposer below the module. If the Interposer accidentally shifts, grab it by its edges to place it back into its alignment pegs.

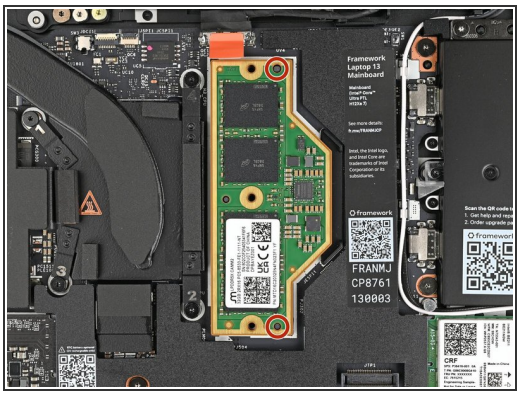
- Make sure there's no dust or debris on top of the Interposer before continuing.

Step 10 — Disassembly Complete



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

Step 11 — Place the LPCAMM2 Memory

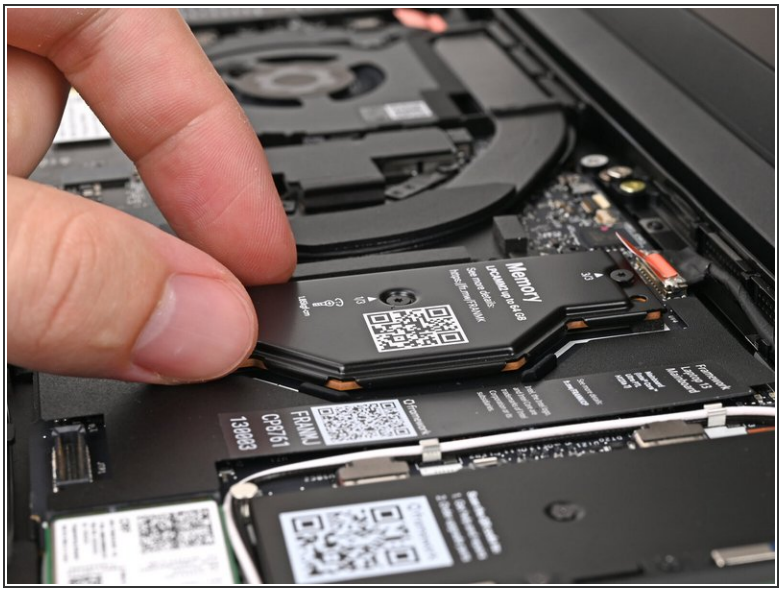





- Place the LPCAMM2 module on top of the Interposer, making sure it slots into its alignment pegs.

Step 12 — Place the LPCAMM2 Memory Cover

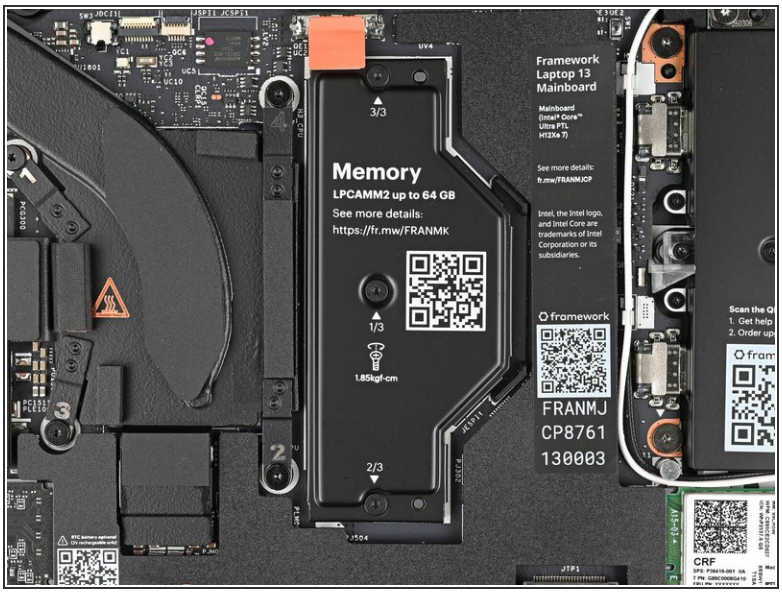




- Place the LPCAMM2 Memory Cover on top of the memory, making sure its screws align with the screw holes.
  - ⓘ The cover should lay flat when aligned properly.

Step 13 — Tighten the LPCAMM2 Memory Cover





- Use your Framework Screwdriver to tighten the captive T5 Torx screws securing the LPCAMM2 Memory Cover in order from **1–3**.

  ⓘ Make sure the screws are snug enough to create proper contact between the memory and the Mainboard.

Step 14 — Position the Input Cover





- Position the Input Cover, Keyboard down, on top of the laptop so it just covers the Battery.
  - ⓘ This allows the Touchpad Cable to be folded over and reconnected without straining it.

Step 15 — Connect the Touchpad Cable




- Insert your finger into the Touchpad Cable press connector loop.
- Align the press connector over its socket and press down with your finger.
  - ⓘ You should hear it "click" into place. If you're having trouble, reposition it and try again. Don't try to force the connector into place.

Step 16 — Place the Input Cover




- Flip the Input Cover over the laptop and align the bottom edges.

Step 17





- Lay the Input Cover over the laptop and let the magnets snap it into place.

ⓘ The bottom right corner of the Input Cover won't sit flush with the laptop until you tighten its screws.

Step 18 — Reposition the Laptop



- Close the laptop and flip it over.

Step 19 — Tighten the Input Cover screws



- Use your Framework Screwdriver to tighten the five captive T5 Torx screws securing the Input Cover.

⚠ Don't overtighten the screws—just make sure they're snug.

You finished fixing your Framework Laptop! The first boot will take longer and start with a “Memory Training in Progress” screen. If you run into any errors during Memory Training, please see this page.

Take your e-waste to an R2 or e-Stewards certified recycler.

If you need help, contact Framework support.