



Fasteners Guide

A guide to the various fasteners used in the Framework Laptop

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INTRODUCTION

In case you ever mix up or lose the fasteners in your Framework Laptop, this guide goes over the different sizes and types used. All of the fasteners we use have either a T5 or PH0 head, making the Framework Screwdriver the only tool you need for them. Unless otherwise noted, all of the fasteners use ISO standard thread pitches and shaft diameters.

There are also five spare fasteners screwed into the inside of the bottom cover of the Framework Laptop for some of the more common ones.



TOOLS:

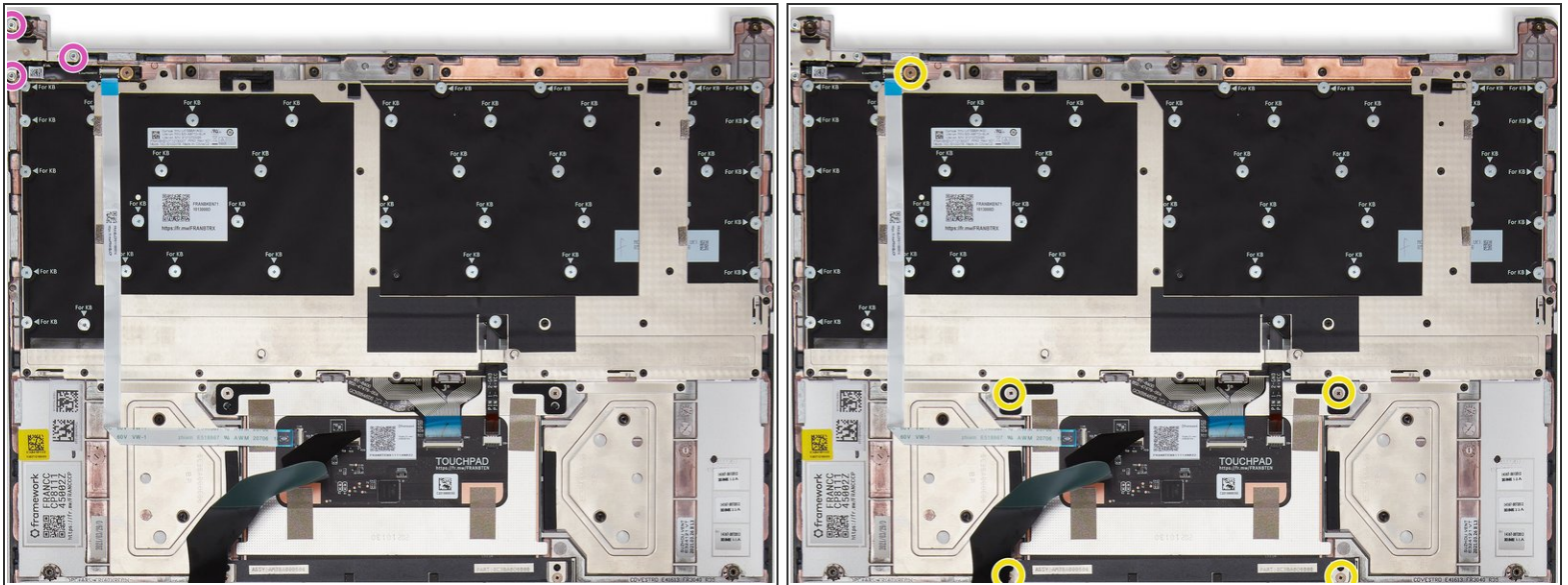
- [Framework Screwdriver](#) (1)
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Step 1 — Bottom Cover and Mainboard Fasteners



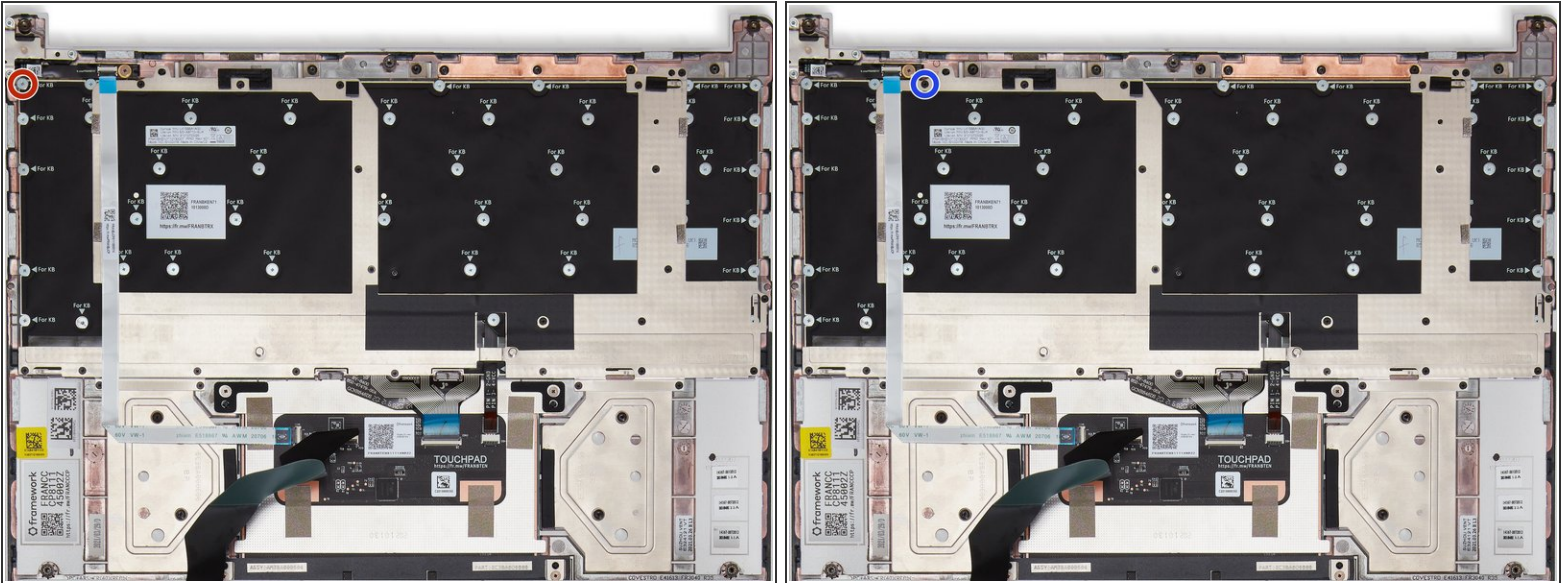
- In the first image, marked with pink markers, we have the gold colored fastener that is used for WiFi, Storage, and the Audio Board. This is an M2 3.0mm fastener with a T5 head which is 4.5mm in diameter and 0.7mm thick. The right-most fastener in the top three spares above the Mainboard is an extra of these.
- In the second image, marked with yellow markers, we have the gray colored fastener that is used for the Mainboard. This is an M1.6 1.5mm fastener with a T5 head which is 5.5mm in diameter and 0.6mm thick. The left-most fastener in the top three spares above the Mainboard is an extra of these. These are also used for the Webcam.
- In the third image, marked with blue markers, we have the silver colored fastener that is used for the Hinges where they attach to the Bottom Cover. This is an M2 4.0mm fastener with a T5 head which is 4.6mm in diameter and 0.6mm thick. The middle fastener in the top three spares above the Mainboard is an extra of these.
- ① The five fasteners that attach the Bottom Cover to the Input Cover are captive (meaning they don't come out), but in case you somehow pulled out and lost one, they are M2 5.75mm with a T5 head which 4.6mm diameter and 0.8mm thick.

Step 2 — Input Cover Fasteners



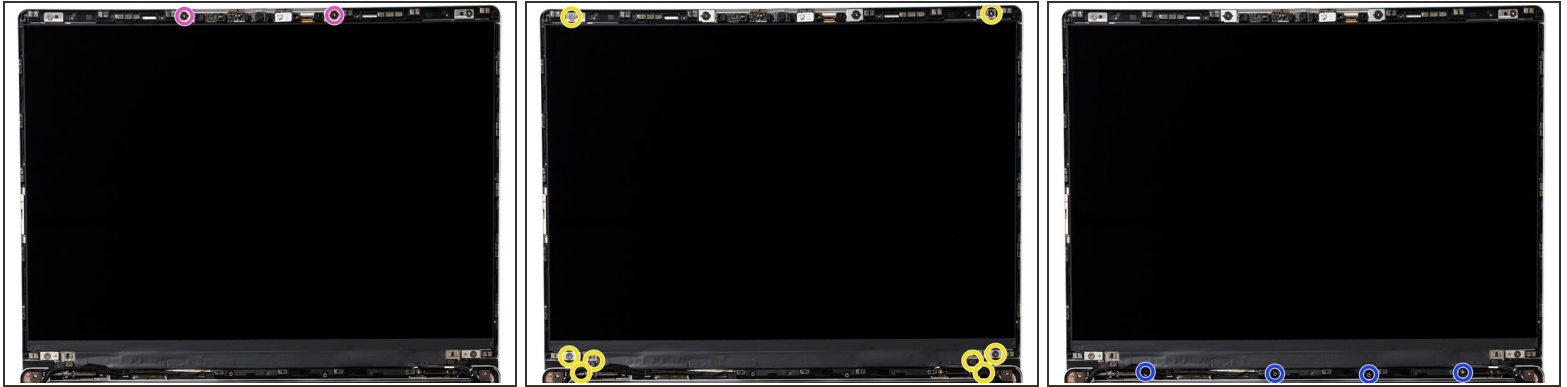
- In the first image, marked with pink markers, we have the silver colored fastener that is used for the Fingerprint Reader Bracket. This is an M1.4 3.5mm fastener with a T5 head which is 3.0mm in diameter and 0.6mm thick. These are also used as part of the Expansion Card bracket in the Bottom Cover.
- In the second image, marked with yellow markers, we have the gray colored fastener that is used for the Fingerprint Reader, Touchpad, and Touchpad Bracket. This is an M1.4 1.8mm fastener with a PH0 head which is 4.0mm diameter and 0.4mm thick.

Step 3 — Keyboard Fasteners



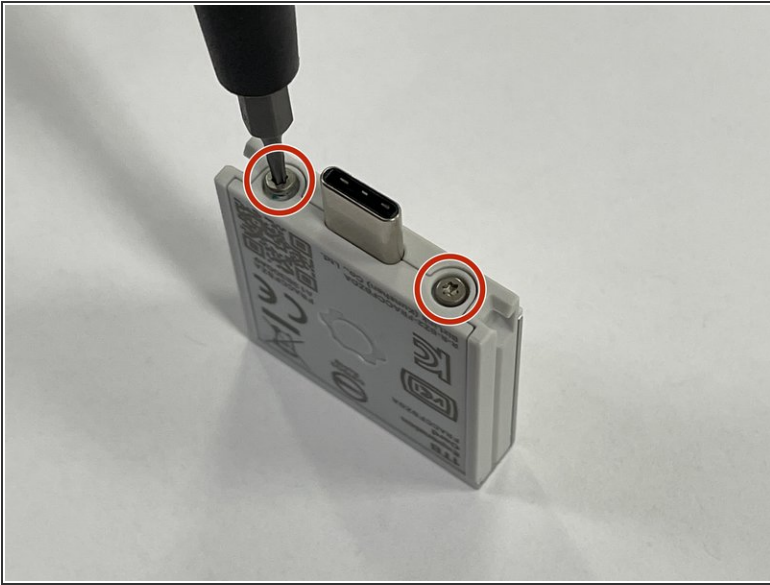
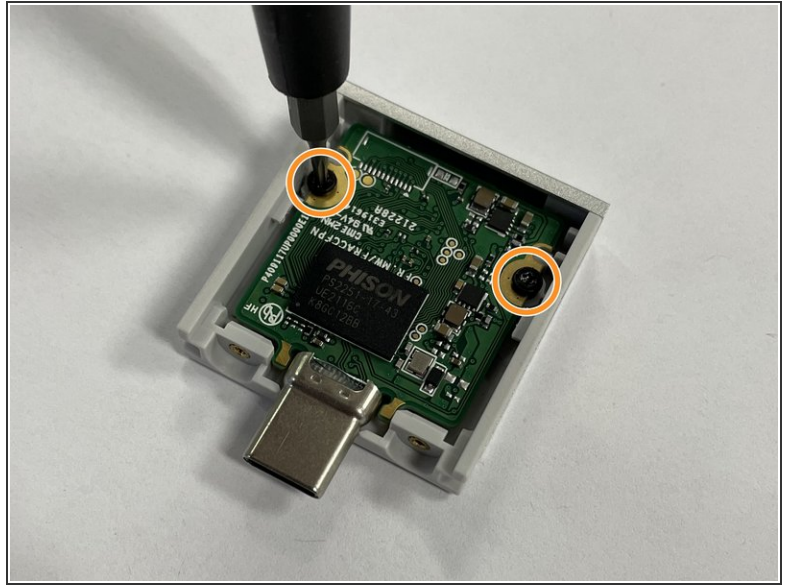
- These are the fun ones (for some definitions of fun). The 48 silver fasteners that hold the keyboard in (one is circled in red in the first image) are M1.2 1mm with a PH0 head which is 4.4mm in diameter and 0.25mm thick. There is a spare in the Bottom Cover to the lower left of the battery connector.
- The 25 black fasteners (one is circled in blue in the second image) hold the Keyboard Bracket. These are M1.2 1.3mm with a PH0 head which is 3.2mm in diameter and 0.3mm thick. There is a spare in the Bottom Cover to the lower left of the battery connector. These are also used for the Expansion Card brackets in the Bottom Cover.

Step 4 — Top Cover Fasteners



- In the first image, marked with pink markers, we have the gray colored fastener that is used for the Webcam Module. This is an M1.6 1.5mm fastener with a T5 head which is 5.5mm in diameter and 0.6mm thick. These are also used for the Mainboard, and so there is a spare in the Bottom Cover (the left-most of the top three fasteners).
- In the second image, marked with yellow markers, we have the gray colored fastener that is used for the Display and for the Hinges where they attach to the Top Cover. This is an M2 2.0mm fastener with a T5 head which is 4.5mm in diameter and 0.5mm thick.
- In the third image, marked with blue markers, we have the silver colored fastener that is used for the Antenna Module and for the Hinges where they attach to the Top Cover. This is an M1.6 3.0mm fastener with a T5 head which is 3.0mm in diameter and 0.65mm thick.

Step 5 — Expansion Card Fasteners



- You'll probably never need to open an Expansion Card, but if you do and one of the tiny fasteners goes "poof!", here are the specs. In the first image, marked in red, there are two silver M1.2 3.0mm fasteners with a 2.9mm T5 head.
- In the second image, marked in orange, are the two black M1.6 3.0mm fasteners with a 3.0mm T5 head.

If you ever find that you've lost the fastener you need and it isn't one of the five spares that are included in the Framework Laptop, [reach out to our Support](#) team and we'll do what we can to help you.