

2040 Base PCB/ Wire Holder Tool Set

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Summary

I've compiled models from the original PCB tool holder and several of the remixes to create a complete set.

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Tags: [extrusion](#) [tpu](#) [electronics](#) [clamp](#) [pcb](#) [pcbmount](#)
[wire](#) [pcbholder](#) [clamps](#) [pcbwise](#) [electronicsproject](#)
[extrusionendcap](#) [pcbstand](#)

Most of these files are from **others' admirable efforts**, please check out the remix links for the originals. I renamed, translated, reoriented and collected various model files from various projects into singular project (please see all remixes for their original licenses - of which I had to comply with the most restrictive of). Some remixes and an original 2040 stabilizer base added to complete the project so you can create an incredibly functional PCB/Wire holder tool set. I have used this set for a couple weeks now and have really been enjoying it. Cheers!

Features beyond the original

- Heavy and very stable base made of 2040 aluminum extrusion and stabilized with printed feet, making this remix suitable for almost any size build plate.

- TPU jaws for the grippers.
- Locking discs for grippers to lock the work in position.
- Wire holder jaws.
- A small box to hold the spares while you are storing the tool.

Some notes on printing

- The STLs are pre-oriented, but...
- The grippers with TPU jaws should be printed on their side with supports enabled. No other part should require support. Highly recommend you print these in a material with the heat resistance of PETG or higher.
- The TPU jaws should be printed so the long length is vertically oriented.

To complete this project as shown you will need the following extra hardware

- A length of 2040 aluminum extrusion (European standard). I went for 250mm length and wouldn't generally recommend much shorter than that unless you are planning on working on exclusively small PCBs. Here is a non-affiliate [Amazon link](#) for the extrusion I purchased in the

US.



- You will need 2x clothes pin wire. I highly recommend purchasing these from a local second hand shop or dollar store instead of

Amazon.



- (Optional) Some foam/rubber/silicone pads or bumpers for the bottom of the extrusion stabilizers. Best to measure this after printing, but the max width would be ~10mm with 2040 stabilizer foot model. I trimmed these pads, and though they have a strong off gassing smell even months later (so I would recommend you store them in a zip lock bag of some sort). Non-affiliate [Amazon link for the set](#) I purchased (they are very handy in general).

This remix is based on



Adjustable PCB Holder Tool

by squinn



Adapter for Extrusion profiles and TPU Grippers

by Lukas Langer



Update: Multimodularer Adjustable PCB Holder mit 90° Arretierung

by koenitec



Cable Clamps for Adjustable PCB Holder Tool (Remix)

by Miquel Arimany



SnapLock Storage Boxes (parametric)

by Hugo

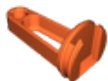
Model files



Arms

2 files

2x_arm.stl

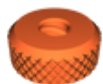


2x_arm-base-knob-accent-color.stl



Grippers

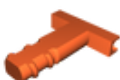
5 files



2x_gripper-knob-accent-color.stl



2x_gripper-locking-disc.stl

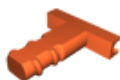


2x_gripper-long-with-tpu-jaw-accent-color.stl



2x_tpu-jaw.stl

☐ Recommend printing 2-4 extra of these (they will occasionally melt :-D)



optional-1x_gripper-short-accent-color.stl

☐ Print this if you want the option of using one side without the locking disc



2040 Base

3 files



2x_arm-base-2040-module.stl

☐ This part is a tight fit, slide it through the extrusion to shave it down and it will smooth



2x_2040-stabilizing-end-cap-10-mm-clearance.stl

☐ This part is a slightly tight fit, I recommend using a clamp to place it in the extrusion



optional-2x_2040-stabilizing-end-cap-16mm-clearance.stl

☐ This part is a slightly tight fit, I recommend using a clamp to place it in the extrusion



Wire Holders

5 files



1x_wire-clamp-left-long.stl



1x_wire-clamp-right-long.stl



2x_wire-clamp-jaw-accent-color.stl



1x_wire-clamp-left-short.stl

☐ (optional) For use *without* locking disk



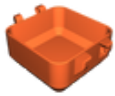
1x_wire-clamp-right-short.stl

☐ (optional) For use *without* locking disk



(Optional) Snaplock Storage Box

3 files



1x_snaplock-box-70x70x50-bottom.stl



1x_snaplock-box-70x70x50-latch-accent-color.stl



1x_snaplock-box-70x70x50-top.stl



Source Files (of new & remixes)

10 files

2040-stabilizing-end-cap.f3z

2040-stabilizing-end-cap.step

gripper-long-with-tpu-jaw.f3d

gripper-long-with-tpu-jaw.step

snaplock-box-70x70x50.f3d

snaplock-box-70x70x50.step

wire-clamp-left-long.f3d

wire-clamp-left-long.step

wire-clamp-right-long.f3d

wire-clamp-right-long.step

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