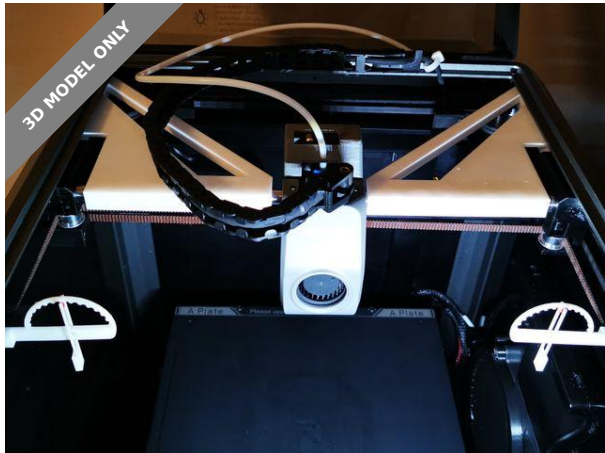




Creality K1 and K1 Max XY axes alignment tool



RaduSorin1

[VIEW IN BROWSER](#)

updated 3. 9. 2023 | published 3. 9. 2023

Summary

Creality K1 and K1 Max XY axes alignment tool

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [tool](#) [calibration](#) [creality](#) [xy](#) [axis](#) [alignment](#) [max](#)
[xyzaxis](#) [axes](#) [k1](#) [xycalibration](#) [k1max](#) [crealityk1](#)
[xyalignment](#)

Description:

Creality K1 XY axes alignment tool.

Update: Added alignment tools for K1 Max.

It will help keeping the axes perpendicular while adjusting the belts.

Also it will keep the X gantry at 150mm from front pulleys so you can adjust the belts, if you push everything all the way back.

Settings:

Nozzle: 0.4 or as much as you can

Line height: 0.2 or as much as you can

Line width: 0.4 or as much as you can

Supports: No

Brim/Raft: No

Material: Any

Note:

X axis slot has 10mm, Y axis slot has 8mm, also Y is the shortest part (right will fit only right, left only left)

Installation:

1. Loosen the belts (as described in the manual, or as you are used to)
2. Move X gantry to the front of the printer
3. Attach first to Y rod, next to the motors, easier if it's vertically oriented with the tip down.
4. After installing both on Y rods, rotate them until parallel.
5. Bring X gantry close
6. Raise alignment tools a little and slip X gantry underneath
7. Lock in place.
8. Both should be locked on Y and X rods. Tools and X gantry should be pushed until they touch XY motors bearings supports to achieve the 150mm belt length.
9. Proceed to tighten the belts (as described in the manual, or as you are used to)
10. Optional you can use the belts tension meter found here <https://www.printables.com/model/523382-creality-k1-belt-tension-meter>

Model files



creality_k1_x_y_alignment_tool.stl



k1_max_right.stl



k1_max_left.stl

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition