



QIDI X-Max 3 Case cover - Z-axis holes (spring)

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Summary

Designed some covers with spring mechanism for the z-axis holes.

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Designed a cover to close the holes for the z-axis within the printer. The cover has a spring element, because the bearings of the bed move into the holes and i didnt want to reduce the maximum print height.

Printed with QIDI ABS rapido , complete solid. without supports, 0,16mm layer height, 40% aux fan. Also placed the part close to the aux fan. This is a print in place design, so don't move the parts in the assembly. Just break everything loose after printing. **Arachne setting for perimeters must be turned on.**

You can mount the parts without disassembly of the printer. First put the spring on the rods, move the spring into the holes (clean the holes before) and than press the outer cover into the hole.

The cover is required to preload the spring. The middle spiral is just for support and must be removed. Assemble the cover and spring 180° rotated, so that the slots of the part are not aligned.

Only print one spring at the same time or use sequential printing, otherwise the movement between parts may lead to failure.

Model files



cover_springcase_8.stp

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