How to replace the Z-axis Screw

After using the 3D printer for an extended amount of time, the Z-axis Screw and bearing sleeve may become clogged with dust, causing the Z-axis to not work properly. This could result in layer lines appearing across your prints. The Z-axis may even end up needing replacements. Here you will find out on how to replace the Z-axis Screw.

SONIC MINI 8K

Removing the old Z-axis:

Step 1: Remove the plastic cover, the vat, and the building plate.

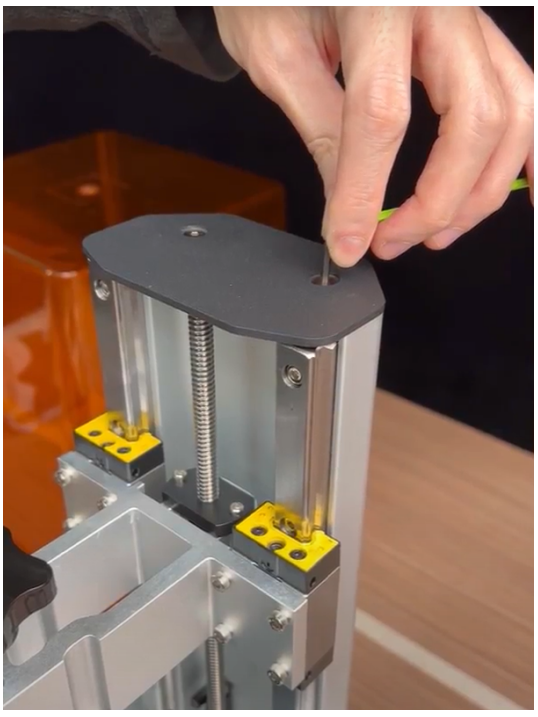
Step 2: Select TOOLS > MANUAL > 10mm to raise the T-plate to a higher position.

Step 3: Turn off the printer and unplug the power cable.

Step 4: Turn the printer upside down and remove the bottom cover.

Step 5: Remove the LED cable and motor cable from the mainboard.

Step 6: Remove the top black plastic cover by loosening the 2 screws.



Step 7: Unscrew the T-plate by loosening the 8 screws.

Step 8: Spin the Z-rod clockwise to lift and remove the T-plate.

Step 9: Use a piece of tape to secure the Z-axis and to prevent the linear guides from falling off.

Step 10: Lay the printer on its side.

Step 11: Loosen the ❸, ❹ two screws on the platform.

Step 12: Remove the Z-rod from the printer.

Warning
DO NOT remove the linear guides from the rails as the balls may fall out and lead to irreversible damage to the Z-axis.

If you replace the Z-axis Screw with Steppermotor then unplug the motor from the mainboard.

Installation of the new Z-axis:

Step 1: Tighten the ❸, ❹ two screws and install the Z-axis back in place.

Step 2: Spin the Z-rod counterclockwise and install the T-plate back onto the Z-axis.

Step 3: Tighten the 8 screws on the T-plate

Step 4: Tighten the top black plastic cover.

Step 5: Reattach the LED cable and motor cable.

Step 6: Install the bottom cover back.

Step 7: Plug in the power cable, and turn on the printer.

If you replace the Z-axis Screw with Steppermotor, plug the new motor to the mainboard.