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Cleaning the Ultimaker S5

January 27, 2020 09:50

For the best print results, it is important to keep the Ultimaker S5 clean while using it. It is advised to not use the Ultimaker S5 in a room where it can easily be covered with dust, and to remove small pieces of material that might be in the printer. Besides this, there are a few parts in the Ultimaker S5 that might require more regular cleaning.

Clean the glass build plate

After printing, there might be print leftovers or excess glue stuck to the build plate. This can cause an uneven print surface. Potential sources of contamination are dust or fatty substances such as finger grease. Removing a print may also reduce the adhesion quality of a layer of glue. It is advised to regularly clean the build plate and reapply glue (if applicable).

Before starting a new print, always check the surface of the build plate. At least once a month, clean the build plate thoroughly by taking the following steps:

Caution: Always make sure that the build plate has cooled down and is lowered to the bottom of the Z-axis.

1. Open the build plate clamps at the front, slide the glass build plate forward, and take it out of the printer
2. Use lukewarm water and a non-abrasive sponge to clean the build plate and to

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Caution: Make sure to thoroughly dry the glass plate before placing it back in the printer.



Clean the glass components

All glass components of the printer (the glass doors and touchscreen) should be cleaned regularly to remove dust or fingerprints. They can be cleaned by using a dry, or if necessary, a somewhat moist microfiber cloth.



Clean the nozzles

While using the Ultimaker S5, material can get stuck to the outside of the nozzles and degrade. Although this will not damage your printer, it is recommended keep the nozzles clean in order to achieve the best print results.

Note: When you use the print core CC Red 0.6 it is recommended to check the quality of the nozzle cover once every month. More information about maintenance of the print core CC Red 0.6 can be found on [this page](#).

Before starting a new print, always check the nozzles. At least once a month, remove the plastic from the outside of the nozzles by taking the following steps:

1. On the Ultimaker S5, navigate to the configuration menu, select *print core 1*, then click on the icon in the top-right corner and select *Set temperature*

2. Use the controls to set the target temperature to *150 °C*. Repeat this for print core 2 and make sure this print core is lowered
3. Wait for the material on the outside to get soft. When the nozzles are hot, carefully remove the material with tweezers

Caution: During this procedure do not touch the nozzles and be careful while cleaning them as they will become hot.

Caution: The nozzle cover is fragile and has a sealing function. Be careful not to damage the nozzle cover when using tweezers.



Tip: Material may have accumulated higher up on the outside of the nozzle, above the nozzle cover. Check if this is the case by opening the print head fan bracket. To ensure the print head can close smoothly, this material should be removed using tweezers, as described above.

Clean the Bowden tubes

Particles in the Bowden tubes can impede smooth movement of the filament, or mix

colors. Clean the Bowden tubes at least once a month, or after experiencing an issue with filament grinding. To clean the Bowden tubes, they must first be removed from the printer. [Read our guide on cleaning the Bowden tubes.](#)

Inside of the printer

Small pieces of material can gather inside the printer, such as priming blobs. Remove these regularly from the inside of the printer by taking the following steps:

1. Raise the build plate by navigating to *Configuration > Build plate* and select *Raise*
2. Clean the inside of the printer with a microfiber cloth or vacuum cleaner. Pay extra attention to the area around the Z limit switch, as obstructions here can cause print problems

Caution: Leaving larger objects on the bottom panel can lead to errors, as they prevent the build plate from homing properly.

Note: In combination with the Material Station, it is recommended to clean the inside of the printer more frequently. Remove the strands of filament created by the [prime/deprime procedure](#) after every print, or at least once a week.



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