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# Check for debris in the Ultimaker S5's front fan of the print head

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The front fan cools the print cores during a print. This helps to prevent the heat from the nozzle traveling too far upwards.

The fan takes in air from the front of the print head and directs it towards the print cores. Sometimes the airflow causes thin strands of filament to be sucked into the fan during a print. If strands accumulate in the fan, they can decrease the effective cooling and eventually obstruct the fan and prevent it from spinning. Especially high-temperature materials, such as CPE+, PC, and ABS are sensitive to this.

To check the front fan, first gently open the front fan bracket. Blow into the front fan to see if it spins smoothly. If it does not move at all, or stops spinning abruptly, carefully clear any obstructions from the front fan with some tweezers.

**Caution:** Make sure that the print cores are completely cooled and the printer is turned off before performing this check.

**Tip:** Some filament debris can also be visible from the outside of the print head. Make sure to remove this too.

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