



## Automatic printer switch off



gsohler

[VIEW IN BROWSER](#)

updated 1. 8. 2023 | published 1. 8. 2023

### Summary

I wanted my printer to switch off automatically after printer job done and not caring about fans still running. So I...

[3D Printers](#) > [Accessories](#)

Tags: [thingiverse](#)

I wanted my printer to switch off automatically after printer job done and not caring about fans still running. So I decided to create this thing.

The Power of my printer is derived from an ATX Power adapter and the Printer On switch basically shortcuts the green wire of the ATX supply to ground.

When my printer jobs finishes, my printer does a homing of X and Y, so wenn X axis reaches home position, this could trigger a limit switch.(switch off)

So the basic Idea is to create a second "switched" On switch.

This is an electrical path from ground to 2nd onSwitch - to extra limit switch - and finally to to green wire.

So when you successfully started your print job, you would supply the printer from the 2nd on switch.

Actually a simple limit switch is not sufficient: When homing triggers the limit switch it will disconnect the power, but when looses force it might snap back , providing power again to the printer. So the printer will just make a reset, but not switch off. You need something like a latch.

This is what I realized here. A Video showing the functionality

of the switch is at <http://youtu.be/8Bw0QOTs684>.

Here you see my installed auto-power-off : <http://youtu.be/IdwWwwwvrUUY>

## Instructions

You need

- the plastic print
- a 5mm diameter 10mm small spring
- a small skrew to fix the spring
- A limit switch with 10mm Hole distance
- 2 M2x8 skrews top

Print with 0.15mm layer height, no support

use a file and 5.5mm drill to finetune the result.

Attach the spring to the latch, insert the latch into the case.

mount the spring with the skrew, then insert the locker and

finally mount the limit switch.

Category: 3D Printer Accessories

## Model files



**autooff.stl**

[Find source .stl files on Thingiverse.com](http://www.thingiverse.com)

# License

This work is licensed under a  
**Creative Commons (4.0 International License)**



**Attribution-ShareAlike**

---

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