



LACK enclosure control panel



CrazyB

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Summary

My custom control panel.

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I recently build my LACK enclosure and wanted a control panel with custom features so I designed this. I uploaded STEP and Fusion 360 files, so you should be able co customize it to fit your needs.

I thought about adding some way of identifying the switches but there isn't enough place for it and I didn't really feel the need to do so.

The key switch turns on the mains power so the whole enclosure. No one is going to mess with my printer anyway, but I wanted to include this switch just for the cool looks.

PLEASE DON'T MESS WITH MAINS VOLTAGE IF YOU DONT KNOW WHAT YOU ARE DOING!

Next switch to the right turns on the printer, I just removed the original switch and added an extension cable. I probably need to come up with a way to protect this switch, because I accidentally turned off the printer couple times when I wanted to turn on the lights.

The double switch is for lights, one for the main light and one for a smaller light on the printer.

The last switch on the right is for the thermostat, which controls the fan in the back of the enclosure. I printed the main panel in 0,3 mm layer height so I designed it to be one layer thick where the display is located.

The buttons for the thermostat should be able to just push on the buttons when it's secured in place. If that doesn't work, just heat it a little bit with a lighter.

I also didn't feel like reaching in the enclosure to put in the USB drive, so I added an extension cable for USB.

Here is a list of all the components used. I live in Czech Republic, so it's on czech sites, but you can most likely find a model number or something on the site and just source it from your local store.

The thermostat is secured in place with 3mm nuts and bolts as well as the USB extension cable and the main panel with 3mm screws.

Key switch: <https://www.gme.cz/spinac-na-klic-hby5-10y-21>

Single switch: <https://www.gme.cz/kolebkovy-spinac-rs-101-11c-c3-b-b>

Double switch: <https://www.gme.cz/kolebkovy-spinac-rs-2102-1a3-b-b>

Thermostat: <https://www.gme.cz/modul-presny-digitalni-termostat-50-az-110-c>

USB extension: <https://www.gme.cz/prodluzovaci-kabel-usb-2-0-a-m-usb-2-0-a-f-na-panel-1-8m>

Model files



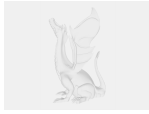
main-panel.stl



thermostat-button.stl



thermostat-button.step



main-panel.step



thermostat-button.f3d



main-panel.f3d

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