Micro SD to SD Adapter Holder with Switch mounting Hole (for SV06 Plus)

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VIEW IN BROWSER

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Summary

Mounting bracket with switch mounting hole for SV06 Plus to mount microSD to SD adapter to top of frame

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NOTE: This process/installation requires soldering to surface mount devices.

This modification is at your own risk. I take no responsibility for your actions or any damage to your board. No warranty, etc., etc..

This is a mount to attach a microSD to SD adapter (Lanmu brand, purchased from Amazon) to the top of the gantry on the SV06 Plus. It also includes a mounting hole for a switch (I used a toggle, because that's what I had... A pushbutton would work as well). It's a "standard" 1⁄4" (6mm) mounting hole. There's a screw hole to attach the mount to the top left gantry.

To install the mount. Before inserting the microSD to SD adapter, remove the inner bolt from the top of the gantry (left side). Put the bolt through

the mount, tighten it down. Insert the ribbon cable from the adapter through the slot at the back and pull it through.

Install the switch, add 2 wires from the switch down to the mainboard (left side of the printer). I used shielded twisted pair because that's what I had (shielding isn't terminated).

I routed the new wires into the motherboard case via the hole where the print head cable exits.

With the mainboard exposed, locate the microSD holder. (See image). Insert a piece of kapton tape or similar insulating material between the two contacts circled in red on the image (approximately where shown by the red line).

Solder one of your two wires (from the switch) to ground (any part of the microSD slot will work, I used one of the mounting tabs (indicated in blue).

Solder the second wire to the diode pack "D12" terminal shown in green.

At the switch end, one wire to the common terminal, the other to the normally closed contact. Basically, you want the switch contacts to connect the ground to the D12 diode pack when the microSD is "inserted". The switch is to interrupt the path to "fool" the board into sensing the "Card detect" line. Insert the SD card, toggle the switch, and the printer will sense that the microSD was ejected and reinstalled and list the new files.
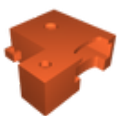
Secure the wiring from the switch using the zip tie mount location behind the switch hole.

Printed on my SV06Plus using Sovol blue PLA.

Print with the "back" surface down (where the ribbon cable exits) (supports enabled to support the switch portion).

Modeled in TinkerCAD.

Model files

sd_adapter_with_switch.stl

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