



## Raspberry Pi 3 Case for Pi & Buck Converter - Direct Prusa i3 MK3 attachment



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### Summary

I was looking for an Raspberry Case that could fit the Pi and a Stepdown (Buck) Converter to power the Pi directly...



5.81 hrs



1 pcs



0.20 mm



0.40 mm



PLA



49 g



Prusa  
MK3/S/S+

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[converter](#) [stepdown](#)

I was looking for an Raspberry Case that could fit the Pi and a Stepdown (Buck) Converter to power the Pi directly from the power supply of my MK3S. I couldn't find anything I like so I decided to create my own.

I designed 2 versions of the case, one that will fit any MK3 (see photos) and one regular case.

Everything is built to snap fit. You have the option to use screws as well. I used screws from the included spares bag that came with my printer.

The lid has holes for a 40x40x10mm fan.

M3 x 6 mm screws would work best to secure the Pi & Stepdown. For the lid, M3 x 10 (or 12) sunkhead. Longer work as well. I used spare sunkhead screws that you would use to attach the heat bed.

The case should work for all Pi's version 2 & up.

Note: Raspberrys default holes are somewhat small, I used a 3mm Drill to bore out the holes. I think they are 2.8 ish. You might be able to squeeze a 3mm screw trough it tho.

EDIT: I am sorry, mistakes were made. Screw holes for the fan were to small. Screwless mount didn't work. This should be fixed now! Sorry if this caused any inconvenience.

Stepdown Buck Converter I used: [https://www.amazon.de/gp/product/B077VW4BTY/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o04\\_s01?ie=UTF8&psc=1](https://www.amazon.de/gp/product/B077VW4BTY/ref=ppx_yo_dt_b_asin_title_o04_s01?ie=UTF8&psc=1)

Raspi Heatsinks: [https://www.amazon.de/gp/product/B07RGKLW3V/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o04\\_s01?ie=UTF8&psc=1](https://www.amazon.de/gp/product/B07RGKLW3V/ref=ppx_yo_dt_b_asin_title_o04_s01?ie=UTF8&psc=1)

Short USB Cable: [https://www.amazon.de/gp/product/B004CDXH1K/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o02\\_s00?ie=UTF8&psc=1](https://www.amazon.de/gp/product/B004CDXH1K/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&psc=1)

40mm Fan: [https://www.amazon.de/gp/product/B00NEMGCIA/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o00\\_s00?ie=UTF8&psc=1](https://www.amazon.de/gp/product/B00NEMGCIA/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1)

## Print instructions

Included .gcode prints the MK3\_Case, Cap & Lid using the default 0.2 quality PLA Profile (Prusa Slicer)

## Model files



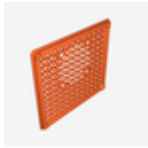
**case\_mk3\_mount.stl**



**case.stl**

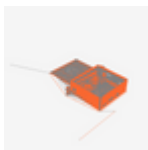


**cap.stl**



**lid.stl**

## Print files



**case\_mk3\_mount\_02mm\_pla\_mk3s\_5h48m.gcode**

🌀 PLA 🌀 0.40 mm ≡ 0.20 mm ⌚ 5.81 hrs ⚖️ 49 g 🖨️ Prusa MK3/S/S+

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