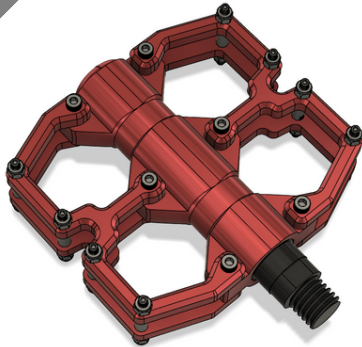


3D MODEL ONLY



## mtb flat pedal bearing multipart



Ujang Karnadi

[VIEW IN BROWSER](#)

updated 18. 12. 2023 | published 18. 12. 2023

## Summary

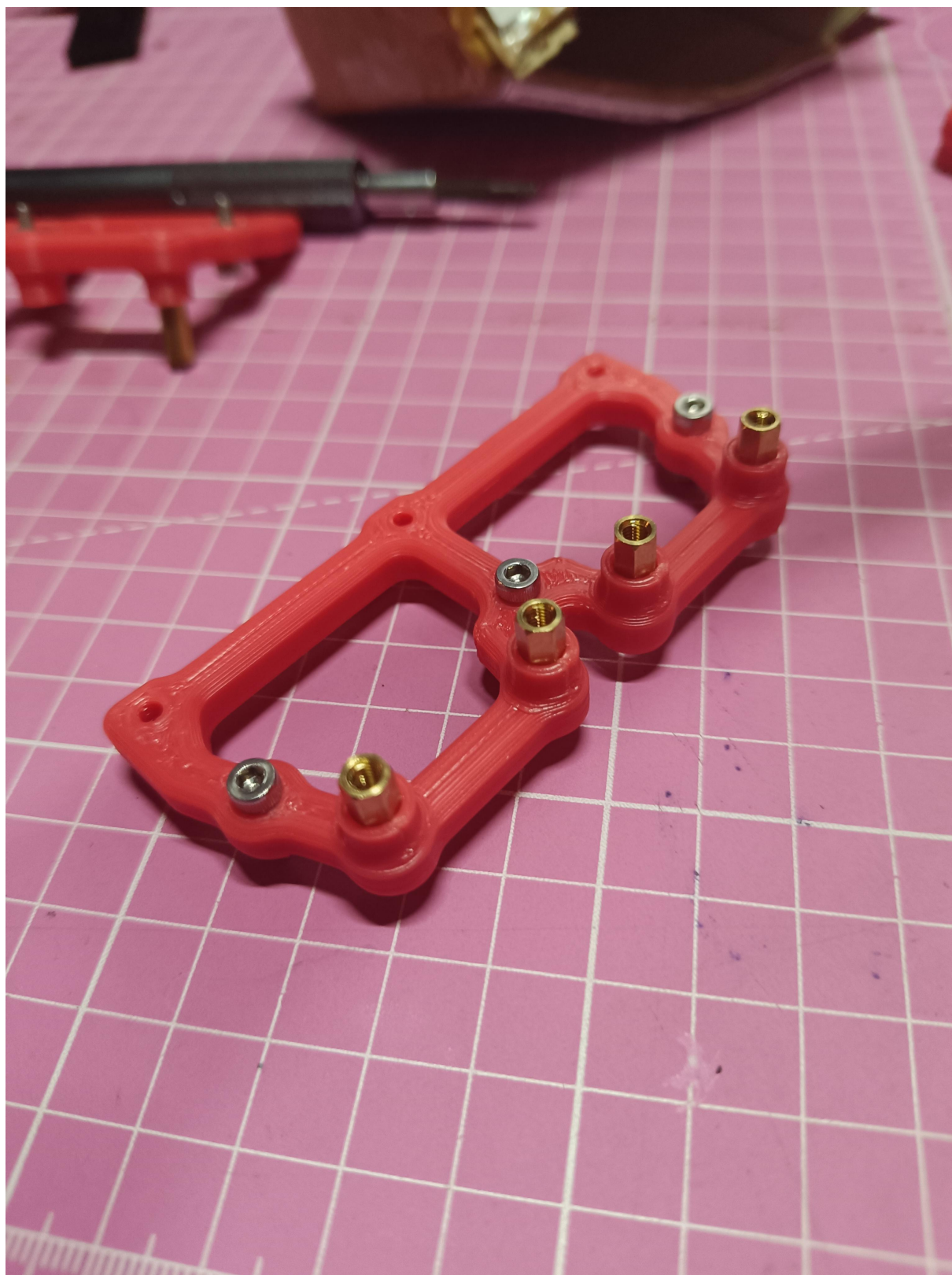
mtb pedal bearing

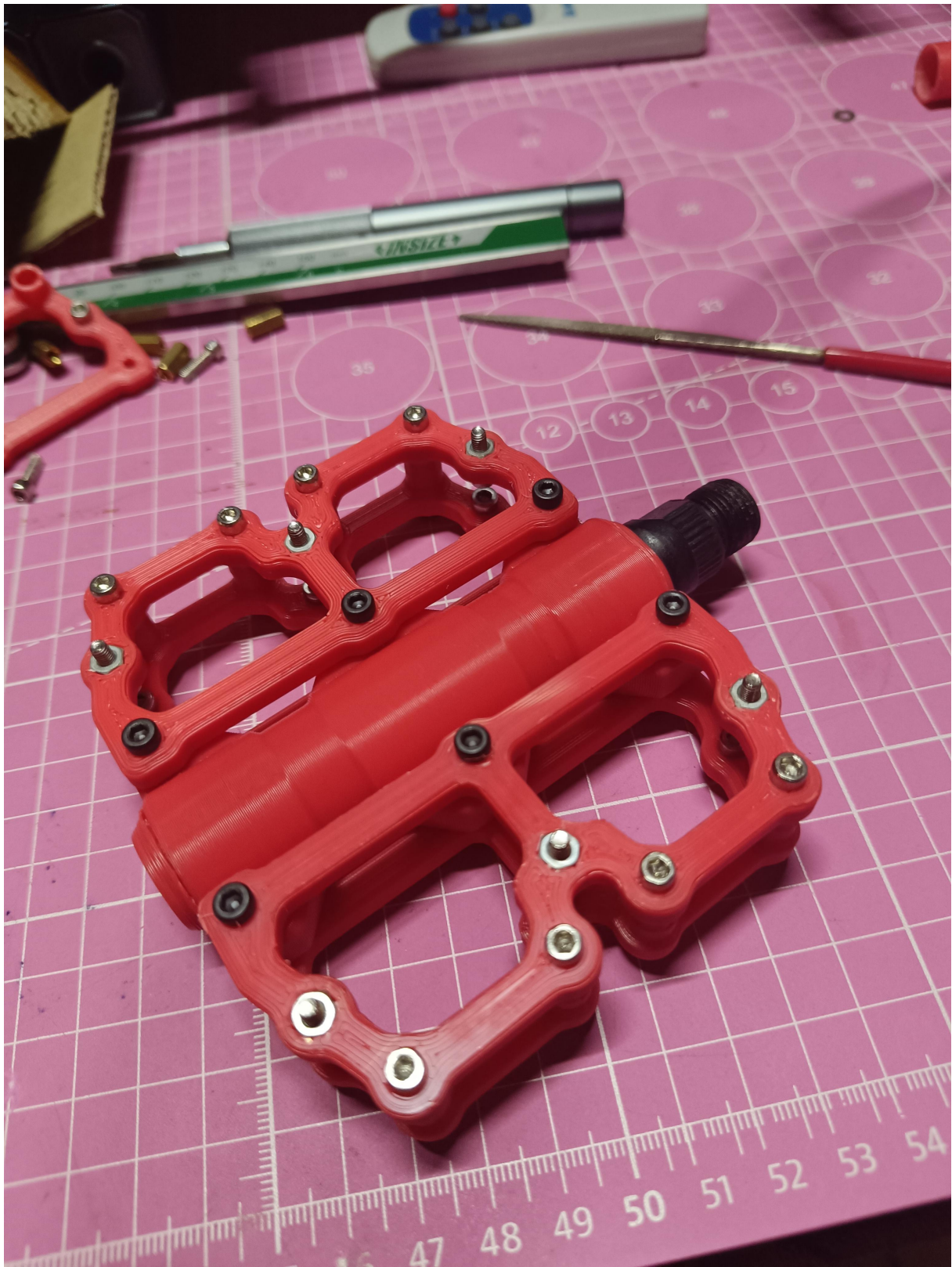
[Sports & Outdoor](#) > [Outdoor Sports](#)

Tags: [pedal](#) [bike](#) [mtb](#) [bikepedal](#) [mtbpedal](#)









mtb flat pedal, multi part for easier print. Should be no problem printing without support. Use ASA or ABS.

I design it for casual XC bike riding. I have tested this for 2 hours ride. It is quite strong. Can withstand my weight of 90kg. I don't recommend heavy riding. But you can try. I hope you understand the risk of using 3d printed part for your bike.



Easy to print, no support. It just need a lot of screw. and in my opinion it look gorgeous . total weight of one assembled pedal is 190 gram, you can reduce the amount of spacer and screw to your liking for weight adjustment. or you can edit the step file and reduce the pedal thickness.

BOM : (may vary depend on variant you choose)

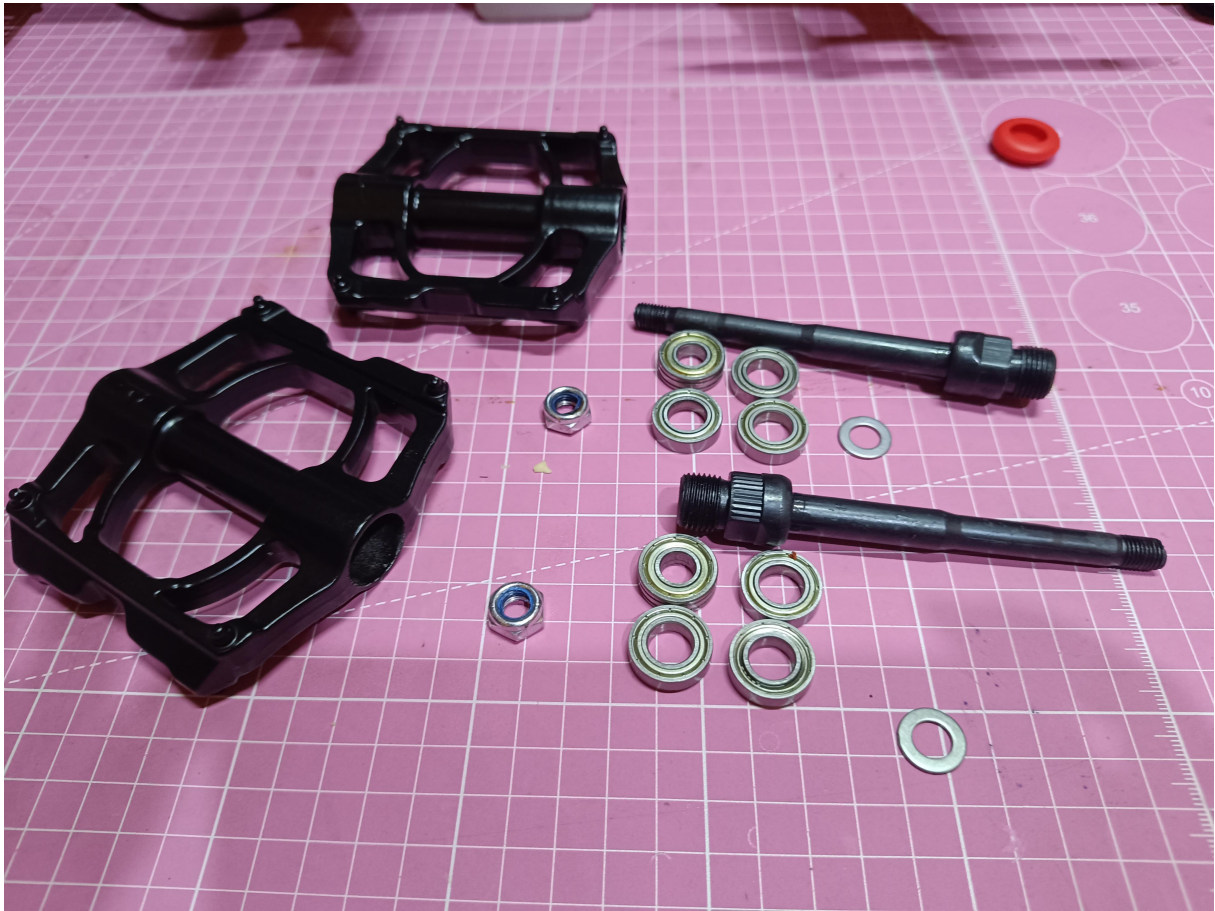
1. 12 pcs m3x10 screw (to be safe prepore at least 50 pcs)
2. 8 pcs m3 spacer with 10mm length
3. 16 pcs m3 nylon locknut
4. 16pcs m3x16 hheadless screw
5. pedal donor with 3/4 bearing from [aliexpress](#)

for the spike/grip version, if you use nut version, use m3 nut and m3x10mm screw. if you choose the heatset insert variant, use m3x4 heatset and m3x8-10 headless screw.

Pedal donor look like this, it cost me \$4 from my local market with 4 bearing per pedal. It works but look ugly, so decided to design my own.

the stock bearing from the donor pedal are 698 zz and 6800 zz bearing. but I changed it to miniature MR 148 ZZ and 6700 ZZ bearing to achieve thicker and strong wall on the center part.but you can still use the stock bearing from the donor.

if you don't have the time and part just buy new pedal from aliex, you can get \$10 good nylon pedal bearing. but changing hobby from 3d print to bike doesn't feel right if I don't use some of my previous hobby(3d print) in my mtb.



## Model files



Center part MR 148 ZZ and 6700 Z

4 files



**center-part-mr-148-zz-and-6700-zz-bearing.stl**

☐ change the stock bearing to MR 148 ZZ and 6700 ZZ



**seal.stl**



**cap.stl**



**bearing-pedal-v18.step**



**diy-bearing-pedal-v5.step**



**center-part-698-zz-and-6800-zz-bearing.stl**

☐ 698 zz and 6800 zz bearing



**pedal-wing-4-spacer-6mm-thick-nut-spike.stl**

☐ use m3 nut and m3x10 for spike(grip)



**pedal-wing-3-spacer-6mm-thick-nut-spike.stl**

☐ use m3 nut and m3x10 for spike(grip)



**pedal-wing-3-spacer-6mm-thick-heatset-spike.stl**

☐ use m3 heatset with 4mm height and m3x8 headless screw for spike(grip)



**pedal-wing-4-spacer-6mm-thick-no-spike.stl**

☐ no grip, or you can use m3 locknut and m3x15 headless screw for grip



**pedal-wing-4-spacer-6mm-thick-heatset-spike.stl**

☐ use m3 heatset with 4mm height and m3x8 headless screw for spike(grip)



**pedal-wing-3-spacer-6mm-thick-no-spike.stl**

☐ no grip, or you can use m3 locknut and m3x15 headless screw for grip

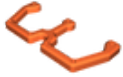


**seal-cap.stl**



**end-cap.stl**

---



**pedal-wing-m3-spacer-6mm-thick.stl**

---



**pedal-wing-m3-spacer-4mm-thick.stl**

---



**pedal-wing-m3-spacer-5mm-thick.stl**

---



**washer-m8.stl**

## License ©

This work is licensed under a  
[Creative Commons \(4.0 International License\)](#)



**Attribution-NonCommercial**

---

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