



## V-Core3 stepper decoupling/belt hotswap corners

 Scrambler77

[VIEW IN BROWSER](#)

updated 10. 12. 2022 | published 10. 12. 2022

### Summary

V-Core3 & 3.1 rear corners replacement - allows fast belts swap, to be used with stepper motor dampers/decouplers.

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [belt](#) [hotswap](#) [vcore3](#) [ratrigvcore3](#)

A simple and affordable replacement of the stock RatRig V-Core3/3.1 motor cages that allows fast and easy belt replacement, without the need to unmount the entire motor assembly and (if legacy enclosed) the lid and other frame components.

This design has to be used in conjunction with stepper motor decouplers like this: <https://www.printables.com/it/model/326259-stepper-drive-decoupler>

The groove inside the model allow routing and hiding wires (e. led lights, endstops, webcams) into the frame if printer has legacy enclosure.

- BOM: n.2 F695ZZ 5mmx13mmx4mm ball bearing - RatRig stock bolts, spacers and nuts;
- Material: PETG (ABS/ASA suggested);
- Supports: No;

- Printing instructions: model has sacrificial layers - slice it upside-down.

If you like my design and you are happy with it, please consider donating a coffee to justify the time and effort in researching/designing.

Enjoy it!

## This remix is based on



**V-Core3 belts hotswap corners**

by Scrambler77

## Model files



**vcore31\_rear\_right\_corner.stl**



**vcore31\_rear\_left\_corner.stl**

## License ©

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



**Attribution—Noncommercial—No Derivatives**

- ✗ | Sharing without ATTRIBUTION
- ✗ | Remix Culture allowed
- ✗ | Commercial Use

- ✖ | Free Cultural Works
- ✖ | Meets Open Definition