

Ender Rat QoL Upgrades



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Summary

Some changes to the printable parts made for the Ender-Rat design created by Big Dog Custom Creations.

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Tags: [rat](#) [creality](#) [ender](#) [ender5plus](#) [enderrat](#)

The modifications for this project are ongoing as needed. I really enjoy the Ender 5 Plus “Rat Rig” conversion created by Big Dog Custom Creations, however there are a few obstacles I encountered when building the project for myself. Most of them are QoL edits, but some are major redesigns that I found to work better. I am also including some files of my own creation that are not available to my knowledge. Any remixed parts not originally designed by Big Dog Custom Creations or the Rat Rig 3.1 core GitHub will be labeled individually.

Every part in this project is intended to be used with the basic parts included with a stock Ender 5-Plus. Parts have been modified to work with the original 2020/2040 aluminum extrusion.

Links to projects that some models were sourced from:

- <https://www.printables.com/model/1071611-ender-5-plus-conversion-to-a-ratrig-the-ender-rat/files>
- <https://docs.ratrig.com/product-details/v-core3-1>

Edits as follows.

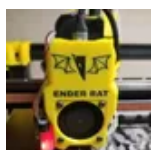
- Z Motor Base Right_v2.0 - Increased the screw head hole size to 7.3 for easier install.
- Z Motor Base Left_v2.0 - Increased the screw head hole size to 7.3 for easier install.
- XY_Idler_Plate_Front_Right_2040_v1.0 - Custom creation for 2040 rails.
- XY_Idler_Plate_Front_Left_2040_v1.0 - Custom creation for 2040 rails.
- XY_Idler_Plate_Bilateral_2020_v1.0 - Created to fit 2020 extrusion on either side.
- XY_Idler_Assy_Top_Assembly_Left_2020_v2.1 - Created to fit 20mm cross extrusion and 40mm depth.
- XY_Idler_Assy_Top_Assembly_Right_2020_v2.1 - Created to fit 20mm cross extrusion and 40mm depth.

For the most part, all assembly is in the same sequence as posted for the Rat Rig. Check pictures for extra details. I tried to be very focused when taking them to help out. Any other questions, message me or make a post.

More to come as I complete it!

This remix is based on

RatRig **RatRig**



Ender 5 Plus Conversion to a RatRig - The "Ender Rat"

by Big Dog Custom Creations

Model files



Custom Creations - Original

5 files



xy_idler_plate_front_left_v10.stl

☐ Bottom Plate for the Left XY Idler pulley assembly on 2040 Extrusion



xy_idler_plate_front_right_2020_v10.stl

☐ Bottom Plate for the Right XY Idler pulley assembly on 2040 Extrusion



xy_idler_plate_bilateral_2020_v10.stl

☐ Bottom Plate for the right and left XY Idler pulley assembly on 2020 Extrusion



xy_idler_assy_top_assembly_right_2020_v21.stl

☐ XY Idler right assembly to fit 2020 extrusion



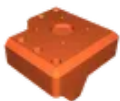
xy_idler_assy_top_assembly_left_2020_v21.stl

☐ XY Idler left assembly to fit 2020 extrusion



Ender Rat Remixed Files

2 files



z_motor_base_right_v20.stl

☐ Lower front left mount for Z-Axis motor and lead screw



z_motor_base_left_v20.stl

☐ Lower front right mount for Z-Axis motor and lead screw

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