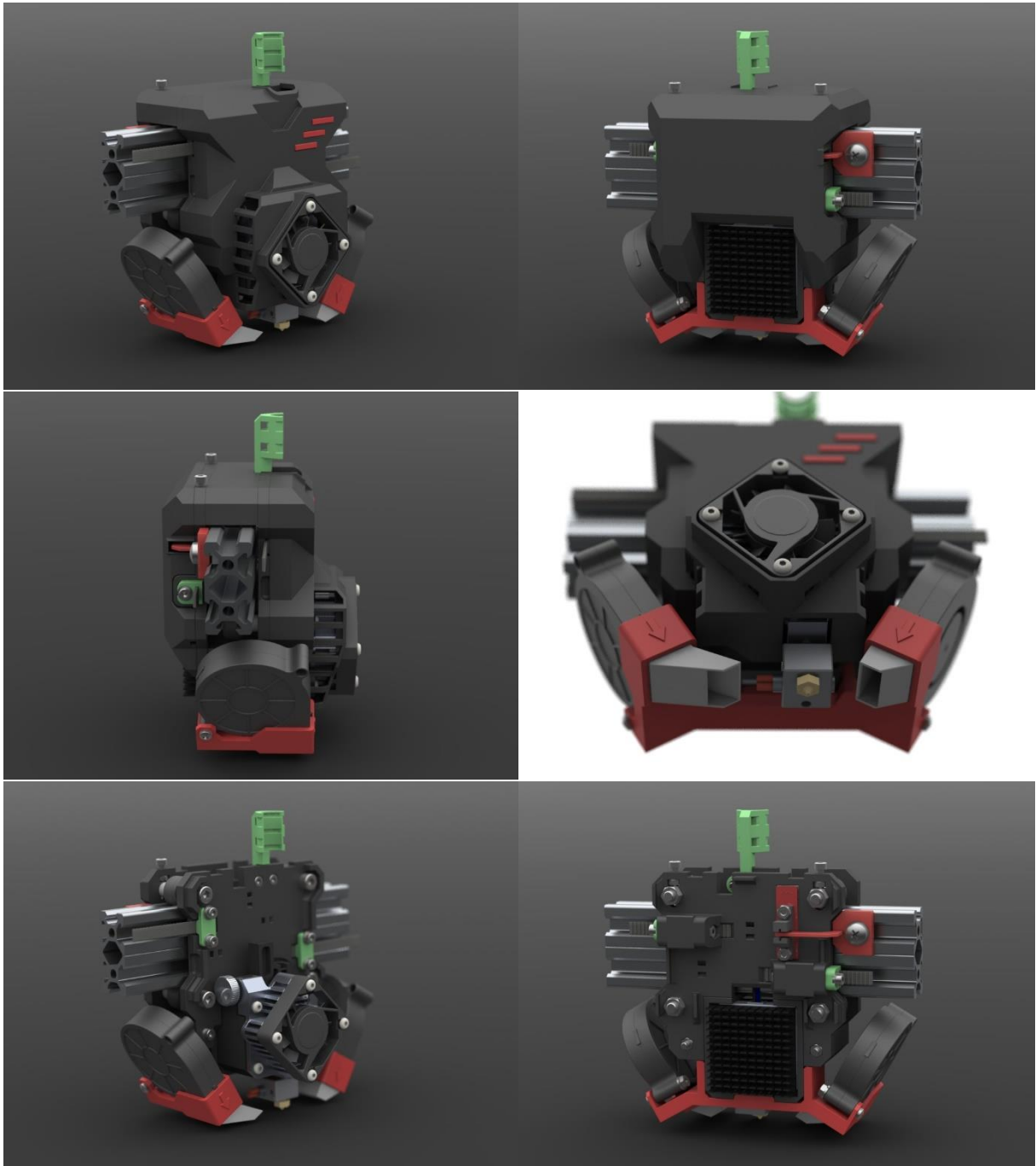
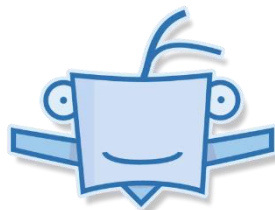


Re-X Carriage assembly guide



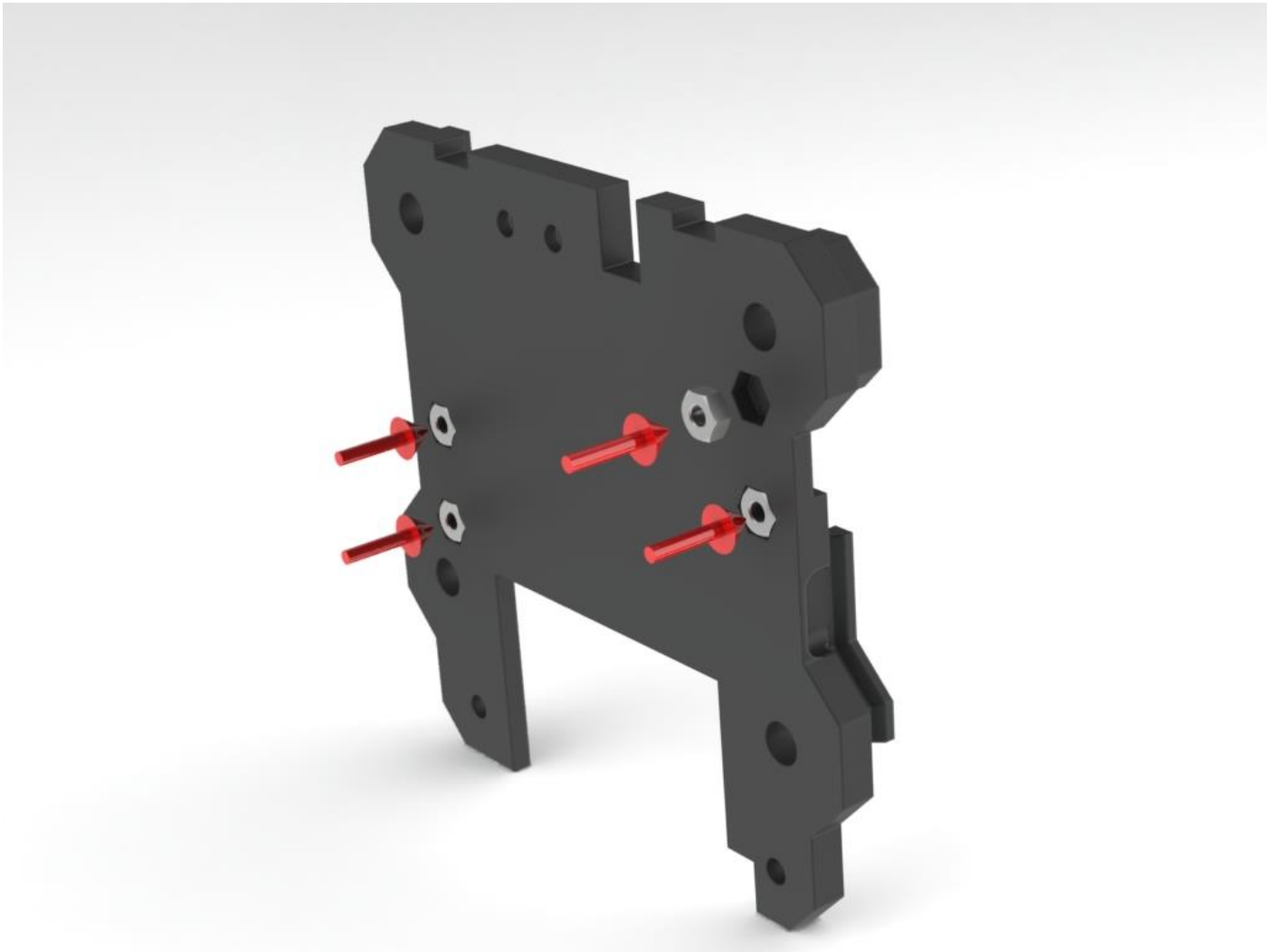
All printed parts, you can find at
<https://www.thingiverse.com/thing:2590868>

We recommend to read this guide, before assembly.

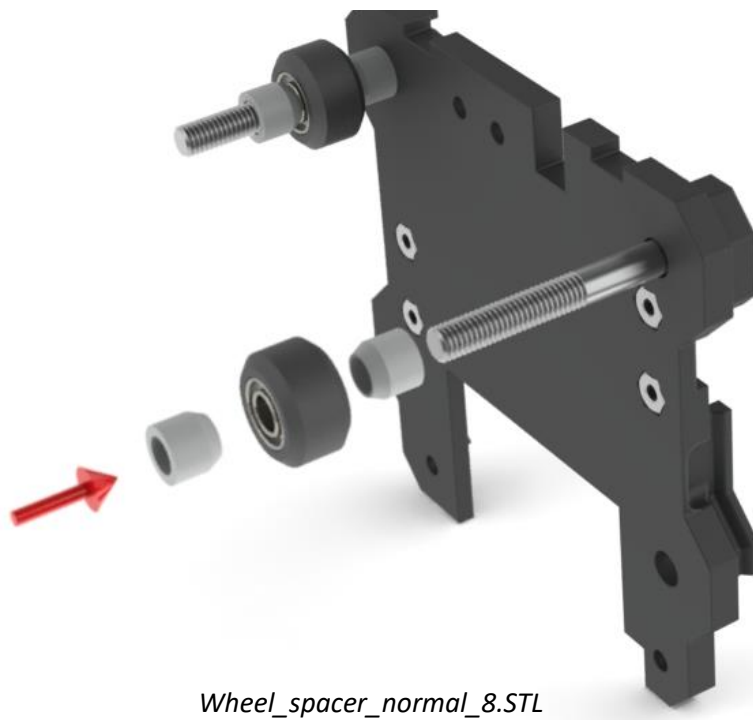
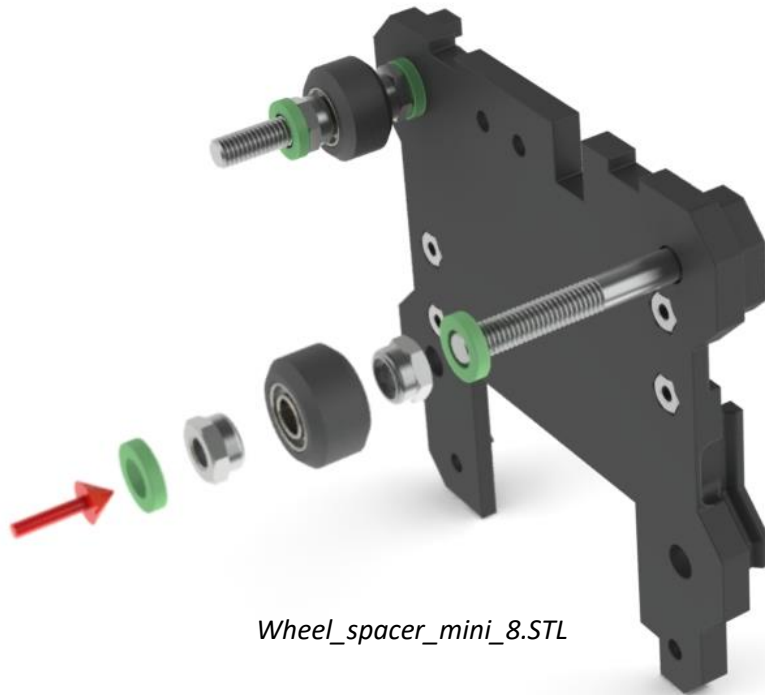


Let's beginning

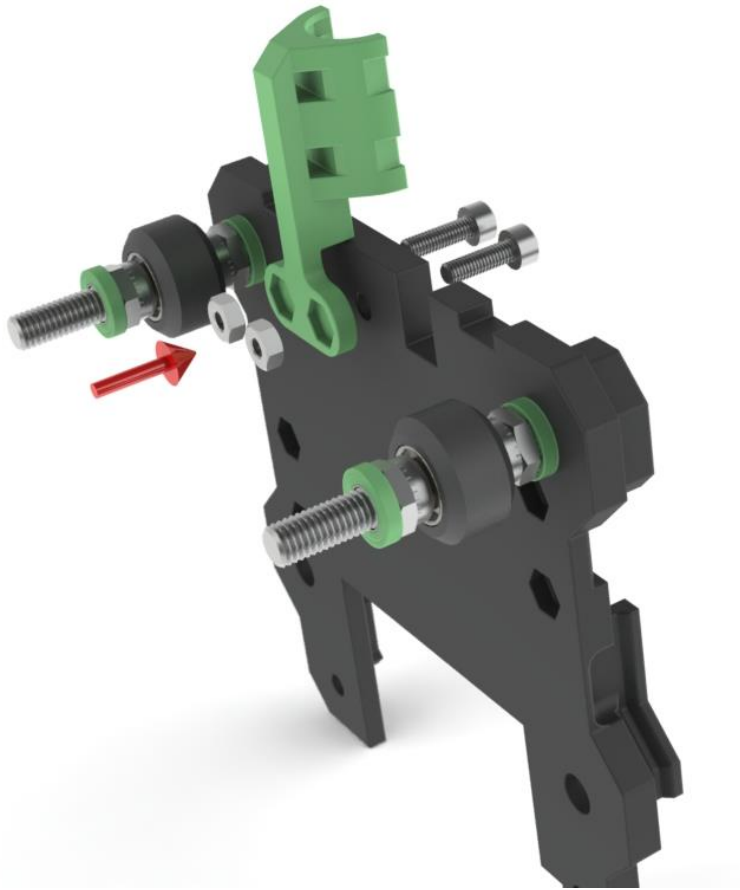
In first, we put the four M3 nuts in the part **Base_front_1.STL**.



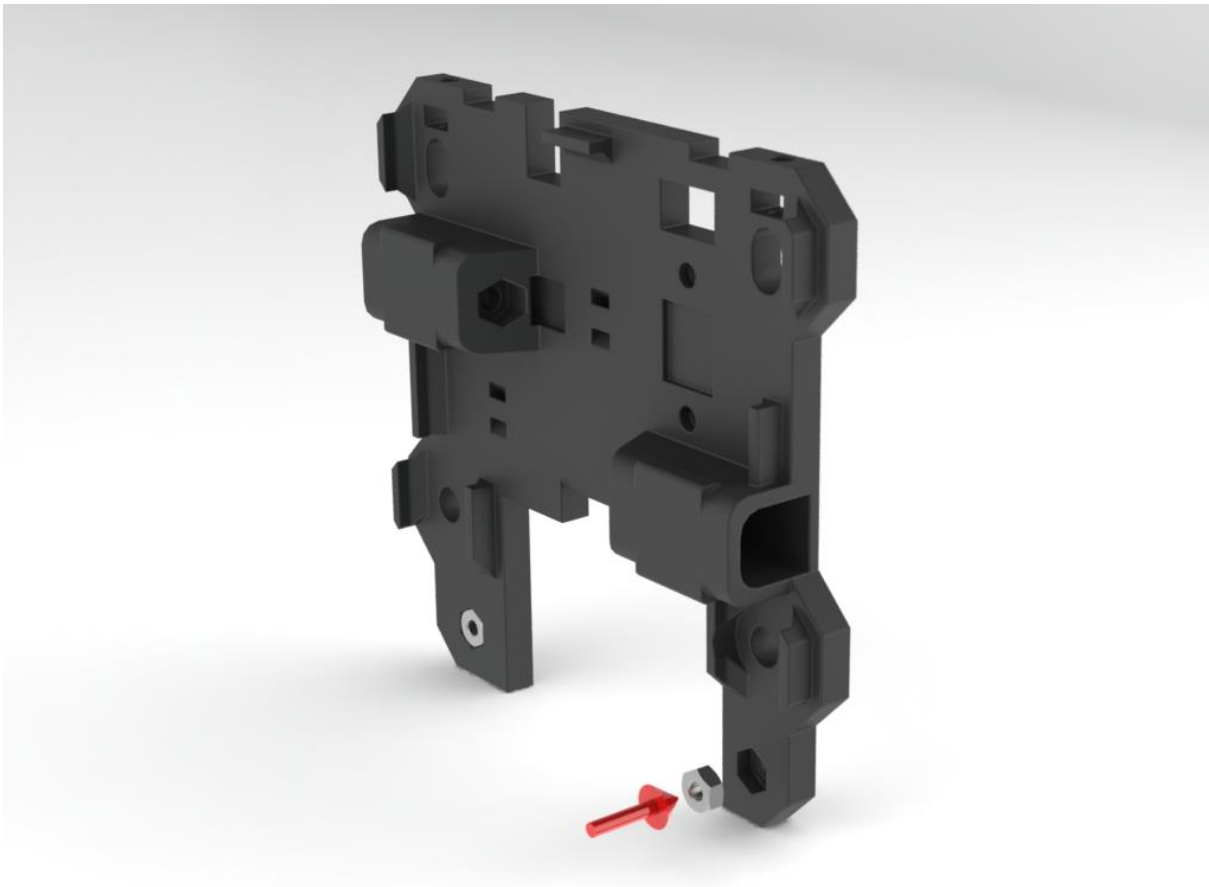
Next, we put two M5x40 screws in the upper holes, and assemble the wheels like on the picture below. There are two variants of wheel spacers - **Wheel_spacer_normal_8.STL** or **Wheel_spacer_mini_8.STL** with self-locking M5 nut. The advantage of second choice, is better control.



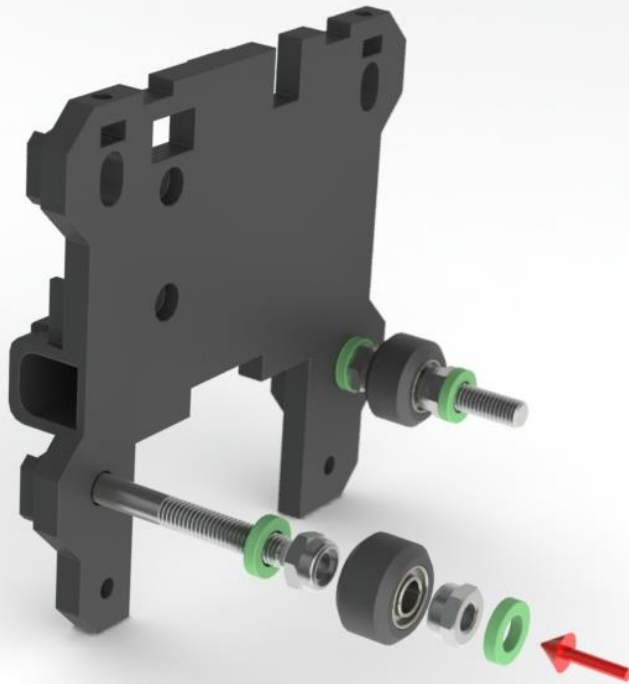
Next, we mount the guide for wires (**Wires_guide_1.STL**), using two M3 nuts and two M3x10 screws.



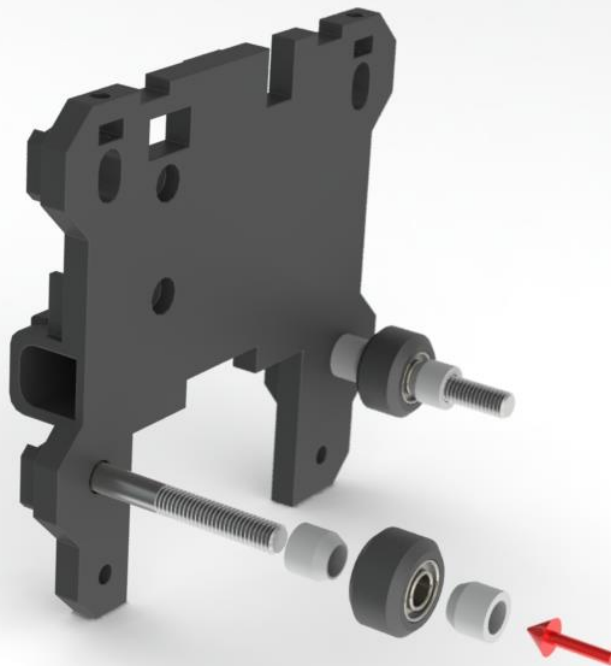
So, there we complete. Let's going to assembly second side **Base_front_1.STL**. Also, we can put the two M3 nuts, how we made it before.



As it was before with wheels, we use the two M5x40 screws and one of two variants of wheel spacers - **Wheel_spacer_normal_8.STL** or **Wheel_spacer_mini_8.STL** with self-locking M5 nut.

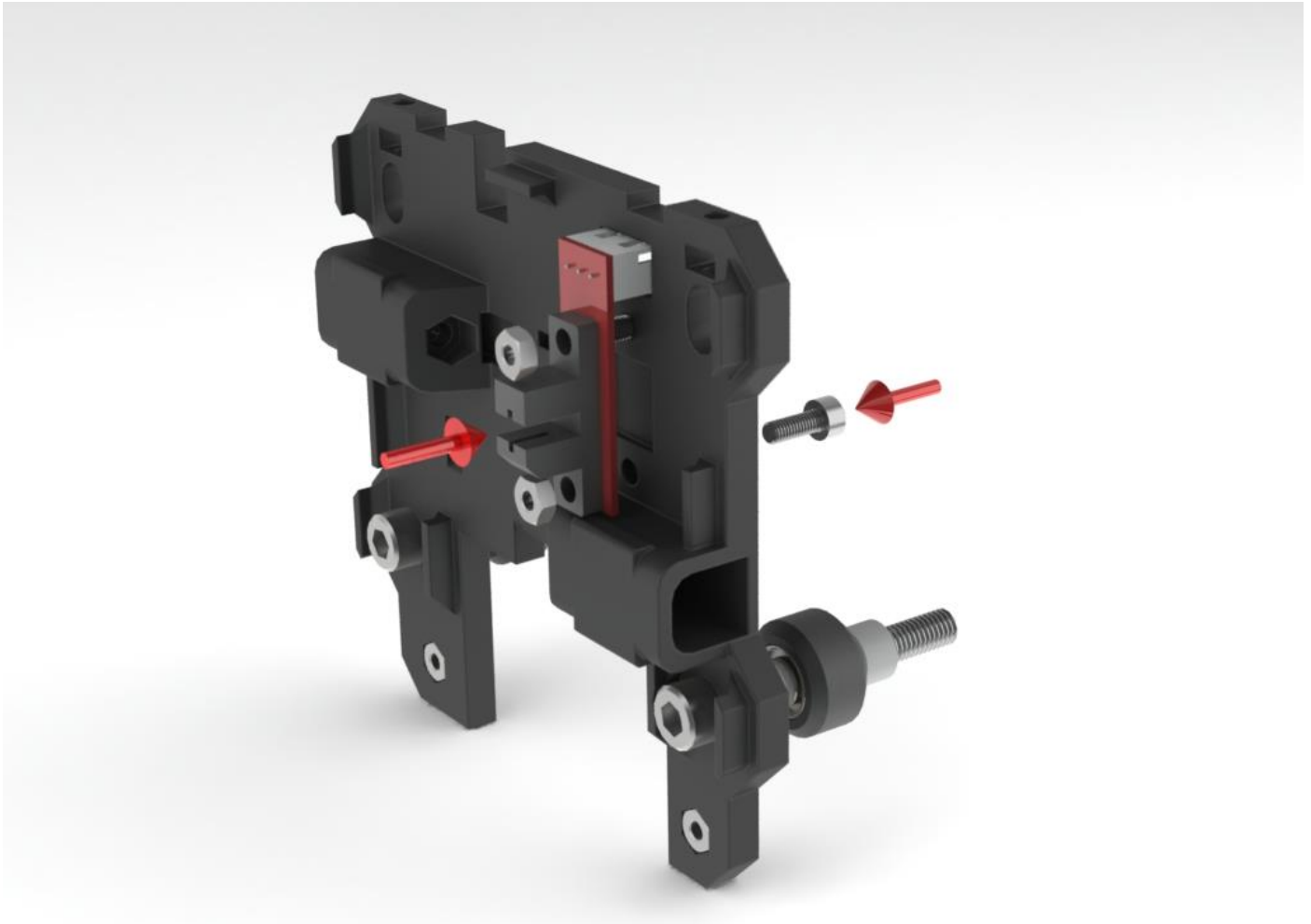


Wheel_spacer_mini_8.STL

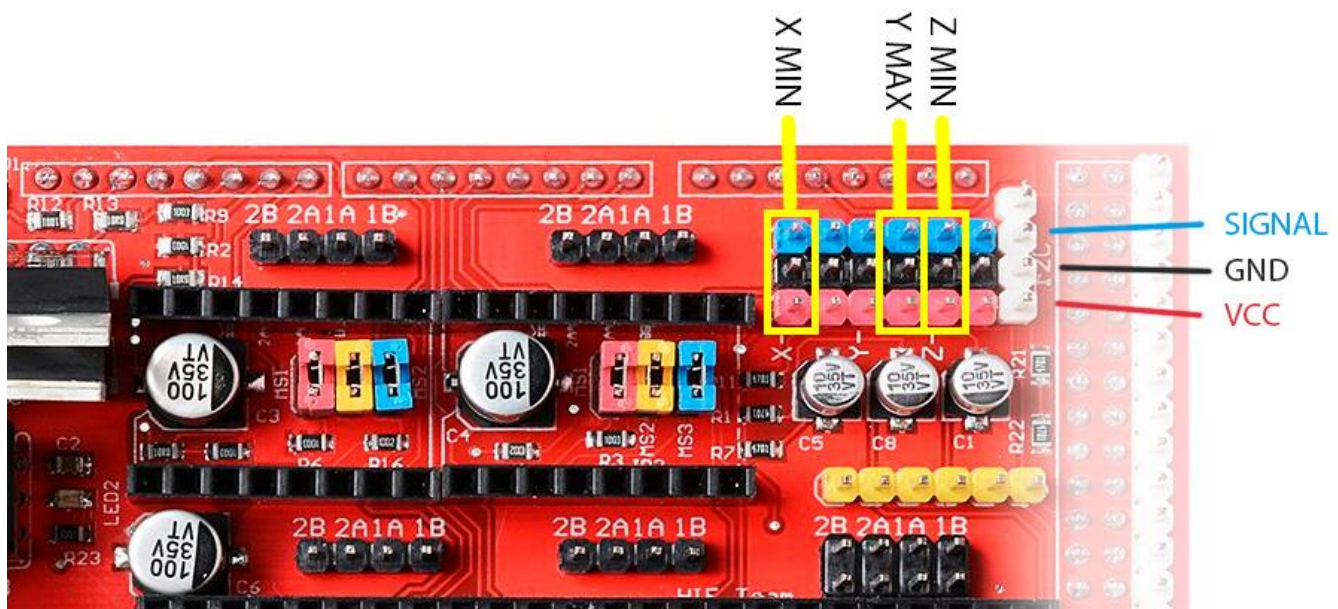


Wheel_spacer_normal_8.STL

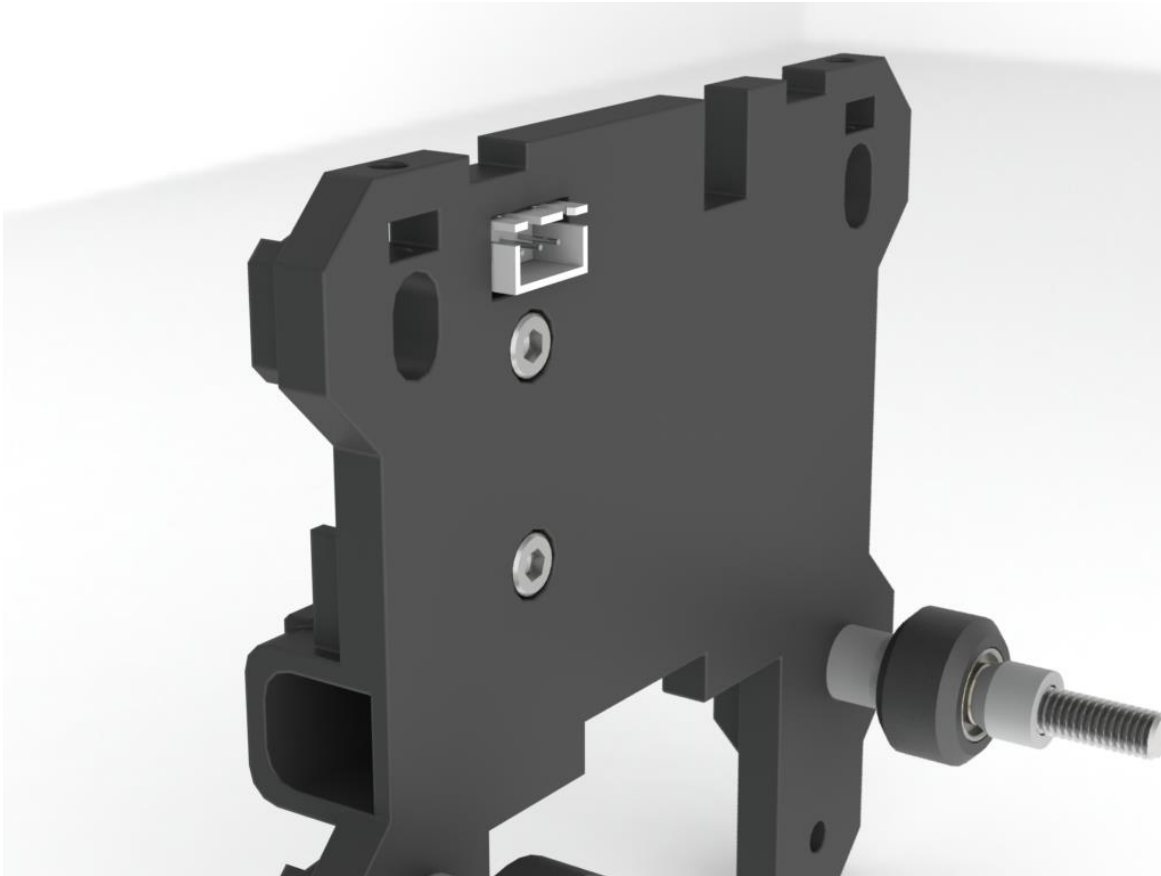
Now, we can mount the optical endstop by two M3 nuts and two M3x10 screws



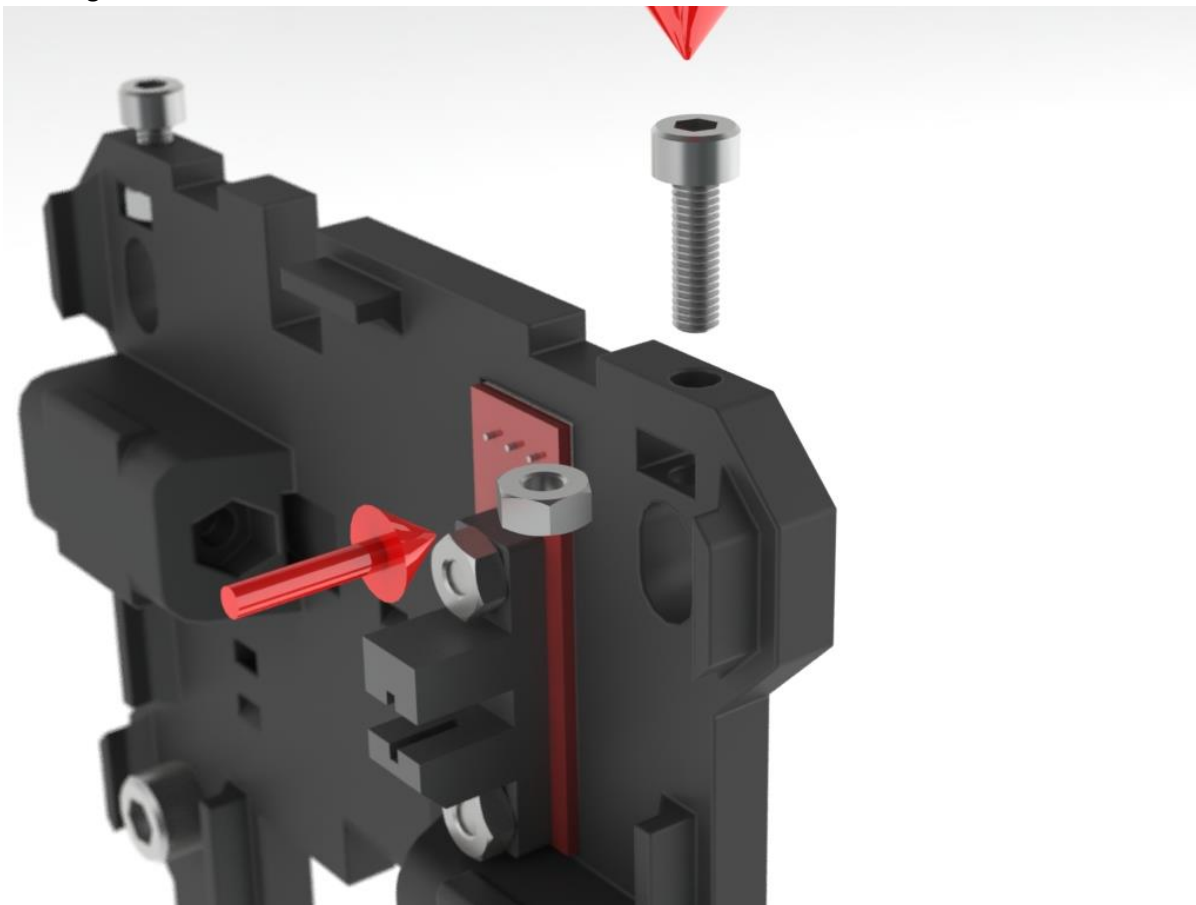
Be careful, don't forget to make required changes in firmware configuration. And check twice your wires to endstop like on picture bellow.



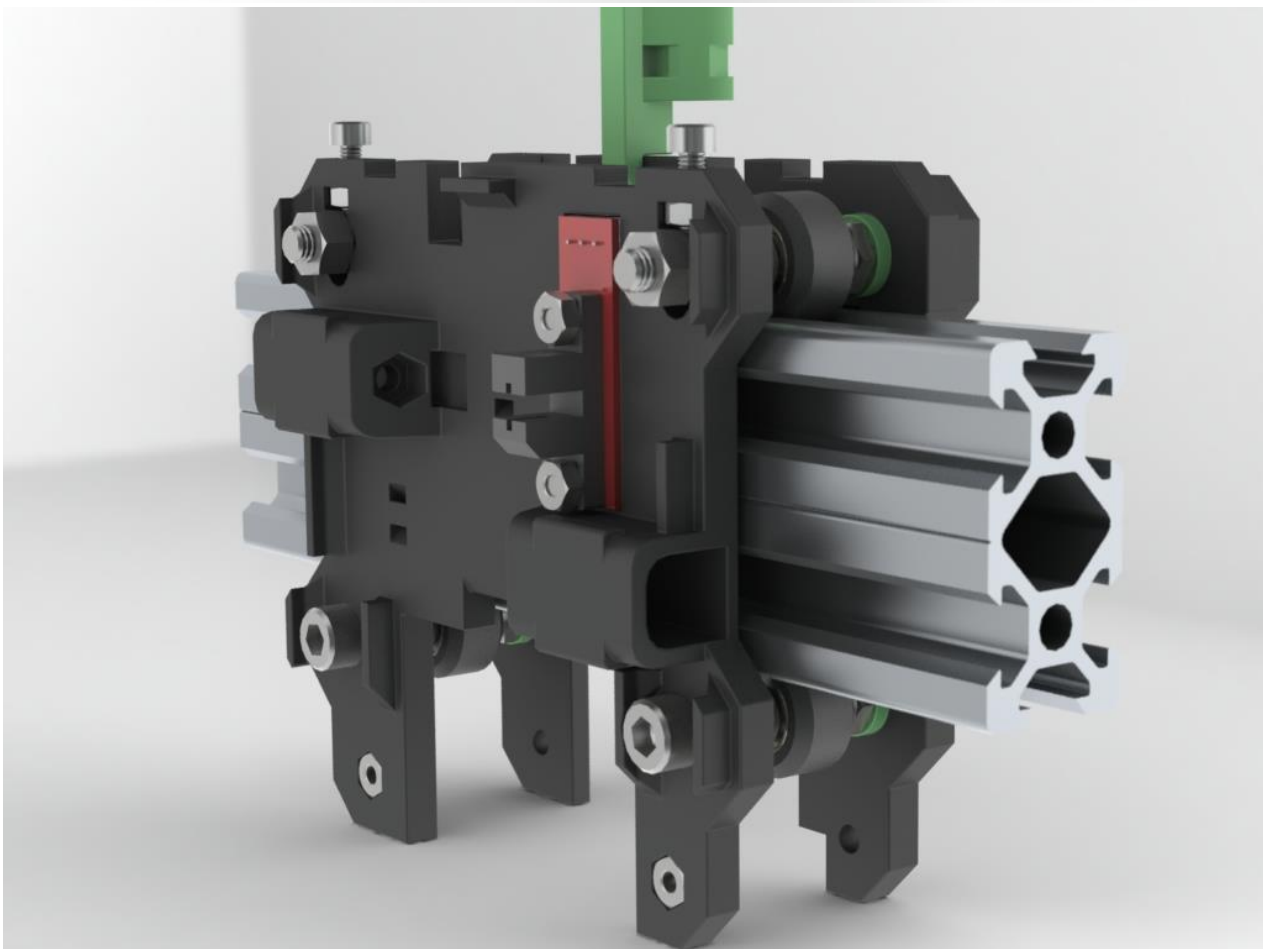
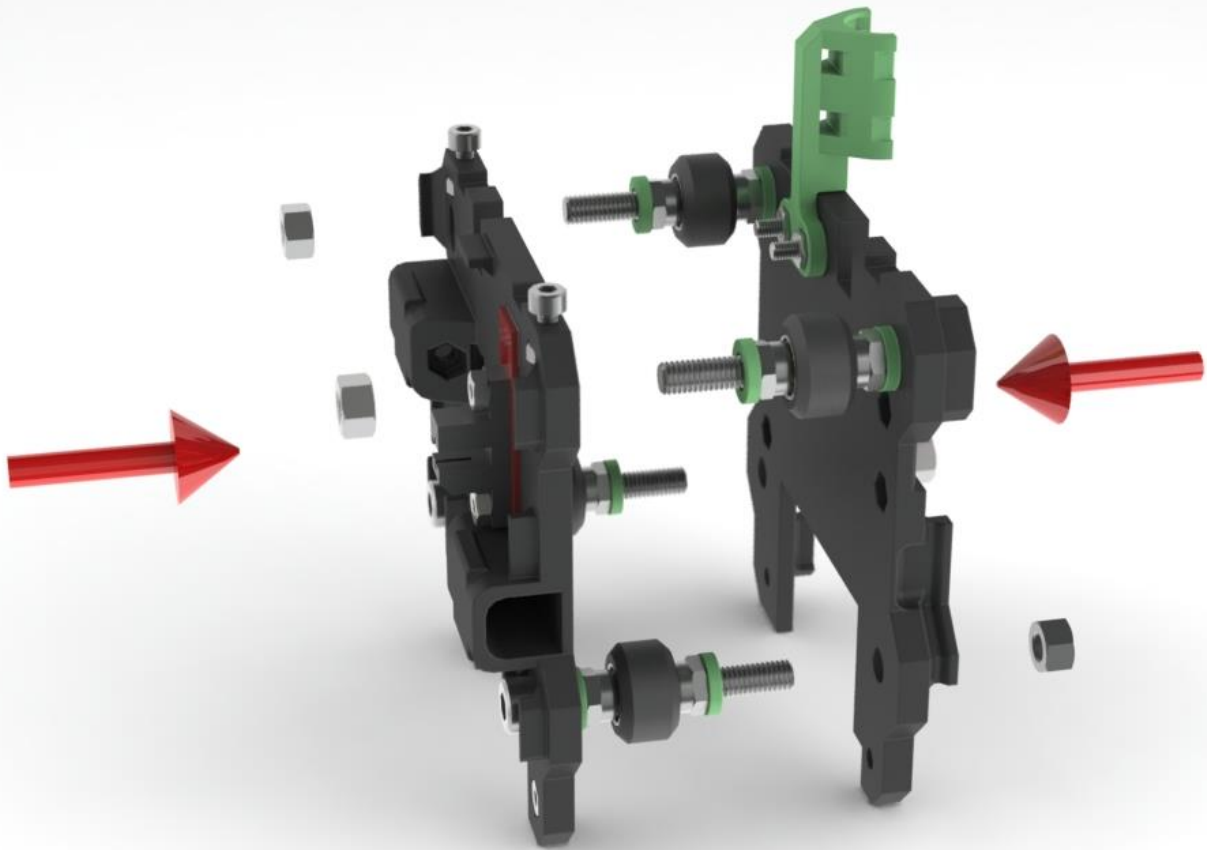
On the back side, the screw caps must be recessed.



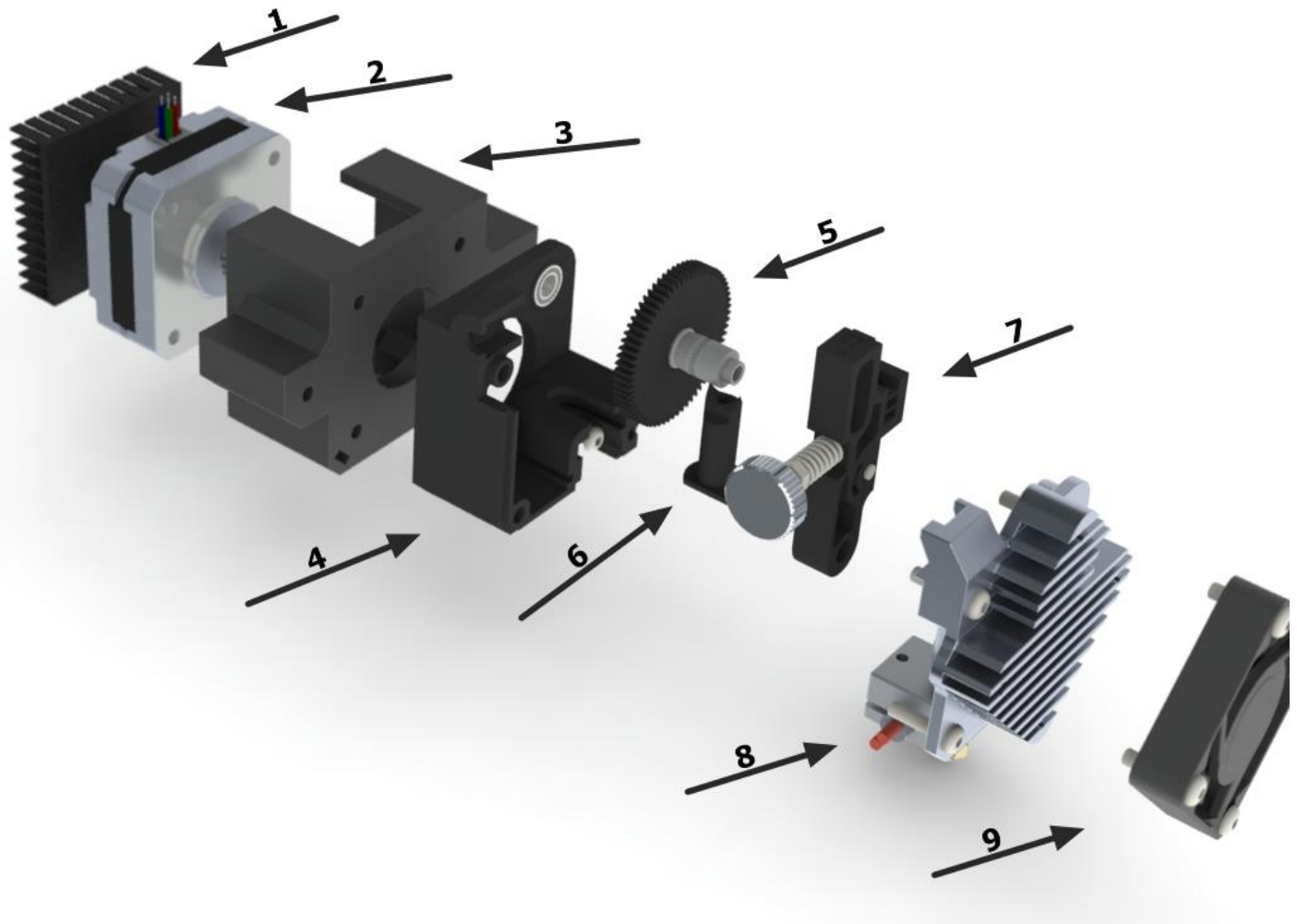
Wheel tensioners we make from two M3 nut and two M3x10 screws. Screw the screws just a bit, they must not be crossing hole for wheel screw now.



This step is a most hard. If you are using normal spacers for wheels, without self-locking nuts, it can be a bit easier. After assembly, make sure the carriage hasn't backlashes between wheels and frame. Use tensioners to adjust it.



Congratulations! Main part of carriage is complete! Now we will to assemble extruder part.

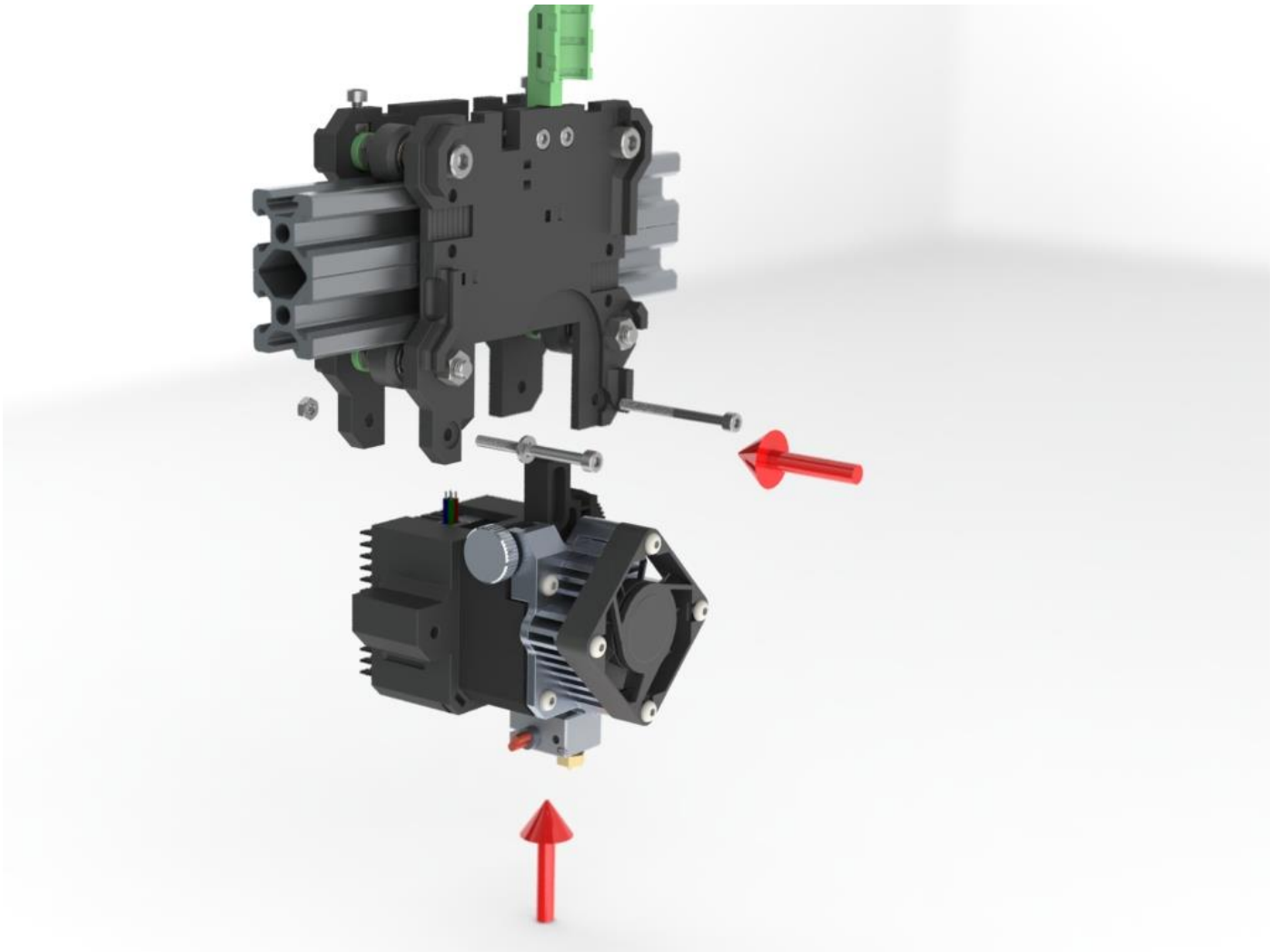


1. Motor radiator
2. Motor ([small version](#) is pretty good and weighs is lightly, but you can use [normal](#) also)
3. Printed part **Motor_holder_1.STL** – is mount of extruder.
- (4-9 are Titan Aero parts, how to assembly you can find in [official guide](#))

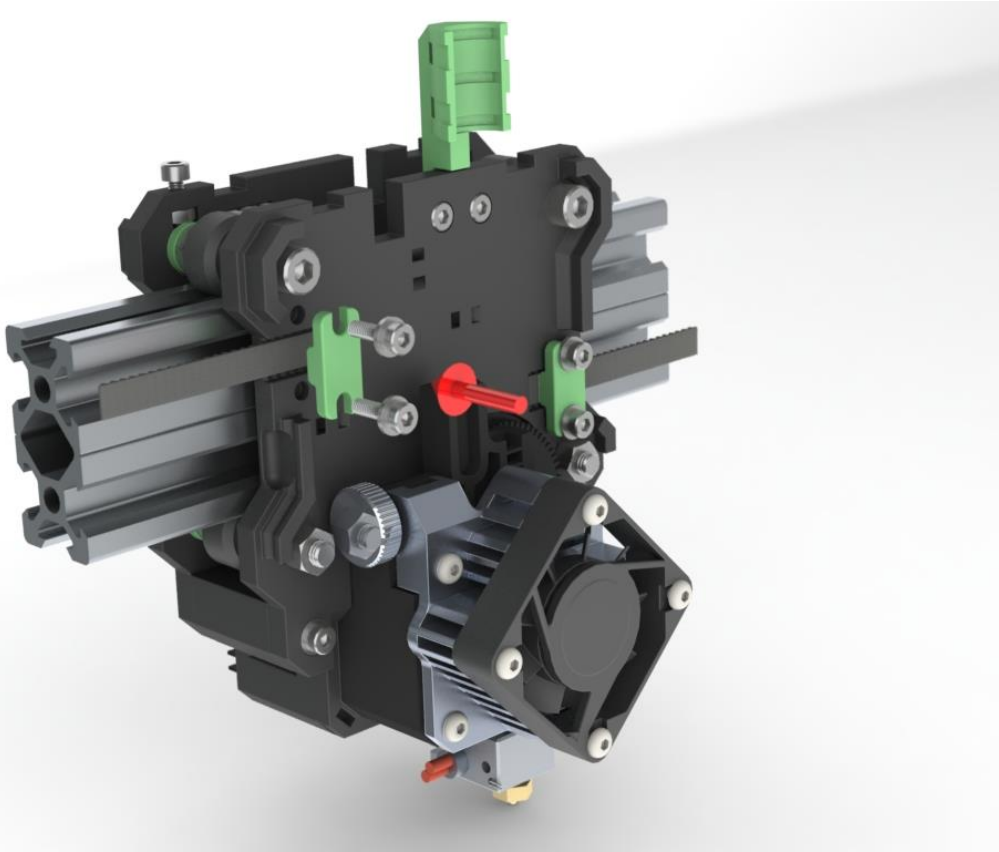
It's important to set right distance to the gear on the motor shaft, plastic filament must be exactly at center of the of gear shaft.

Now we have two independent parts of the carriage. In the future, when we will need to disassemble the extruder, it will not require to disassemble the entire carriage. Just unscrew the two screws and pull out the extruder block to down, the carriage will remain on the frame.

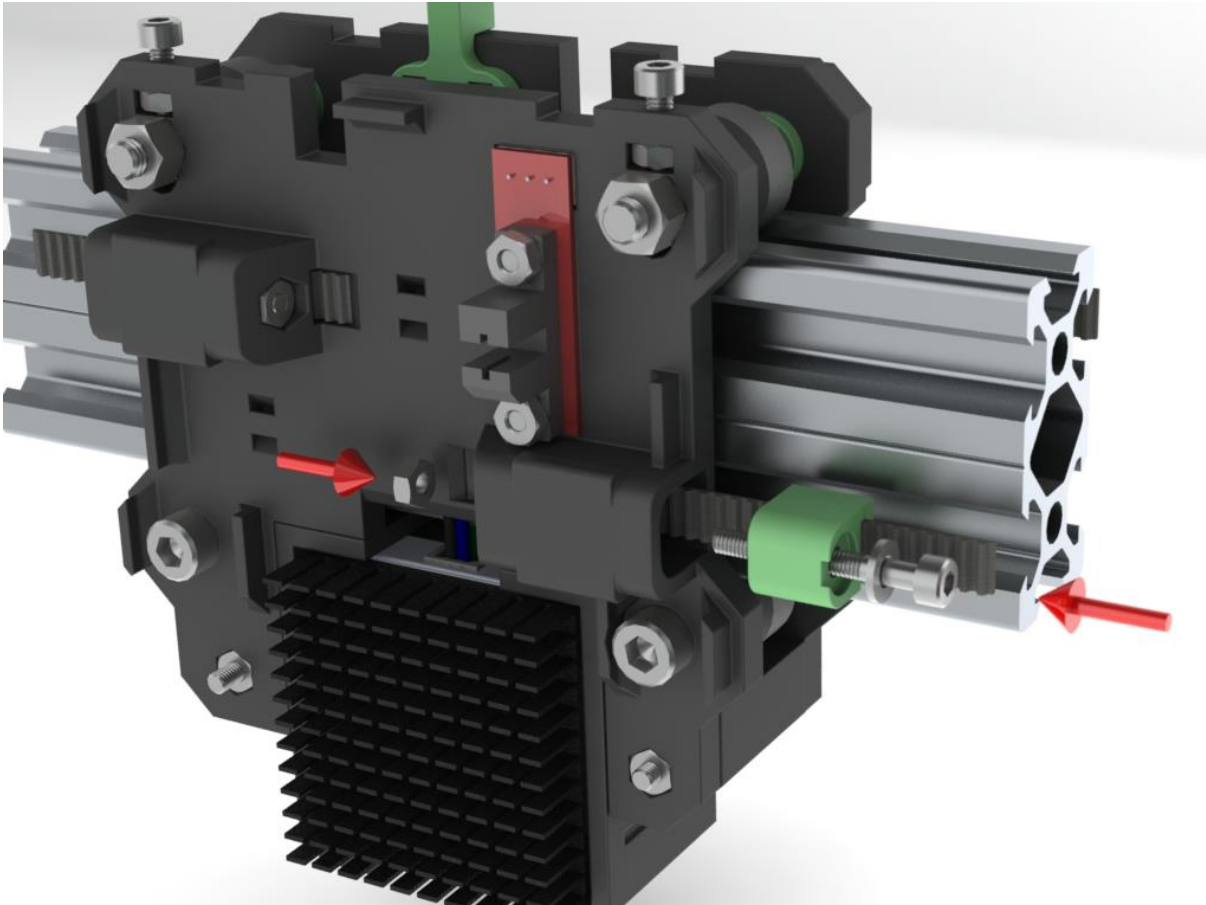
Assembly is very easy, all what you need to do is to insert the extruder block in carriage and screw it by the two M3x35 screws and two M3 nuts.



Now it remains to clamp the belts. For the front side: **Belt_holder_front_2.STL**, four M3 nuts and four M3x10 screws.

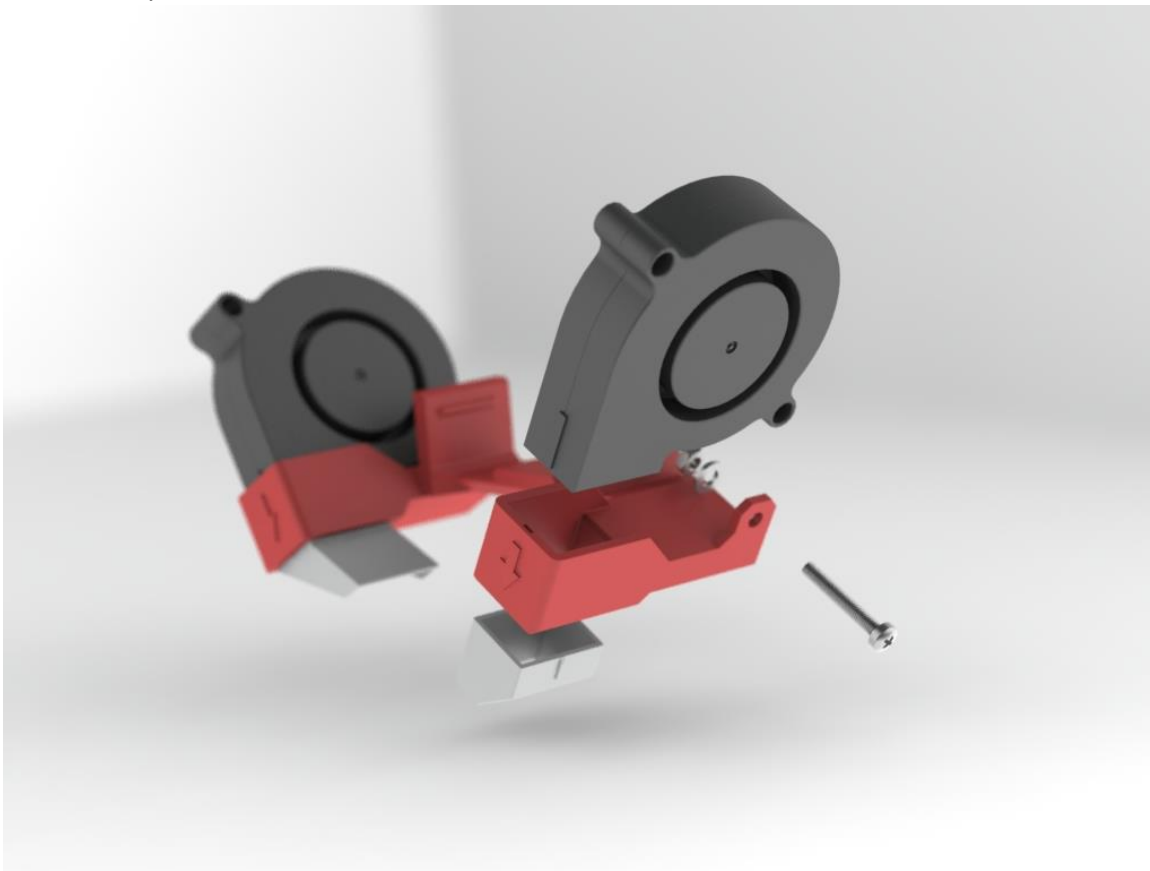


For the back side: holders with tensioners **Belt_holder_back_2.STL**, two M3 nuts, two M3 washers and two M3x25 screws (with longer screws, it will be much easier to tension in first time)



Filament fans holder is removable too. We need the printed parts **Fan_duct_filament_holder_1.STL** and two nozzles (you can change them to any other variants, for your own requires) **Fan_duct_filament_nozzle_left_1.STL** and **Fan_duct_filament_nozzle_right_1.STL**.

For assembly we need two M3 nuts, two M3 washers and two M3x20 screws.



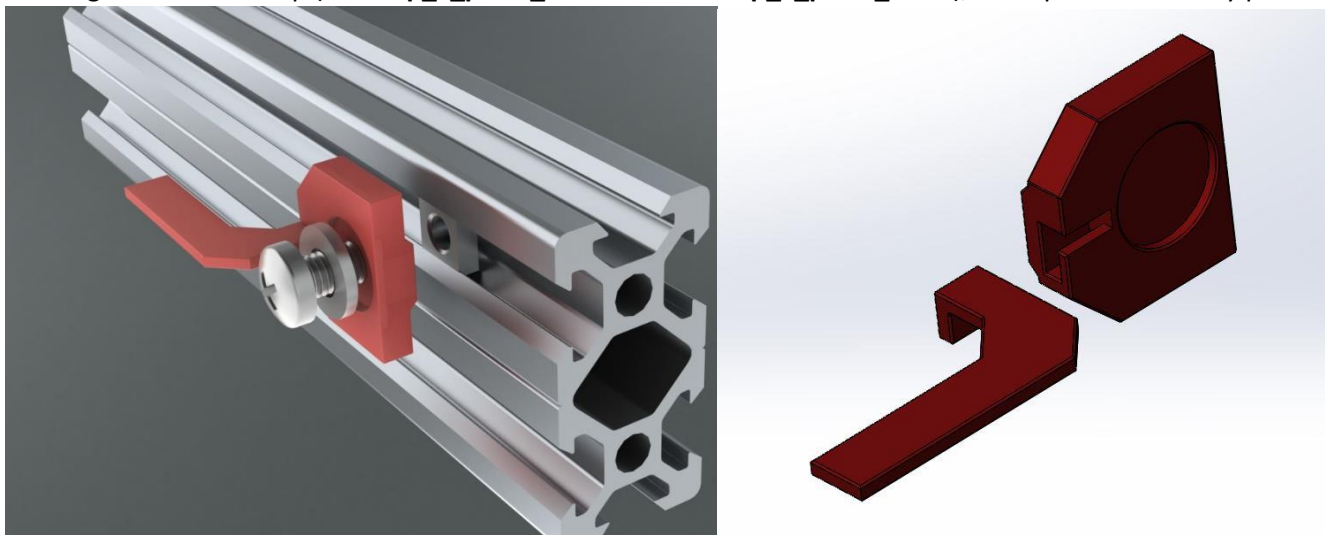
Fans mounted to extruder block like on picture below.



At this moment, the carriage is ready to use. But, if you want something more for better looks, you can use the decorative covers. It's doesn't matter for result, the covers are not required for printing.



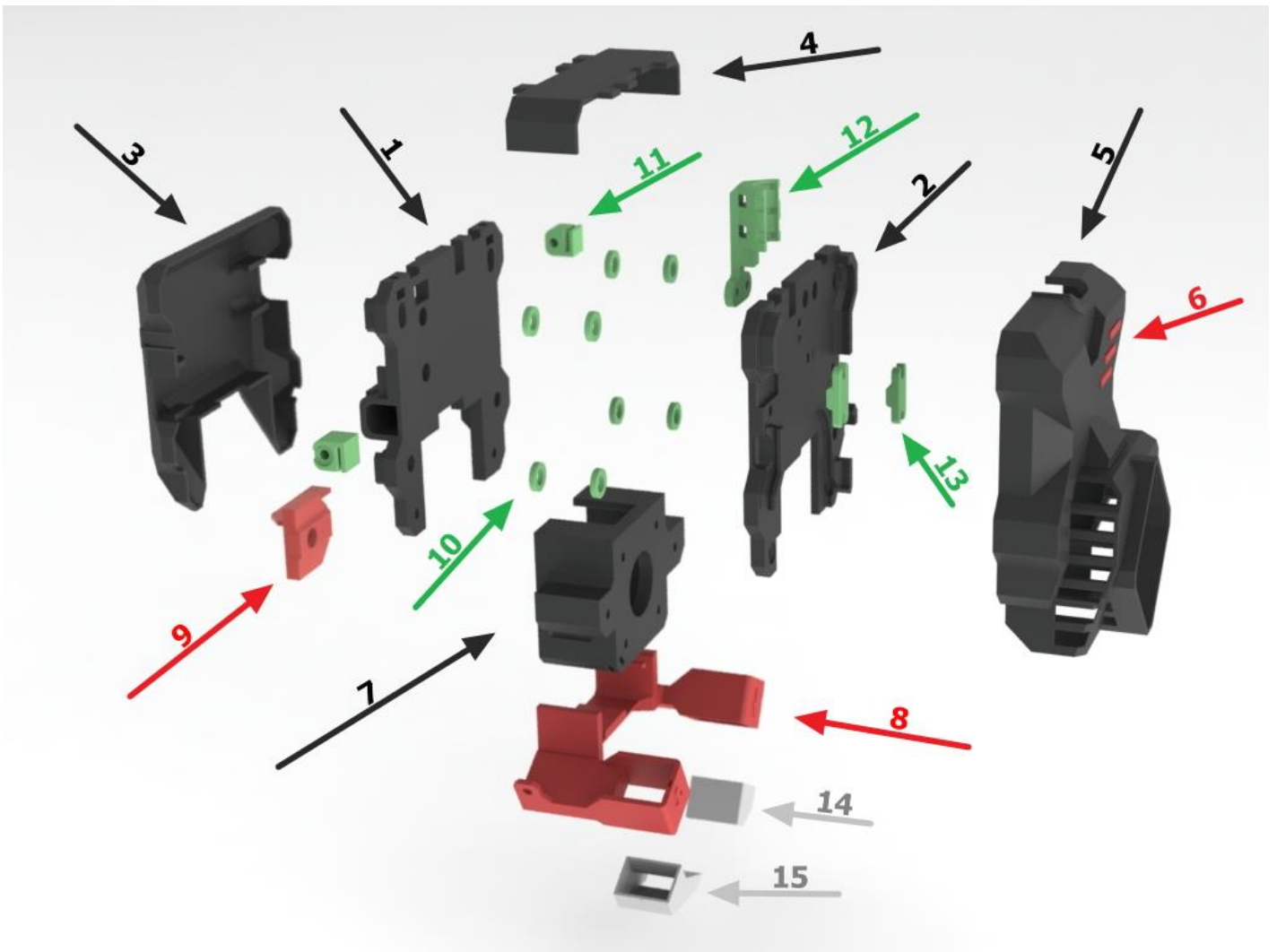
We forgot about endstop (**Endstop_x_part1_1.STL** and **Endstop_x_part2_1.STL**), it's separated for easy printing (;



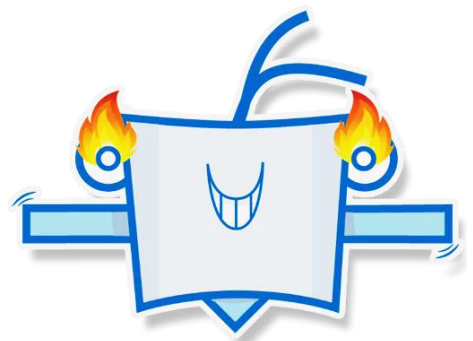
No, we are done. We congratulate you! And we know it wasn't easy, you made the great job.
We hope you will like this, we tried our best. (;

Sorry for my English, if you want to help translate this correctly, please write me at xan@dipteam.com.
Thank you!

All printed parts



1. Base_back_1.STL
2. Base_front_1.STL
3. Cover_back_1.STL
4. Cover_top_1.STL
5. Cover_front_1.STL
6. Cover_front_decor_3.STL
7. Motor_holder_1.STL
8. Fan_duct_filament_holder_1.STL
9. Endstop_x_part1_1.STL и Endstop_x_part2_1.STL
10. Wheel_spacer_mini_8.STL или Wheel_spacer_normal_8.STL
11. Belt_holder_back_2.STL
12. Wires_guide_1.STL
13. Belt_holder_front_2.STL
14. Fan_duct_filament_nozzle_right_1.STL
15. Fan_duct_filament_nozzle_left_1.STL



List of details

1. M5x40 screws (4 pcs), for wheels
2. M5x10 screws (1 pcs), for endstop
3. M5 nuts (4 pcs), for wheels
4. M5 square nut (1 pcs), for endstop
5. M5 washer (1 pcs), for endstop
6. Only if you are using Wheel_spacer_mini_8.STL, you'll need self-locked M5 nuts (8 pcs), for wheels
7. M3x10 screws (10 pcs)
8. M3x20 screws (2 pcs), for radial fans
9. M3x25 screws (2 pcs), for belt tensioners. You can use length 25 - 40
10. M3x35 screws (2 pcs), for extruder holder
11. M3 nuts (16 pcs)
12. M3 washers (8 pcs)
13. [Mini V-Wheels](#) (4 pcs)
14. [Radial fan](#) (2 pcs)
15. [Optical endstop](#) (1 pcs)
16. [E3D Titan Aero Full kit](#) (1 pcs)