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Z9V5 Linear Rail Upgrade Kit Installation Guide

⚠ ATTENTION PLEASE ⚠

Do not slide the slider out of the linear rail, otherwise the balls will slide out of the slider and damage the slider.



[Video Tutorial](#)

Parts

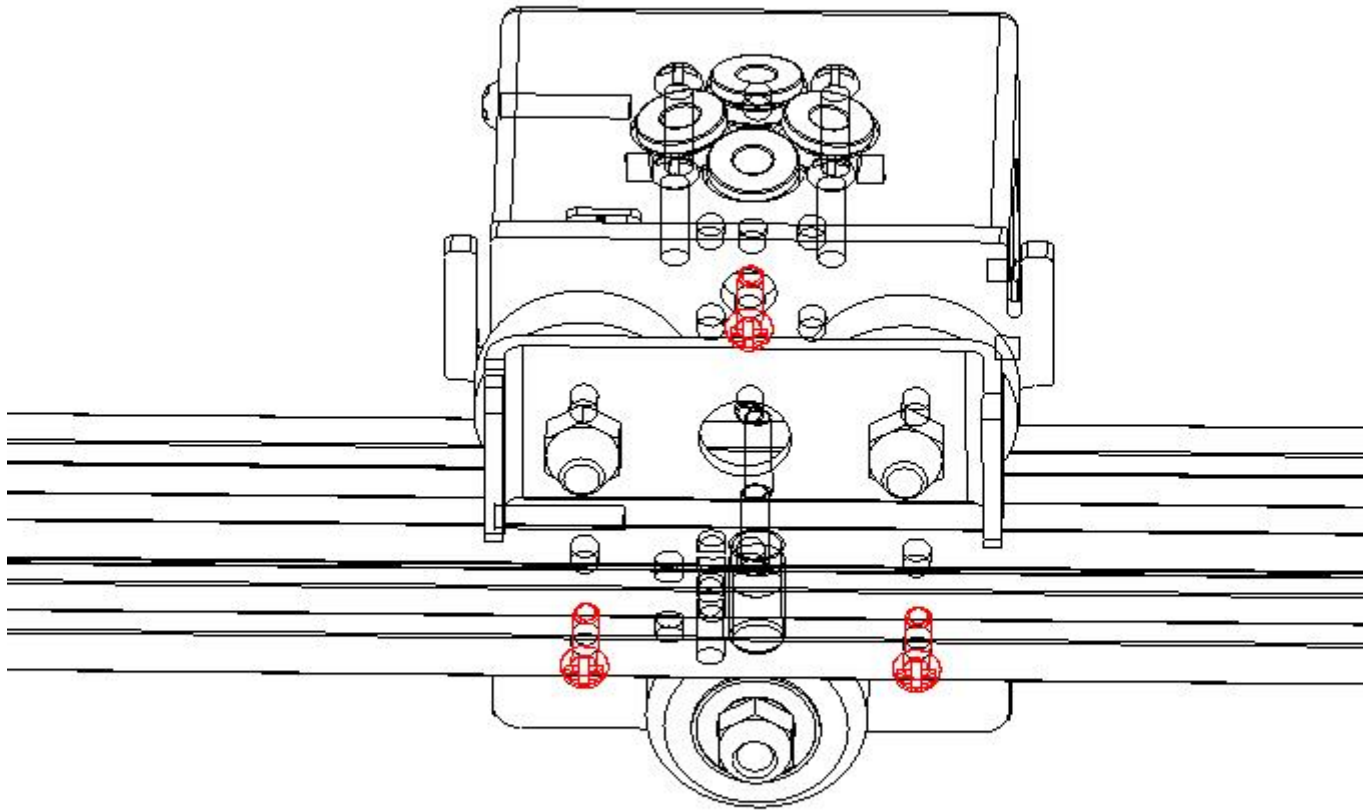


1. linear rail with slider Carrier Metal sheet	2. Y carrier(right)	3. Y carrier(left)	4. X
5. Idlers Screws	6. Belts	7. 10x10 square nut	8.

Installation

- 1. Take down the hot end (print head) from the X carrier.

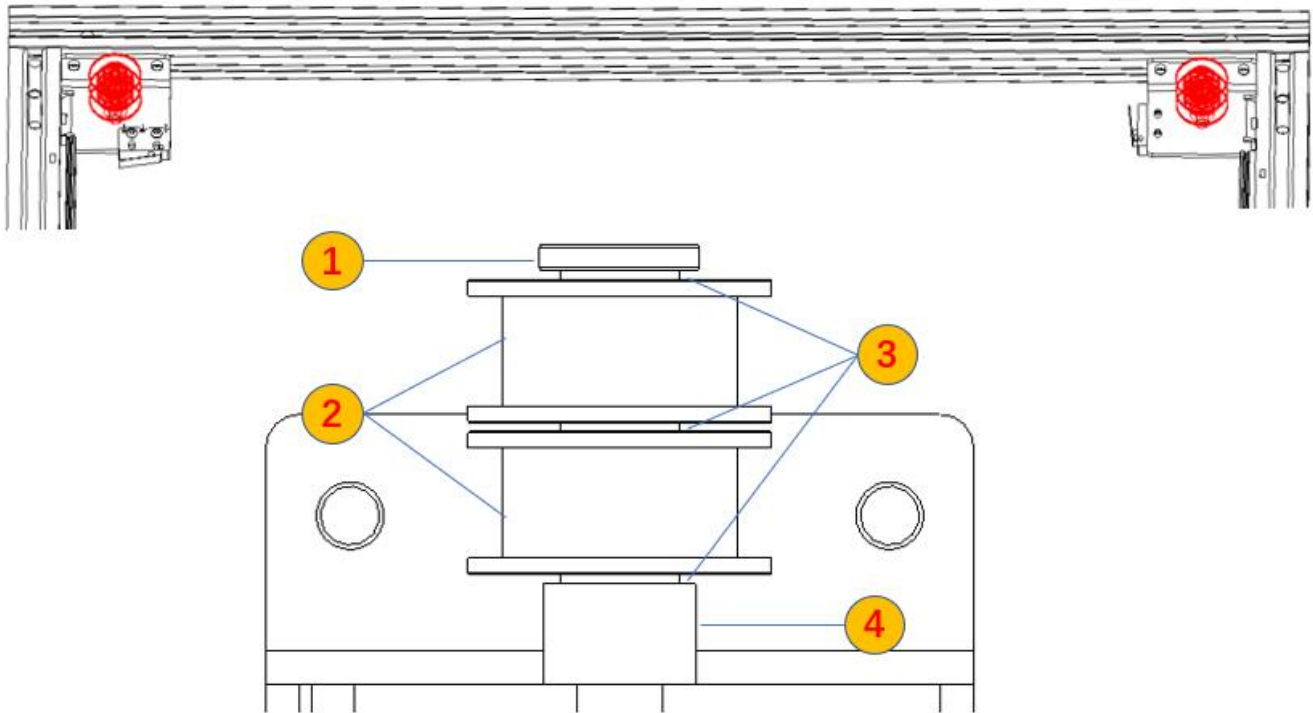
Loosen the screws which fixed the print head on the X carrier and take down the print head.



2. Remove the belts.

3. Replace idlers.

Take down the idlers from the front-top profile and replace with the new idlers.



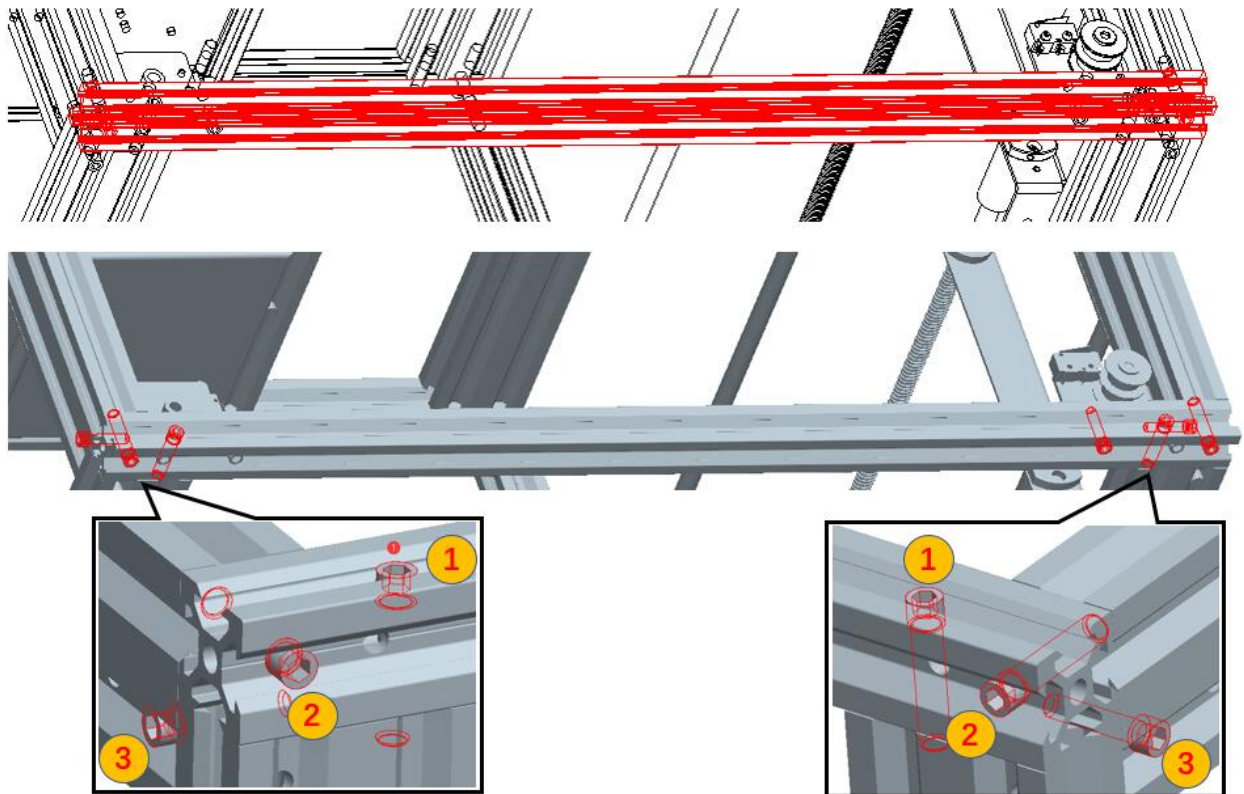
1. Screws (use the original one) 2. New idler wheels 3. New shim 4. Pole (use the original one)

! Note:

- Do not tighten the screws too tightly.
- There may be differences in the elevation columns of different versions of machines.

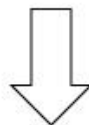
4. Take down the front-top profile.

Remove the screws shown on picture below to take down the front-top profile. **Note** the screw shown in Figure 3 only exists in the nearest Z9V5.



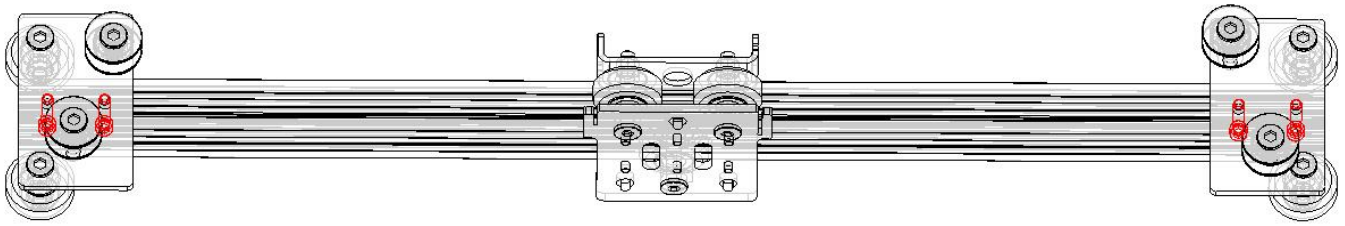
5. Take down the X axis assembly.

6. Move the wires of X and Y ENDSTOPs from the top groove to the bottom groove of Y profiles.



7. Remove the original X and Y carrier from X axis assembly

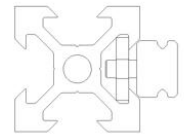
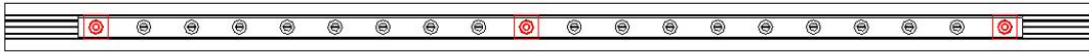
7.1 Take down the 4 screws which fixed the Y carriers to X profiles



7.2 Take down X carriers from X profile.

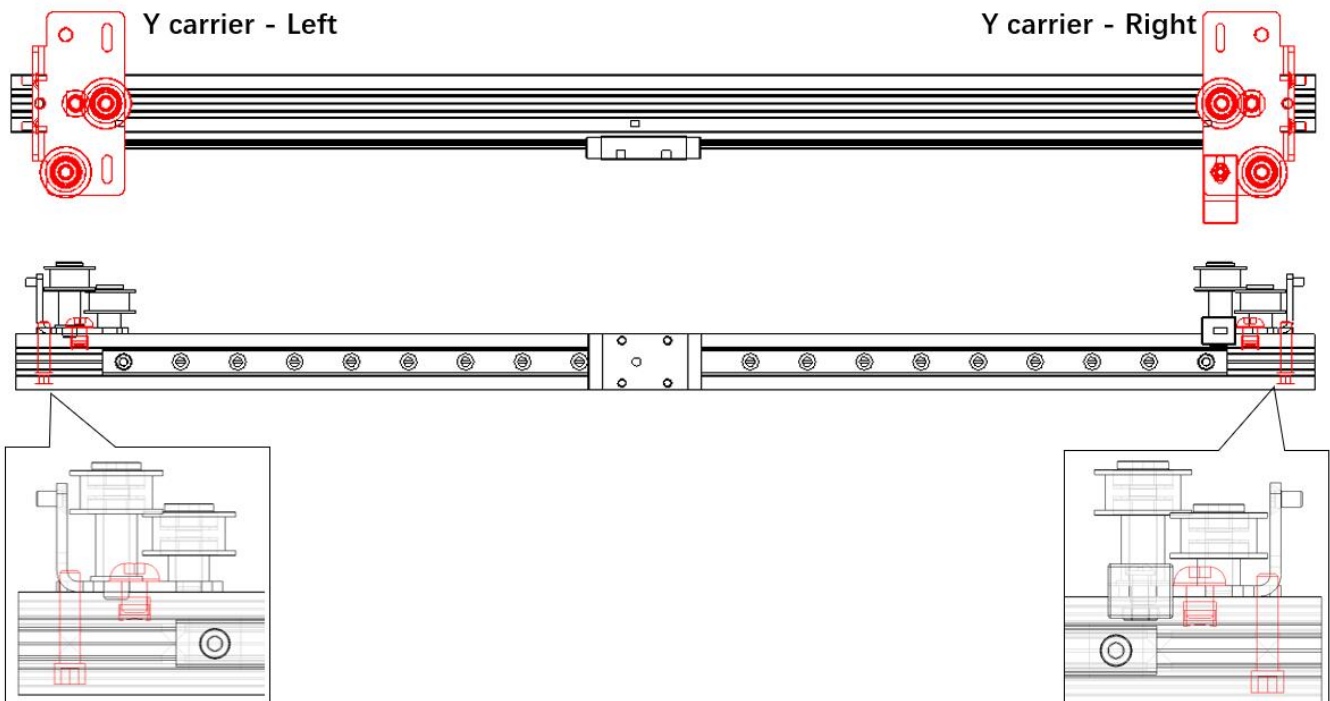
8. Install a linear rail to the X profile.

⚠️ Note: When installing the linear rail, do not let the slider slide out of the rail.



- Install 3 pcs screws and 3 pcs square nuts to the linear guide rail.
- Slide the linear guide rail from one side of the X profile, and place the square nut in the groove of the profile.
- Roughly align at the middle of the linear rail and the X profile, and then fix the screws.

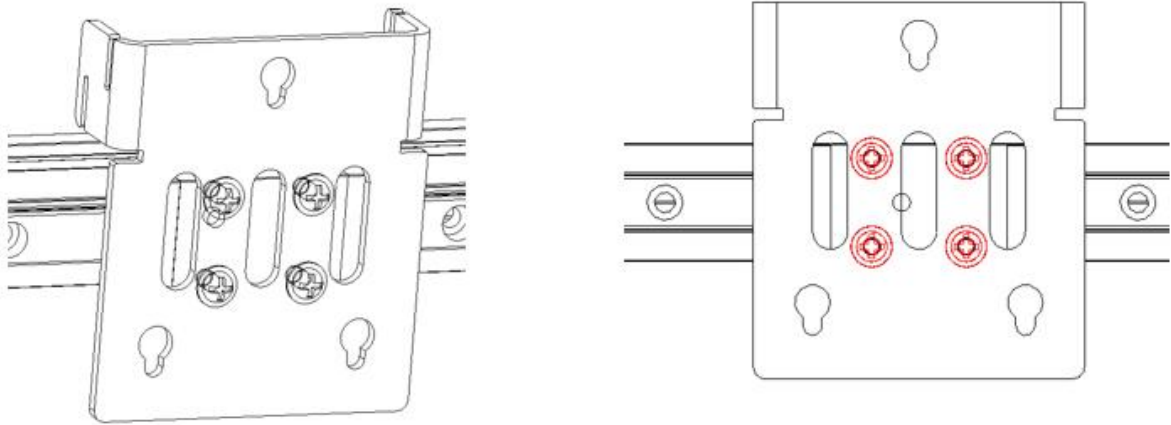
9. Install the new Y carriers (left and right) to the X profile.



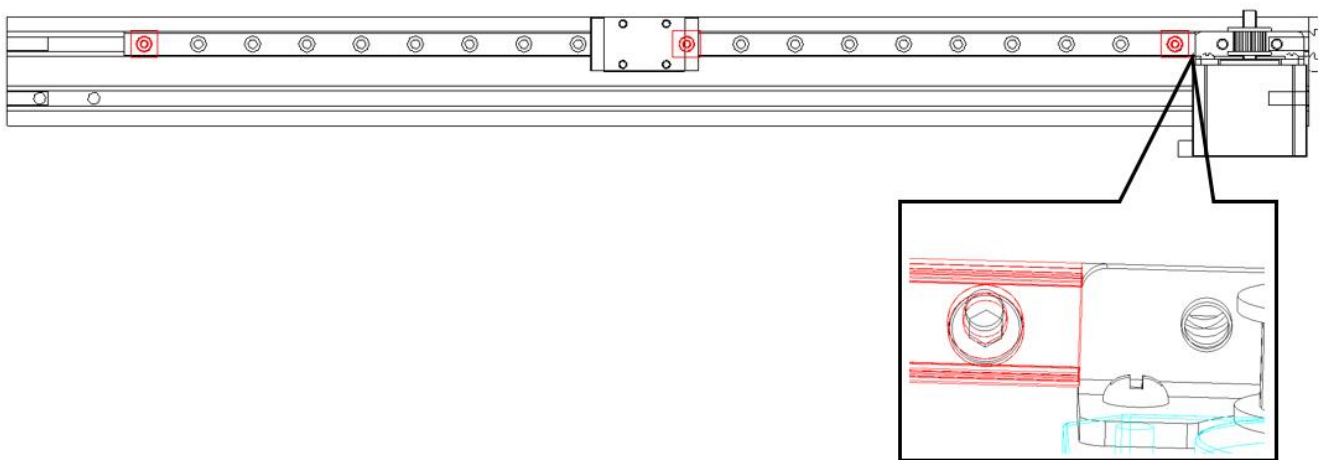
- Pay attention to differentiation left and right Y carrier, there is a plastic print on the right Y carrier.

- The carrier is fixed by a M4 screw that has been removed from the bottom and a M5 screw with boat-nut installed on the sheet metal from the top. When fixing the boat-nut, first rotate the screws counterclockwise for 2-3 turns, and then tighten by rotating clockwise. Do not tighten the screws too tightly at this step.

10 Install X carrier metal sheet to the slider of X linear rail.



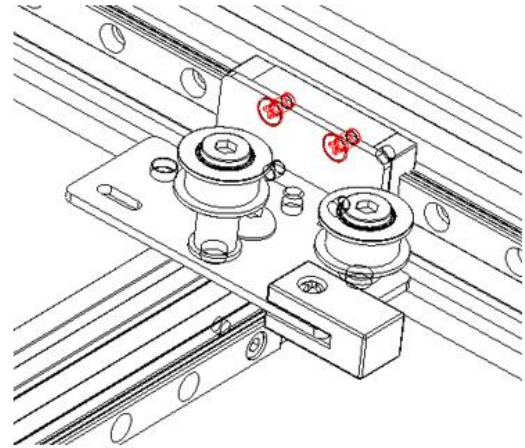
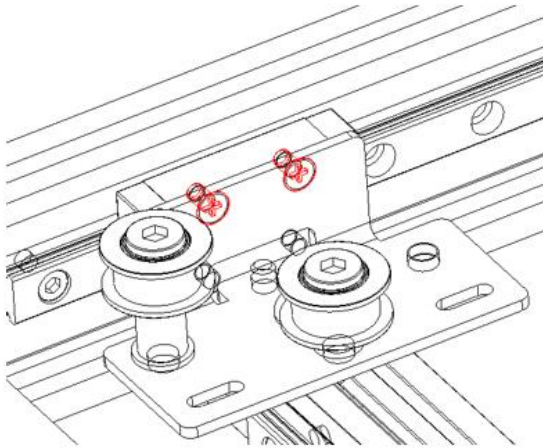
11. Install linear rails to Y profile



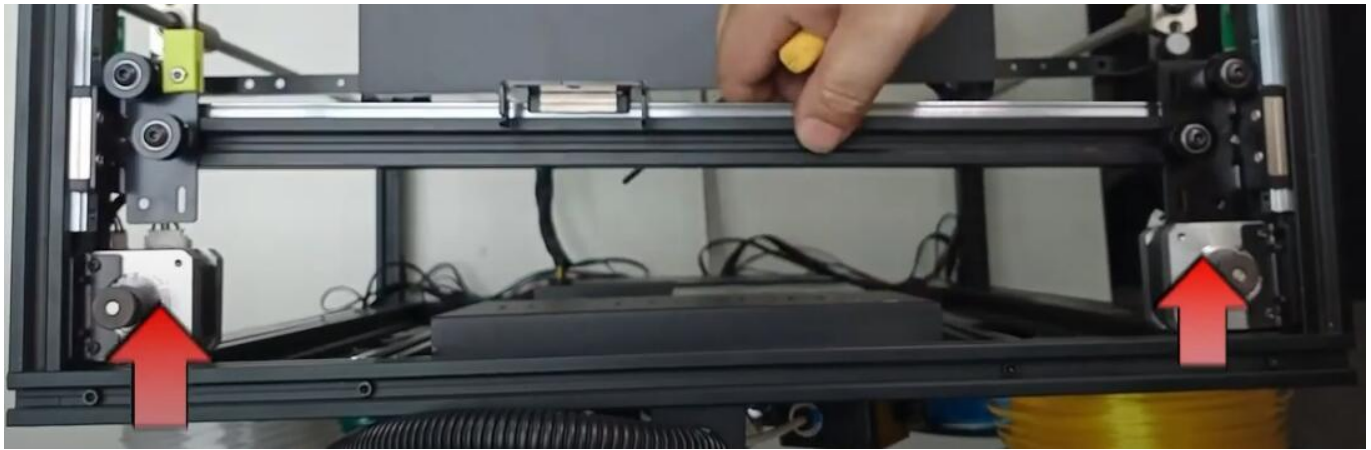
- Fix 3 screws and square nuts to the linear guide rail
- Slide the linear guide rail from one side of the Y profile, and place the square nut in the **top groove** of the Y profile.
- Move the linear rail to the innermost of the Y profile (touched to the motor metal piece), and then fix the screw.

12 Reinstall the top-front profile back.

13 Install the X axis assembly to the sliders of Y carrier.



⚠ Move the X-axis assembly to the end of the machine, align the left and right side Y carriers, and then tighten the screws that secure the Y-axis carriers.



14. Reinstall the hot end.

15. Install the new belts.