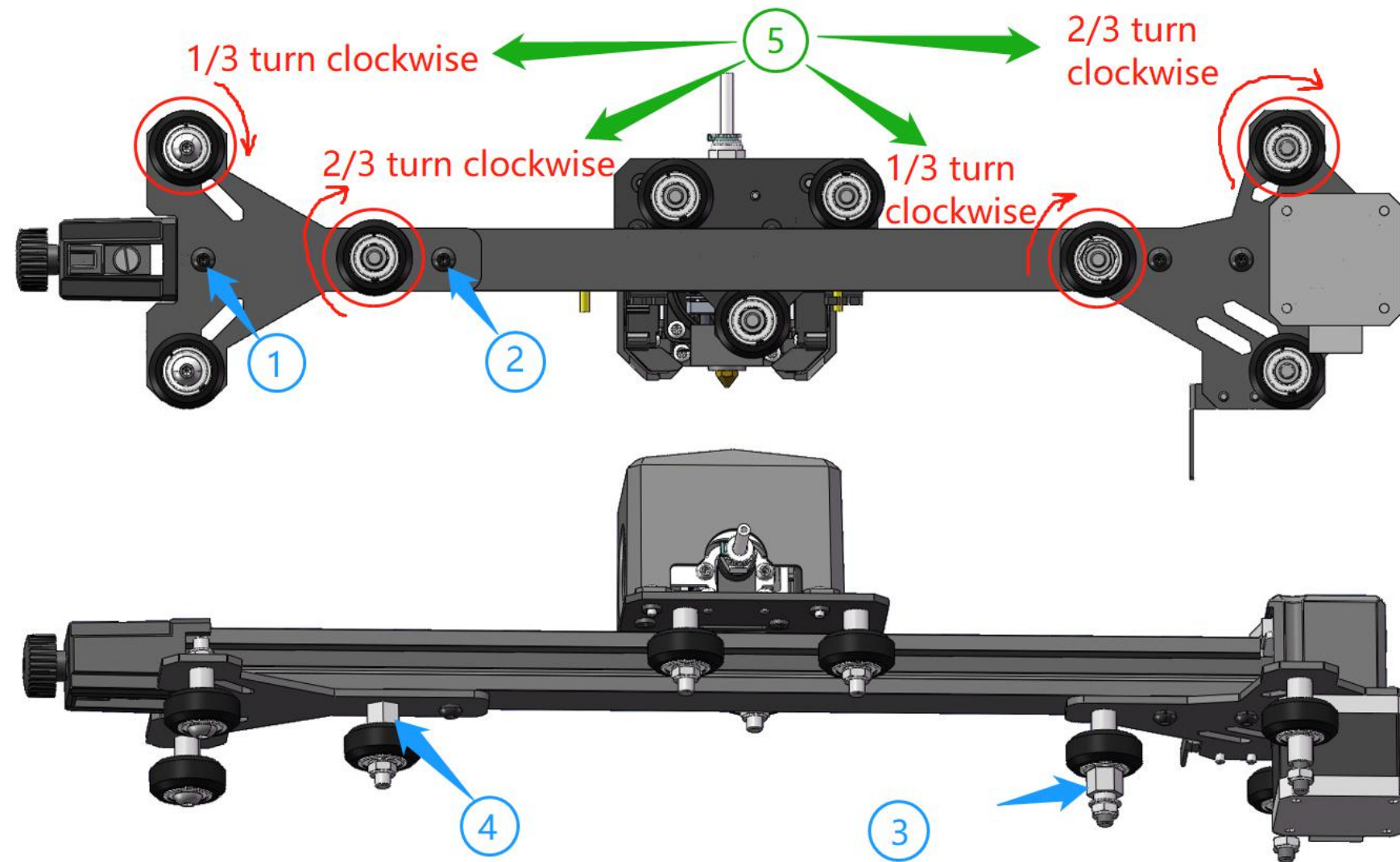# Leveling Issue Solutions

A.Printer Debugging

● Introduction

①②→M4 screw   ③④→metal eccentric spacer   ⑤→Tuning POM-V wheel

● Adjust V-wheels of Z-axis

1. Viewpoint: Check from the back of the machine. The 3 V wheels on the left in the picture belong to Z-axis auxiliary wheels, and the 3 V wheels on the right belong to Z-axis active wheels.

2. Loosen ①② and loosen ④, so that the auxiliary wheels can turn easily and avoid the 3 V wheels from over-fitting the profile.

3. Loosen ③ so that the 3 V wheels of the active wheel can be rotated.

4. Rotate the V-wheel as shown in ⑤. This step is to avoid moving jams. Since the machine is not used for a long time (especially the new machine, which may have a collision in the long-distance transit), POM-V wheel will inevitably dent, resulting in the movement is not smooth. Usually as long as following this method to adjust the V wheel, basically it will not affect the normal printing. Note: For the single cantilever X-axis (single Z-axis), the three V wheels on the left in the figure belong to the auxiliary wheel, the three on the right belong to the active wheel. When the active wheel has problems, kindly use the auxiliary wheel to replace the active wheel. X & Y axis debugging method is the same.

5. Tighten ③, so that the 3 V wheels of the active wheel fit the profile and the 3 wheels cannot have idle.

6. Adjust ④ appropriately, but make sure the 3 wheels should be able to rotate easily. I it is too tight, it will affect the auto leveling effect & auto offset effect.

7. The screws of ①② do not need to be fully tightened. This step is associated with step '6'.

Note: If you don't use the machine for a long time, it's better to adjust the POM-V wheels to a slack state.

B. Firmware Upgrade

The new firmware has improved the leveling problem.

Firmware URL： https://github.com/NARUTOfzr/Neptune_3