

## Bed Leveling Optimization & Printer Upgrades 🛠️

### 1 Bed Adjustment

Once **Screw Tilt** and **Bed Leveling** are completed, print a test with **small squares positioned above the bed screws** to fine-tune the settings.

- ♦ **First layer:** Print this initial layer slowly.
- ♦ **Live adjustment:** During printing, adjust the bed height by turning the corresponding leveling screws.
- ♦ **Do not relevel after:** Once the optimal setting is achieved, **avoid redoing the Bed Leveling** to maintain accuracy.

📺 **Tutorial video on Bed Leveling and Screw Tilt Calculate:**

🔗 [https://youtu.be/tKLLveLwOtk?si=8Lm94dnieESqAA\\_8](https://youtu.be/tKLLveLwOtk?si=8Lm94dnieESqAA_8)

This should **improve adhesion and bed flatness**, resulting in better prints.

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### 2 Stabilizing Bed Leveling

To ensure long-term stability of the bed leveling, **replace the springs and spacers with silicone tubes**. This helps **reduce vibrations** and prevents the bed from **losing its calibration over time**.

🛒 **Link to order silicone tubes:**

🔗 [https://a.aliexpress.com/\\_EwjsNp6](https://a.aliexpress.com/_EwjsNp6)

💡 **Tip for Neptune 4 Plus and Max:** The spacers under the bed can also be replaced with these silicone tubes, **further enhancing stability and precision**.

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### 3 Upgrade with OpenNeptune

If you want to **significantly enhance** your printer, switching to **OpenNeptune** is a great upgrade.

This firmware **improves performance and optimizes printer management**.

📺 **Tutorial video on OpenNeptune:**

🔗 <https://youtu.be/J-H4aQfmzbY?si=mtNvxhRc2sa66Bli>

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