

# Don't Be a Total Waster of Plastic: Calibrate Your Delta 3D Printer Like a Boss

3D printing is an amazing technology that allows us to create objects of any shape and size. However, if your printer is not properly calibrated, you can end up wasting a lot of plastic and time. Delta 3D printers are particularly sensitive to calibration, so it's important to take the time to do it right.



## Don't Be a Total Waster (of plastic) Calibrate Your Delta 3D Printer Like A Boss Book 3 by Duncan Weir

★★★★☆ 4.6 out of 5

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| Word Wise            | : Enabled   |
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In this article, we will walk you through the essential steps of calibrating your Delta 3D printer. We will also provide some troubleshooting tips and best practices to help you achieve optimal printing results.

### Step 1: Level the Print Bed

The first step in calibrating your Delta 3D printer is to level the print bed. This ensures that the nozzle is the same distance from the bed at all points,

which is essential for good print adhesion.

To level the print bed, you will need a piece of paper. Place the paper on the bed and move the nozzle around until it just touches the paper. You should feel a slight resistance when you move the nozzle.

Once the nozzle is touching the paper at all points, tighten the bed leveling screws. Be careful not to overtighten the screws, as this can damage the bed.

## **Step 2: Calibrate the Extruder**

The extruder is responsible for feeding plastic filament into the nozzle. It is important to calibrate the extruder so that it is extruding the correct amount of plastic.

To calibrate the extruder, you will need to print a small test cube. Measure the width of the cube and compare it to the desired width. If the cube is too narrow, you need to increase the extrusion multiplier. If the cube is too wide, you need to decrease the extrusion multiplier.

Once you have calibrated the extruder, you should be able to print objects with the correct dimensions.

## **Step 3: Calibrate the Z-Axis**

The Z-axis is responsible for moving the nozzle up and down. It is important to calibrate the Z-axis so that the nozzle is the correct height above the print bed.

To calibrate the Z-axis, you will need to print a small test tower. Measure the height of the tower and compare it to the desired height. If the tower is too short, you need to increase the Z-offset. If the tower is too tall, you need to decrease the Z-offset.

Once you have calibrated the Z-axis, you should be able to print objects with the correct height.

## **Troubleshooting Tips**

If you are having trouble calibrating your Delta 3D printer, here are a few troubleshooting tips:

- Make sure that the printer is on a stable surface.
- Check that the belts are tight and not slipping.
- Clean the nozzle and print bed.
- Try using a different filament.
- Contact the manufacturer of your printer for support.

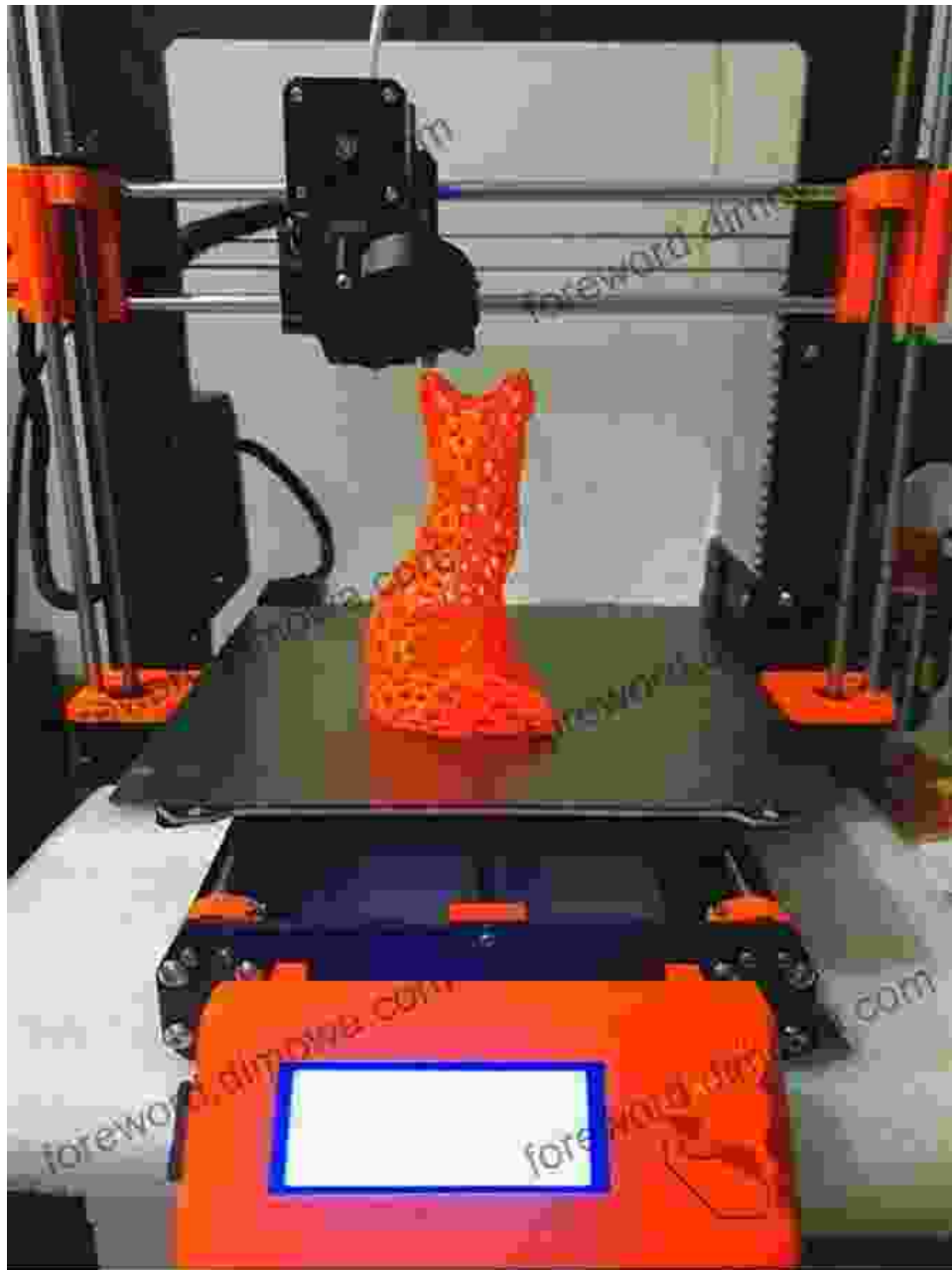
## **Best Practices**

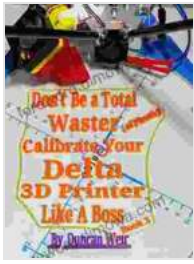
Here are a few best practices for calibrating and maintaining your Delta 3D printer:

- Calibrate your printer regularly, especially after changing filament or making any modifications.
- Keep your printer clean and well-maintained.
- Use high-quality filament.

- Be patient and don't be afraid to experiment.

By following the steps in this article, you can calibrate your Delta 3D printer like a boss. With a properly calibrated printer, you can achieve optimal printing results and minimize plastic waste. So what are you waiting for? Get started today and start printing like a pro!





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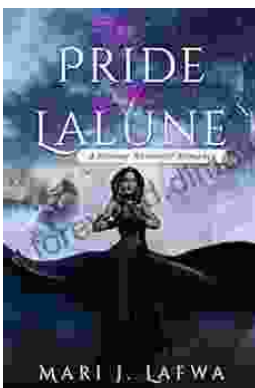
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