

Part 01 - Z Probe Setup Intro and Rationale

[JellyBox HowTo: Z-Probe Setup Part ONE \(3 min\)](#)



Notes and more:

When you print, it is imperative that the model - the object you're printing - is stuck to the build plate; only to be peeled off once the print is finished. For this, the printer needs to be able to repeatedly and precisely position the nozzle very close to the build plate so that the filament gets stuck to it as it's being extruded.

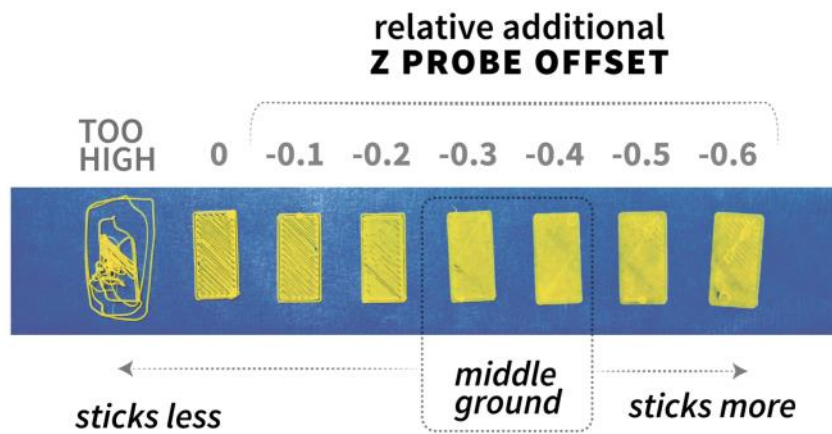
Proximity sensor is a switch that becomes engaged when it comes to a specific distance from a piece of metal. In Jellybox, the proximity sensor, also known as z-probe, plays the role of z endstop for Jellybox. It senses the magnetic field of the build plate and thus determines the z homing position - just like simple mechanical switches determine the x and y homing positions. This means by adjusting the z probe, we can change the z homing position and thus also the first layer height.

There's two parts to the process of getting the 1st layer right

1. **PART TWO:** Shows you how to physically move the proximity sensor - the Z probe - into a position in which it can actually sense the electromagnetic field of the aluminum build plate.
 - a. In the process, we'll also adjust the filament fans.
2. **PART THREE:** Follow the "1st layer tweaking" guide to fine tune the sensing distance offset in software.

Attachments

1st LAYER SQUISHINESS REFERENCE



IMADE3D

Image

(printable pdf
downloadable at
<https://www.imade3d.com/support/>)