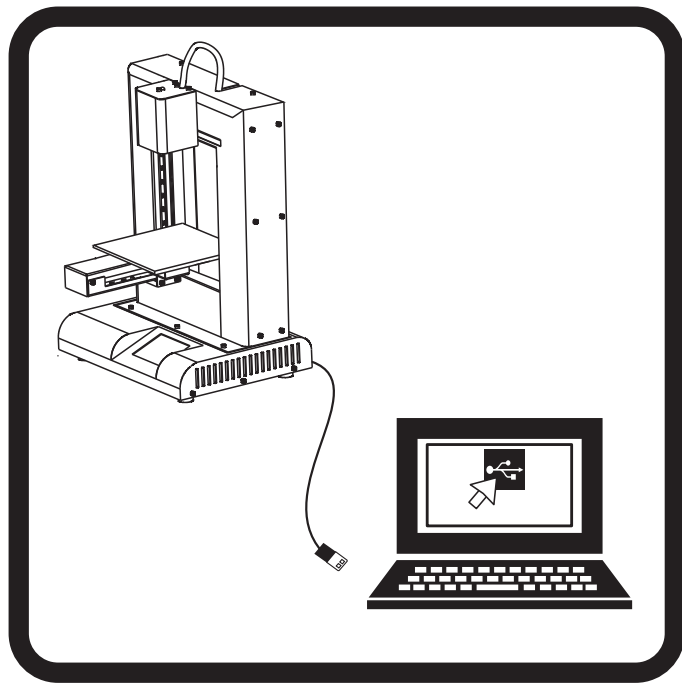


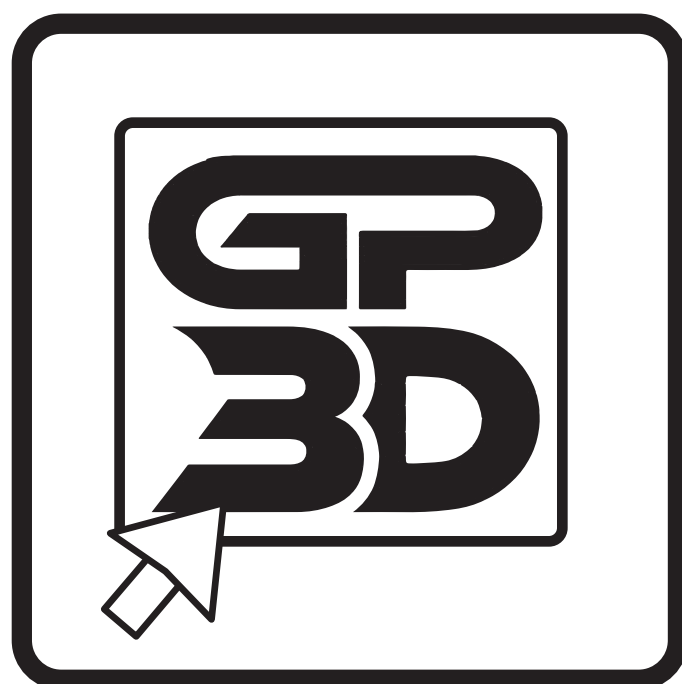
# ROOT ROOT Plus Calibration

## 1. Connect printer to computer



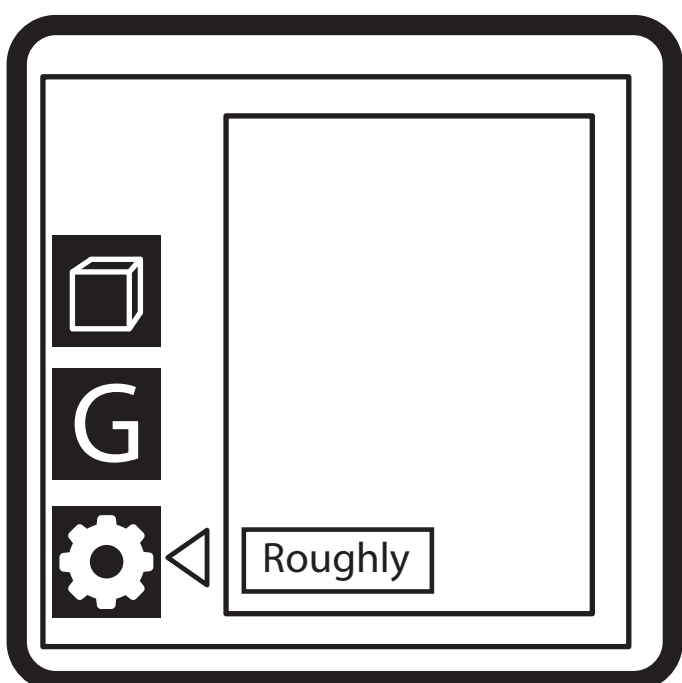
Connect the printer to your computer via the USB cable. Then in the Germinate software click the USB symbol to connect the printer and software.

## 2. Open Germinate software



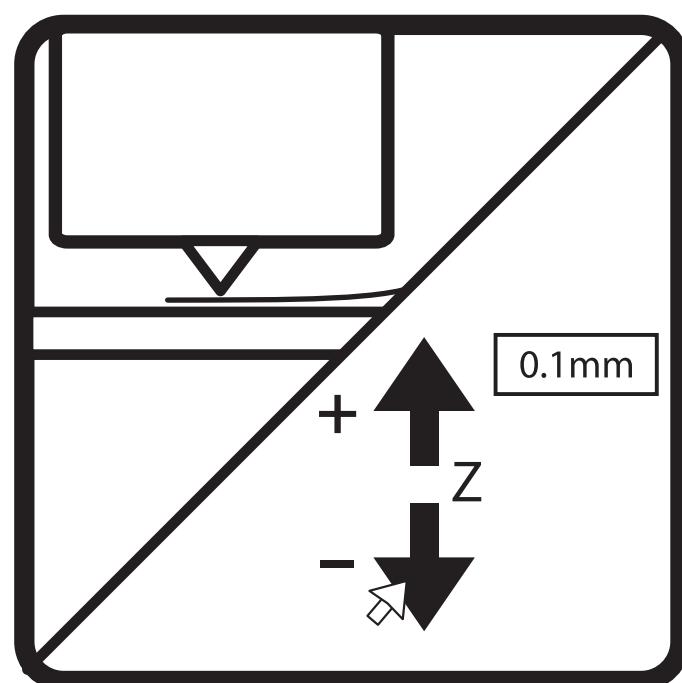
Start up the Germinate Software and connect your printer by clicking the USB icon at the top of the page. Clicking the USB icon will bring up a panel. Next to the "rescan" button will be a drop down menu that should have your printer's port name. Click it and then click "connect."

## 3. Open controls and click "Roughly"



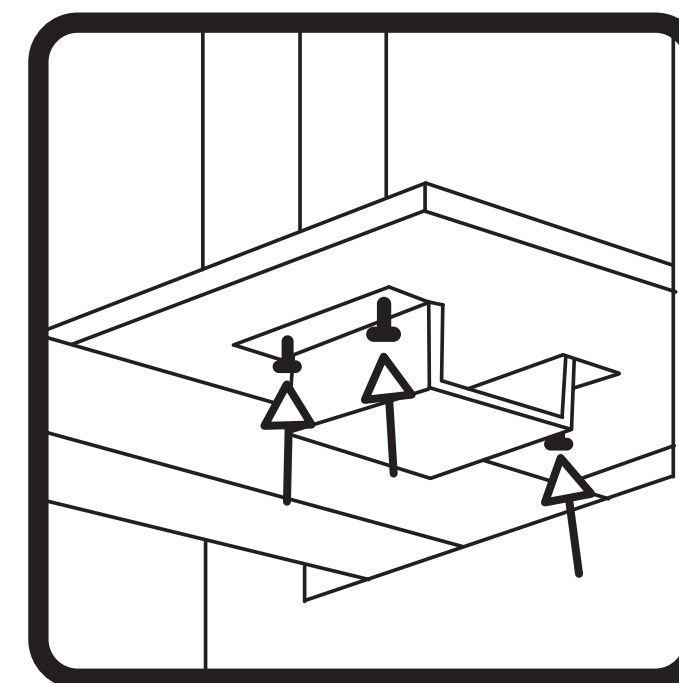
Select the cog/gear icon to bring up the control panel in the Germinate software. On the box that pops out, click the button titled "roughly." This will bring the platform close to the print head.

## 4. Increase height



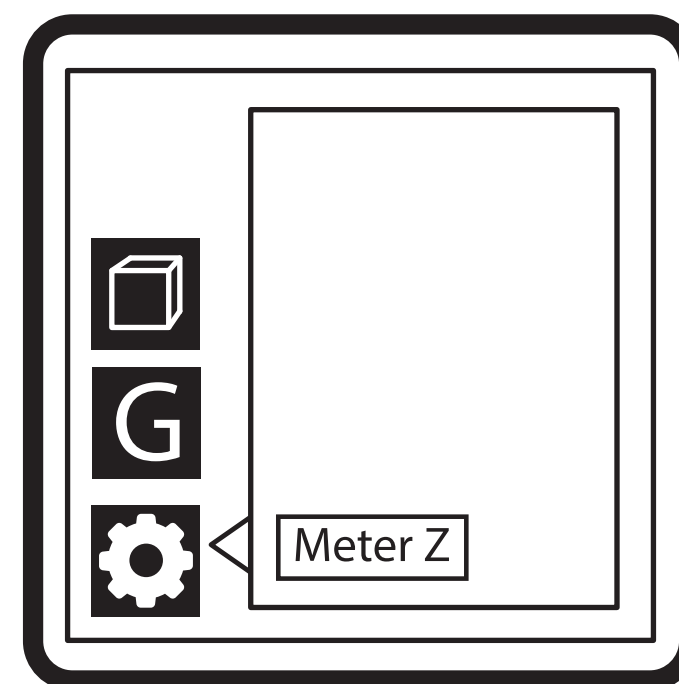
Increase the height via the on-screen controls. Next to the Z +/- arrows buttons that are at the top of the panel will be "continue" "Lock" and "Unlock." Select "continue" and set it to 0.1mm. Click the Z+ arrow to increase the print plate's height and use a business card to gauge the distance between the platforms height and the printing plate until it is no longer able to slide freely between them. (The card should be able to slide between the plate and nozzle with minimal resistance.)

## 5. Level print bed



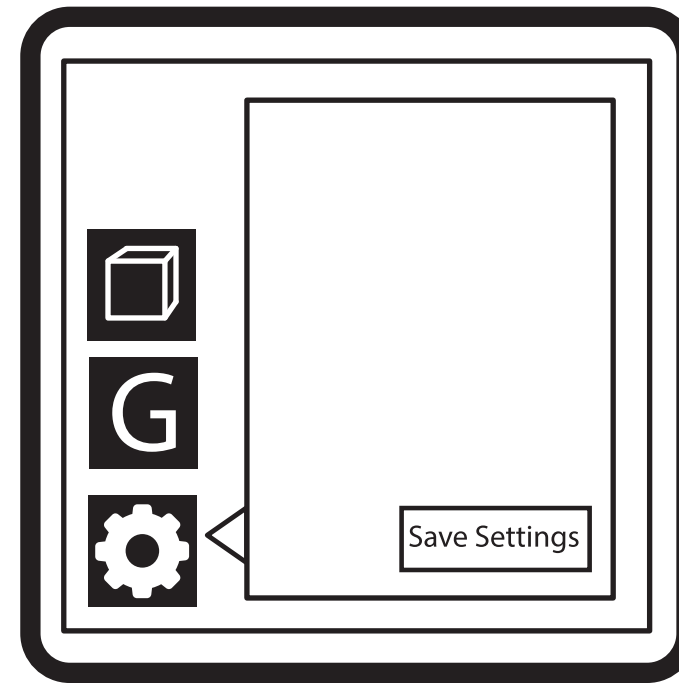
Move the extruder over each of the corners of the print bed. Use the included allen wrench to loosen/tighten each of the three springs located under the print plate to bring each corner of the print bed closer to the extruder.

## 6. Click "Meter Z"



Once height has been established, click the "Meter Z" button. This will cause the platform to slowly descend.

## 7. Click "Save Settings"



Once the platform has fully descended a number will appear next to the "Z:" display located at the bottom of the panel. Simply click the "Save Settings" button next to the "Z:" display and your printer will use that as its default height for all future prints. (Please note that whenever you remove or adjust your platform for whatever reason, you may need to recalibrate your printer)

## Setting Z Meter Height for Offline Printing (Root Plus Only)

- Use the number generated during calibration to set the height on your printer directly.
- Touch the screen to bring up the menu and select the "Advanced" tab.
- Input Meter Z height by pressing the + until it matches the number given during calibration.
- Then press save.