

CALIBRATING THE BED (INKREDIBLE/INKREDIBLE+)

Overview: This protocol walks the user through the steps of calibrating the printbed on the Inkredible/Inkredible + bioprinter series. The procedure should be used when the bed is not labeled compared to the internal axes of the bioprinter.

Materials:

Bioprinter with cartridges and nozzles.

Protocol:

1. Verify that the INKREDIBLE+ 3D Bioprinter is disconnected from the power outlet, the compressor, and the computer.
2. Insert an empty cartridge with a nozzle into printhead 1 and lower the printhead manually to the bottom-most position.
3. Move the printbed manually so the tip of the nozzle touches the surface of the printbed right in front of the adjustment screw to the back left [7a].
4. Leaving the printbed where it is, move the printheads manually so that the nozzle is right in front of the adjustment screw to the back right [7c]. Adjust the butterfly screw until the nozzle touches the surface of the printbed.
5. Again, leaving the printbed where it is, move the printhead so that the nozzle is right behind the front adjustment screw [7b]. Adjust the butterfly screw until the nozzle touches the printbed. Your printbed should now be labeled. Now, don't forget to reconnect the power outlet, the compressor, and the computer.

