Getting Started with Your Printrbot Simple Pro

Contents:

Unboxing: Attaching the Print Bed and Spool Rack

Direct heat plate power (red) and thermistor (blue) cables through the hole in the base of the printrer.
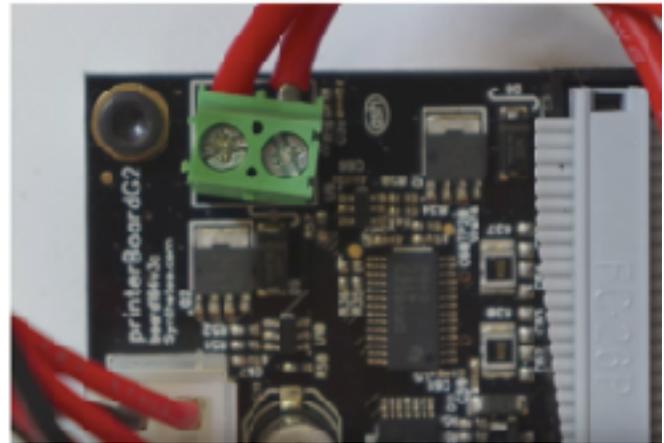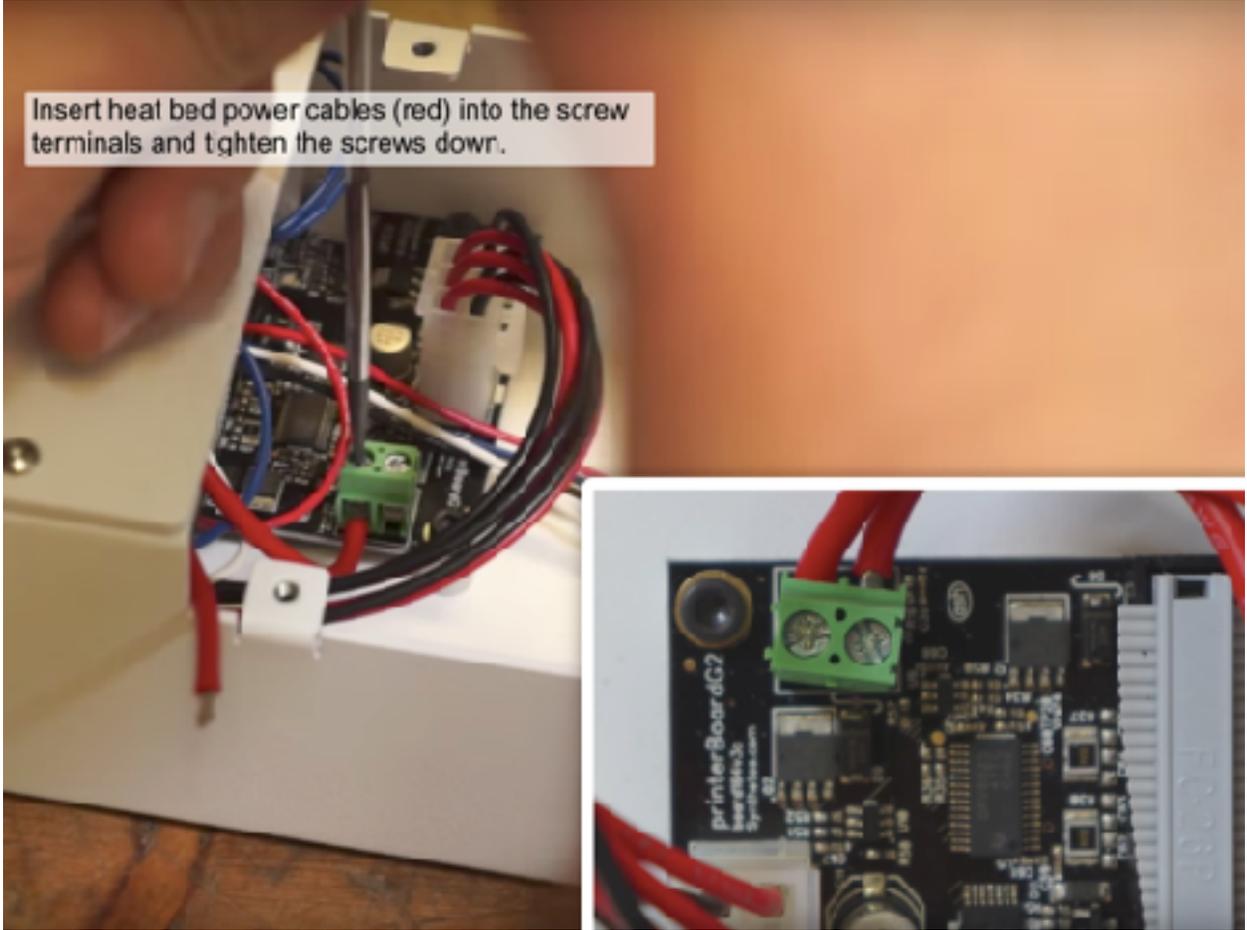
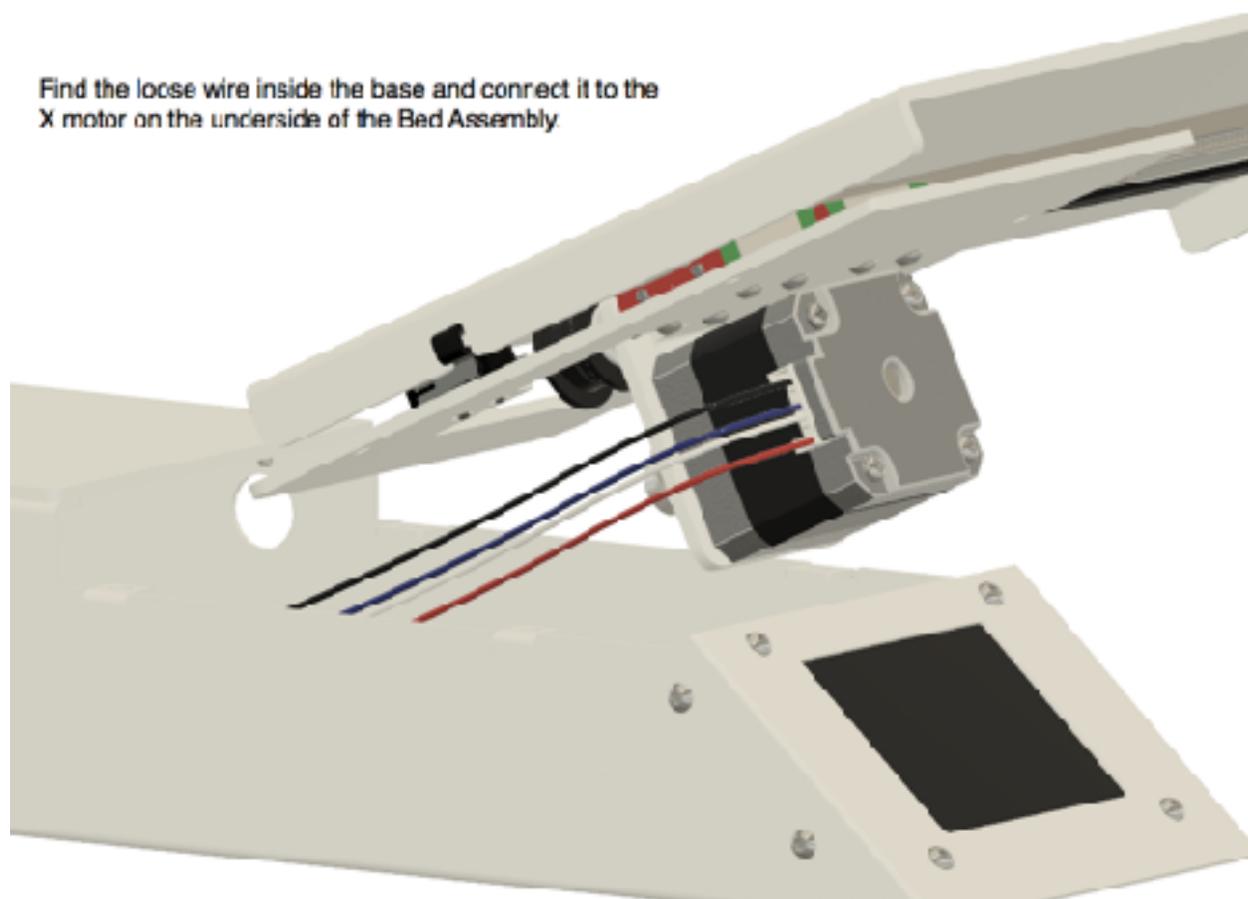Connect thermistor wires to "BED-THERM".
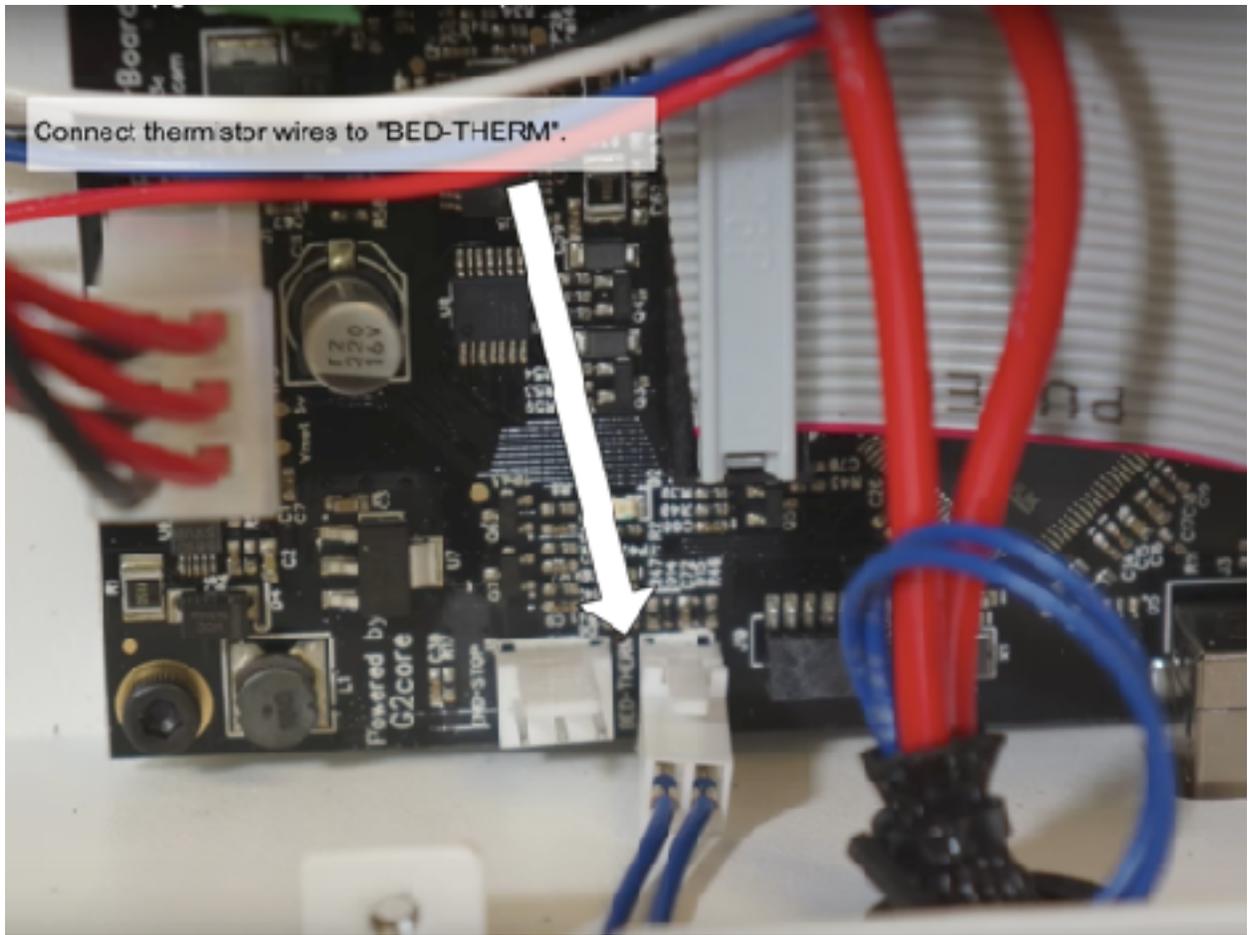
Insert heat bed power cables (red) into the screw terminals and tighten the screws down.

Find the loose wire inside the base and connect it to the
X motor on the underside of the Bed Assembly.

Find the End-Stop wire attached to the Bed Assembly (yellow and black).
Connect it to the "END-STOP" plug on the electronics board.
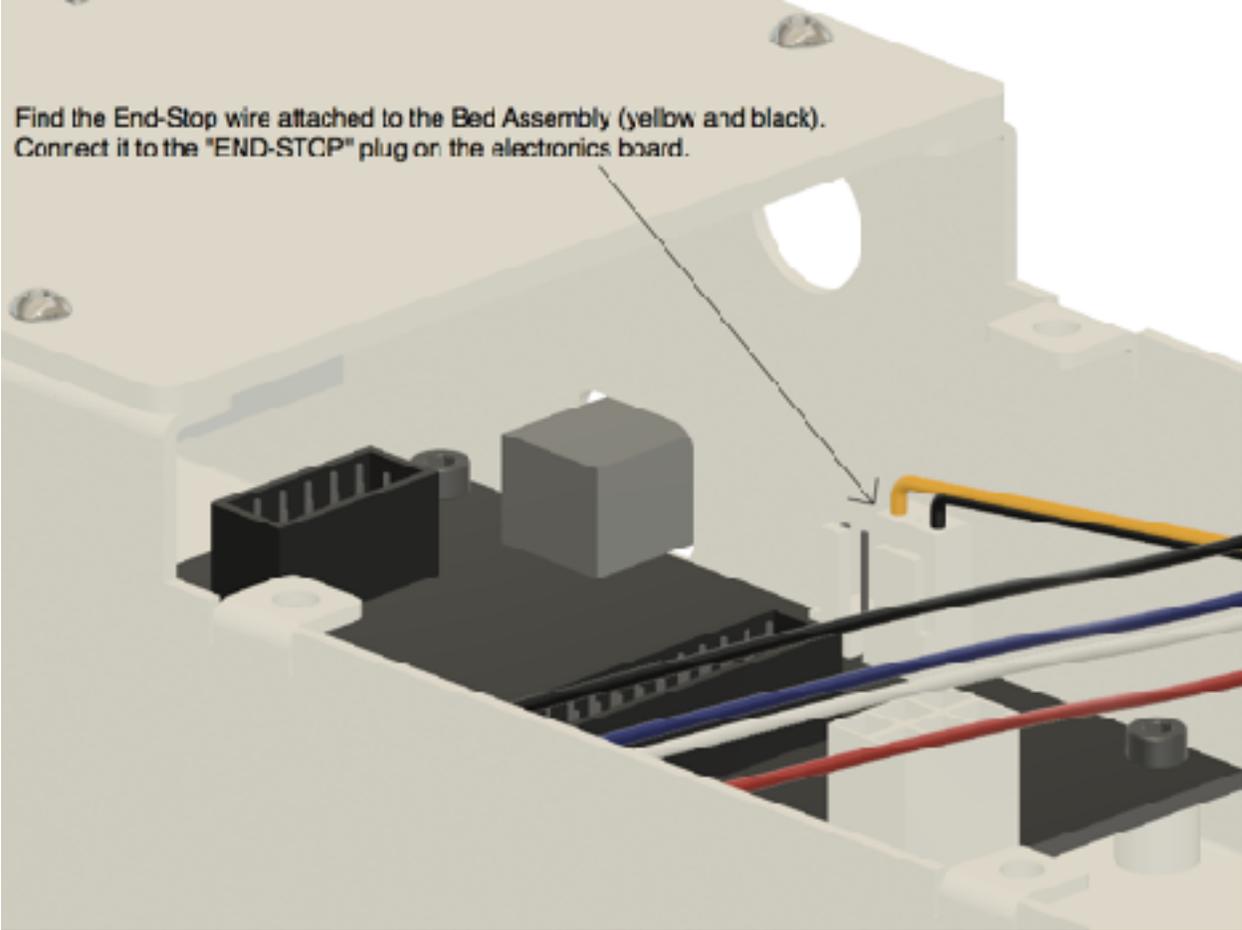
Position the Bed Assembly in the base.
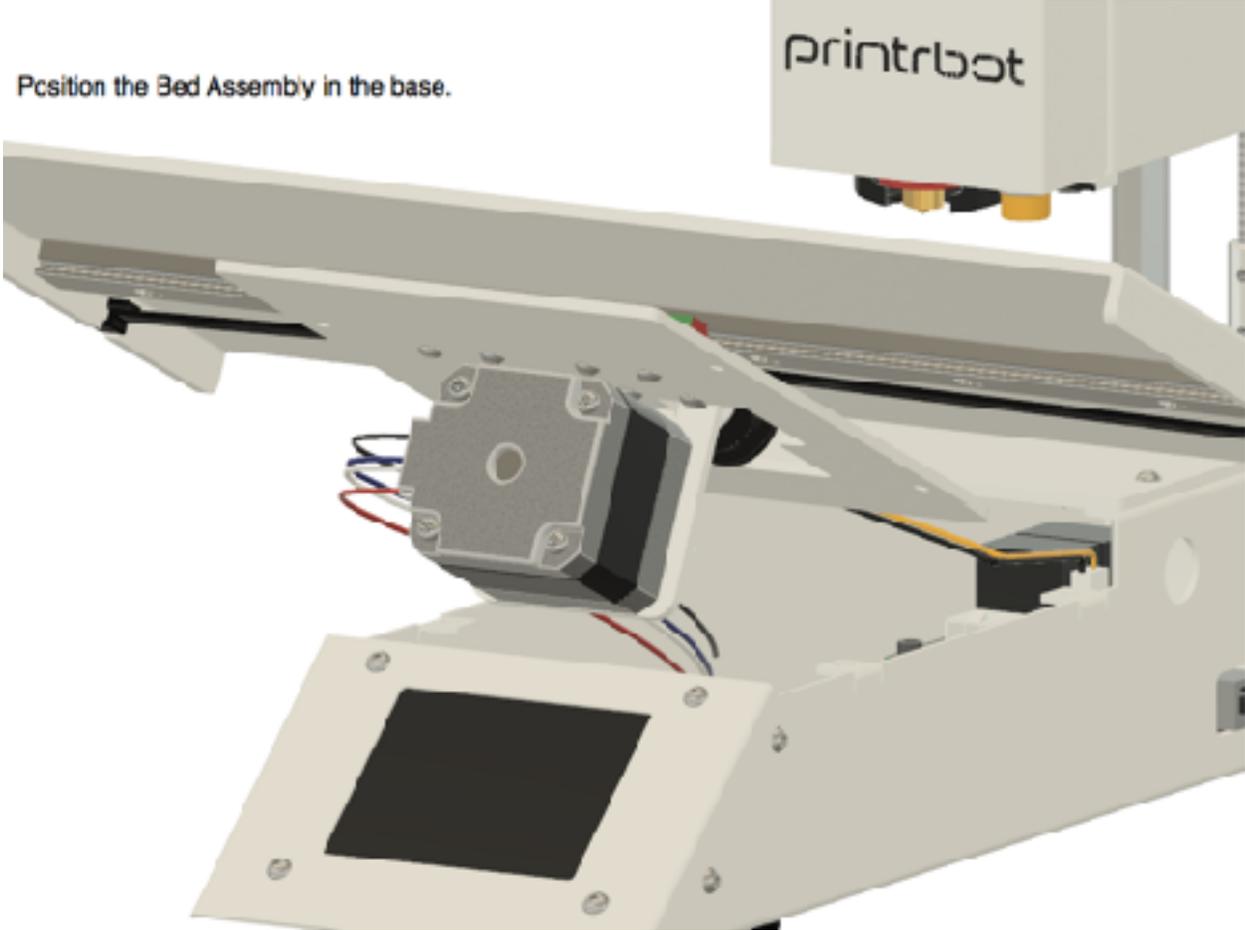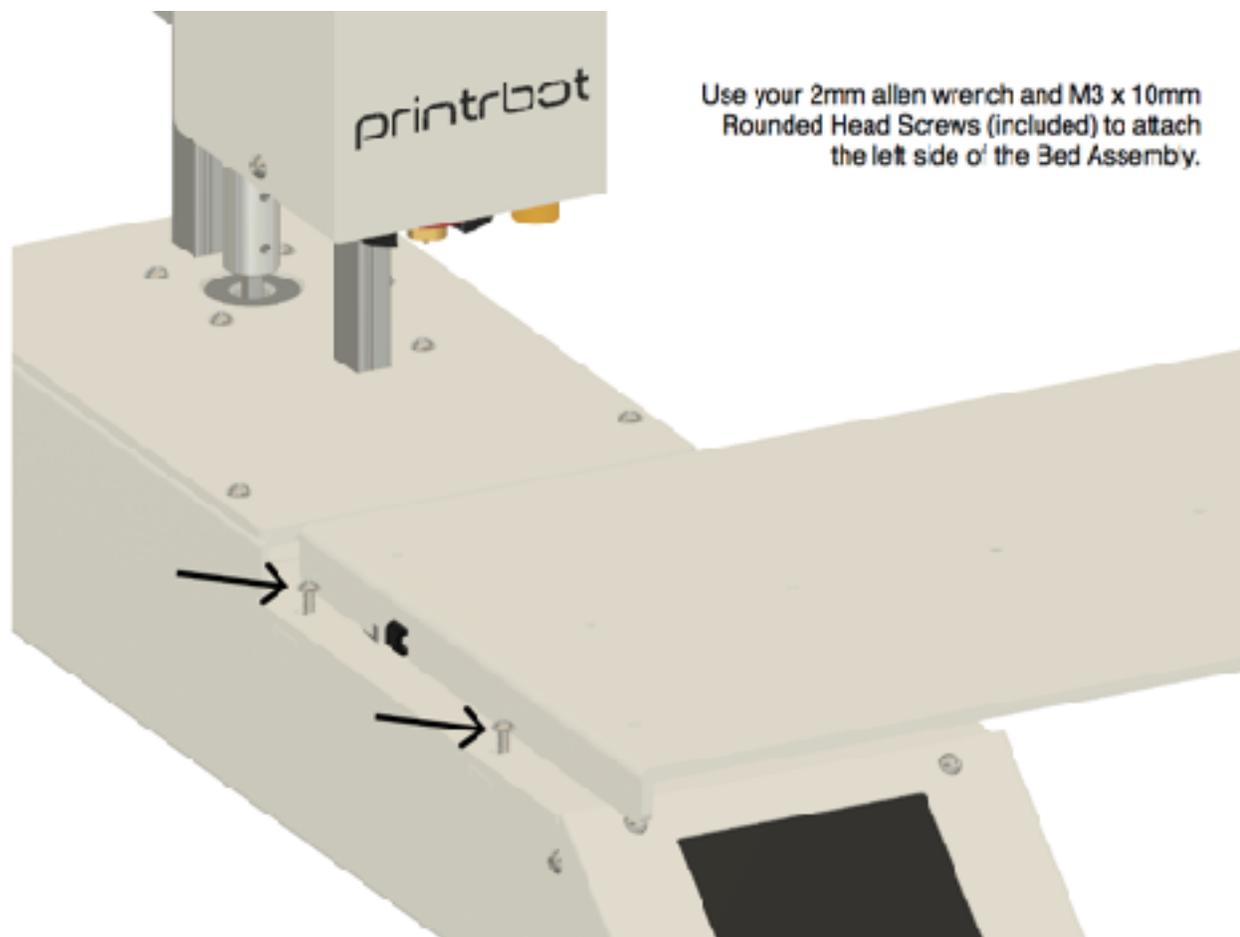
Use your 2mm allen wrench and M3 x 10mm
Rounded Head Screws (included) to attach
the left side of the Bed Assembly.

Use the remaining 3M x 10mm Rounded Head Screws
to attach the right side of the Bed Assembly.
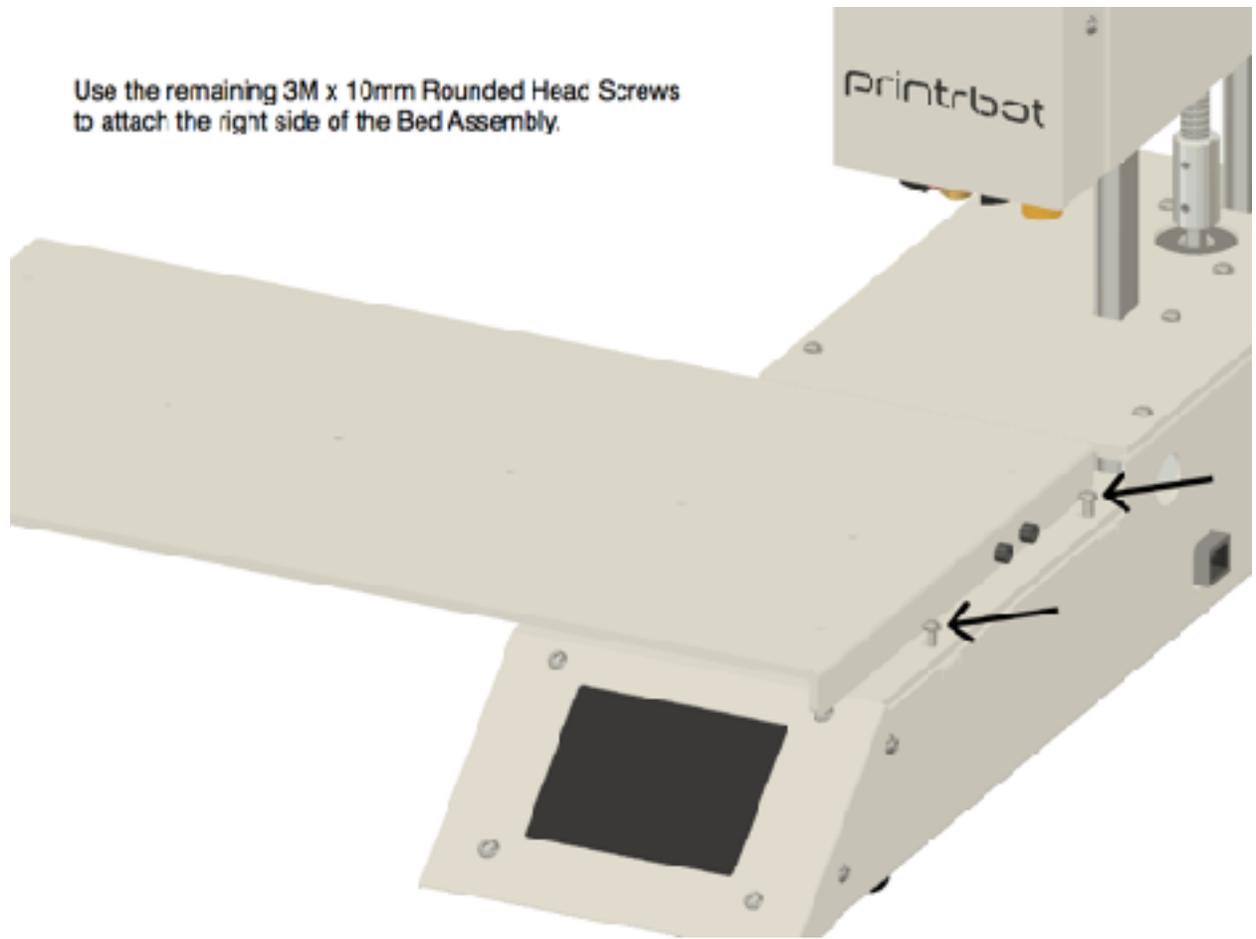
Attach the Spool Rack to the handle by
turning it counter clockwise.
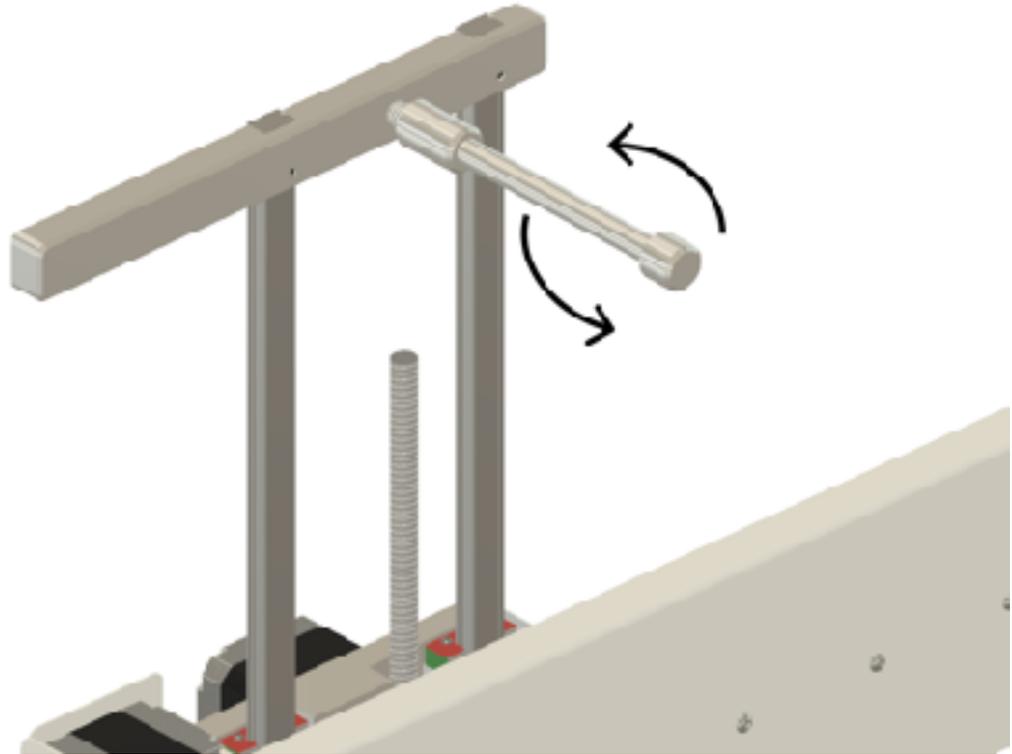
Nice work! Now, you are ready to try your first print. Please see the following guide.
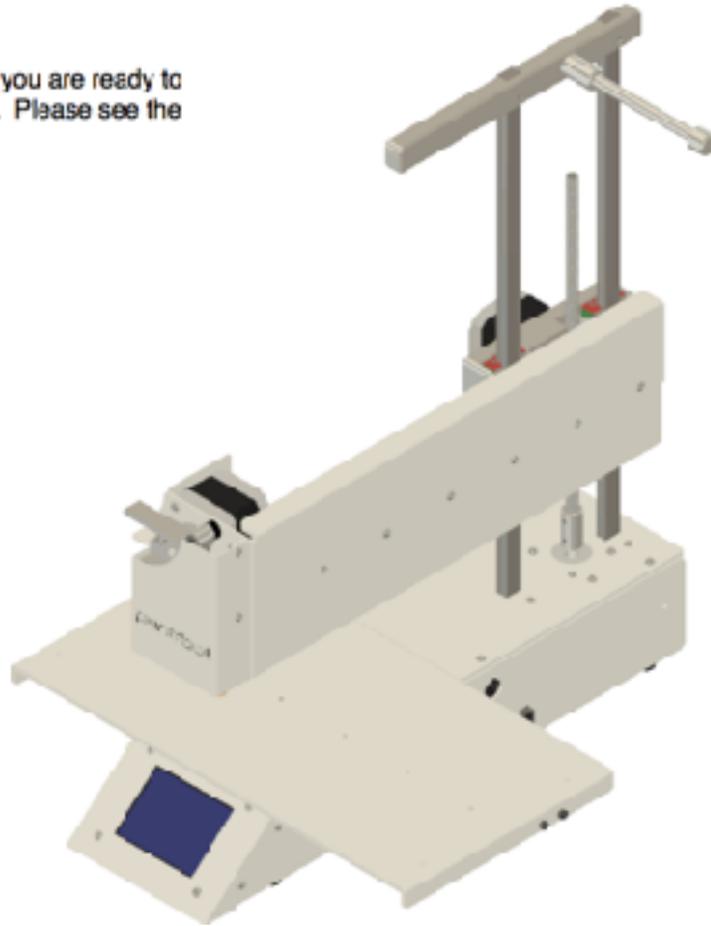
Unboxing Video

Calibration and Your First Print

Apply blue print bed tape to the print bed.

Plug in and power ON your Printrbot.
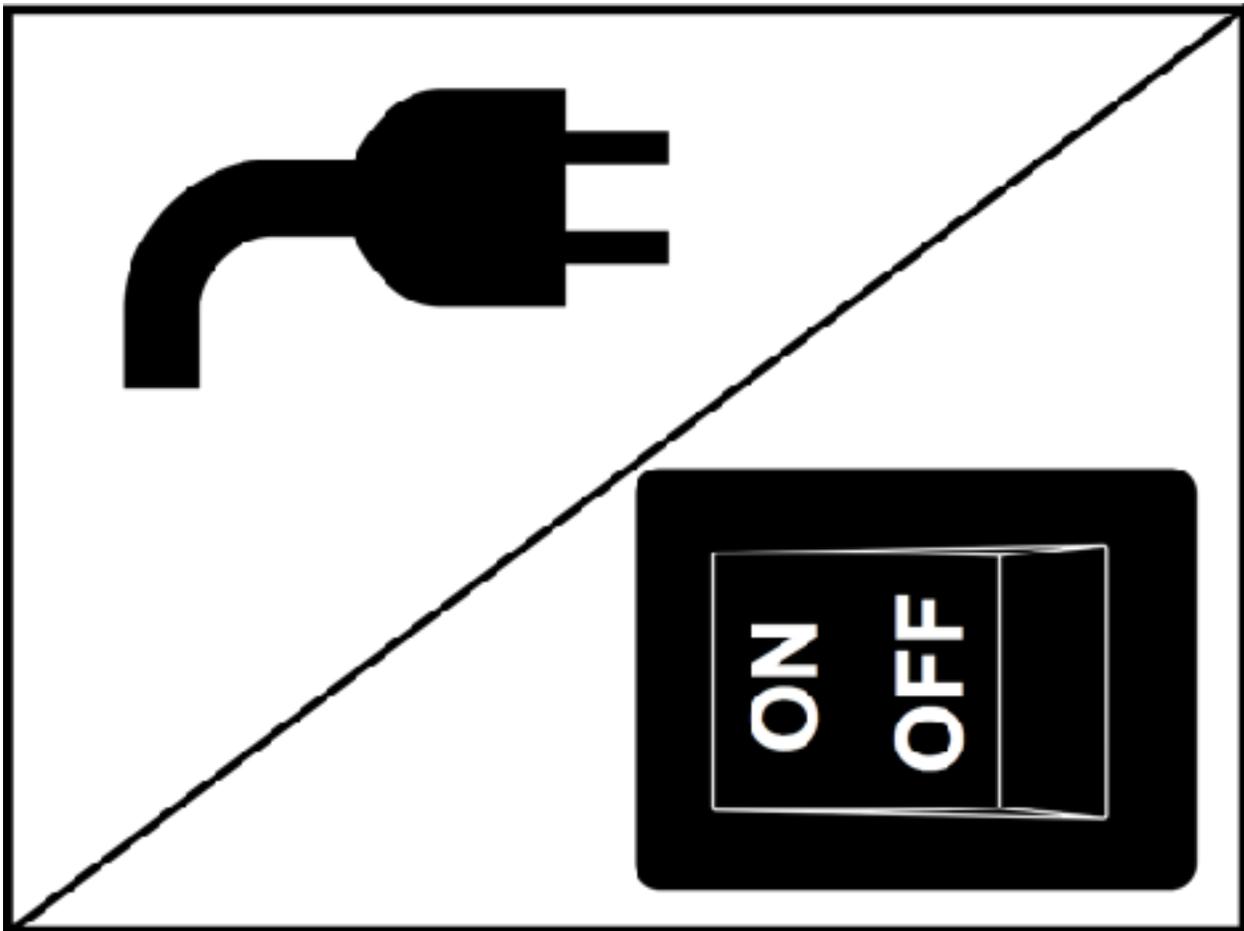
Tap the "Settings" icon in the bottom right corner of your LCD screen.

PROJECTS

FIRST TEST PRINT

open

Tap the "Filament" icon.

SETTINGS

Filament   Calibrate   WiFi

Materials   Light   Password

Tap "LOAD FILAMENT".

FILAMENT

X
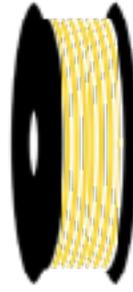
LOAD FILAMENT

UNLOAD FILAMENT

After the extruder has heated up, your LCD screen will prompt you:

"Load new filament now..."

Once you see filament extruding out of the nozzle, click "DONE".

TIP: Some users tend to force filament into the extruder. The best approach is to simply feed the filament into the extruder and allow the drive gears to pull the filament down into the extruder, rather than forcing the filament down through the hot end.
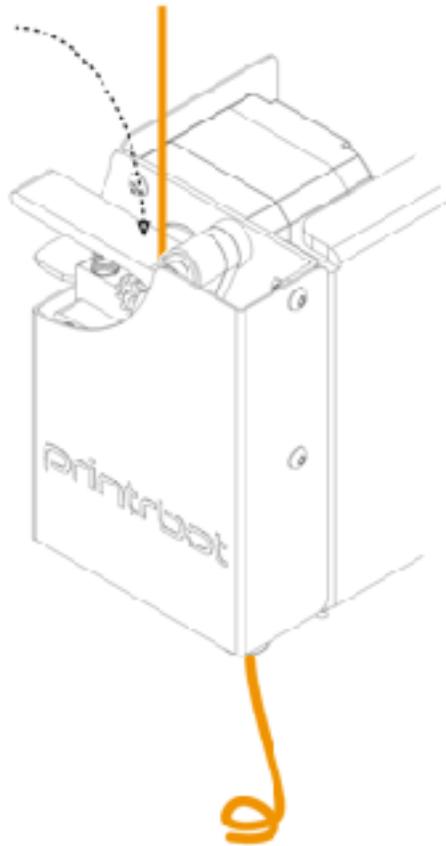
Once your filament is loaded, exit the "Settings" screen.

SETTINGS

Filament

Calibrate

WiFi

Materials

Light

Password

Open the "First Test Print" project.

Tap "print". You will see a status screen load and your hot end will begin to heat up.

Finger on the "Trigger" - Be Ready to Switch OFF

As the test print begins, keep your finger on the ON/OFF switch. If the hot end is extruding too close to the print bed, you can avoid damage to your Simple Pro by killing the power immediately. See images below of a printer that is calibrated too low.

If the hot end nozzle is digging into the print bed, the calibration is far too low. Power OFF immediately.

Other indications that the calibration is too low.

- The first layer will appear "choppy" because the nozzle is pushing the melted filament up on the sides of the bead.
- Another indication will be a clicking extruder because the filament will not be able to flow from the extruder if the hot end is too close to the bed.
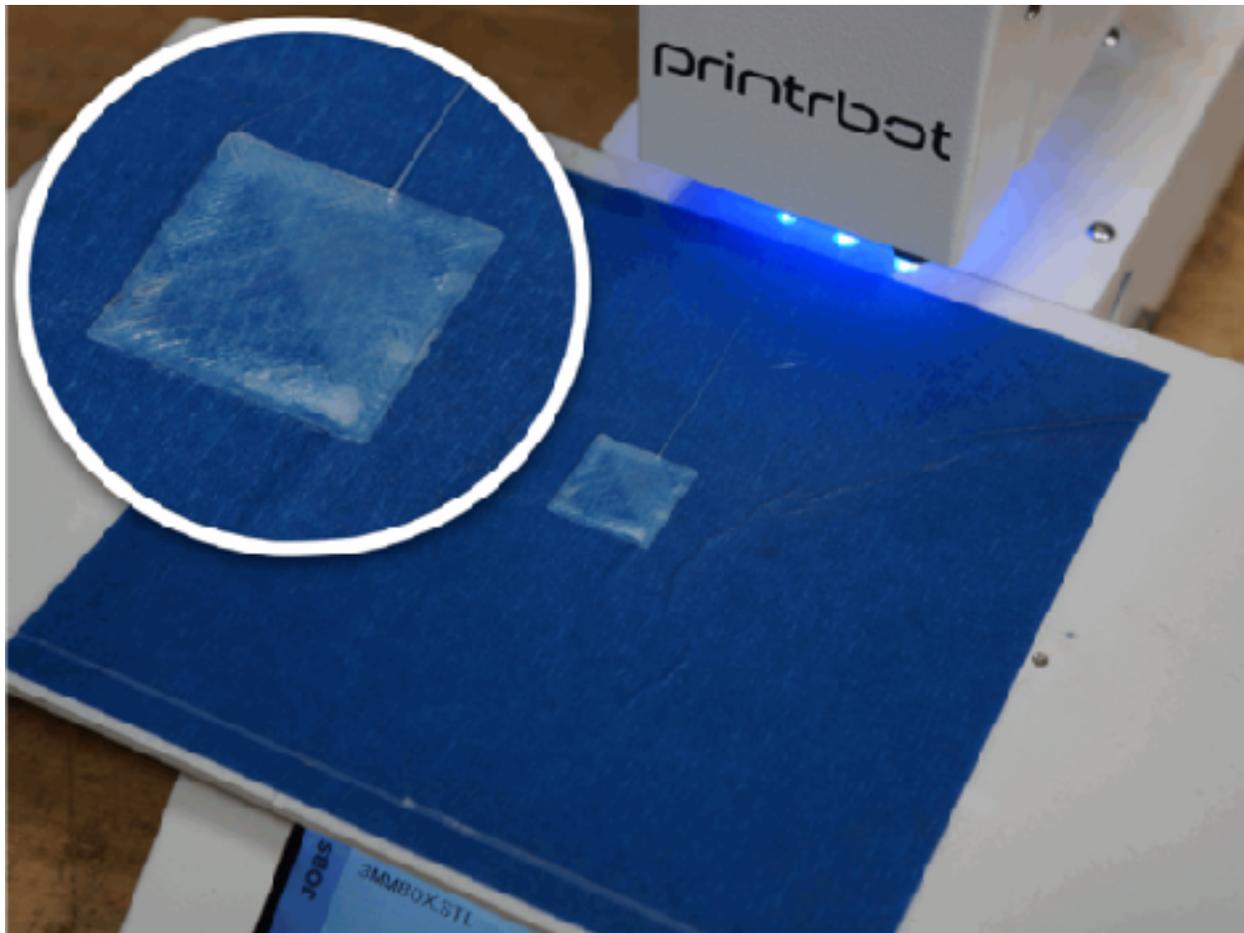
After powering your Simple back ON, go to the SETTINGS screen and tap "Calibrate". Adjust the hotend offset up by an increment of 0.2. In this example, the offset is **0.1**. Adjust up to **0.3** and save. Begin the test print again.

Repeat this process, adjusting in increments of 0.2 at a time until your first layer height is dialed in.

***NOTE:** Each printer is set at a different offset. Your hotend offset value may vary.

SETTINGS

×

Filament

Calibrate

WiFi

Materials

Light

Password

CALIBRATE
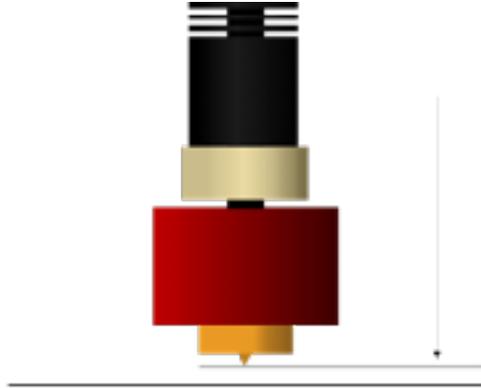
+0.1

HOTEND OFFSET

down **up**

SAVE

✕

CALIBRATE
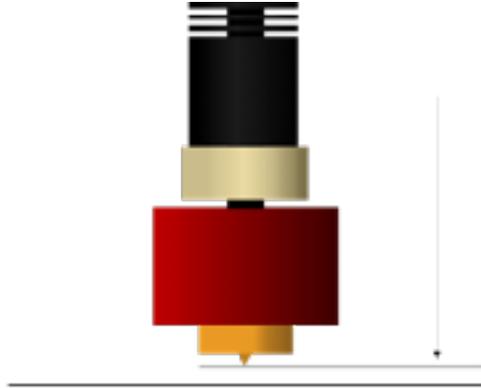
+0.3

HOTEND OFFSET

down
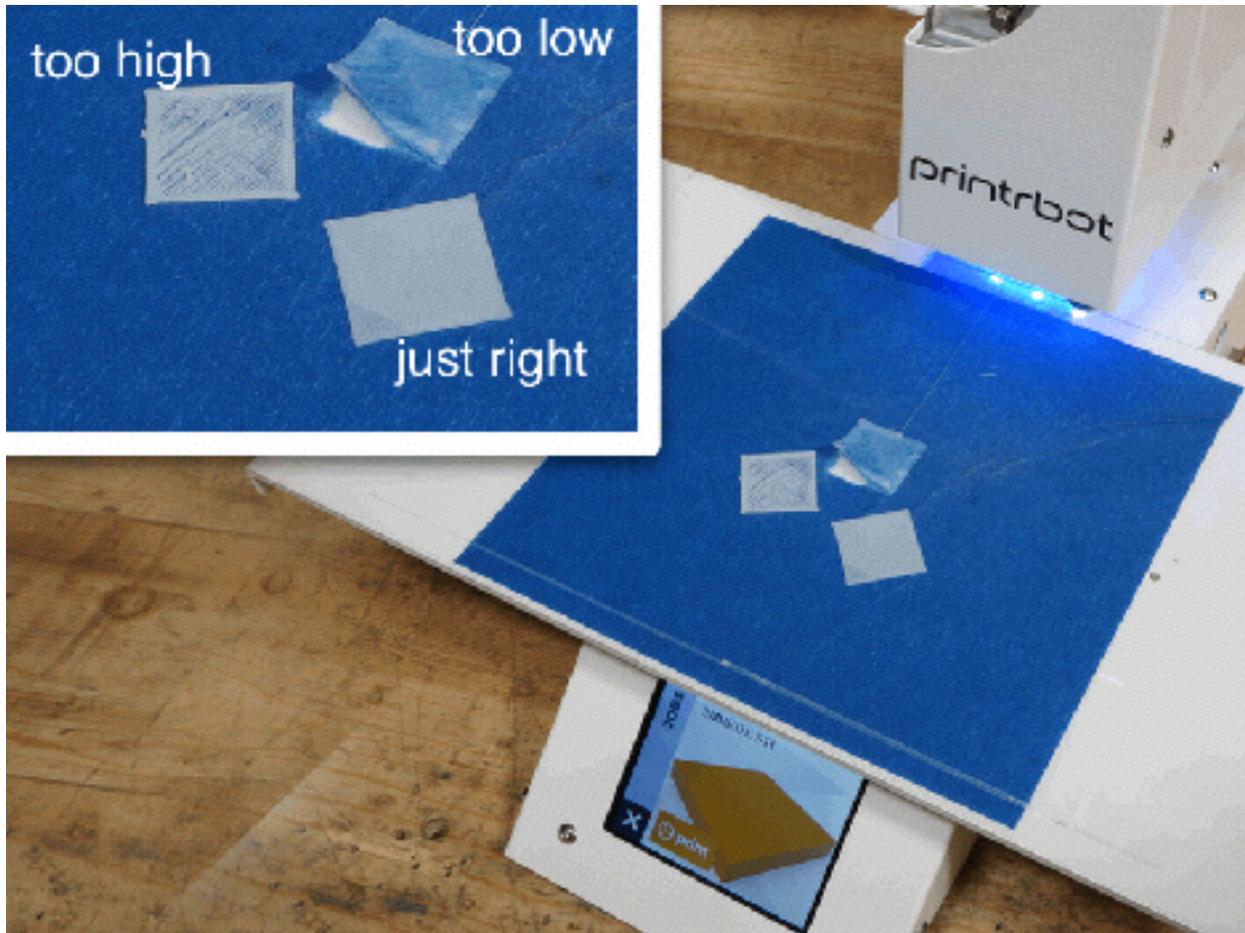
up

✕

SAVE

Your First Print Video

*NOTE: SEE CALIBRATION INSTRUCTIONS BEFORE BEGINNING YOUR FIRST PRINT.

Try watching this video on www.youtube.com

WiFi Setup

1. Turn on Printer
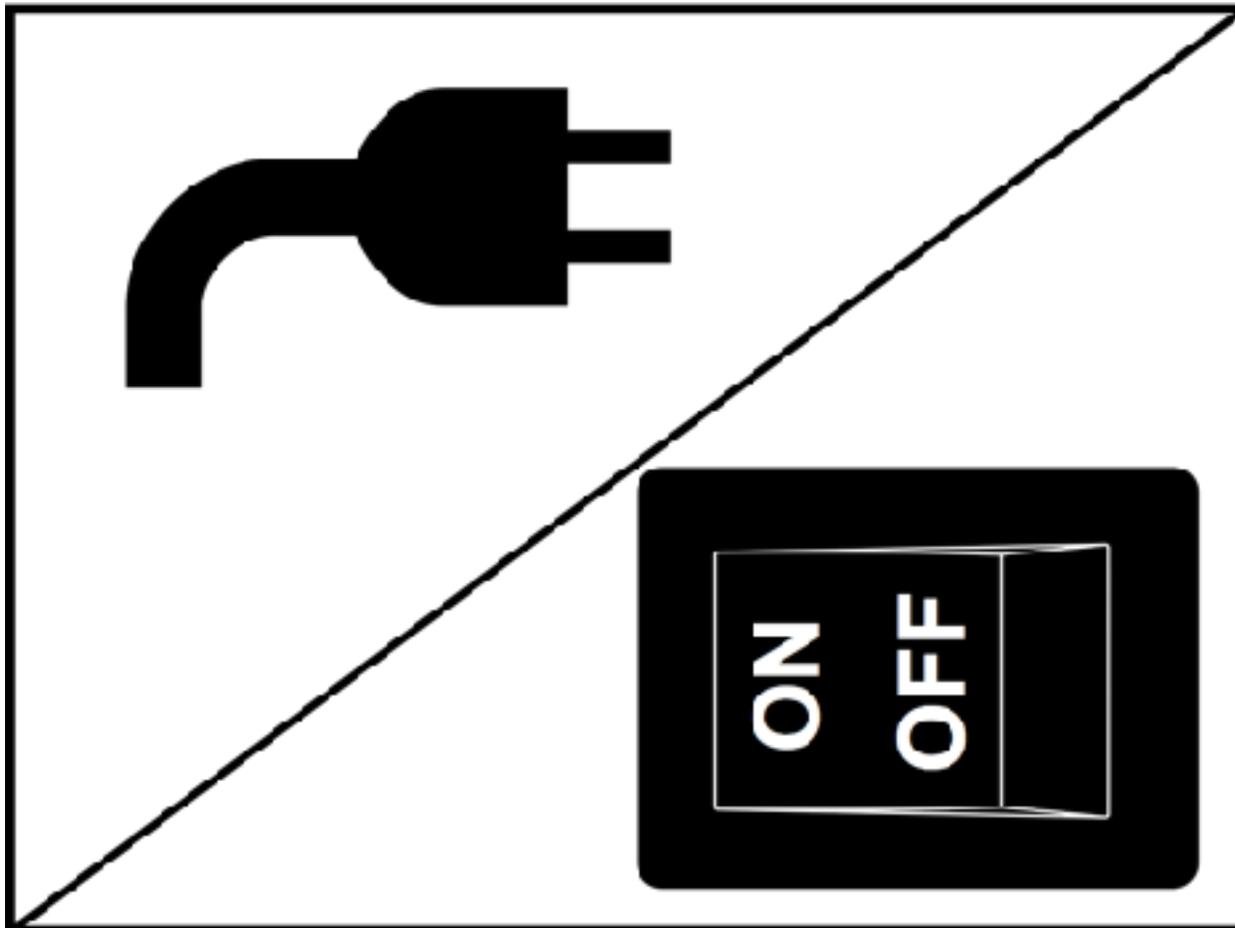
2. Connect to "printrbot" wifi network

3. Open a browser and navigate to the I.P. address of your printer. Your printer's I.P. address is listed on the Wifi screen on your printer.
Go to Settings (gear icon) >> Wifi.

open

PROJECTS

⚙

Filament

Calibrate

WiFi

Materials

Light

Password

SETTINGS

Name:	printrbot
WiFi:	AccessPoint
IP address:	192.168.4.1
SSID:	FF.FF.FF.FF.FF.FF
Firmware:	
Serial:	

ArXt4zpHZ3bCpJU2xyAcM1Z9Gzp9ZpbC

4. In your browser, enter your info: Choose your printer name. Enter your WiFi name (SSID). Enter your WiFi password. and click Save.
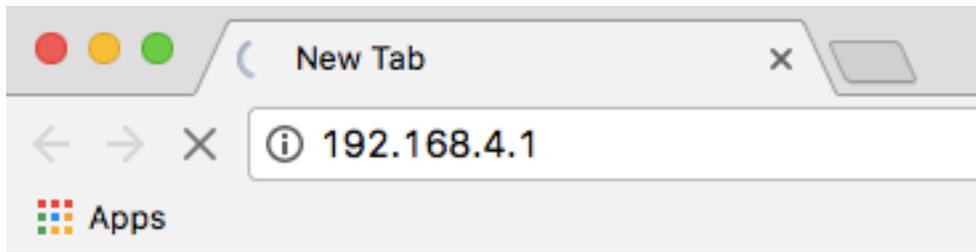

Printer name (only useful if setting up multiple printers in access point)

Your Local WIFI SSID (name) **CaSe SenSaTiVe**

Your Local WIFI password **CaSe SenSaTiVe**
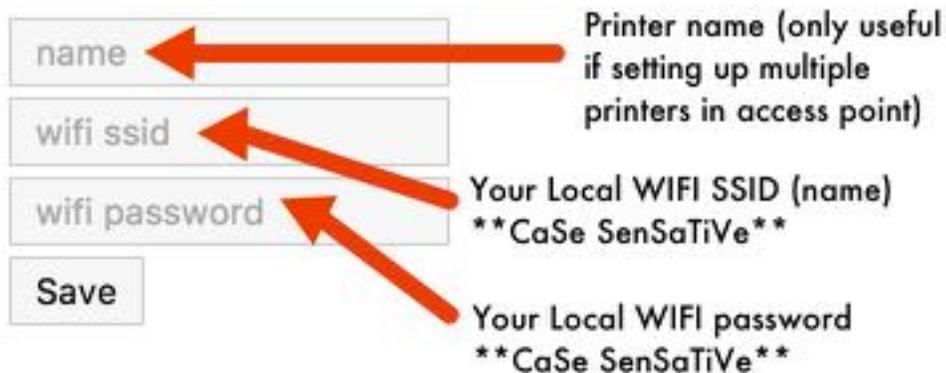
Success!! You will see this message:
{"wifi":"configuration updated, restarting..."}

5. Now, your printer will be on your WiFi network. Connect your computer to your normal WiFi hotspot and point your browser to printrbot.cloud.

6. After you get your account on printrbot.cloud, you can add your printer using the NEW I.P. ADDRESS listed on the Wifi screen on your printer. Again, go to Settings (gear icon) >> Wifi.
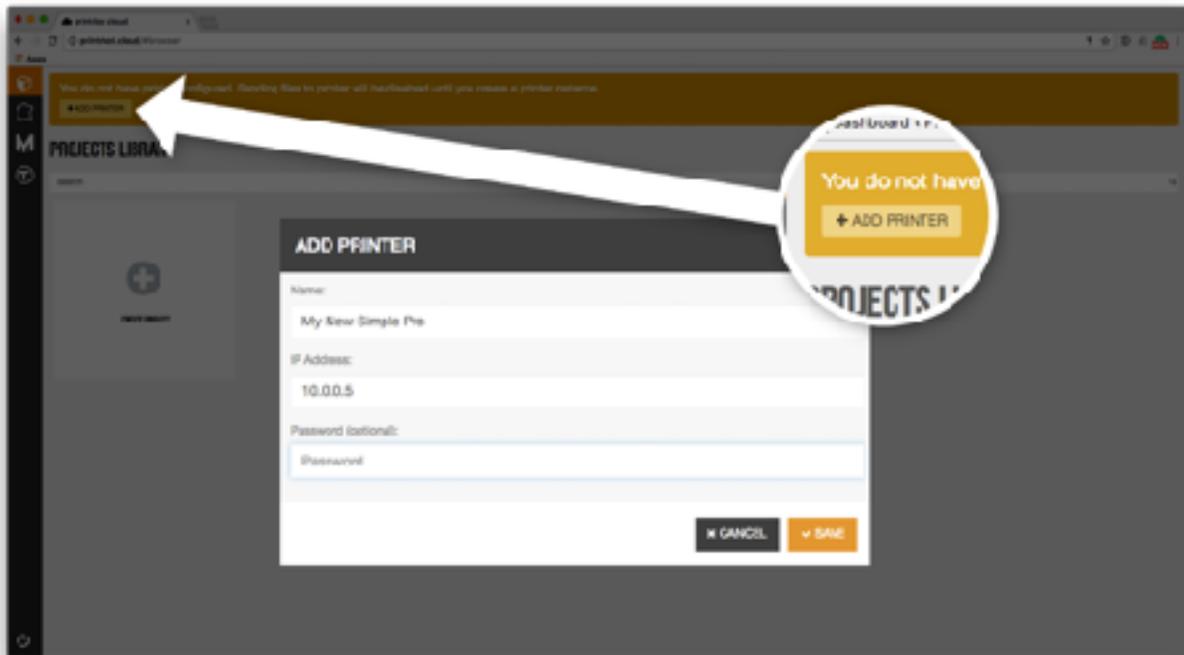
Name: printrbot

WiFi: Local network

IP address: 10.0.1.45

SSID: "My WiFi"

Firmware:

Serial:

ArXt4zpHZ3bCpJU2xyAcM1Z9Gzp9ZpbC

Enter the printer info into your printrbot.cloud account after clicking "ADD PRINTER".

ADD PRINTER
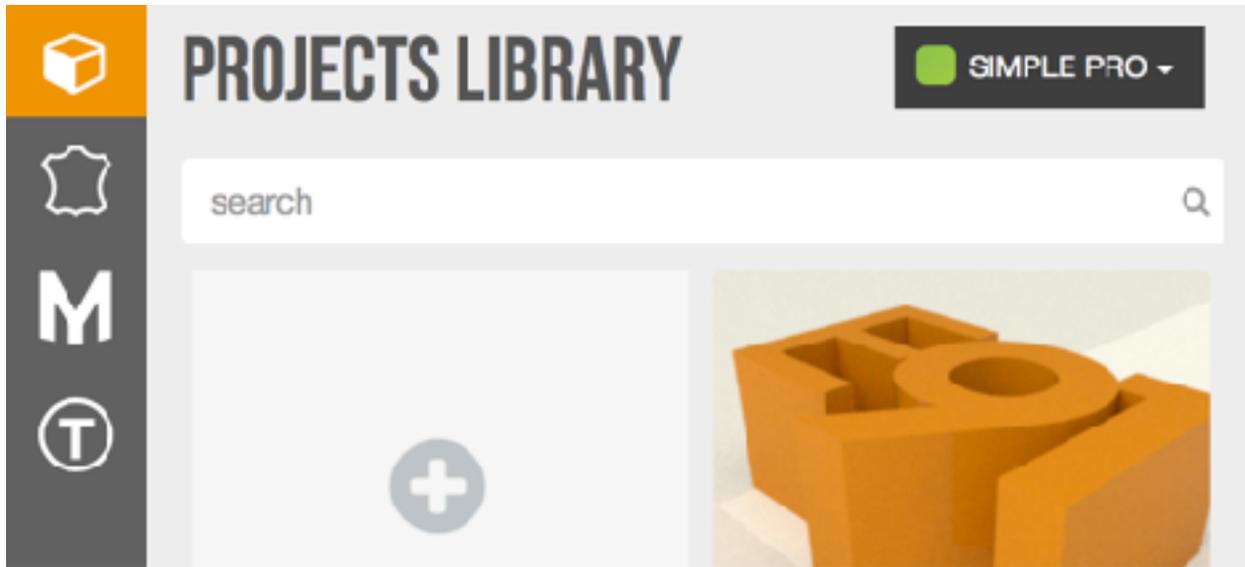
Name:

Simple Pro

IP Address:

10.0.1.45

Password (optional):

Password

✖ CANCEL   ✔ SAVE

You have connected your printer to your printrbot.cloud account and should see the green indicator in the top left of your printrbot.cloud account page. You may need to refresh the page.

Now pick something out to print.
Happy printing!

NOTE: If your Printrbot prompts you to update your firmware, go ahead and update, but DO NOT INTERRUPT THE UPDATE by powering OFF your printer.

Try watching this video on www.youtube.com

Return to Contents

printrbot.cloud: Creating a Project

Visit http://printrbot.cloud/#register to create a Printrbot Cloud account. After verifying your account by checking your email and following instructions there, log in at printrbot.cloud/#login.

Once you have logged into your printrbot.cloud account, you will be prompted to add a printer to your cloud account.

After adding your printer, click "CREATE PROJECT".
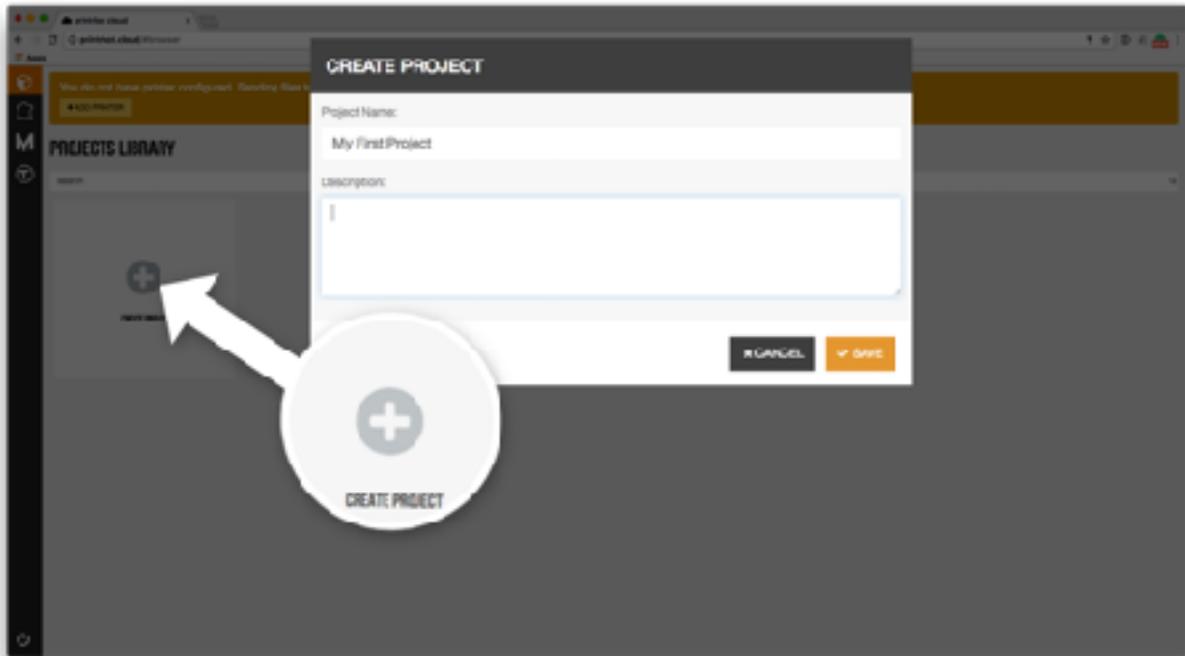
Click "UPLOAD FILE" to add an stl model to your project. ...Free files are available at myminifactory.com, youmagine.com or thingiverse.com.

After your file has been uploaded, click "SEND TO PRINTER" to upload the project to your Simple Pro. You will see a "downloading" status message on the LCD screen of your printer.

Once your project appears on your printer, select "open" on the LCD screen, swipe to choose the print job (file) and select "Print". The printer will download the job and begin the print. Happy printing!
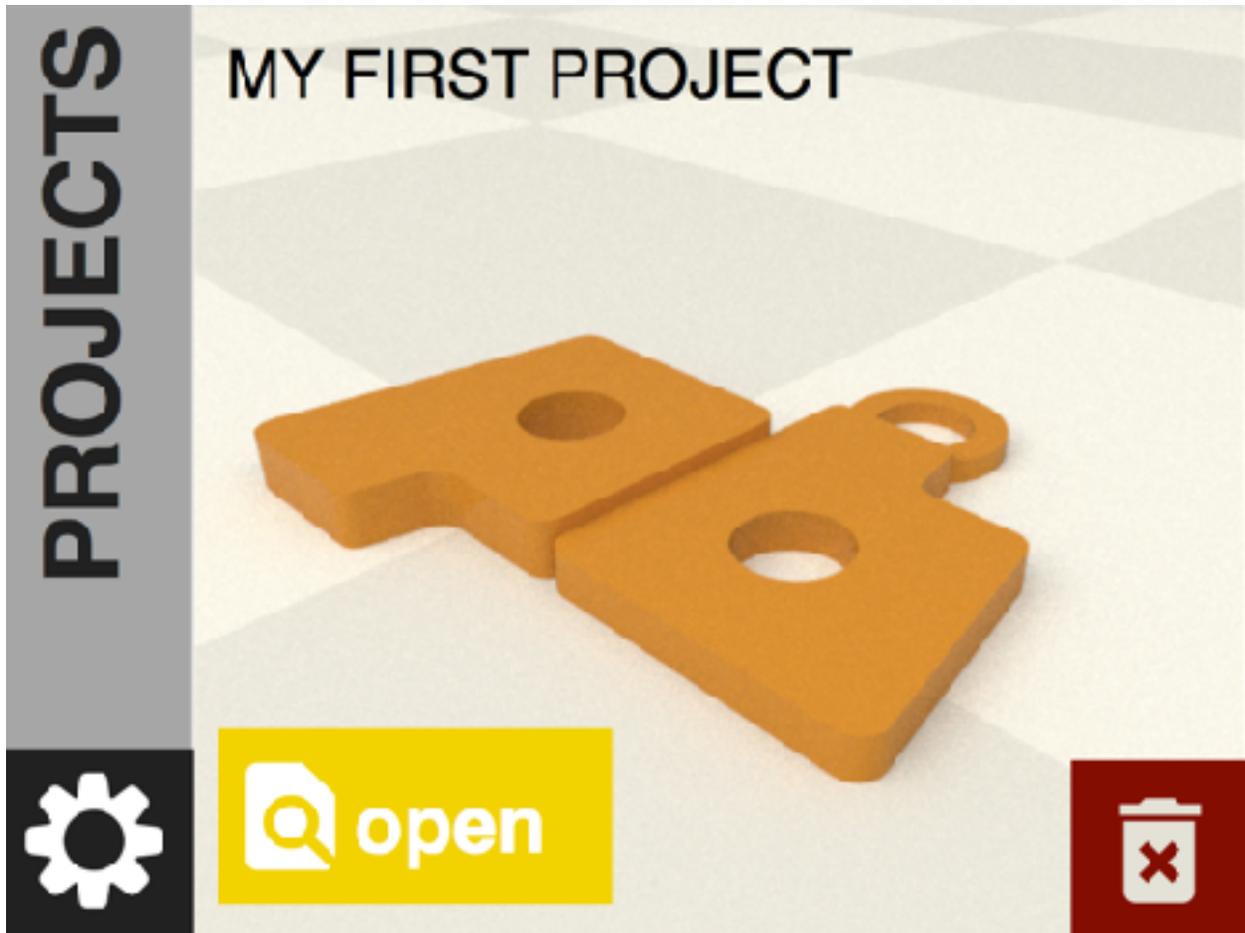
Want to print via USB from your computer? Check out this article: **Printing via USB on Cura 2 with Your Printrbot Simple Pro**

Return to Contents

Resources - Troubleshooting | USB Printing Instructions | Build Instructions | Github