



Quick Start Guide

Set up your new JumpStart V1 3D printer!

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Please contact MatterHackers for questions or assistance.

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10 A.M. to 6 P.M. Pacific Time Monday-Friday

EMAIL

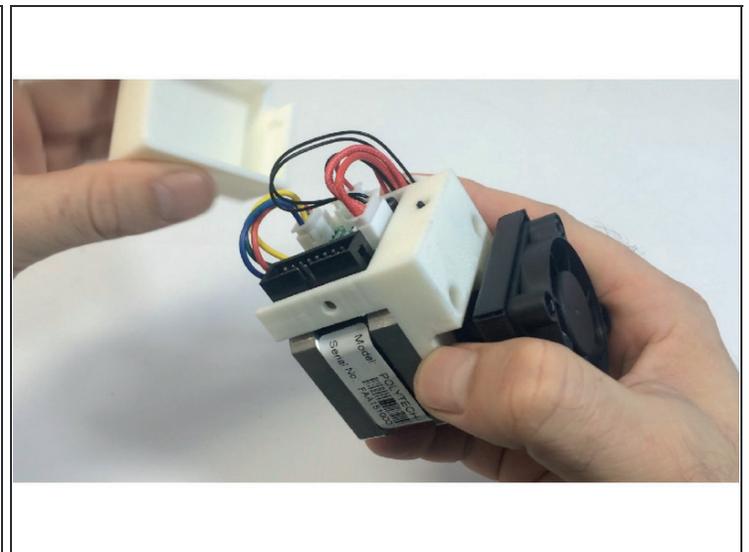
support@matterhackers.com

Step 1 — Unbox and inspect



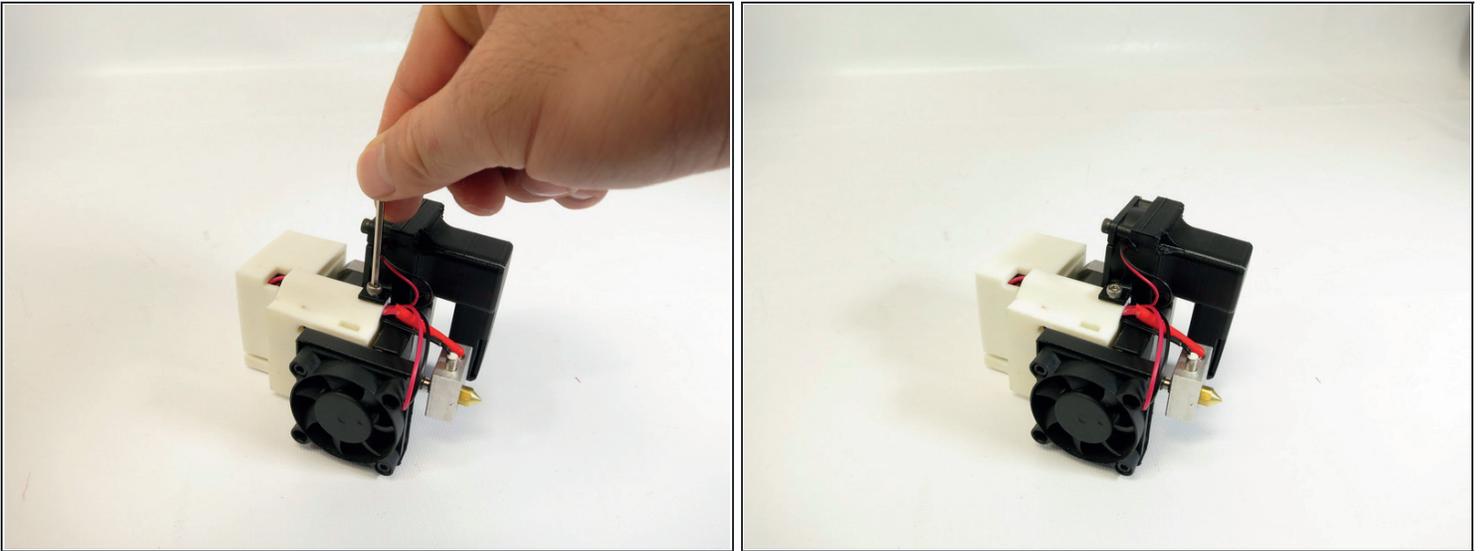
- Unbox the printer.
- Remove all tape and Styrofoam packaging.
- Review the package contents list to ensure all contents are present.

Step 2 — Remove cover



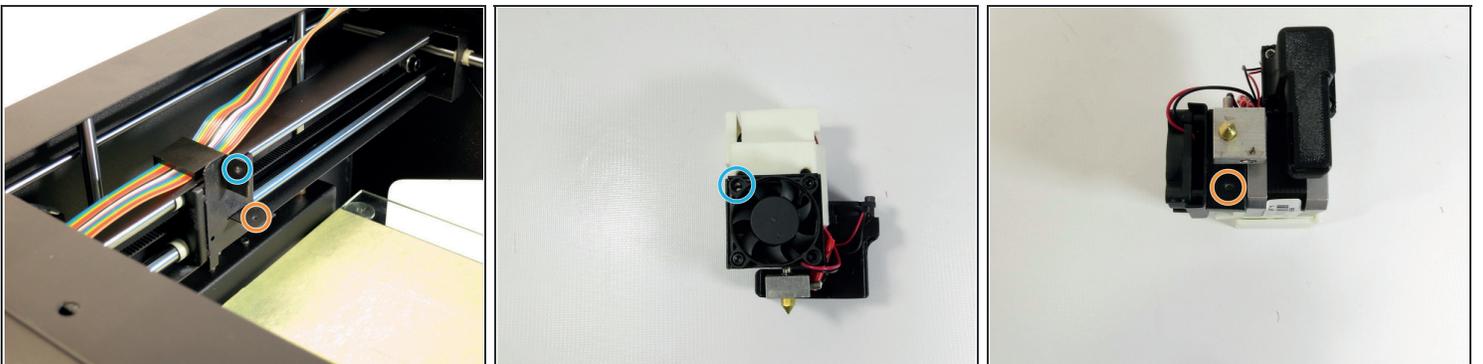
- Remove the plastic cover from the top of the hot end.
- The piece is held on tension; there are no screws to remove.

Step 3 — Attach layer-cooling fan and shroud to hot end



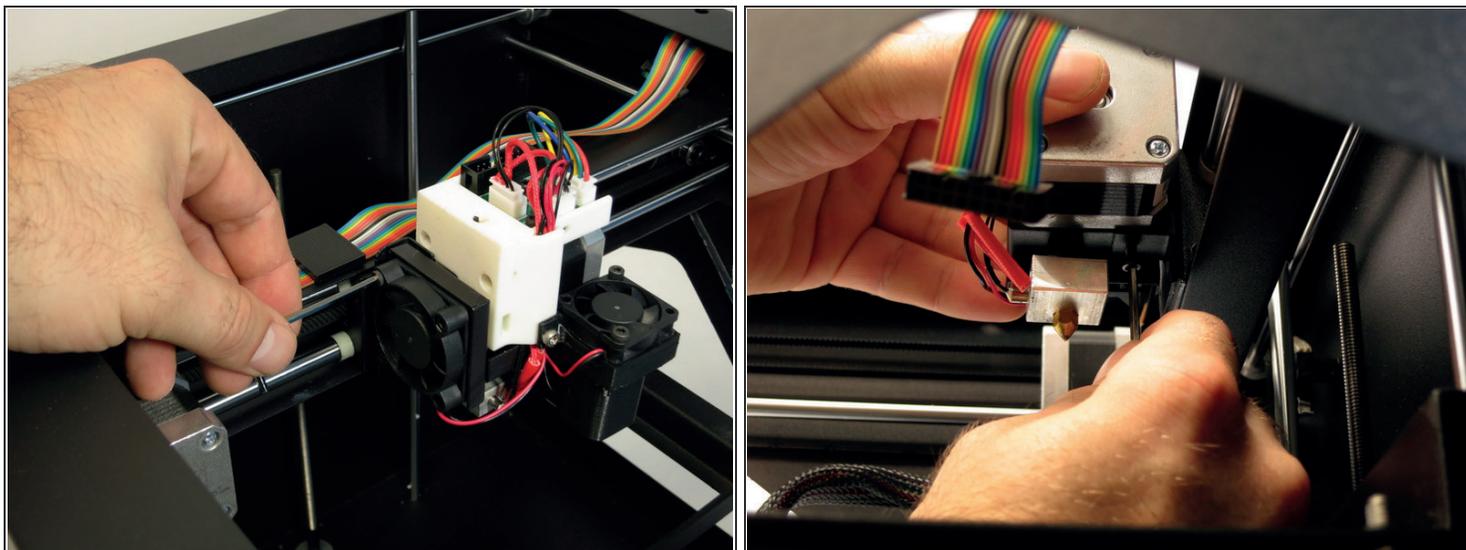
- Slide the layer-cooling fan shroud onto the wire guide and install the short stainless steel M3 screw as shown.
- The layer cooling fan wires should fit in the wire guide along with the other wires coming from the hot end.

Step 4



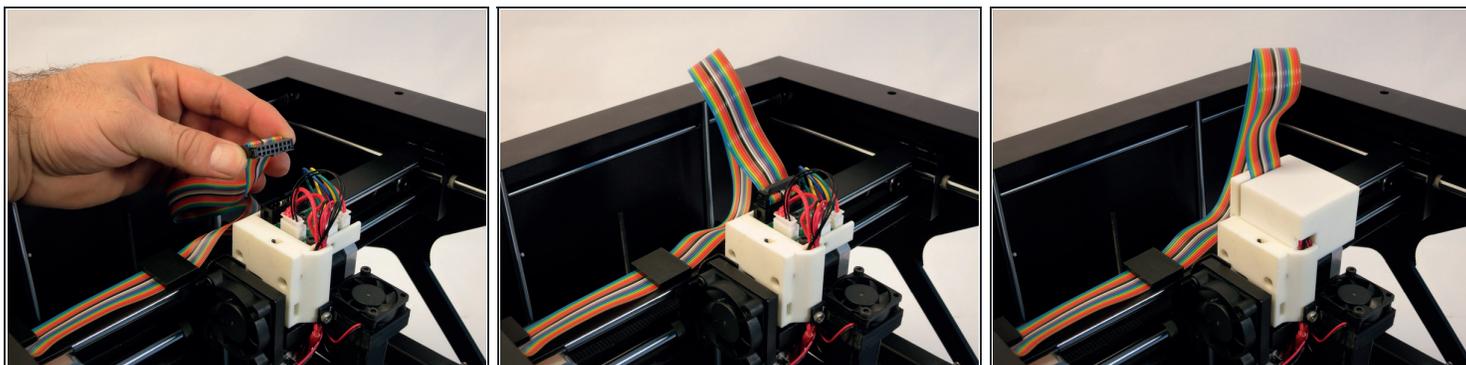
- Basically, the hot end will mount to the bracket using the holes as shown.
 - The upper mounting bracket matches with the hole at the top left of the fan.
 - The lower mounting bracket matches with the hole on the underside of the hot end, near the heat block.
- Slide the carriage toward the front of the printer to allow for easier access during assembly.

Step 5



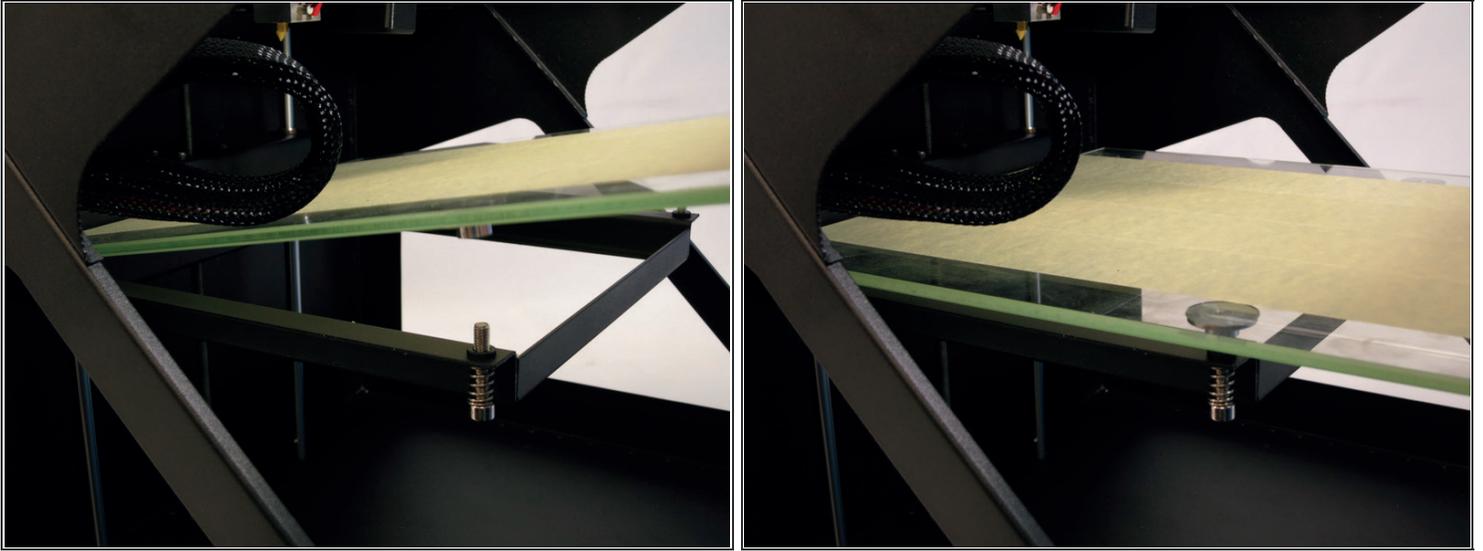
- Insert the longer M3 screw through the top left hole on the fan and loosely thread it into the upper mounting bracket.
- Thread the shorter M3 screw into the hole on the lower mounting bracket (shown here without the layer-cooling fan and shroud for clarity).
- Once both screws are threaded successfully, tighten one then the other.

Step 6



- Plug the ribbon cable into the slot, making sure to line up the tab as shown.
- Reattach the plastic hot end cover.

Step 7 — Install the print bed



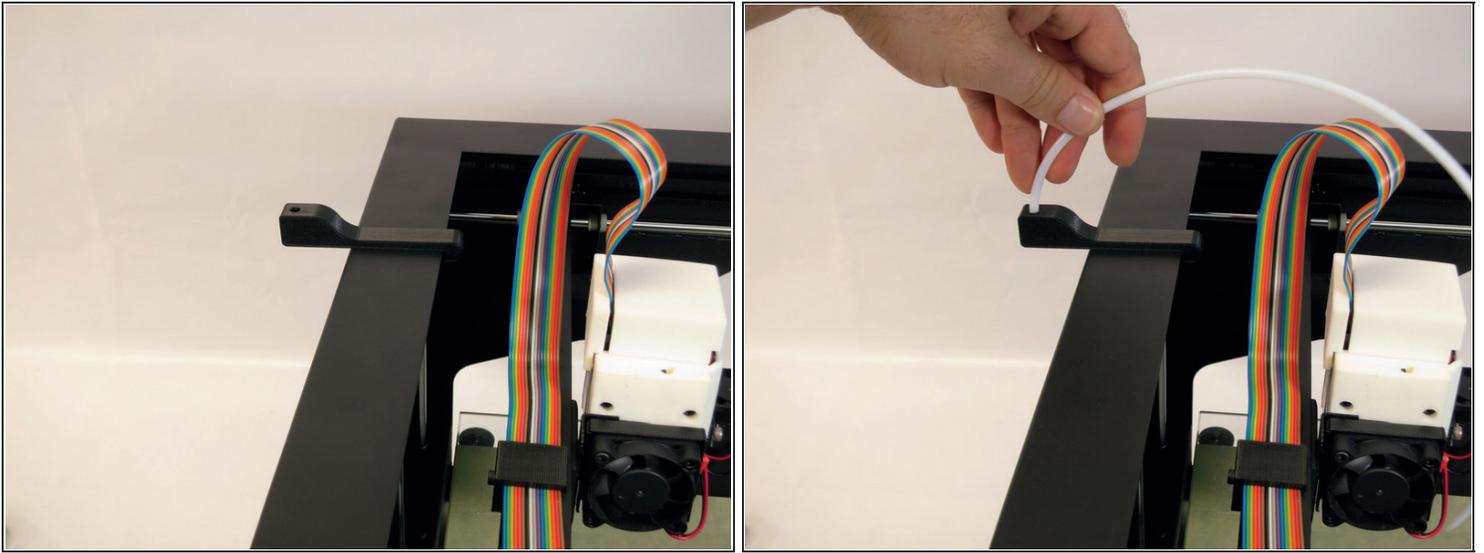
- Install the glass plate onto the screw mounts as shown.
- Don't worry about leveling the bed yet. That will be done in a later step.

Step 8 — Attach the spool holder



- Attach the spool holder to the back of the printer.

Step 9



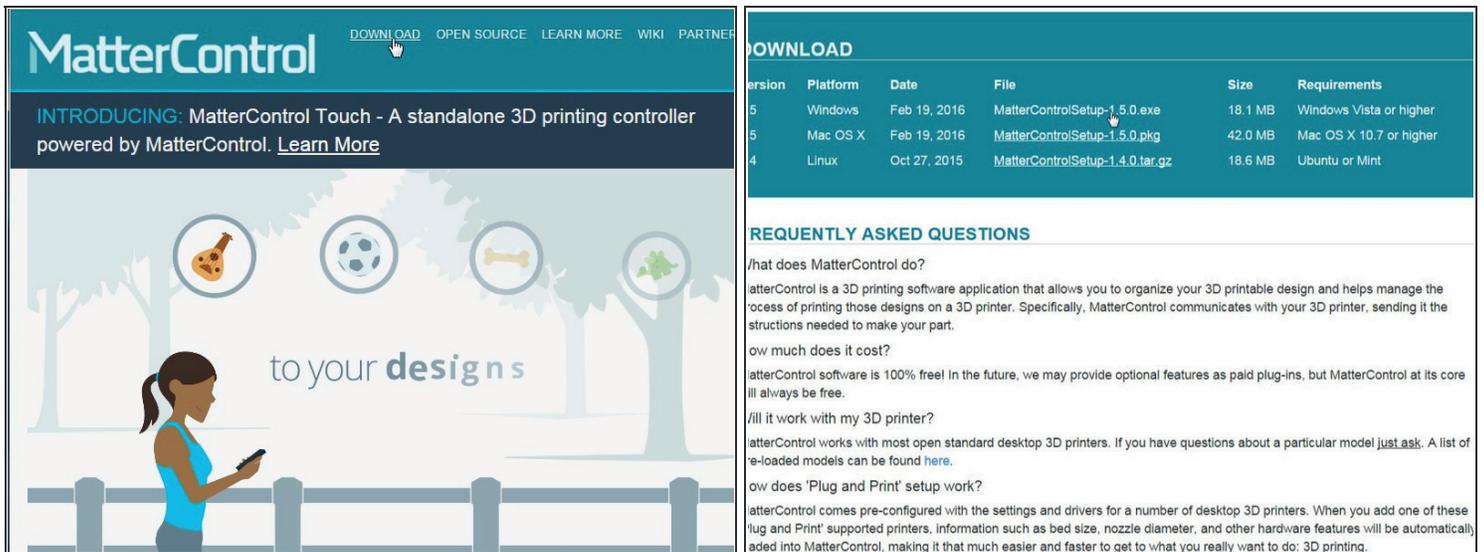
- Attach filament guide clip and tube.

Step 10 — Power on



- Connect the printer to power.
- Flip the power switch to the **on** position.

Step 11 — Download/Install MatterControl



DOWNLOAD

Version	Platform	Date	File	Size	Requirements
1.5.0	Windows	Feb 19, 2016	MatterControlSetup-1.5.0.exe	18.1 MB	Windows Vista or higher
1.5.0	Mac OS X	Feb 19, 2016	MatterControlSetup-1.5.0.pkg	42.0 MB	Mac OS X 10.7 or higher
1.4.0	Linux	Oct 27, 2015	MatterControlSetup-1.4.0.tar.gz	18.6 MB	Ubuntu or Mint

FREQUENTLY ASKED QUESTIONS

What does MatterControl do?
MatterControl is a 3D printing software application that allows you to organize your 3D printable design and helps manage the process of printing those designs on a 3D printer. Specifically, MatterControl communicates with your 3D printer, sending it the instructions needed to make your part.

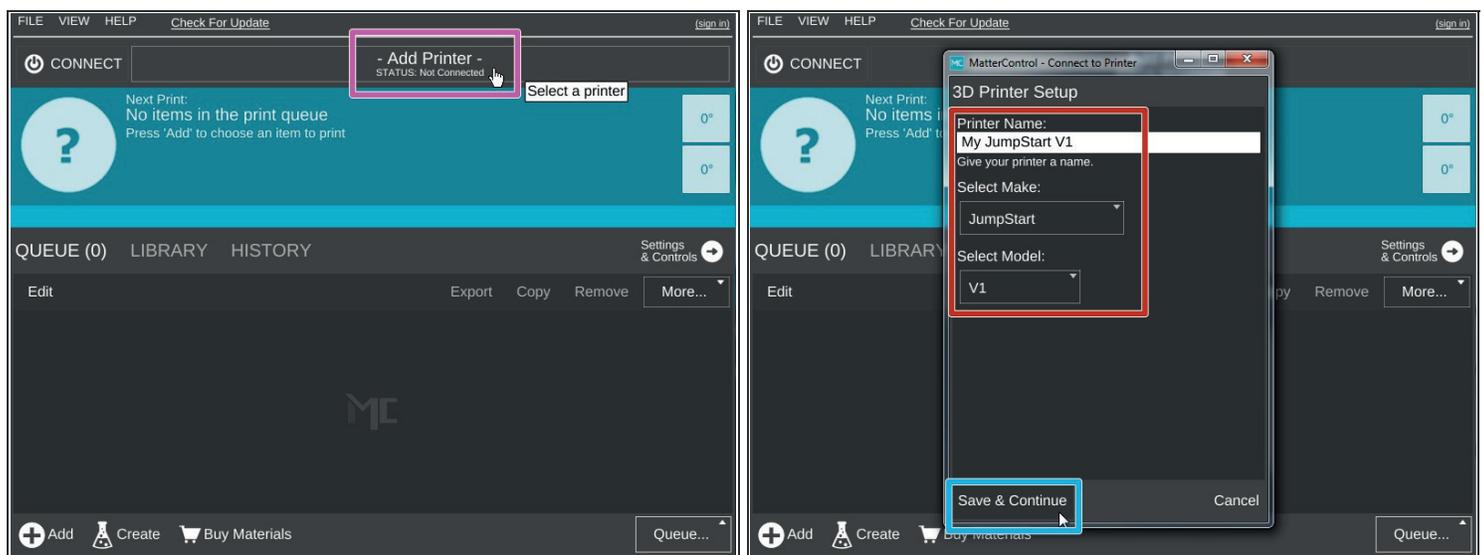
How much does it cost?
MatterControl software is 100% free in the future, we may provide optional features as paid plug-ins, but MatterControl at its core will always be free.

Will it work with my 3D printer?
MatterControl works with most open standard desktop 3D printers. If you have questions about a particular model [just ask](#). A list of re-loaded models can be found [here](#).

How does 'Plug and Print' setup work?
MatterControl comes pre-configured with the settings and drivers for a number of desktop 3D printers. When you add one of these 'Plug and Print' supported printers, information such as bed size, nozzle diameter, and other hardware features will be automatically added into MatterControl, making it that much easier and faster to get to what you really want to do: 3D printing.

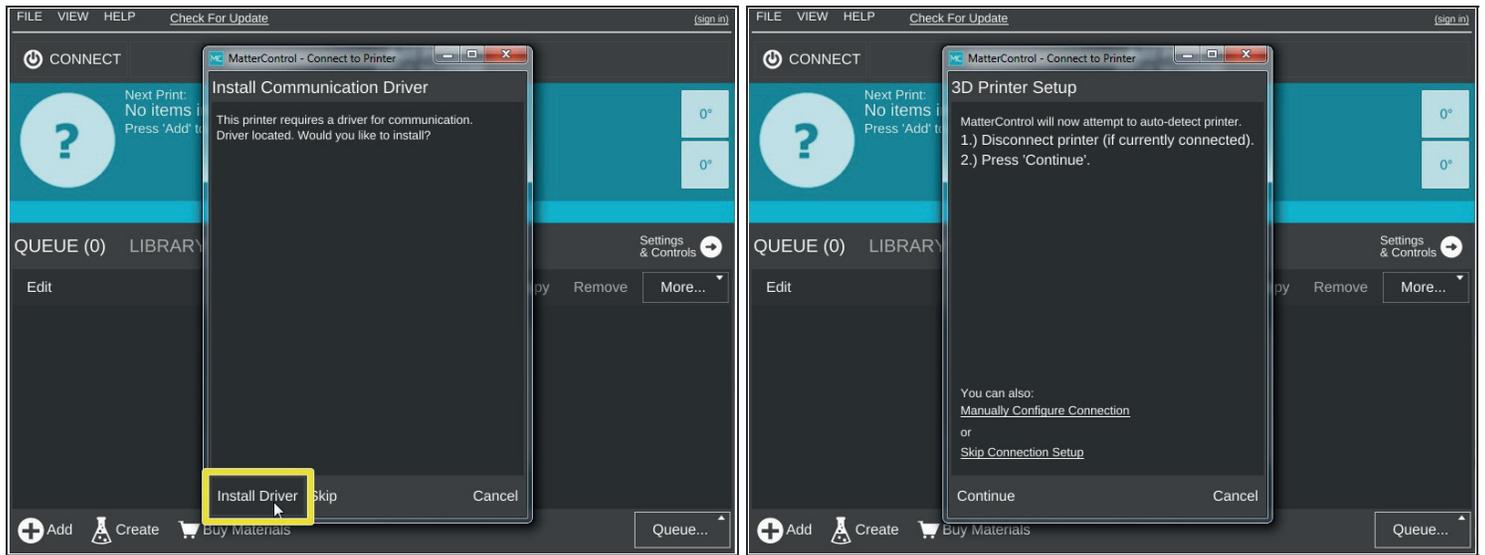
- The SD card included with the printer contains files for installing MatterControl software.
- Alternatively, you can navigate to MatterControl.com and download the latest version of MatterControl.
- Install and launch the program.

Step 12 — Add the JumpStart



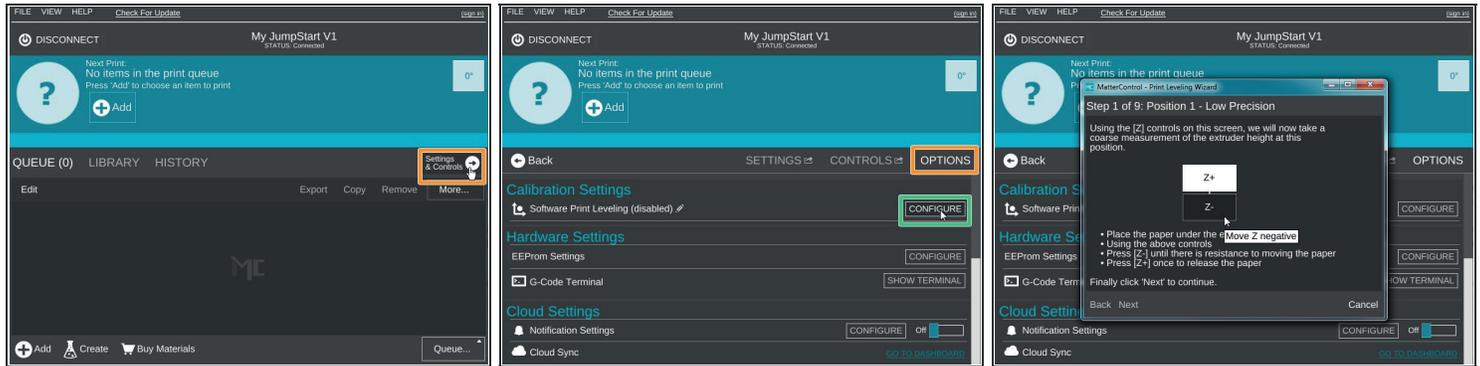
- Click **Add Printer** to open the Printer Setup Wizard.
- Give the printer a name and select **JumpStart V1** from the drop down menus.
- Click **Save & Continue** when finished.

Step 13 — Install driver and connect



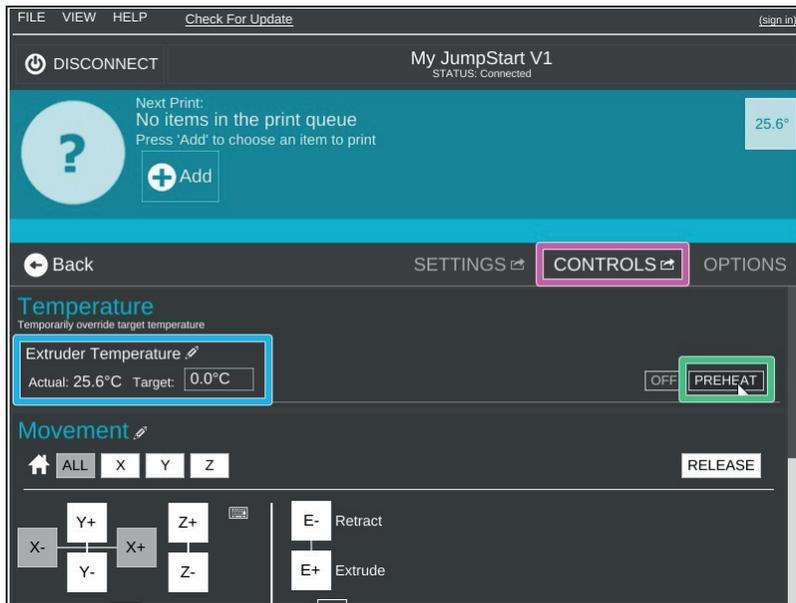
- MatterControl will prompt you to install the driver for the JumpStart. Select **Install Driver**.
- Next, MatterControl will attempt to auto-detect the JumpStart and connect. Follow the on-screen directions to connect to the JumpStart.

Step 14 — Bed leveling



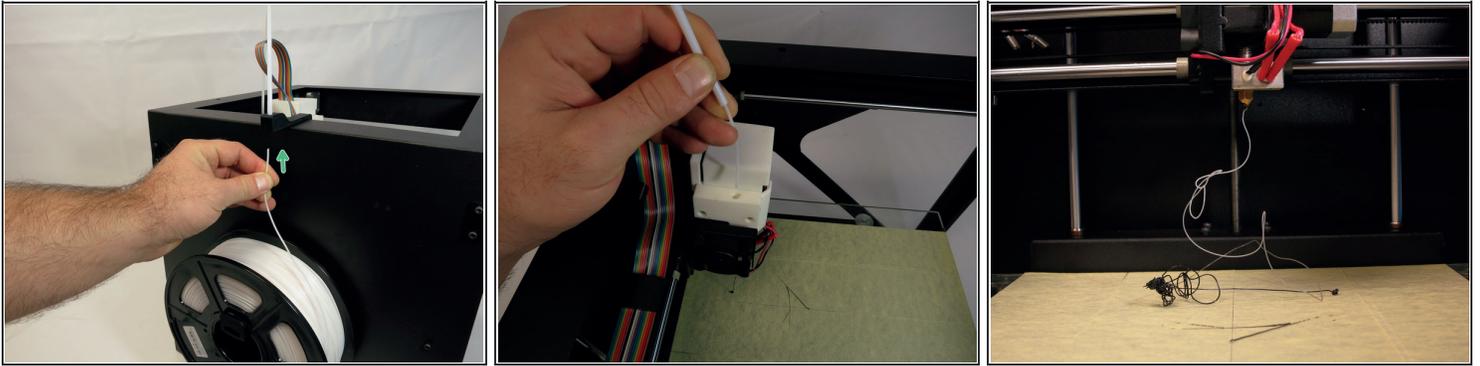
- Before printing, the bed must be level.
- Click on **Settings & Controls**, and navigate to the **OPTIONS** tab.
- The first section is **Calibration**, which contain the **Software Print Leveling** options.
- Click **Configure** to begin the bed leveling wizard. The wizard will take approximately three minutes to complete. The only thing you'll need is a sheet of paper.
- MatterControl will move the printer head to three different points above the bed. At each point you will be instructed to move the print head down to just above the bed until you're just barely pinching the piece of paper between the nozzle and the bed. Click **Done** when the wizard finishes to save your auto-leveling data.

Step 15 — Preheat nozzle



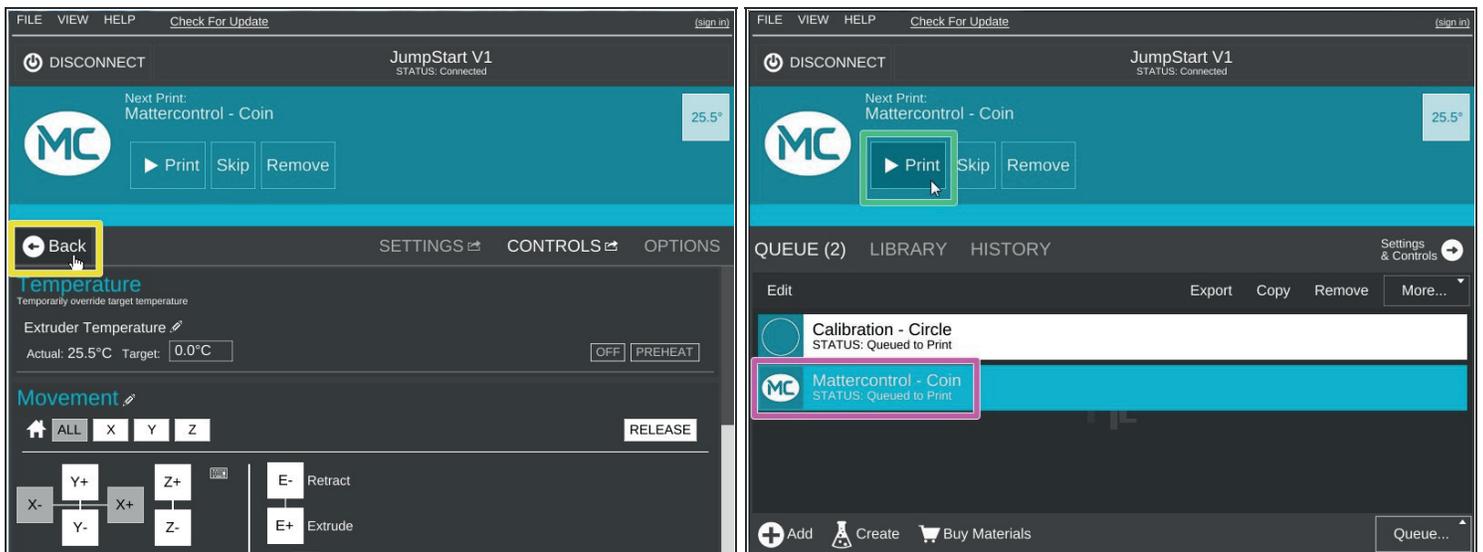
- With the bed leveling complete, the last step before printing is to load the filament.
- Navigate to the **Controls** tab.
- The actual Extruder Temperature is reported. Next to it is the Target temperature. To start, the only available preset option is **Preheat**. Preheat will heat the nozzle up to the temperature currently [specified in the settings](#). The default profile has the extrusion temperature set to 205C.
- Click Preheat and wait for the temperature to reach 205C.
- Temperature can also be manually input in the Target box. You can also create [presets](#) by clicking the pencil icon next to Extruder Temperature.

Step 16 — Load filament



- When the nozzle reaches 205, use the [E+ button](#) with 10mm selected to extrude the piece of filament left over from testing. You'll need to hit the button more than once.
- Once the test filament no longer comes out of the nozzle, feed the new roll of filament through the filament guide and tube and insert the end into the hole on the top of the hot end.
- Extrude and feed the new filament into the hole until it catches onto the gear, then select 100mm and continue to extrude until it comes out of the nozzle.

Step 17 — First print



- Once the filament is loaded, navigate to the Queue by clicking the **Back** button.
- Select the **MatterControl - Coin** model.
- Click **Print**.