Quick Start Guide

Set up your new JumpStart V1 3D printer!

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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 my 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

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

1. Before printing, the bed must be level.
2. Click on **Settings & Controls**, and navigate to the **OPTIONS** tab.
3. The first section is **Calibration**, which contain the **Software Print Leveling** options.
4. 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.
5. 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 205°C.

- Click Preheat and wait for the temperature to reach 205°C.

- 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.