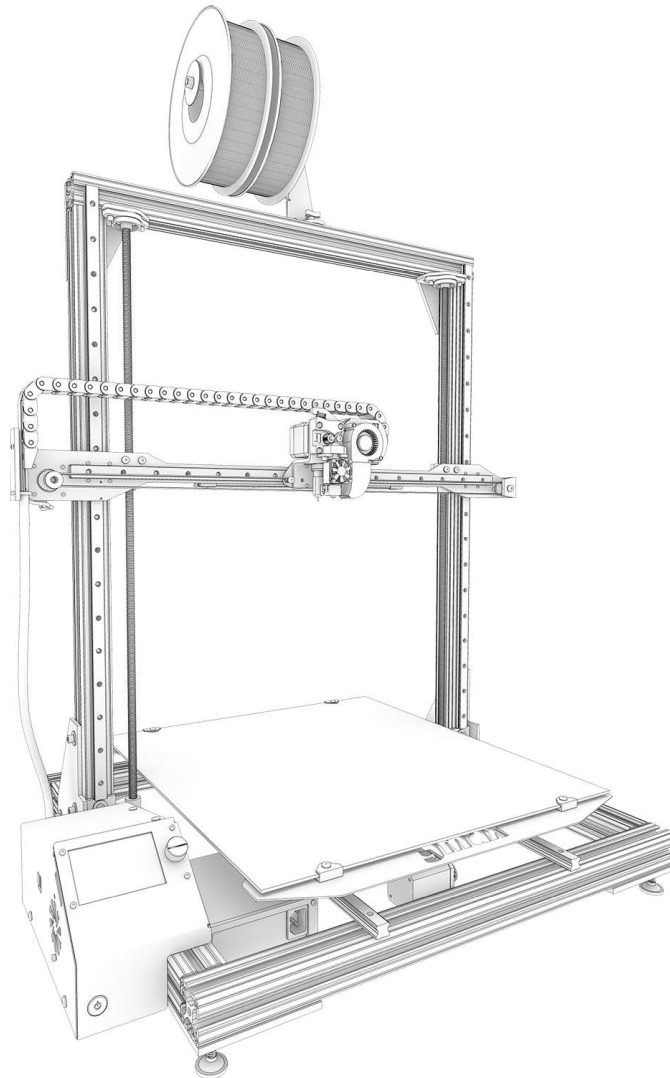# gMax 2 PRO
Unboxing and Setup

v210707

For Single and Dual Extruders

This guide should be used for the initial unboxing and setup of your gMax2 3D printer.
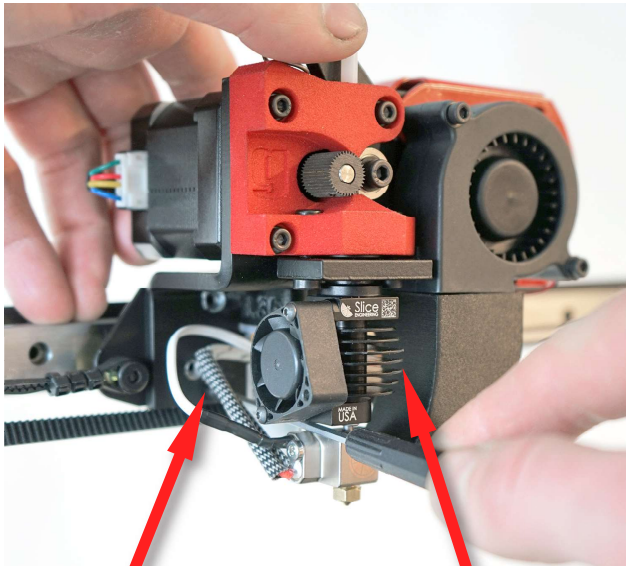*Please Use the additional guide for the first use of your printer.*

Make sure to inspect the printer through the unboxing process for loose wires or damage. Retain the original packaging for future use.

Install Extruder

Images show a <u>Single extruder</u>. Pages 1-5 follow the same installation process for both <u>Single</u> and <u>Dual</u> Extruders
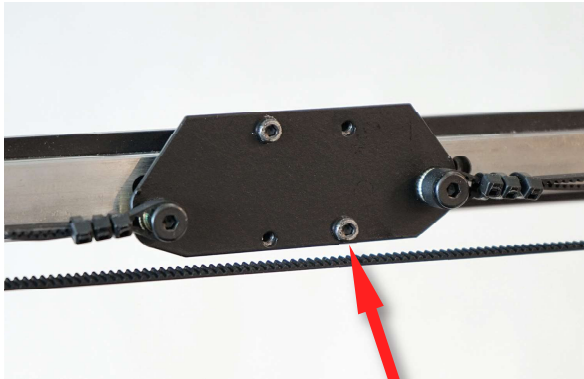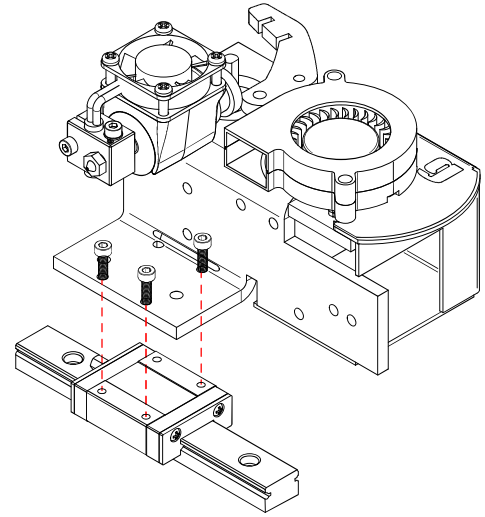

Remove this
M3x8mm bolt

1. Open the accessory box and remove the extruder and hardware. The extruder needs to be installed on the linear block using (3) M3x8mm socket head screws. The extruder will go over the belt bracket already installed

2. Use the supplied 2.5mm hex driver to install (3) screws on extruder bracket.

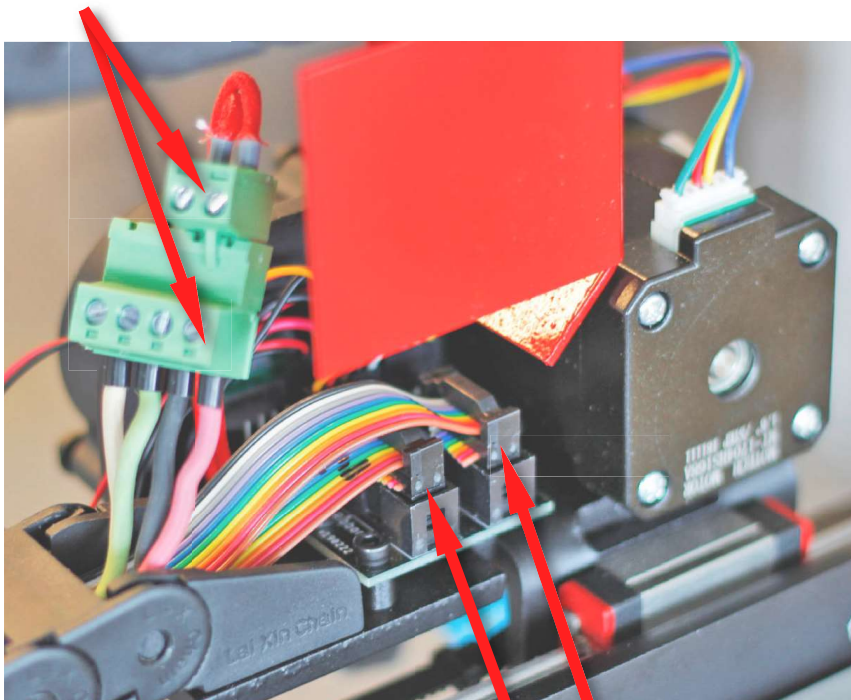3. Tighten all (3) screws and make sure the extruder slides smoothly on the linear rail.

Install extruder with
(3) M3x8mm bolts

Other (2) screws are
on right side of hotend
(hidden from view)

M3x8mm
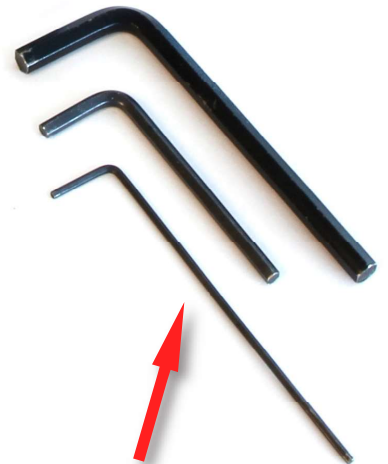
2.5mm Driver

Plug In Extruder

Flip Up
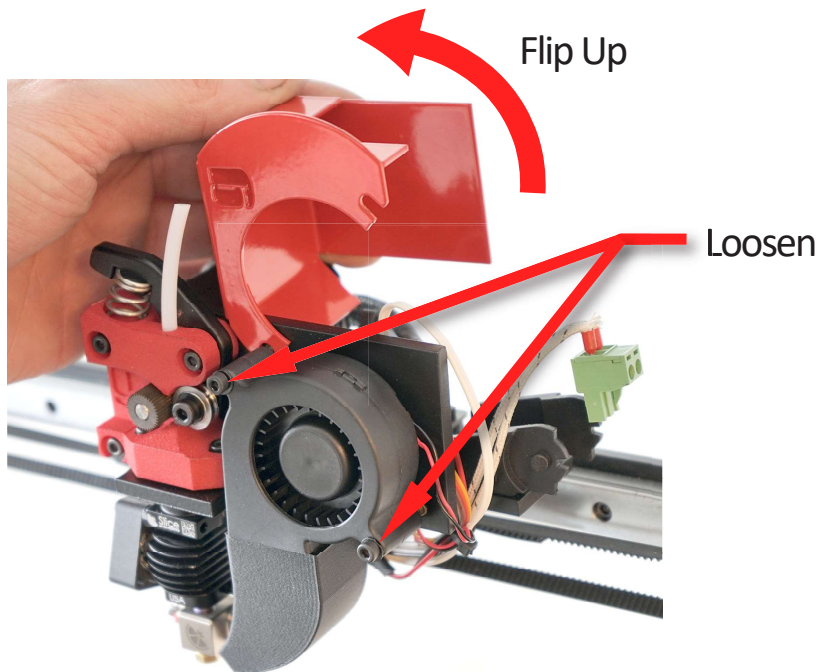
Loosen

Plug green connector to red/black wires for hotend #1 and green/white wires for hotend #2 (for dual extruder setups).

1. Loosen the two bolts on the extruder blower fan to gain access to the electronics.

2. Plug in the ribbon cable #1 into the socket closest to the motor and #2 in the other socket.

3. Plug the green extruder heating wire connector into the 4-pin green connector. Make sure to plug it into the black and red wires for a single extruder.
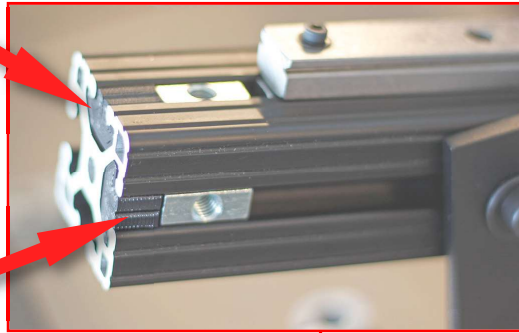
Note

The green and white wires are for the second hotend on dual extruder setups..

4. For dual extruders plug hotend #1 into the red/black wires and hotend #2 in the green/white wires.

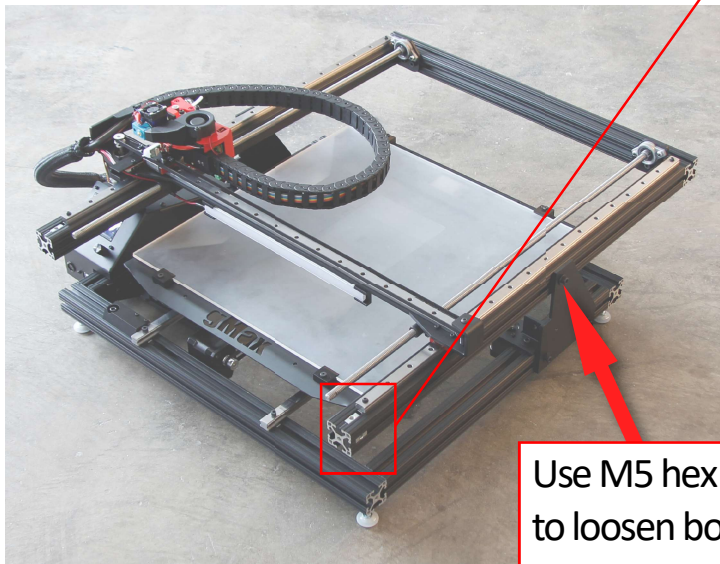5. Rotate metal cover back down when finished, and tighten bolts.

Ribbon Cable #1

Ribbon Cable #2

Rotate Upper Gantry

Tall Rubber Spacer

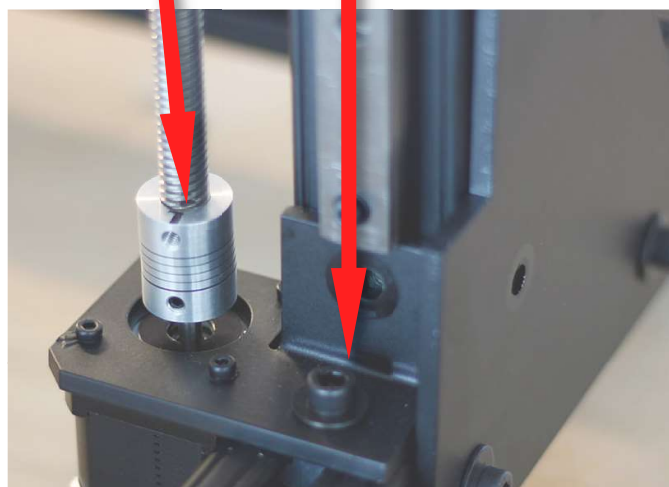Short Rubber Spacer

Use M5 hex key to loosen bolts on both sides.

Slide Down Upper Gantry

Slide into coupler

Slide until flat against the lower frame

1. Slide the upper rails down until they lay flat against the lower frame. Make sure the lead screw slides all the way into the coupler. Turn the coupler by hand to ensure a solid connection.

2. In the accessory box, open the bag containing the M6 bolts, washers and set screws.

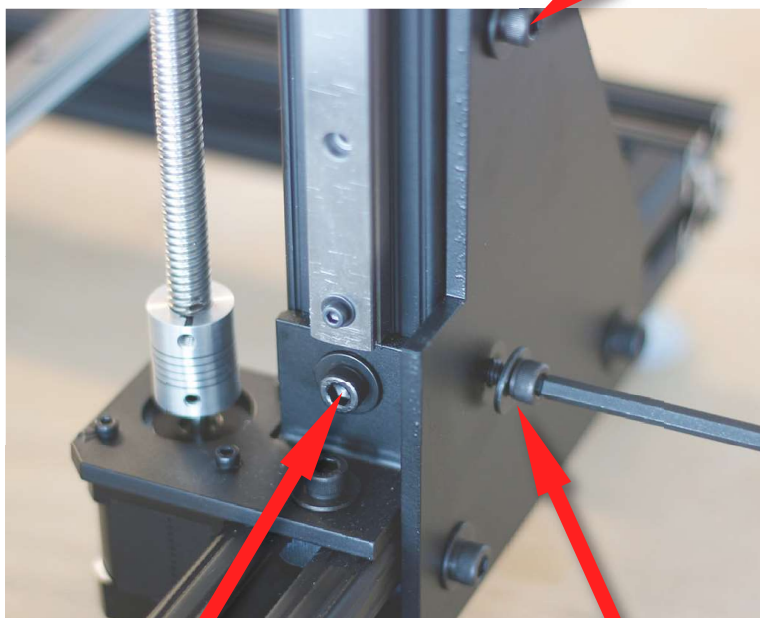3 Screw in the M6 Bolts and washers into the T-nuts already in the vertical rail.

Note

If the rubber spacers pop out they can be easily pressed back in. These spacers help line up the T-Nuts with the holes.
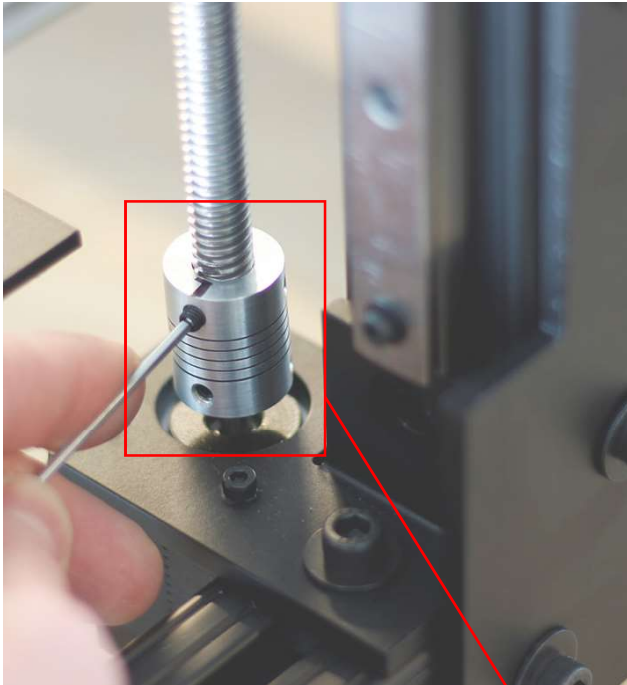
(4) M6 Socket Head Bolts
(4) 1/4" Washers
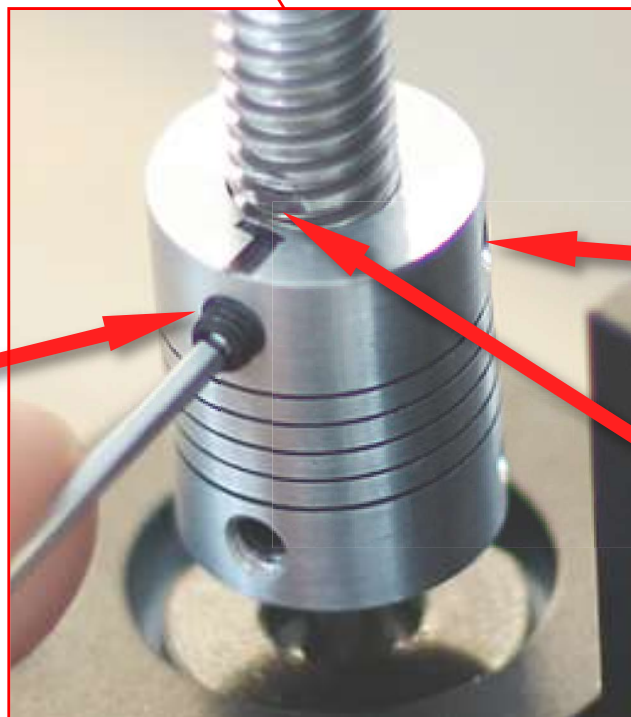

(4) Set Screws

Tighten Bolt

(1) M6 Bolt
(1) 1/4" Washer

(1) M6 Bolt
(1) 1/4" Washer

Tighten Set Screws

1. Line up the coupler set screw with the flat spot on the lead screw and tighten both set screws on each coupler.
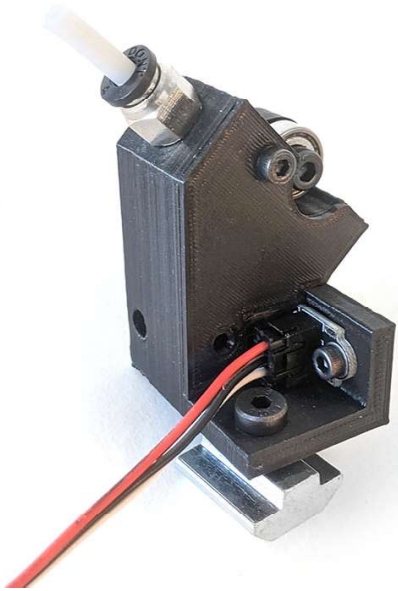
Insert and tighten set screw

Insert and tighten set screw

Match set screw location with the flat spot on the lead screw.
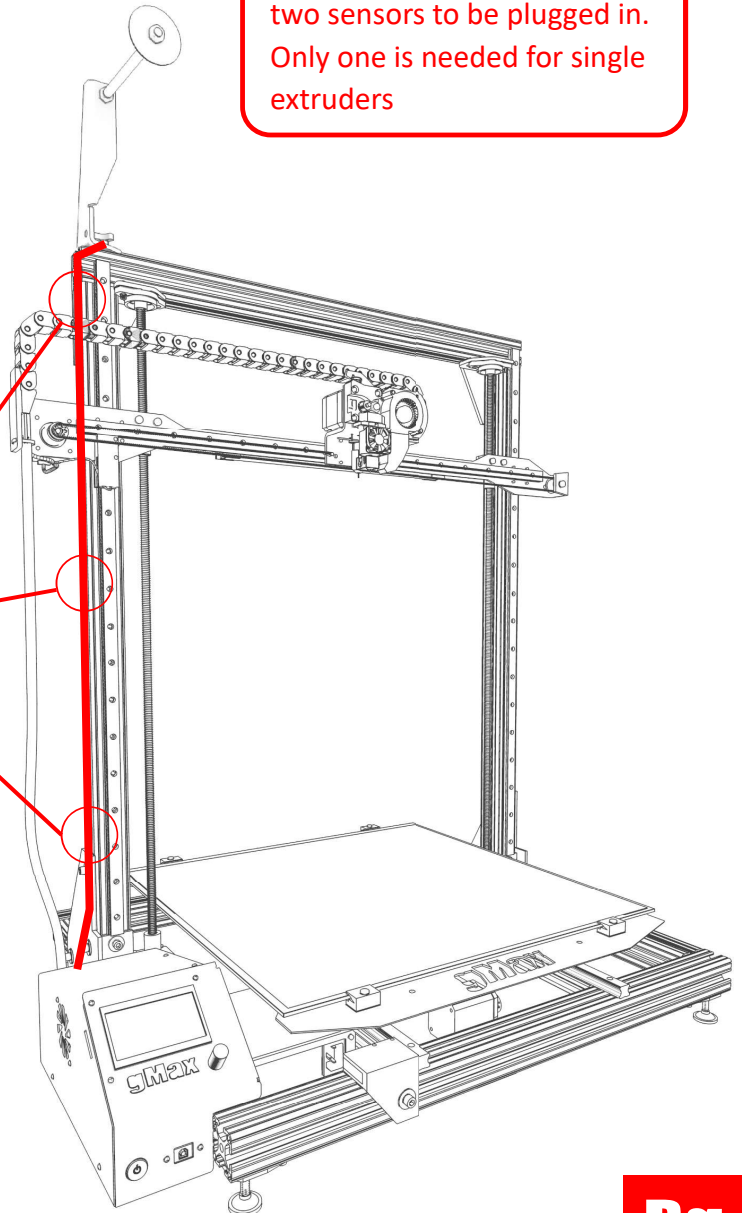
Plug in Filament Run-Out Sensor

1. Plug in the (red, black, white) filament sensor wire from the runout sensor to the back of the printer in the spot labeled "Runout".

Note

The runout sensor wire has two connectors to allow for two sensors to be plugged in. Only one is needed for single extruders

2. Route filament sensor wire along inside of 80/20 rail. Use 3d printed wire clips to secure the wire.

Install Filament Spool Holder

1. Loosen the filament spool bracket knob and t-nut.

2. Slide the filament spool bracket on to the **left side of the top rail** and tighten the knob to secure it.

3. Install the runout sensor on the top rail with M6x16mm and tnut. Make sure it lines up with the spool
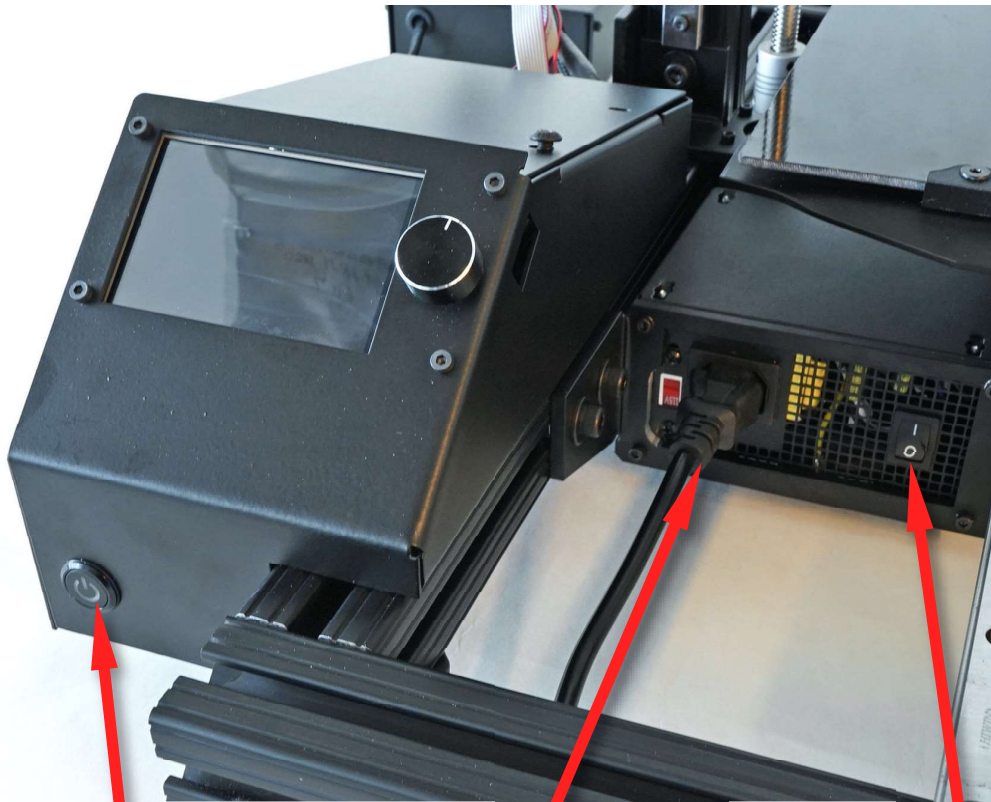
Runout sensor

Tighten 2-Arm
Knob on Rail

Note

The runout sensor can be moved to accommodate different spool sizes or to better line up with the spool orientation.

Plug In and Turn On

1. Use the supplied power cable from the accessory box and plug in the printer.

2. Make sure to turn on the power supply and push the power button on the printer

Turn On Printer   Plug in Printer

Turn On Power Supply

3. Refer to the **"Getting Started Manual"** to start using your gMax 3d printer.