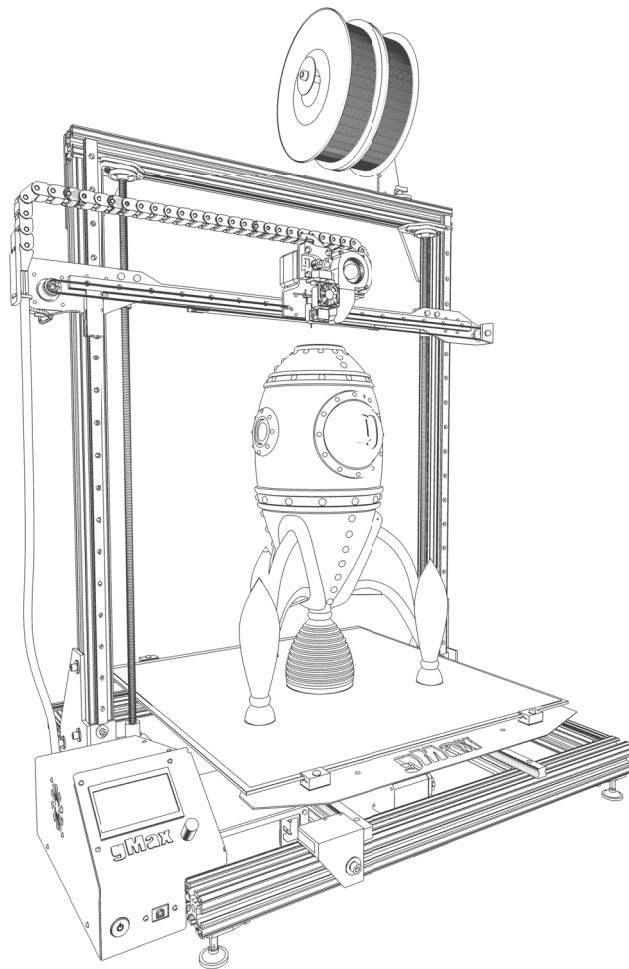# gMax 2
Unboxing and Setup

v190702
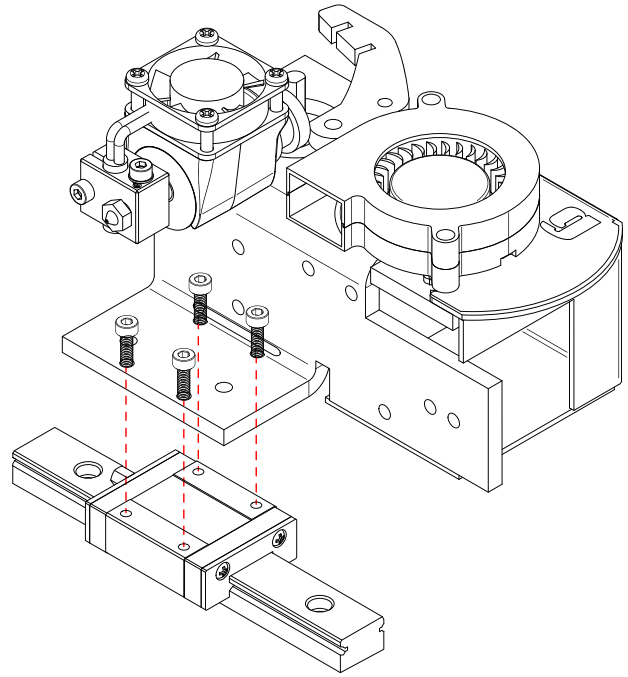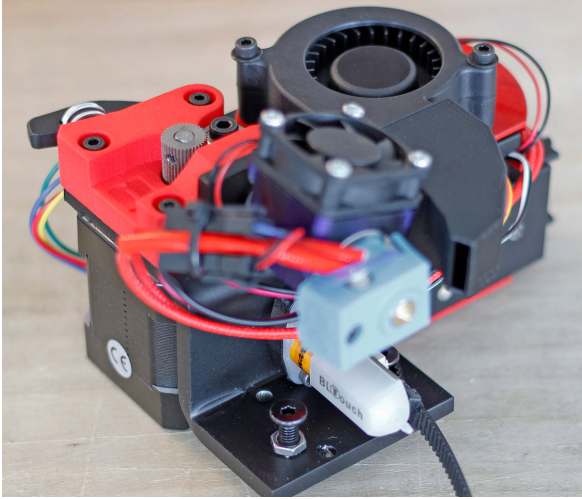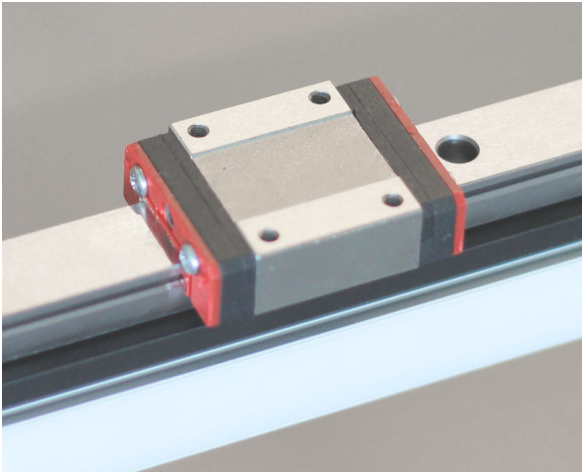

This guide should be used for the initial unboxing and setup of your gMax2 3D printer.
Please Use the additional guide for the first use of your printer.

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

Install Extruder

1. Open the accessory box and remove the extruder and hardware. The extruder needs to be installed on the linear block using (4) M3x8mm socket head screws. Use the supplied 2.5mm hex driver to install screws.
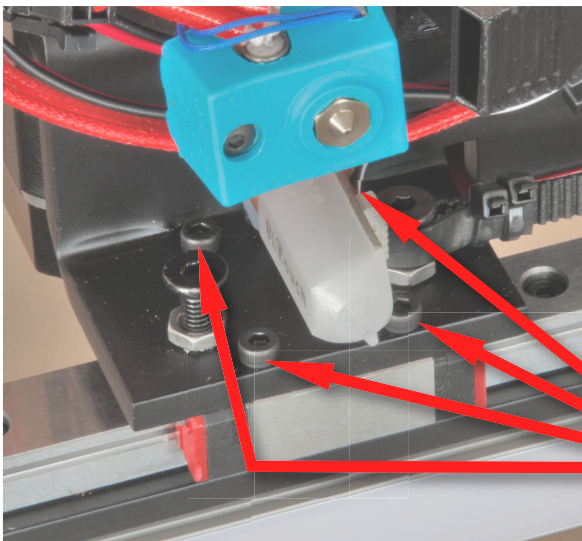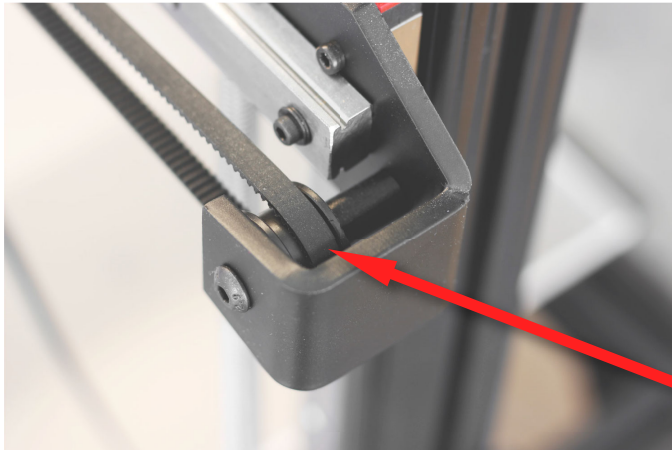
2.5mm Driver

M3x8mm

2. Lightly tighen all (4) screws and make sure the extruder slides smoothly on the linear rail. If the screws are too tight, the movement may be restricted.
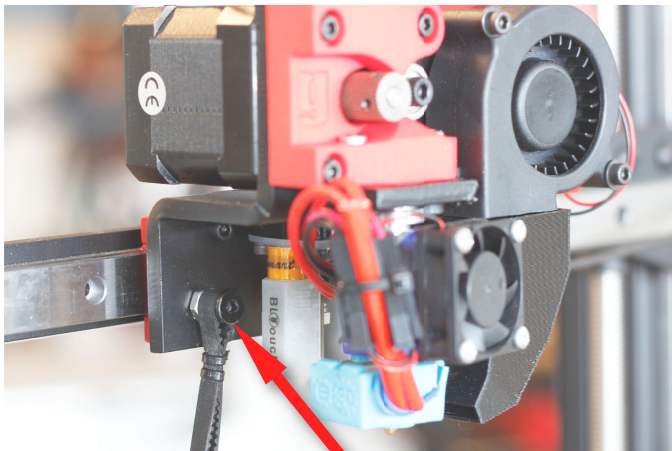
Install extruder with
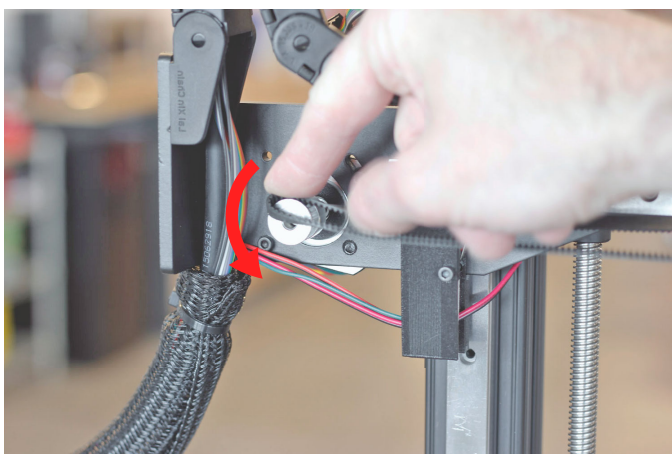(4) M3x8mm

Install X-Axis Belt

Insert belt

1. Loop the x-axis belt around the right idler pulley. Make sure its on the pully and not on the spacer behind.
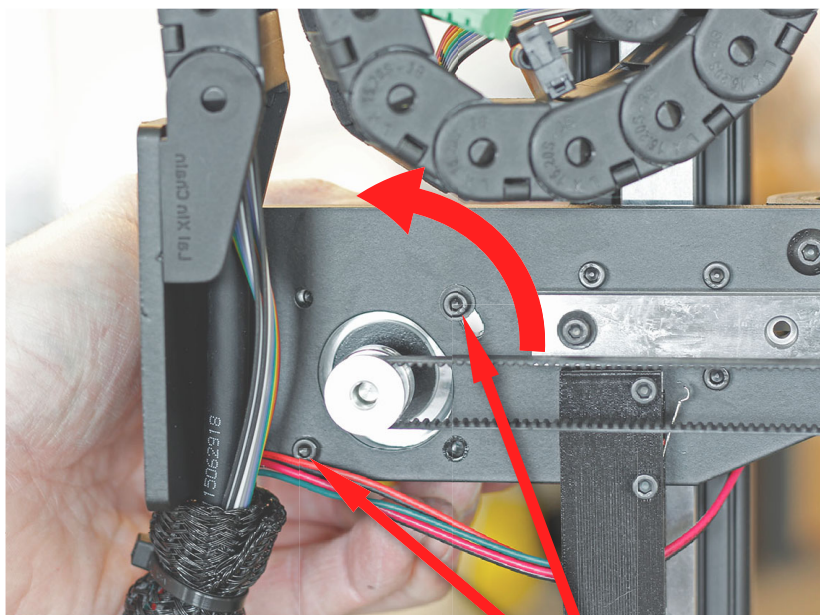

Insert belt

2. Slip the other end of the belt on the bolt on the extruder. Make sure the ribbed side is facing towards the bottom of the extruder and the belt is not twisted.

3. Slide the belt over the toothed gear pulley on the left side of the printer. You can rotate the pulley as you slip the belt over to help the belt slip on.
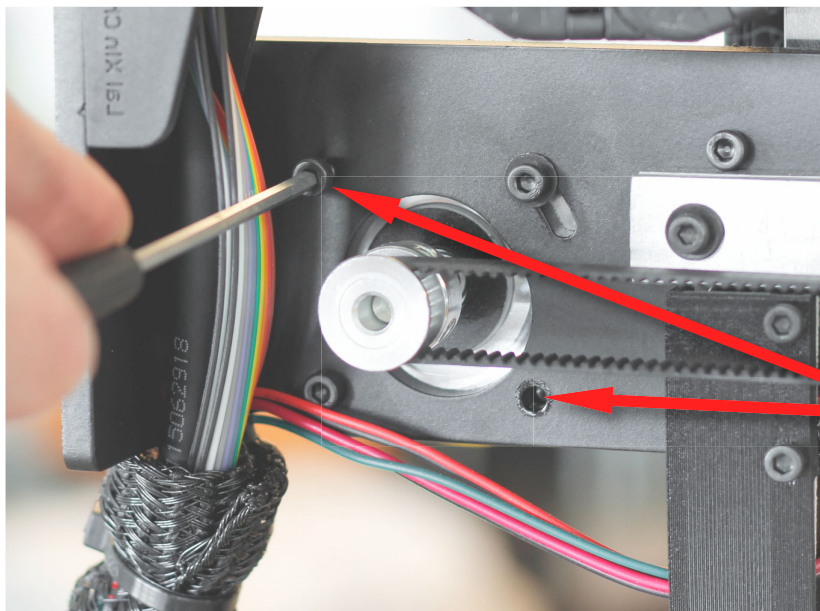
Tension Belt

Loosen

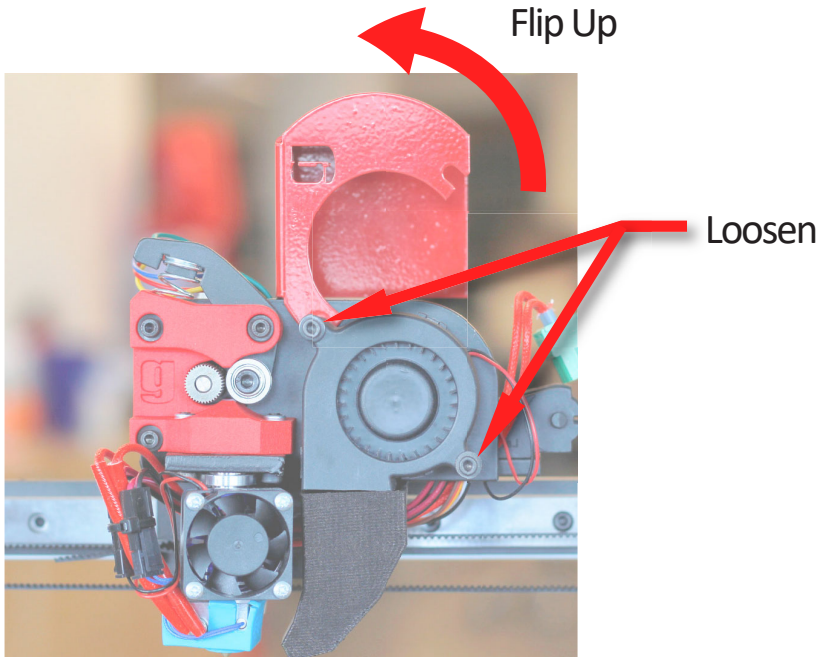1. Loosen the two bolts on the X-Axis motor and rotate the motor up to tension the belt.

2. Insert the other two M3x10mm bolts and tighten all four to a snug fit.

Insert (2) M3x10mm Bolts

Plug In Extruder

Flip Up

Loosen

Plug green connector to red/black wires.

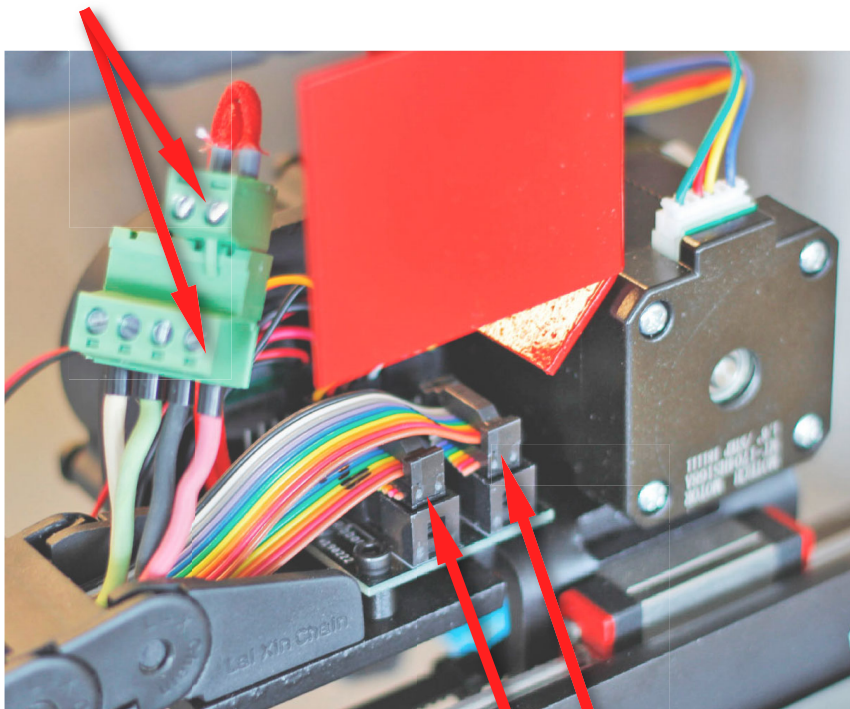Ribbon Cable #1

Ribbon Cable #2

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.

Note

The green and white wires are for a future dual extruder option.
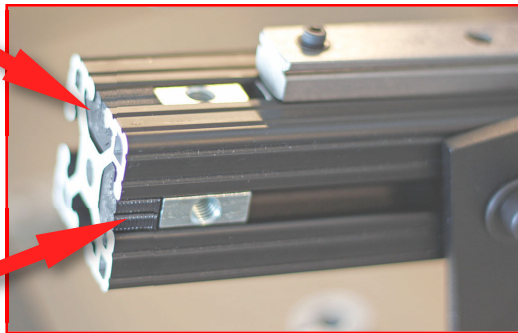
4. Rotate metal cover back down when finished, and tighten bolts.

Rotate Upper Gantry

Tall Rubber Spacer

Short Rubber Spacer
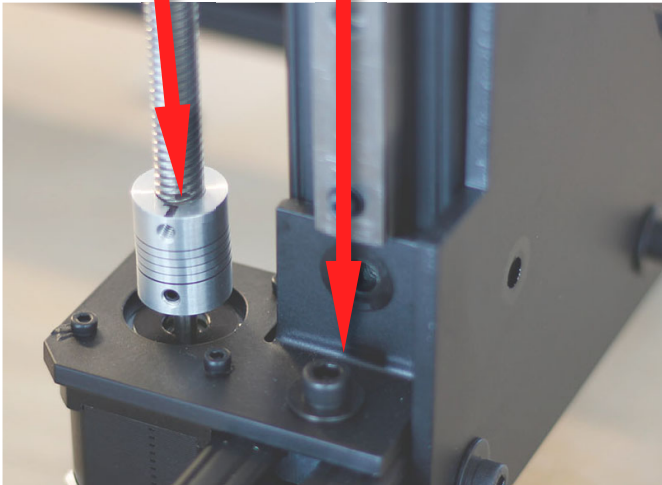
Use M5 hex key to loosen bolts on both sides.

See next Page

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.

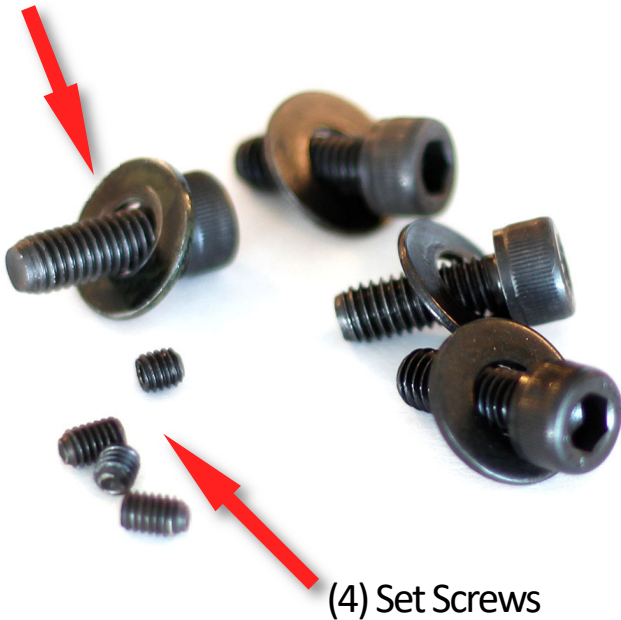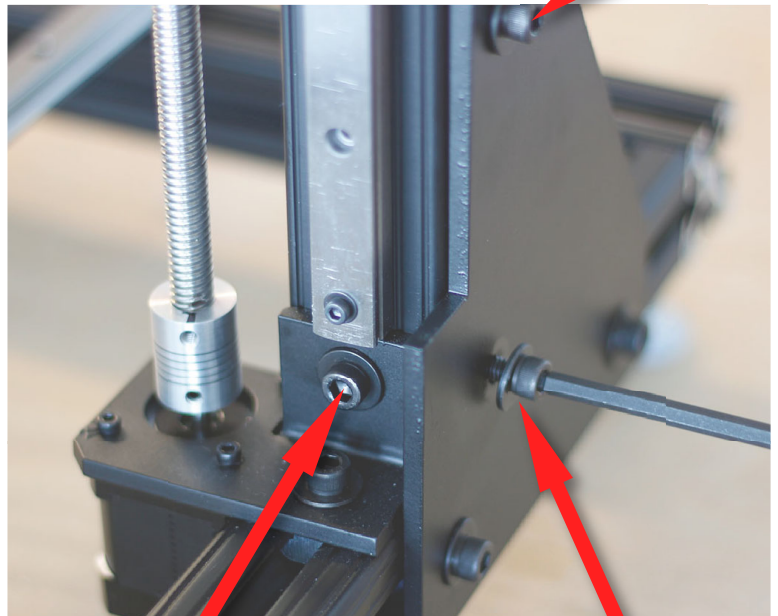3 Screw in the M6 Bolts and washers into the T-nuts already in the vertical rail.

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
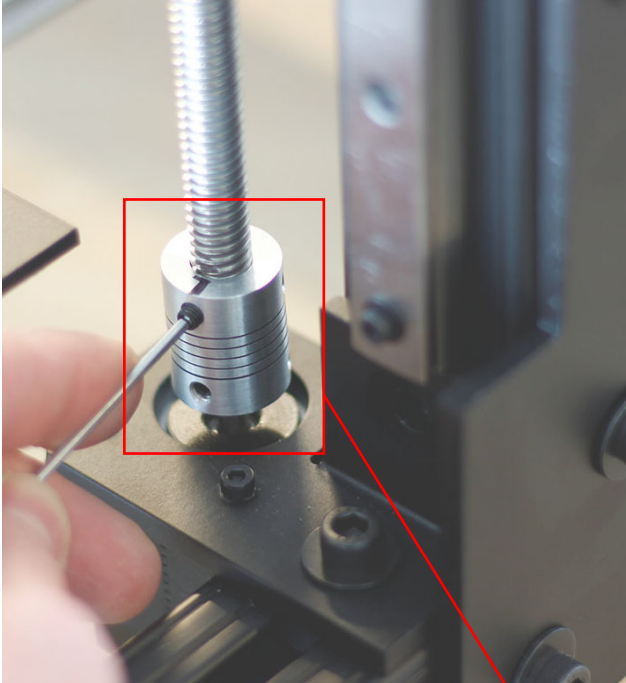(4) 1/4" Washers

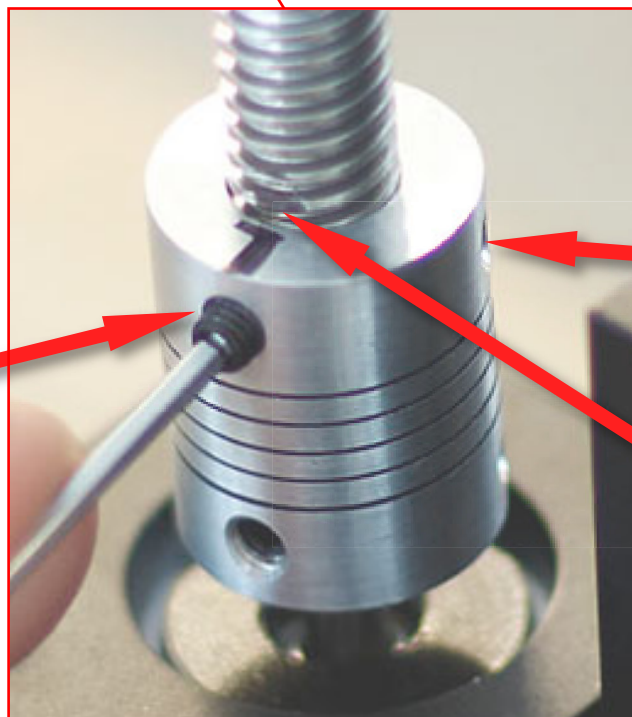(4) Set Screws

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.
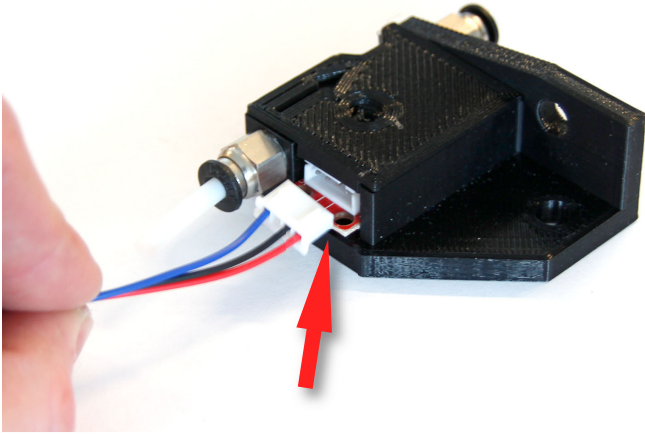

Insert and tighten set screw

Insert and tighten set screw

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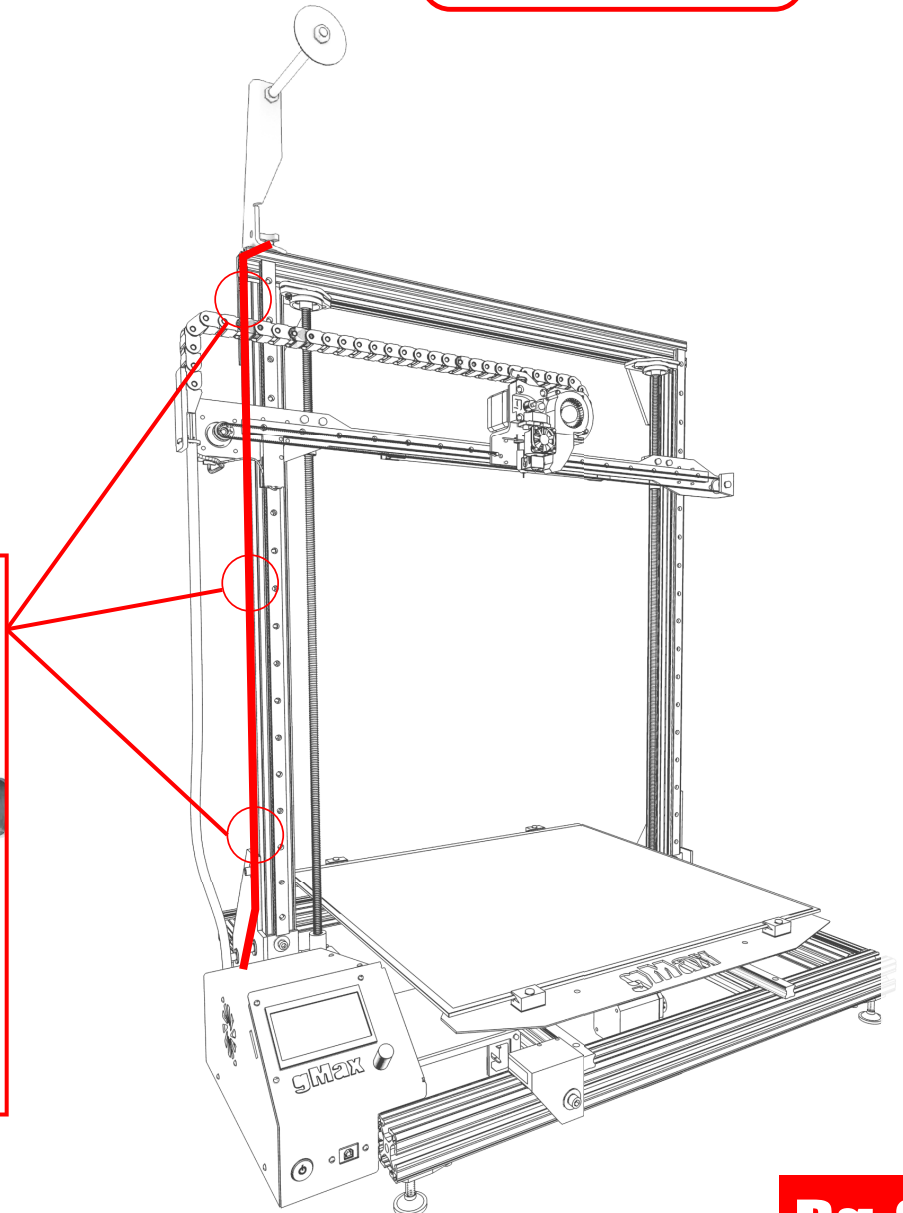
Plug in Filament Run-Out Sensor

1. Plug in the (blue, black, red) filament sensor wire coming out of the electronics case to the run-out sensor.
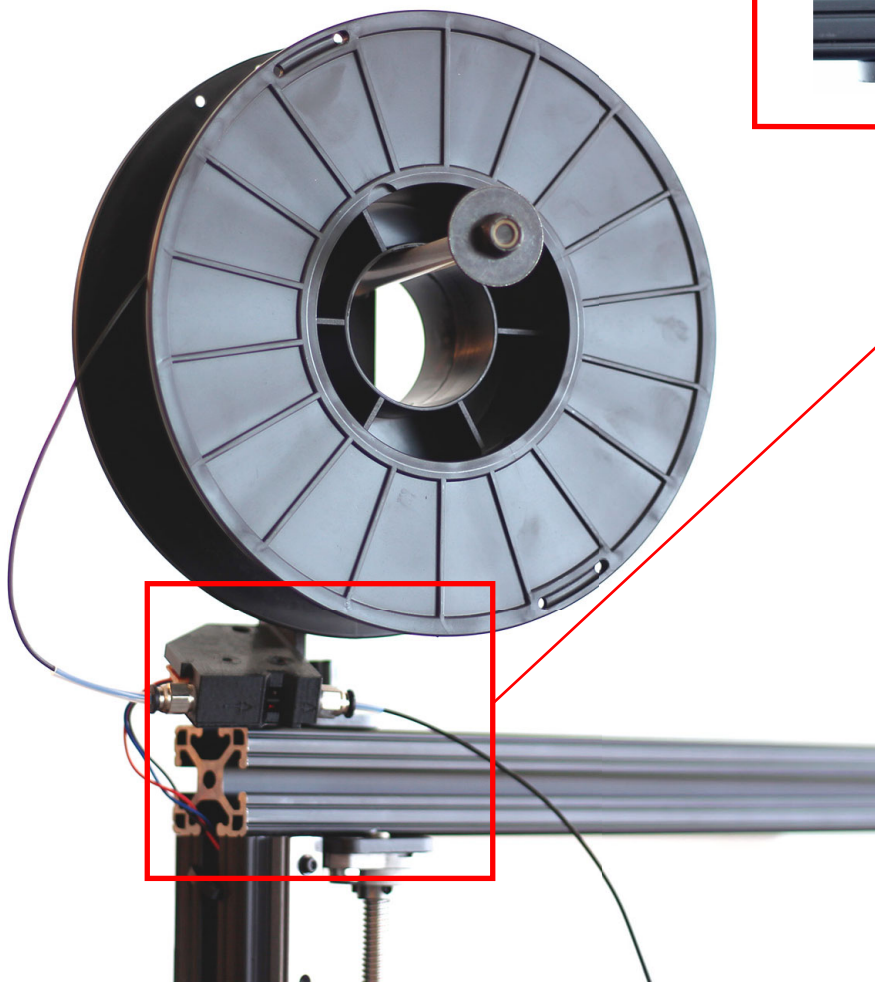
Note

The run-out semsor may be installed on the filament bracket.

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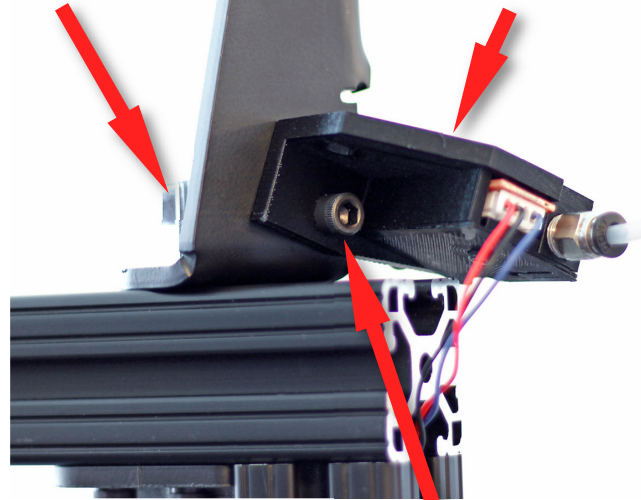
Install Filament Spool Holder

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.

Tighten 3-Arm Knob on Rail

Note

If the runout-sensor isn't installed on the filament bracket, you can install it as shown above with a 1/4"x5/8" bolt and 1/4" t-nut in the exrtra hardware baggie.

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

Turn On Power Supply

Plug in Printer

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