

Makertech

Stage 05 - Heated Bed (MIC-6)

Written By: Makertech



Step 1 — Heated Bed



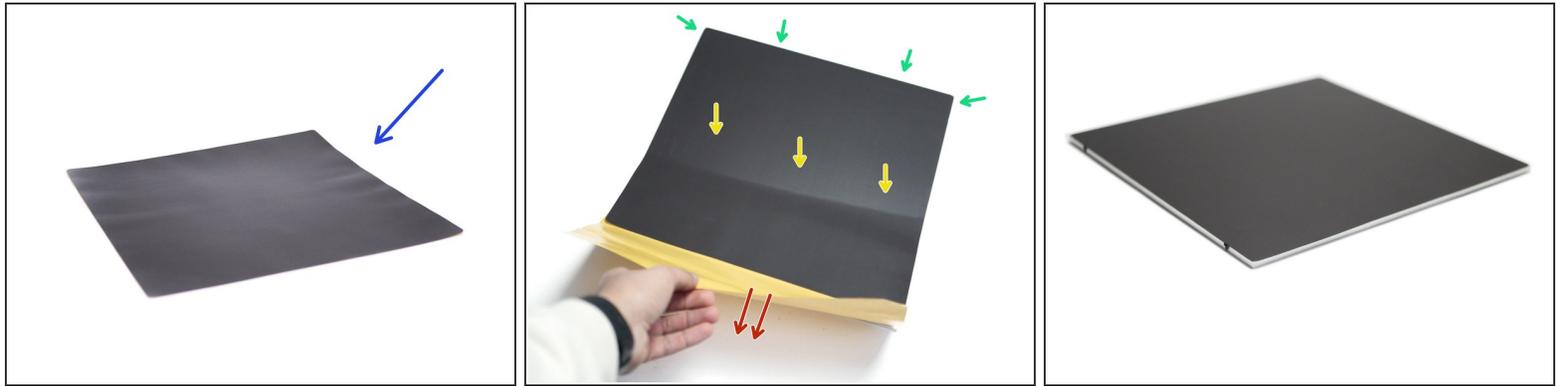
- i** This stage is for the MIC-6 platform upgrade. If you have the default 24V bed please follow [this](#) version of stage 5.

Step 2 — Preparing the Platform



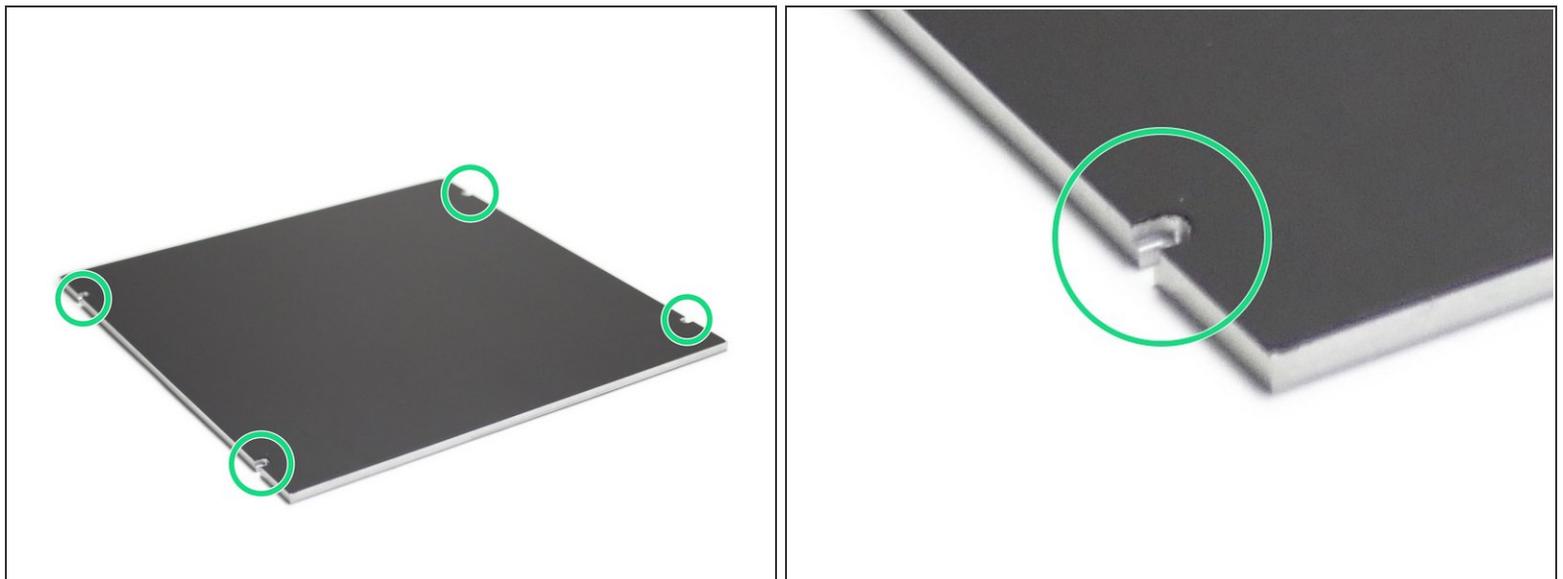
- Begin by taking the MIC-6 platform and placing down flat with the machined side up.
- Clean the surface with an alcohol wipe, making sure it is free of any grease.

Step 3 — Magnetic Sheet



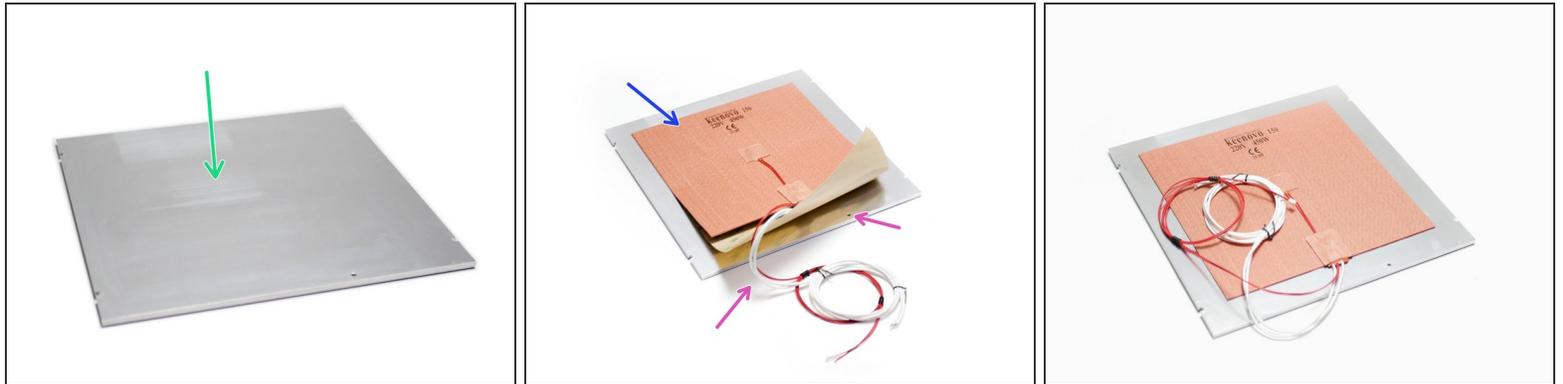
- Take the magnetic sheet.
- Peel away the backing paper from one edge and align it with an edge on the MIC-6 platform.
- Carefully pull the backing paper whilst pressing the magnetic sheet down.
⚠ Take care to avoid air bubbles.

Step 4 — Remove Excess Sticker



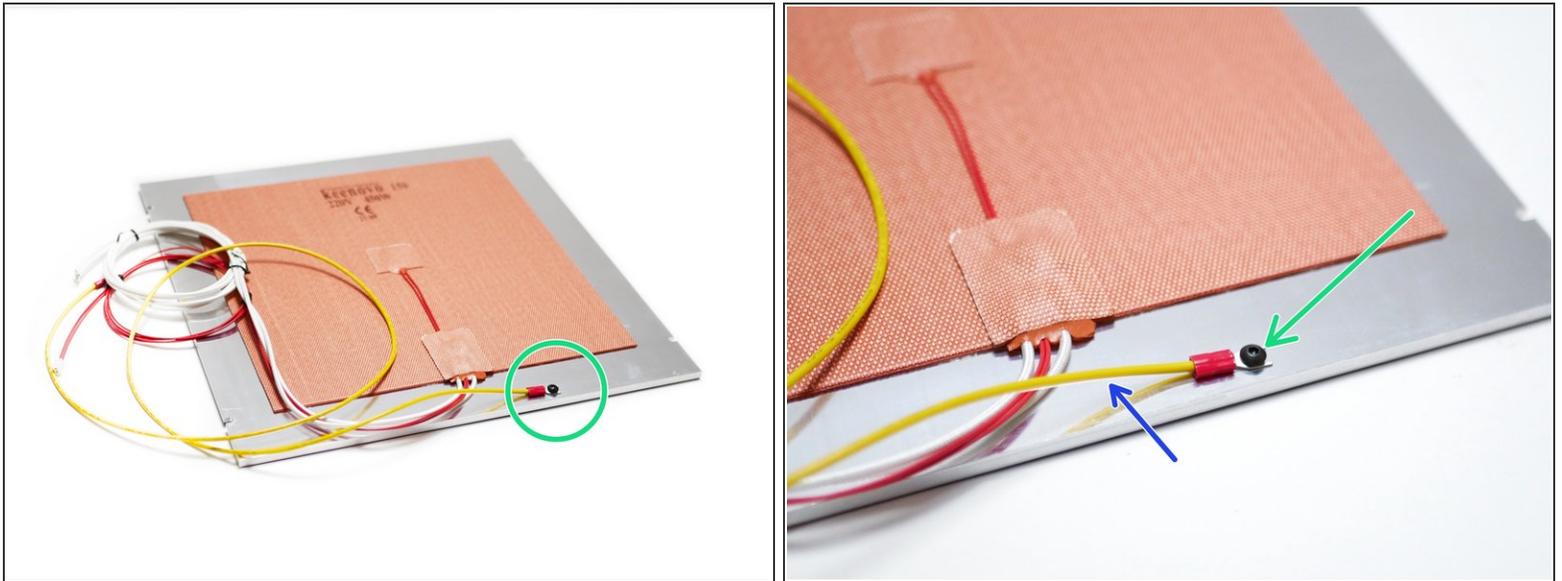
- Use a knife to remove the excess magnetic sheet from the platforms mounting slots.

Step 5 — Installing the Heater



- Flip the platform over and wipe down the surface to remove any grease.
- As before with the magnetic sticker, fix the heater pad on in the same way.
- ⚠ Before installing the heater, double check it is correctly rated for your mains. In the UK and Europe this should be 220V, in North America this should be 110V. Providing the incorrect voltage to a heater can result in permanent damage.
- Make sure to orientate the cables so the point to the side that has the M4 threaded hole.
- ☑ Press the heater down firmly.

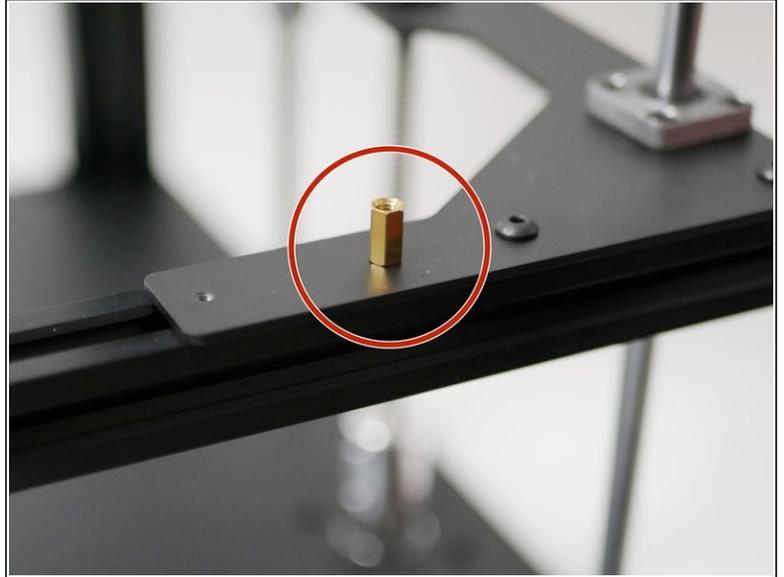
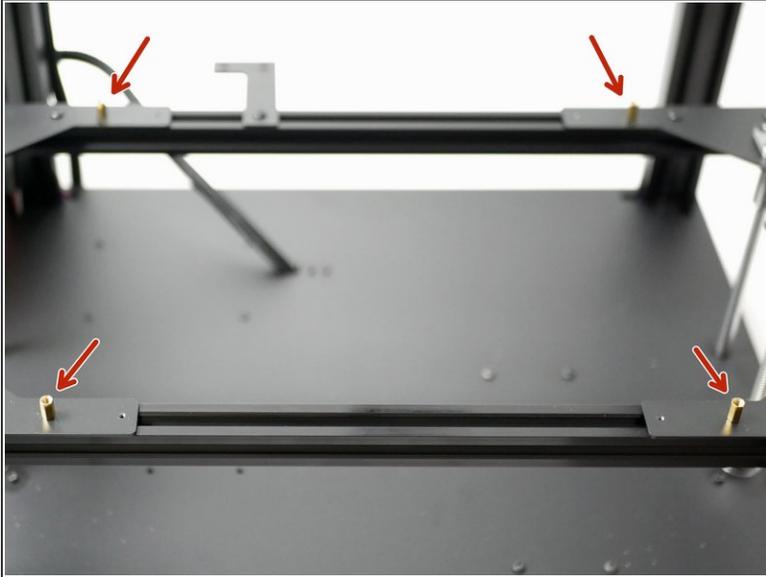
Step 6 — Earth Cable



i Fix the earth cable to the platform as shown.

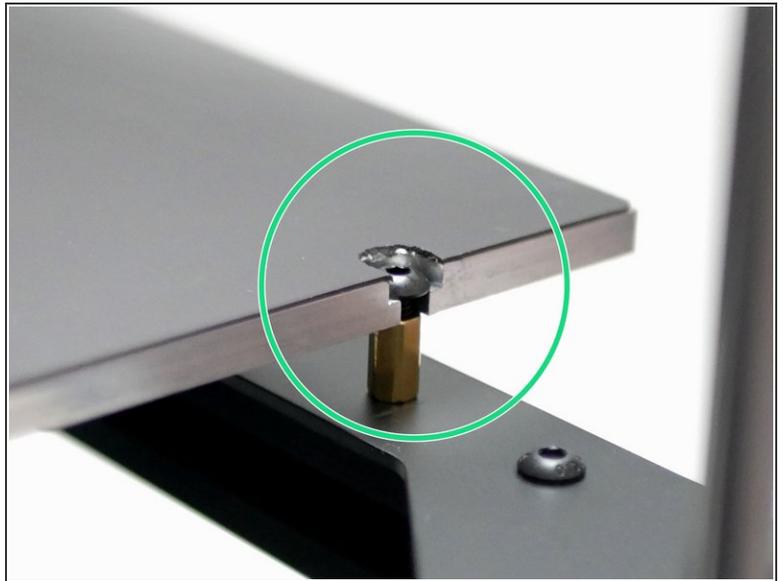
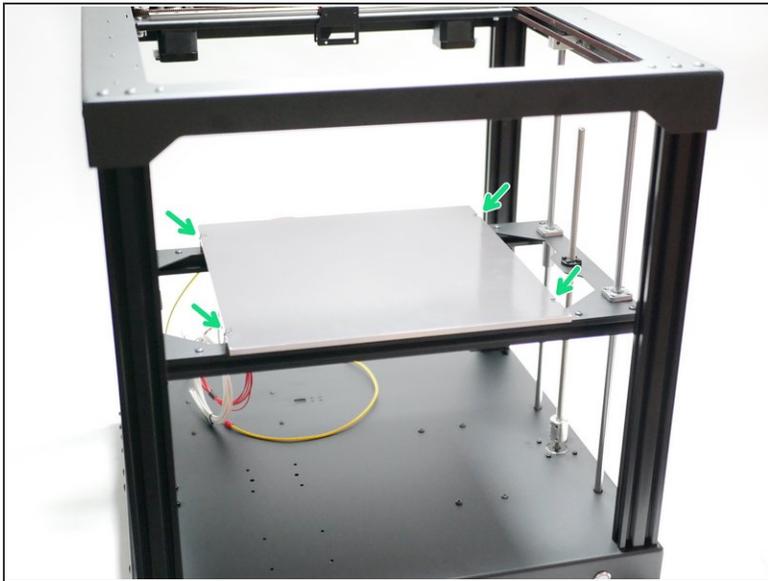
- M4 x 6mm button
- Ensure that the cable points to the left.

Step 7 — MIC-6 M4 Brass Mounts



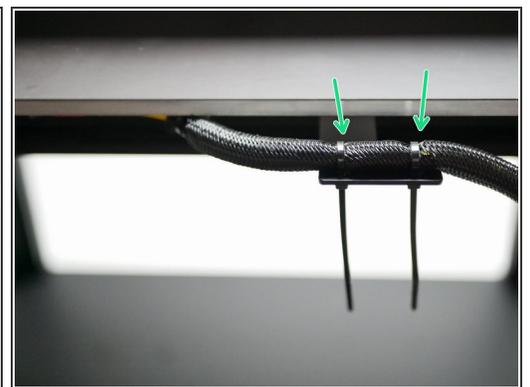
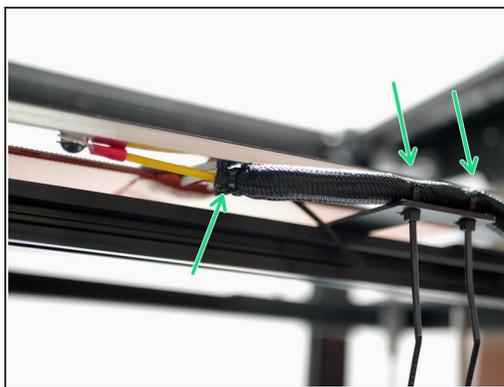
- Secure four M4 brass standoffs to the platform brackets as shown.
- ☑ These standoffs can be found in the MIC-6 fastener bag.

Step 8 — Mounting the Heated Bed



- i Mount the heated bed to the platform frame.
- Make sure that the cables point to the rear of the printer.
- M4 x 6mm Button

Step 9 — Braided Slewing



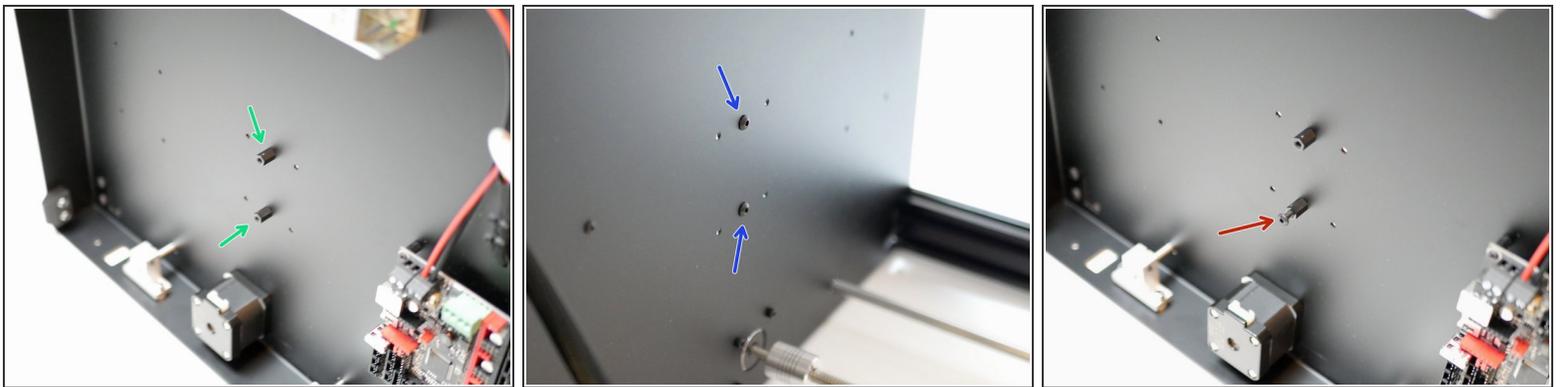
- Cut 60CM of the braided sleeving. Use a lighter to melt the ends to prevent fraying.
- Use cable ties to secure the sleeving to the cable relief bracket.

Step 10 — Braided Sleeving Cont.



- Raise the platform to the top.
- Feed the cables through the hole on the base.
- Fix the cables to the base with cable ties as shown.

Step 11 — SSR Mounts



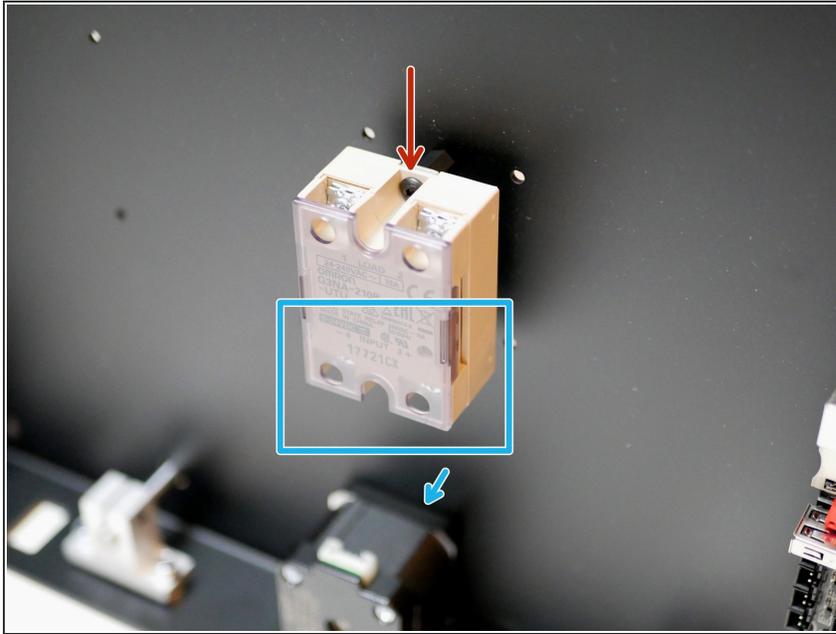
i Fix the SSR stand-off's to the base.

- M4 x 10mm Threaded Spacer

⚠ Unfortunately, M3 x 10mm threaded spacers were included by mistake in some kits. These can be used instead with M3 x 6mm bolts to mount the SSR.

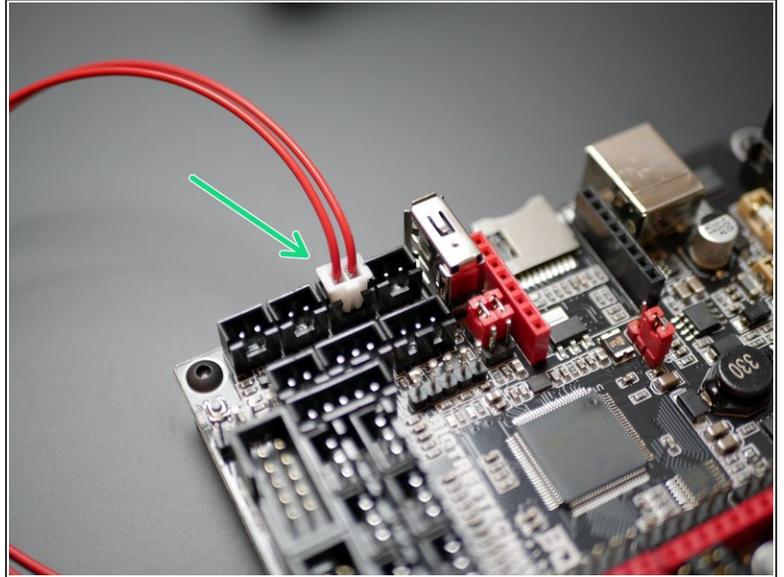
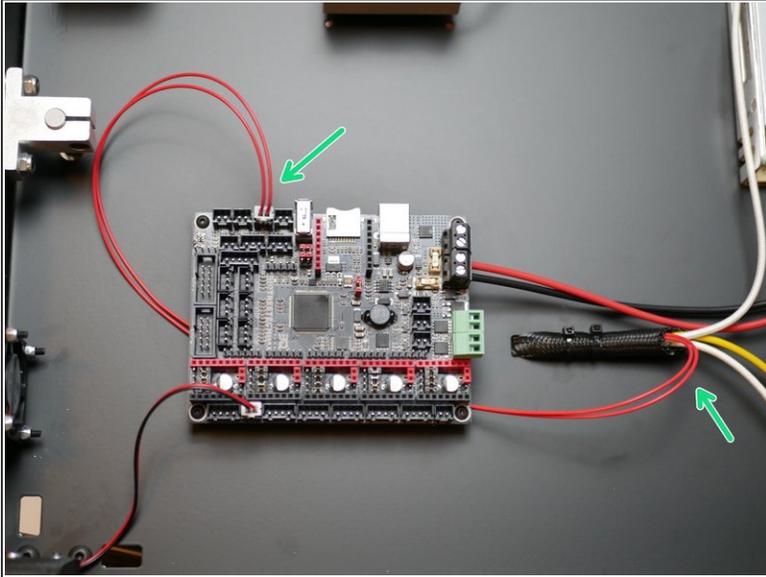
- M4 x 6mm Button
- Loosely fix an additional M4 x 6mm bolt to the lower stand-off

Step 12 — Mounting the SSR



- ① Mount the SSR by first dropping it onto the bolt you loosely fixed in the previous step.
- Then secure with another M4 x 6mm button head bolt.
- ① Tighten both bolts to secure.
- Double check that terminals 3 and 4 are pointing towards the Z-motor.

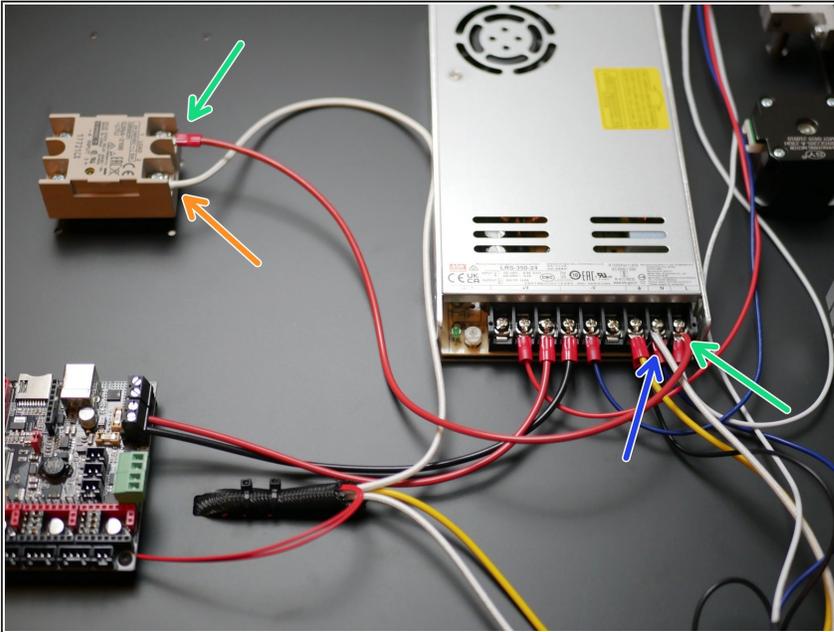
Step 13 — Wiring - Thermistor



***i** Images to be updated.*

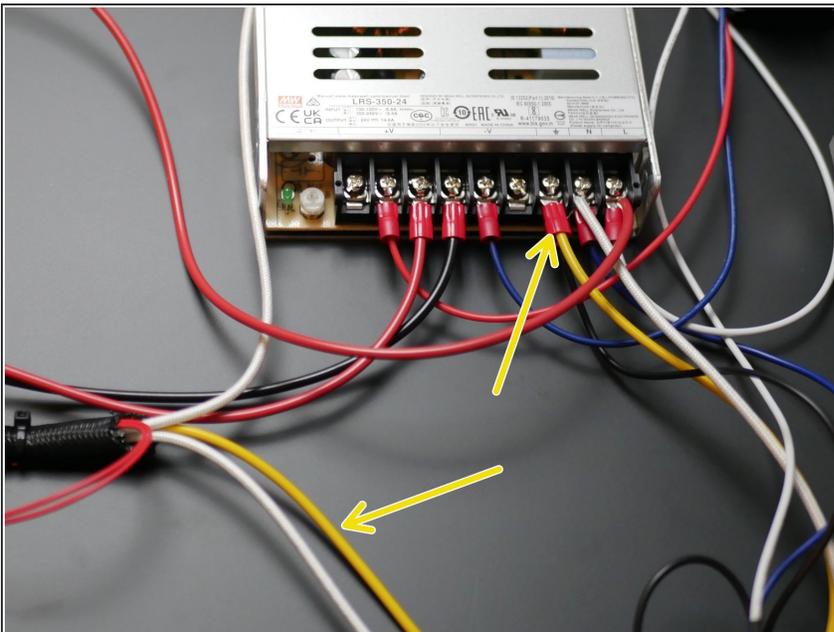
- Take the red cable and attach the clamp connector to it.
- To the other side of the clamp connector attach the cable with XH connector.
- Plug the XH connector into the board as shown.

Step 14 — Wiring - Heater



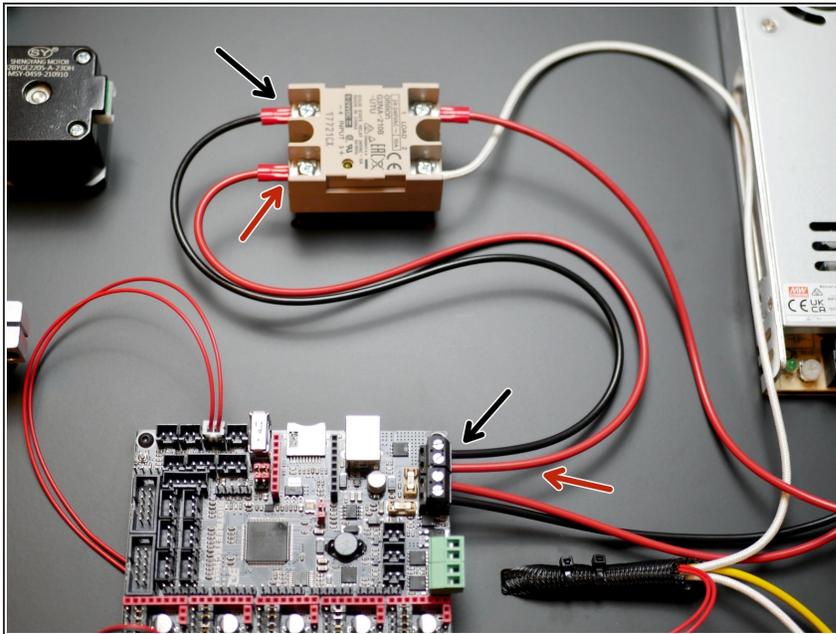
- ☒ Note, the cover on the SSR can be pulled off to gain better access to the screw terminals.
- Fix one of the heater cables to the terminal shown on the SSR.
- Fix the other heater cable to the Neutral (N) terminal of the power supply.
- Take a red power cable and connect it from the second terminal on the SSR to the Live (L) terminal on the power supply.

Step 15 — Wiring - Earth



- Connect the earth cable top the Earth (E) terminal on the power supply.

Step 16 — Wiring - Heater Signal



i Wire the signal cables from the control board to the other side of the SSR as shown.

● Red Cable

● Black cable