

SeeMeCNC Guides

REV 10 Heated Bed

This guide instructs you on the correct setup of the REV 10 heated bed.

Written By: SeeMeCNC



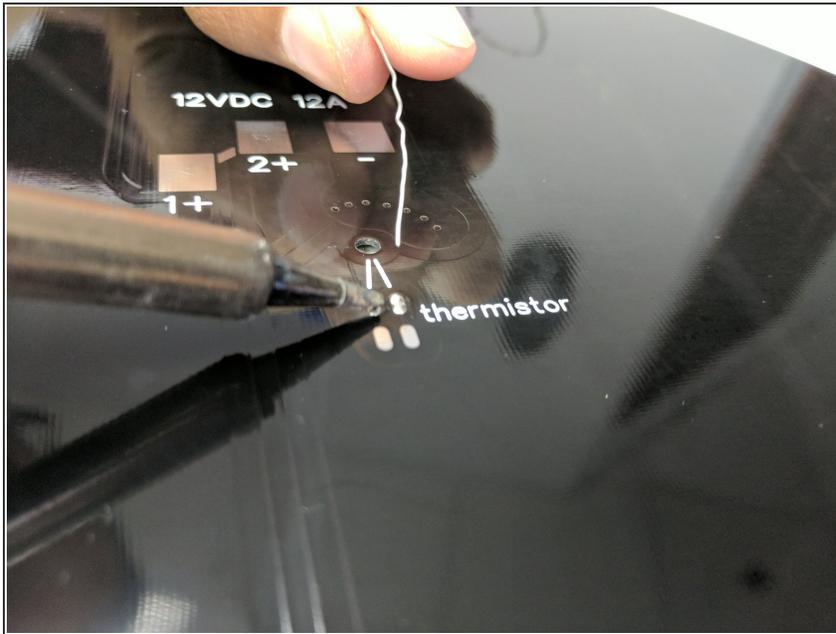
CAN START UNEXPECTEDLY.
CLEAR WHEN MACHINE IS POWERED.
AND LOOSE ARTICLES CLEAR OF MOVING PARTS.
REQUIRED. CHILDREN UNDER 18 MUST BE SUPERVISED
VERY HOT AND MAY CAUSE SEVERE BURNS
L 10 MINUTES AFTER TURNING OFF POWER
AT YOUR OWN RISK
NOT LEAVE UNATTENDED

Model: ONYX HB
Part #: 58742
REV 10

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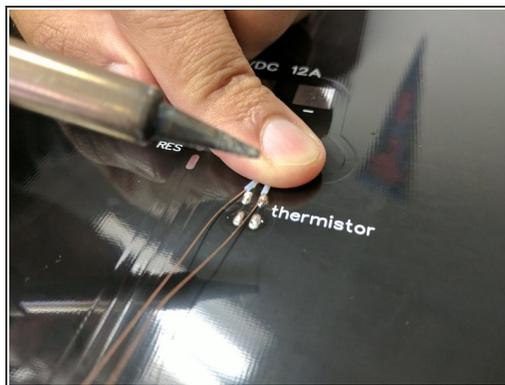
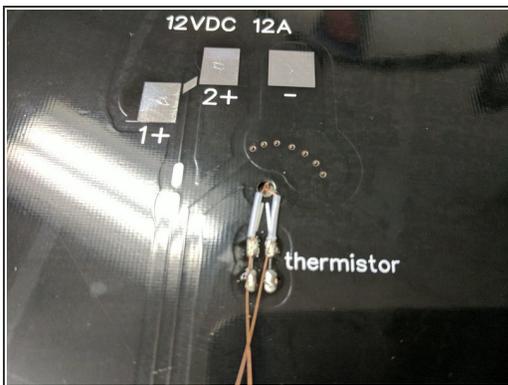
BED HEAT

Step 1 — Prepare the Heated Bed



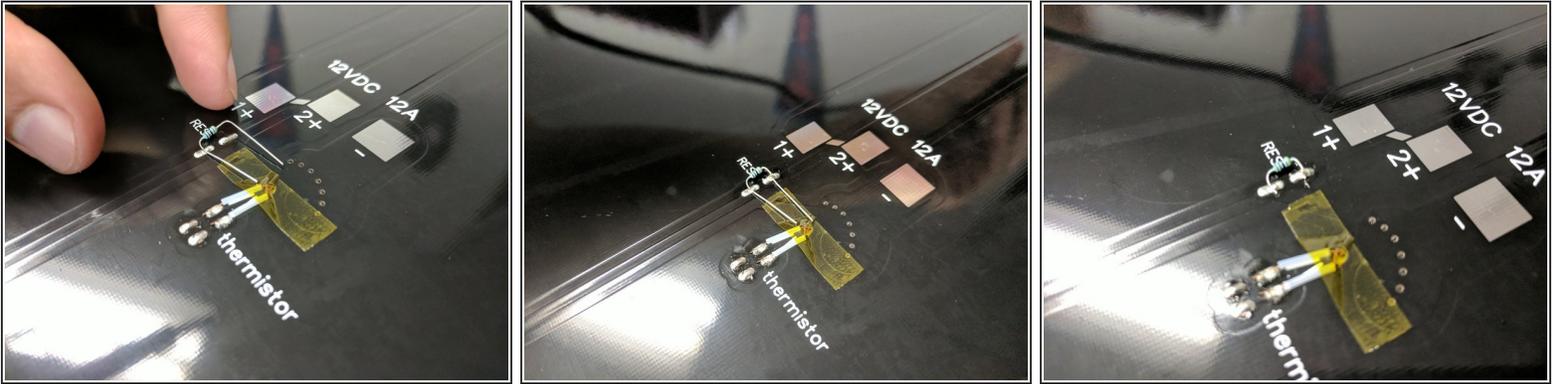
- To prepare the heated bed you should "tin" the pads on the bottom of the heated bed. For the smaller pads on the bed, you should be careful not to heat the pads too hot for too long as this can cause the pad/trace to lift from the board.

Step 2 — Solder Thermistor



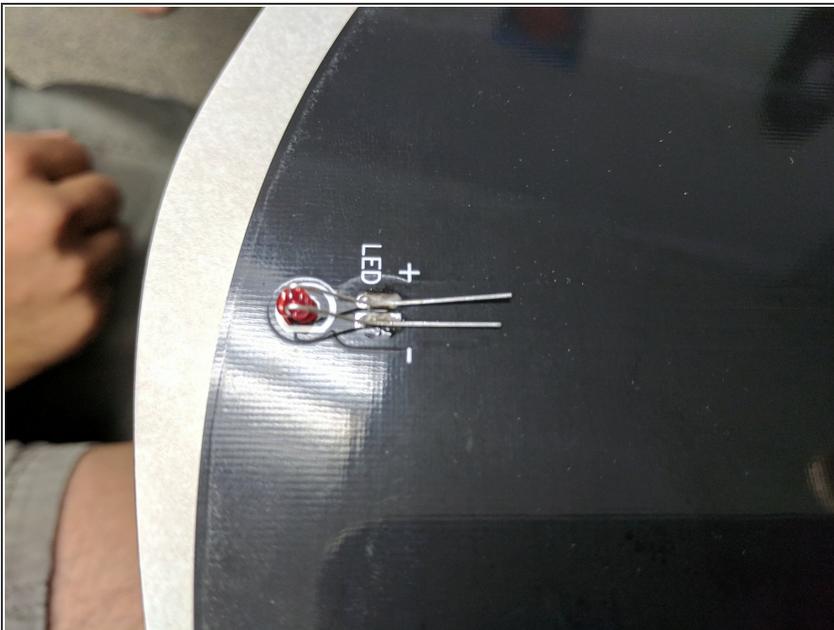
- Cut two pieces (8-9mm long) of the small PTFE that came with the thermistor. Slide the tube over the legs of the thermistor (separately).
- Separate the legs of the thermistor as shown and insert the glass bead of the thermistor into the hole in the center of the heated bed. Solder them to the top two pads on the heated bed.
- You can cut the excess leads after you have soldered it to the bed.

Step 3 — Resistor



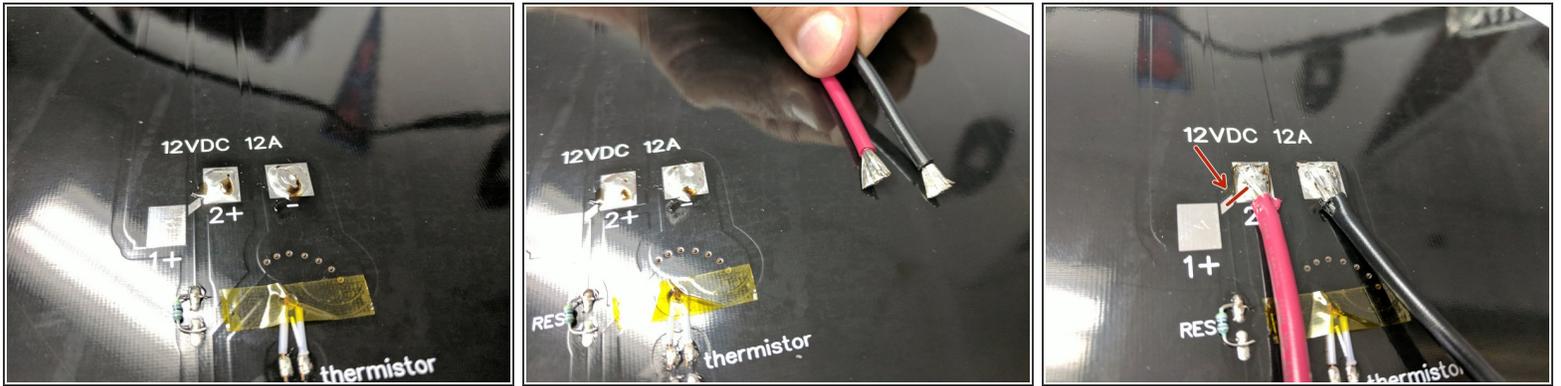
- Place a piece of Kapton tape over the thermistor leads to protect them.
- Solder the resistor to the heated bed.
- You can cut the excess resistor leads after you have soldered it to the bed.

Step 4 — LED



- Solder the LED to the heated bed. NOTE the polarity of the LED in the picture. The short leg is the - and the long is the +
- You can cut the excess resistor and LED leads after you have soldered it to the bed.

Step 5 — Soldering Wires to Heated Bed



- Move the heated bed close enough to the printer that the wires will reach the pads that you have tinned.
- Fan out the exposed strands of wire for the 12awg red and black wires. Solder them to the heated bed in the location indicated (The - pad and the 2+ pad)
 - NOTE: You may need to increase the temperature of your iron. These are large wires and pads. The large pads will pull heat away from the iron very quickly. Ensure that the pads and wire strands get hot enough to wick the solder throughout resulting a good solder joint. Apply additional solder as needed.
- Bridge the two solder pads as shown with the red arrow. DO NOT BRIDGE ALL THREE TOGETHER.

Step 6 — Soldering Wires to the Heated Bed



- Solder the thermistor leads to the pads where indicated. There is not polarity so either wire on either pad will work. Since these pads are smaller, you want to be sure not to heat them too hot for too long or the pad can detach from the board.
- Cover the soldered thermistor locations and thermistor hole with Kapton Tape (or equivalent)