

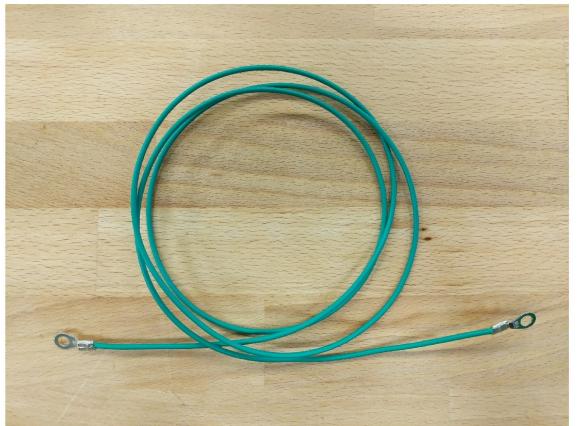
Cut a length of 16 AWG wire to 1250mm. Strip the ends and crimp a ring terminal to either end.

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Note: a good crimp: (1) partly bites into the insulation (2) bites securely into the wire

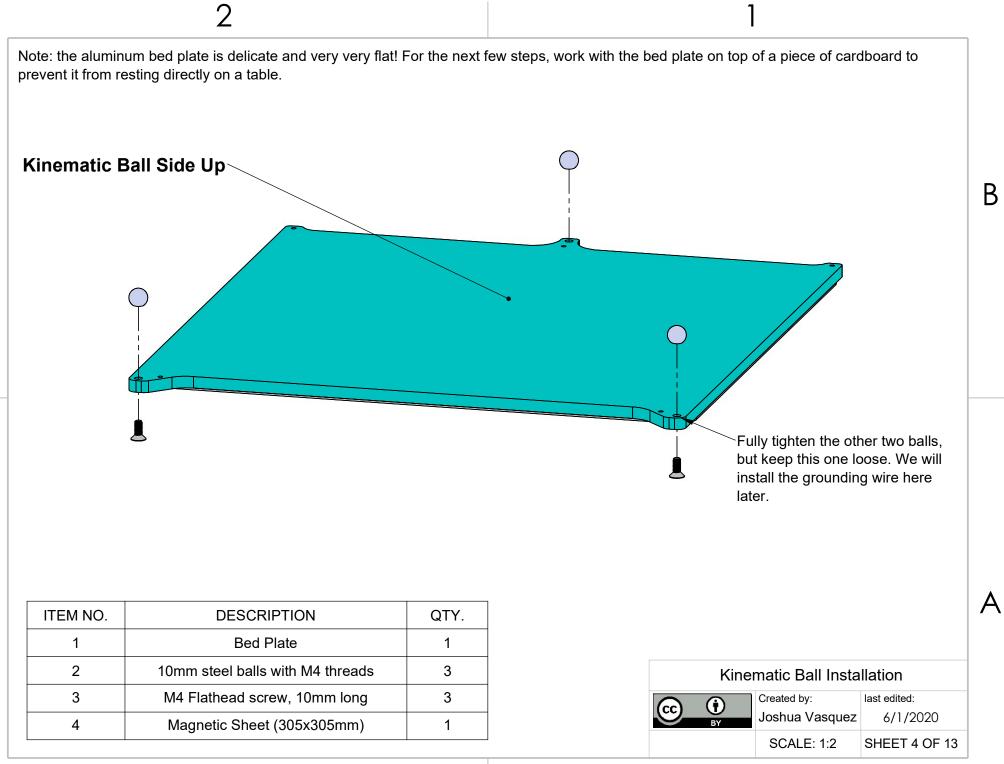
Note: do not twist the stranded ends of the wire before crimping.

Grounding Wire Fabrication



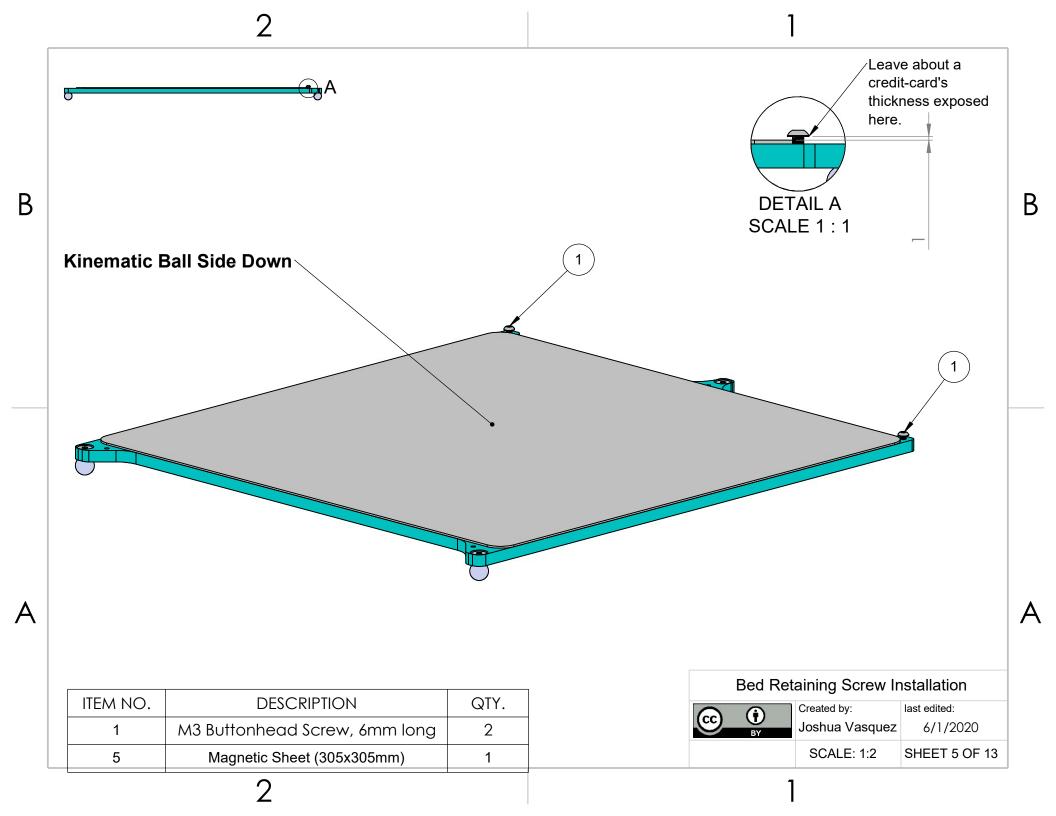
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You may use either the Keenovo pad's built-in thermistor, or the extrenal NTC Ring Lug Thermistor for measuring bed temperature.

If you use the external thermistor, you may cut the two thin red wires from the existig thermistor and reuse them by soldering them onto this sensor and insulating them with heat shrink tubing.



Created by: last edited: Joshua Vasquez 6/1/2020 SCALE: 1:2 SHEET 6 OF 13	Thermistor Wiring			
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Image Credit: Digikey



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Grip a Solder Terminal Lug firmly with pliers at the base of the stem.



Then bend the stem 90 degrees.



Finally, bend the remaining part of the stem over, forming a loop as shown in the next image.

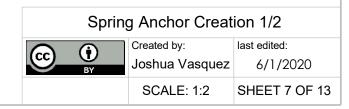


Loop a free bed spring into the stem and close the loop, ensuring that the loop is still bent away from the screw hole.

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Make three of these.

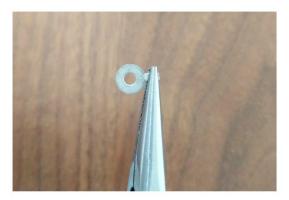




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Grip a Solder Terminal Lug firmly with pliers at about the 2/3 point of the stem.



Curl it around the pliers, forming a loop.



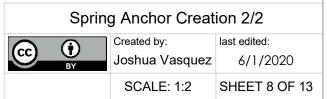
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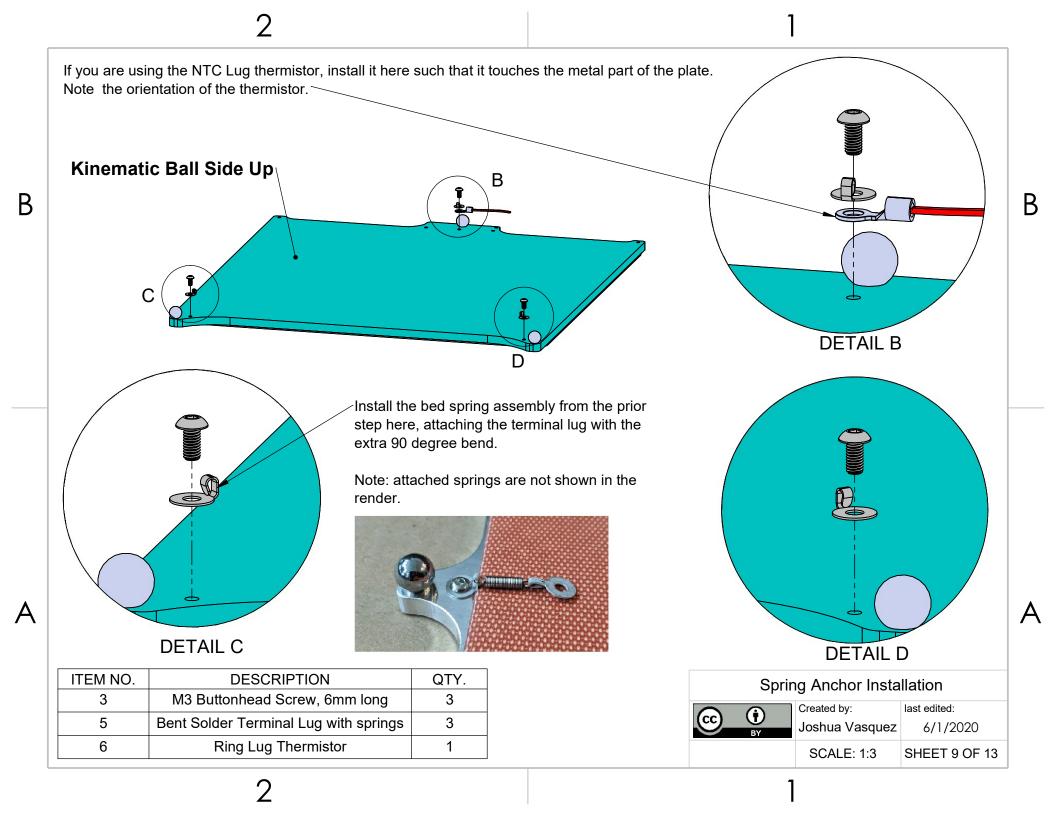
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Close the loop on each free end of the springs from the previous page.



Make three of these.







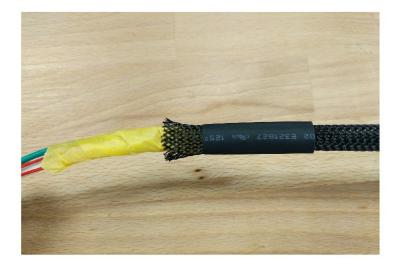
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Cut 750mm of 1/2-in. cable sleeving. Slide two 10mm bits of heat shrink tubing onto the ends.

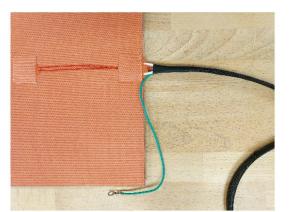




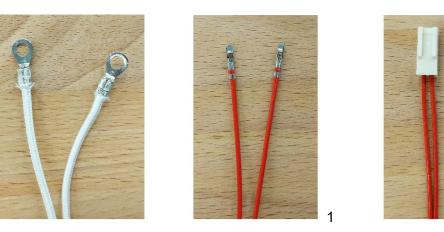
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Collect the thermistor wires, grounding wire, and bed heater wires into once bunch. Tape the far ends together and run the bunch all the way through the cable sleeve.



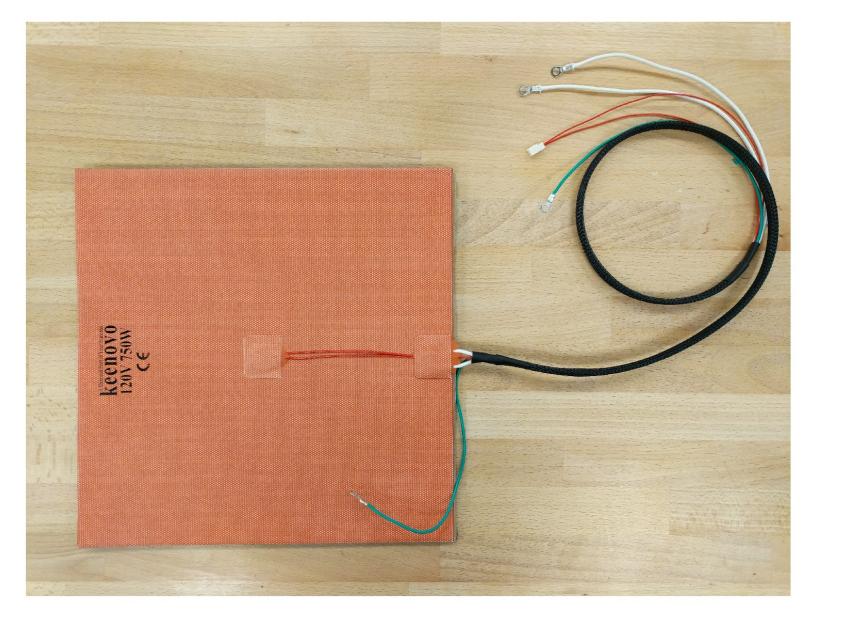
Pull out the ground wire near the pad such that it extends just past the nearest corner of the pad as shown above.



Crimp Ring terminals on the bed heater wires. From the **Duet Ethernet** box, crimp two small pins from the loose bag and click them into a two-prong connector.

Heated Pad	Wire I	Management	1/2
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Heat shrink the two loose heat shrink sleeves. The result should look like above.

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Heated Pad Wire Management 2/2

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If you are using the SeeMeCNC or 713Maker bed, install the Heated Pad by peeling away the sticky layer and placing it over the magnet side such that the magnets can no longer be seen. If you are using the Mandala Rose Works Bed, install the Heated pad by peeling away the sticky layer and placing it on the bare side, not the magnet side.



Note the orientation of the plate! The wires will stick out from the side. Also note that there will be a border on all sides since the pad is 300x300mm and the plate is 305x305mm.

Heated Pad Installation

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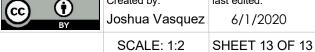
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With the Heated Pad installed, install the grounding ring terminal between this kinematic ball such that the terminal is contacting the metal plate. but not touching the pad. Securely fasten the kinematic ball back.



Grounding Wire Installation



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