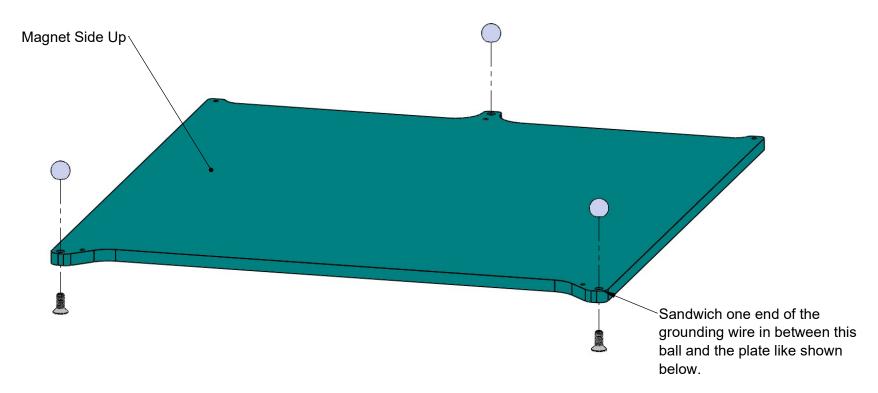


В

Note: the aluminum bed plate is delicate and very very flat! For the next few steps, work with the bed plate on top of a piece of cardboard to prevent it from resting directly on a table.

Note: the aluminum bed plate also contains an array of high-strength high-temperature magnets. Keep small magnetic objects like screws and screwdrivers away from these magnets during assembly.

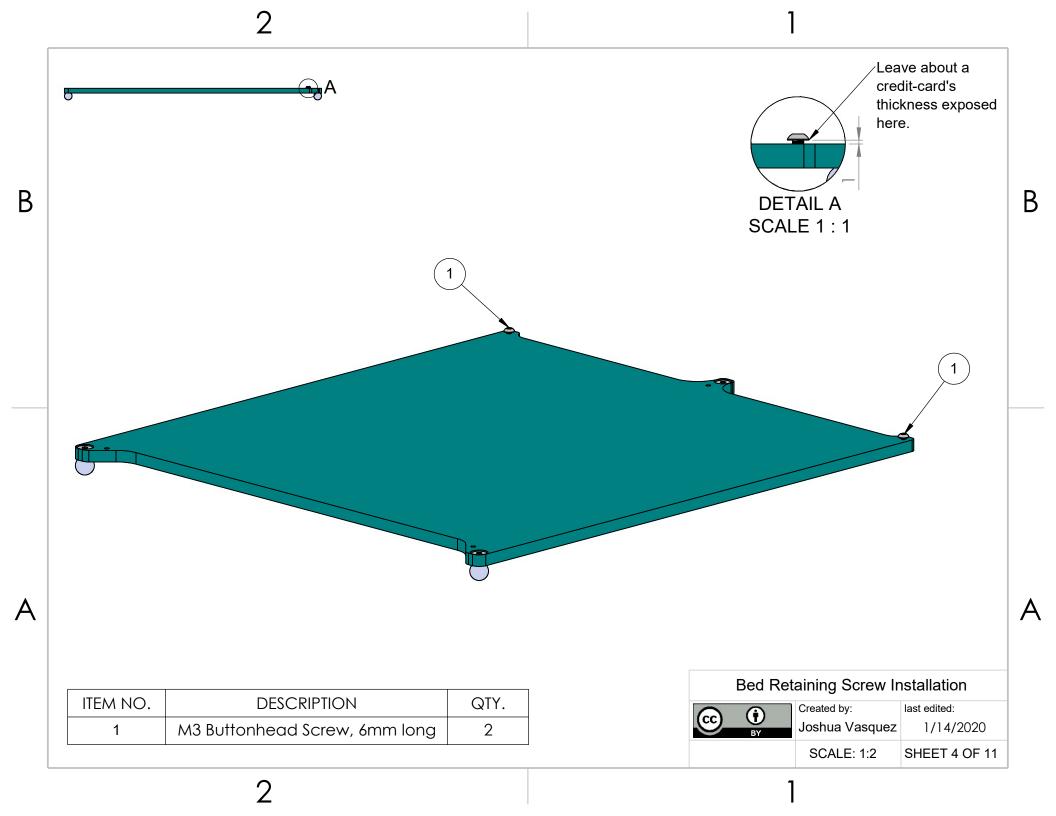


TODO: image here

В

ITEM NO.	DESCRIPTION	QTY.
1	Bed Plate	1
2	10mm steel balls with M4 threads	3
3	M4 Flathead screw, 10mm long	3

Kinematic Ball Installation				
<u></u>	(i) BY	Created by: Joshua Vasquez	last edited: 1/14/2020	
		SCALE: 1:2	SHEET 3 OF 11	



Grip a Solder Terminal Lug firmly with pliers at about the halfway point. Then bend it about 90 degrees with your finger. Make 3 pieces.







В

A

Spring Anchor Creation			
<u></u>	()	Created by: Joshua Vasquez	last edited: 1/14/2020
		SCALE: 1:2	SHEET 5 OF 11

В

We recommend that you use the NTC Ring Lug Thermistor for measuring bed temperature instead of the Heated Pad's built-in thermistor. We will reuse the wires from the heated pad, however.

First cut the two thin red wires from the Heated Pad at the tip of the bed. Then solder them to the two exposed leads of the Ring Lug Thermistor. Insulate the connections with heat shrink tubing.

В



Α

This Ring Lug Thermistor will be screwed into the bed in the next step.

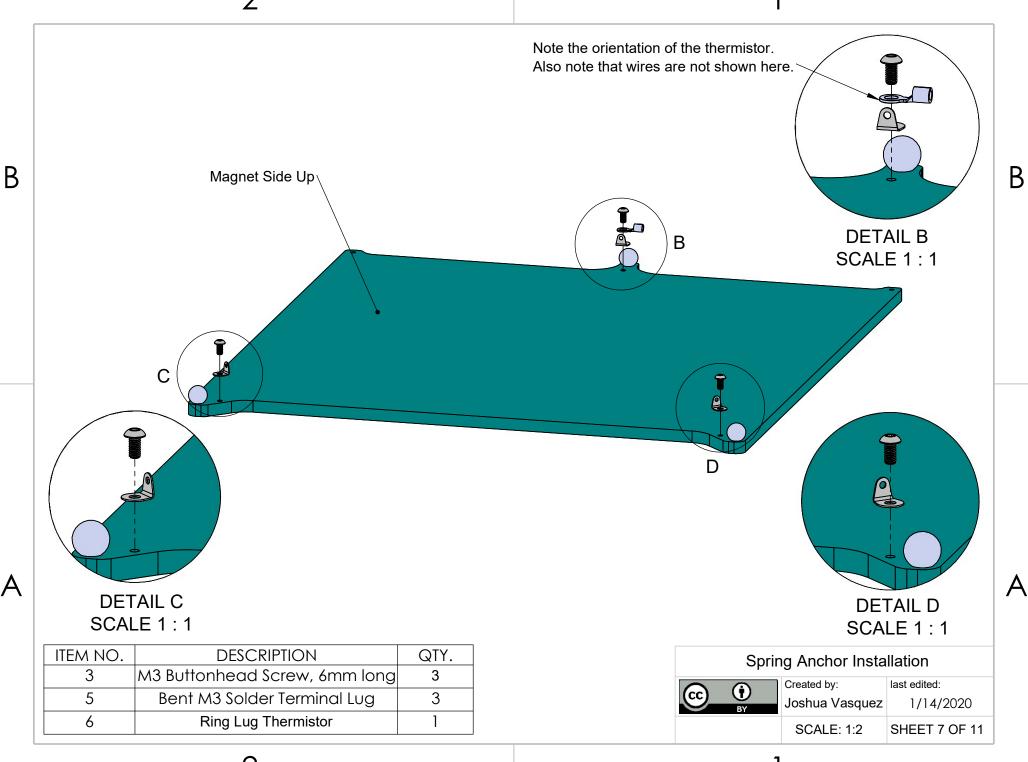
Thermistor Wiring

Created by:
Joshua Vasquez

SCALE: 1:2

SHEET 6 OF 11

Image Credit: Digikey



Install the Heated Pad by peeling away the sticky layer and placing it on top of 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.

В

A

В

Heated Pad Installation



Created by: last edited:

Joshua Vasquez 1/14/2020

(In this image the built-in thermistor was used.)

SCALE: 1:2 SHEET 8 OF 11

2

•

Collect the thermistor wires, grounding wire, and bed heater wires into once bunch. Tape the far ends together and run the bunch through the cable sleeve. Zip tie or heat shrink the ends to prevent fraying.

В

TODO: image here

Crimp a ring terminal to each white bed heater wire as shown below.

A

TODO: image here

Bed Wire Management

Created by:
Joshua Vasquez

SCALE: 1:2

| SHEET 9 OF 11

В

1

В

Create 3 Springs from the spring stock by cutting it to length and folding over the first loop with pliers. These springs should measure between 16 and 18mm center-loop-to-center-loop

В



A

Note: this extension spring stock is not to be confused with the Spring Guide, which has a smaller diameter.

ITEM NO.	DESCRIPTION	QTY.
1	Extension Spring Stock (McMaster-Carr: 9665K12)	60mm

Bed Spring Fabrication			
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		SCALE: 1:2	SHEET 10 OF 11

