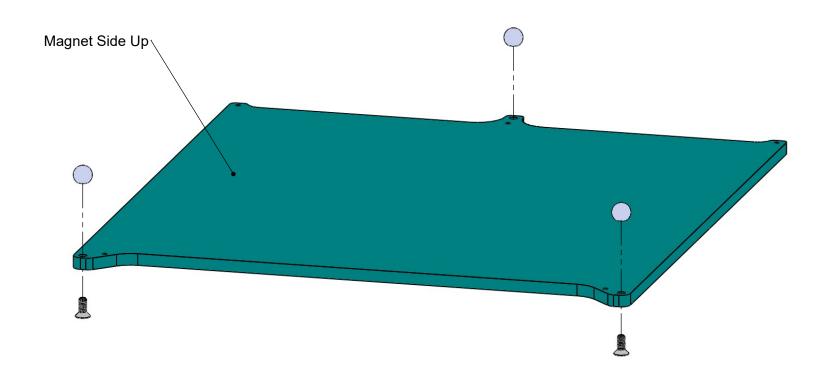


В

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.

В



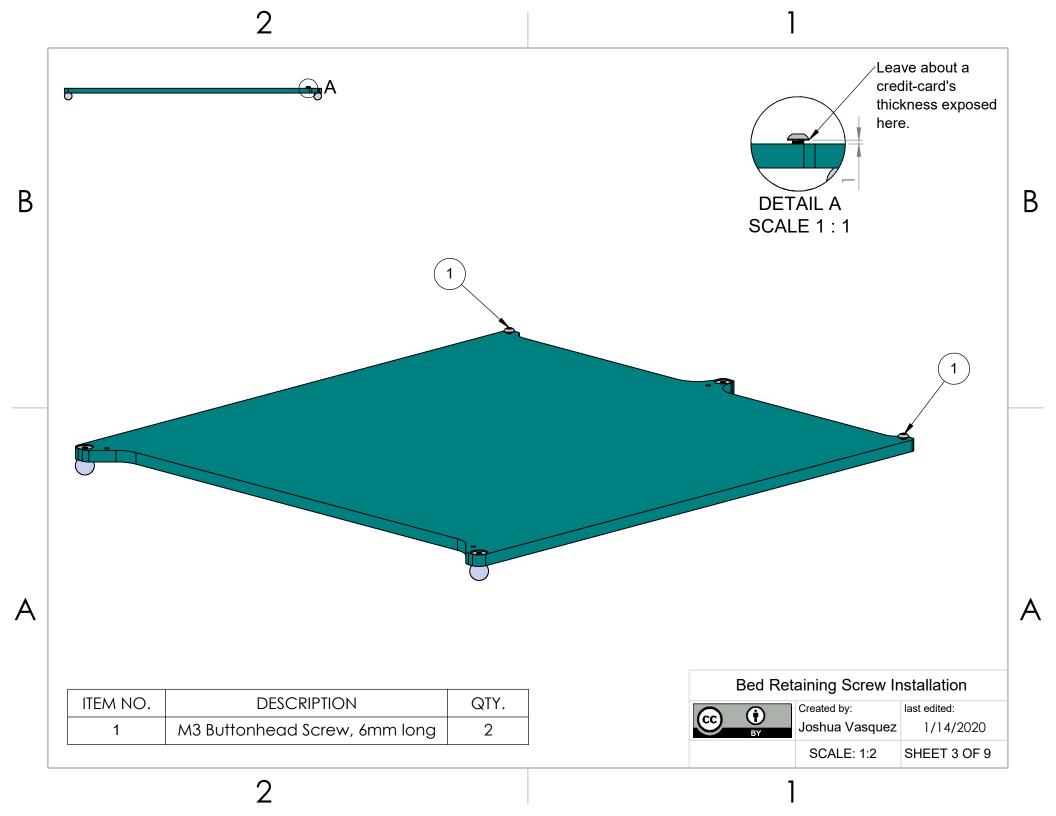
- 4	۸
-	4
/	1

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			
		Created by:	last edited:
	BY	Joshua Vasquez	1/14/2020
<u>@</u>	BY	Created by: Joshua Vasquez	

SCALE: 1:2

SHEET 2 OF 9



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







В

A

Spring Anchor Creation		
	(cc) (
Joshua vasqueZ 1/14/2020	ВУ	
SCALE: 1:2 SHEET 4 OF 9		

2

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.

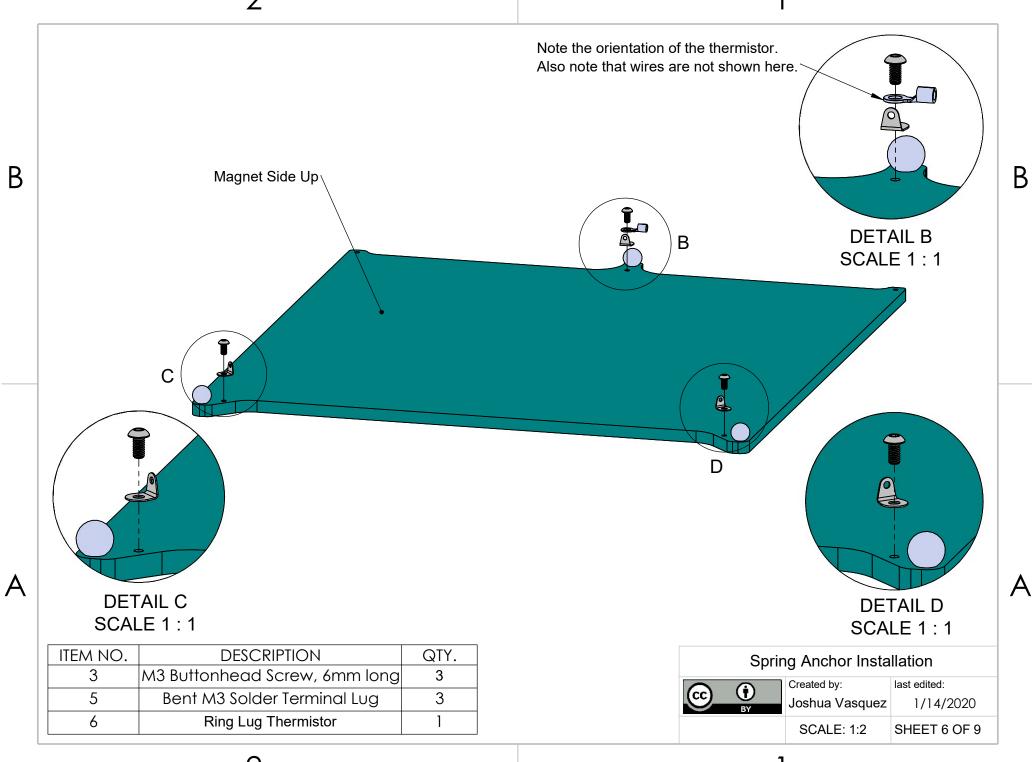
Thermistor Wiring

Created by:
Joshua Vasquez

SCALE: 1:2

SHEET 5 OF 9

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

В

Shroud the set of four wires into a cable sleeve.

Heated Pad Installation Created by: last edited:

Joshua Vasquez 1/14/2020

SCALE: 1:2

SHEET 7 OF 9

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

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.

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

Bed Spring Fabrication			
<u>@</u>	()	Created by: Joshua Vasquez	last edited: 1/14/2020
		SCALE: 1:2	SHEET 8 OF 9

