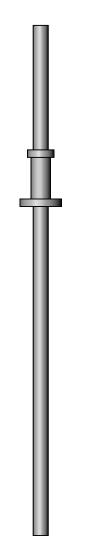


Make 3 assemblies.

В



Compress the Delrin anti-backlash nut fully before installing it. Twist it down about 1/3 down the length of the leadscrew.

В

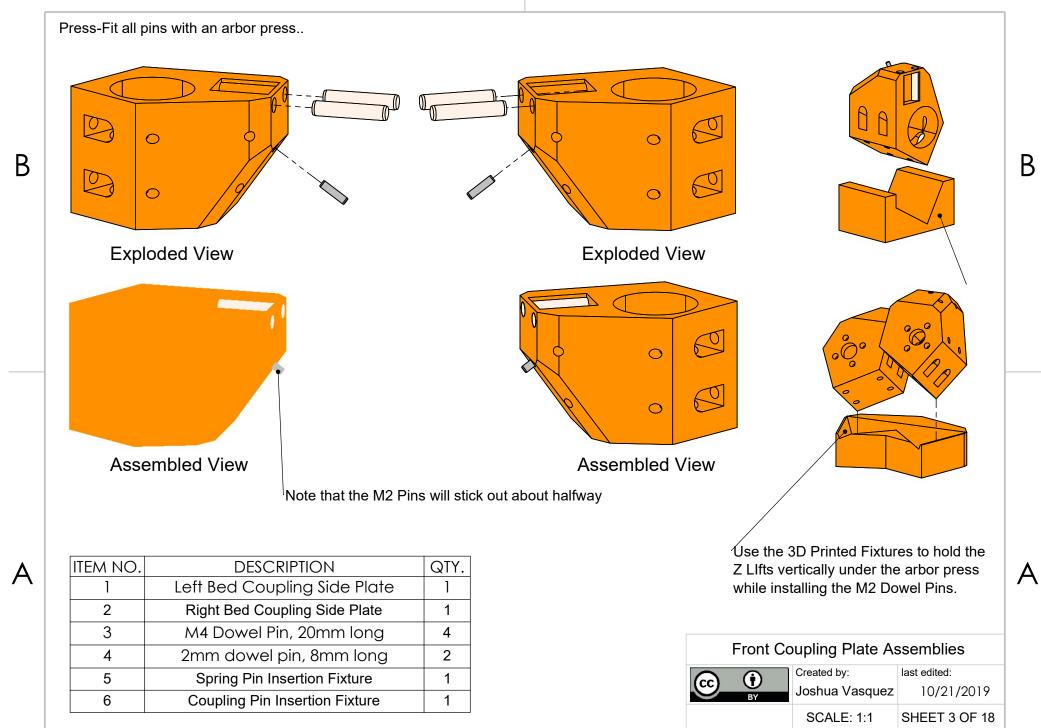


ITEM NO.	DESCRIPTION	QTY.
1	8mm T8x2 Lead Screw, Trapezoidal	3
2	8mm T8x2 Small Delrin Anti-Backlash Nut	3

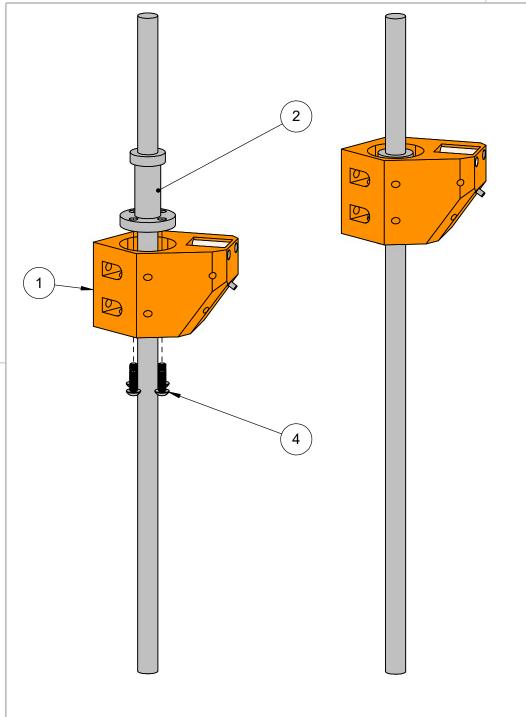
Lead Screw Nut Installation

Created by: last edited:

CC)	BY	Joshua Vasquez	10/21/2019
		SCALE: 1:2	SHEET 2 OF 18







Α

ITEM NO.	DESCRIPTION	
1	Left Coupling Side Plate with Inserts	1
2	8mm T8x2 Small Delrin Anti-Backlash Nut	1
3	8mm T8x2 Lead Screw, Trapezoidal	1
4	M3 Buttonhead Screw, 8mm long	4

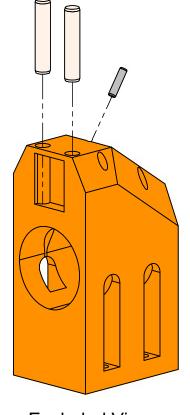
В

Α

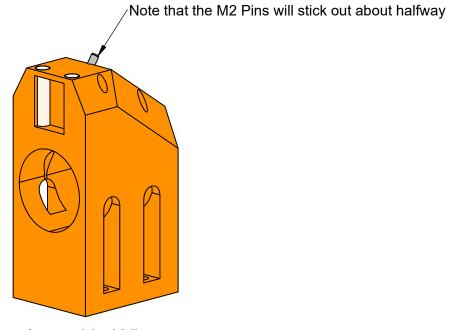
Front Z Lift Assemblies			
<u></u>	<b>(i)</b> BY	Created by: Joshua Vasquez	last edited: 10/21/2019
		SCALE: 2:3	SHEET 4 OF 18

Press-Fit all pins with an arbor press..

В



**Exploded View** 



Assembled View

A

ITEM NO.	DESCRIPTION	QTY.
1 Bed Coupling Back Plate		1
2	M4 Dowel Pin, 20mm long	
3	2mm dowel pin, 8mm long	1

Back Z Lift Assembly				
(00)	(i) BY		Created by: Joshua Vasquez	last edited: 10/21/2019
			SCALE: 1:1	SHEET 5 OF 18

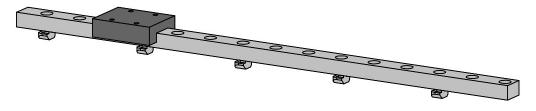


Make three Asssemblies

В

Keep these T-Nuts Loose; only two full turns.
They will be tightened into the frame later.

**Exploded View** 



Assembled View

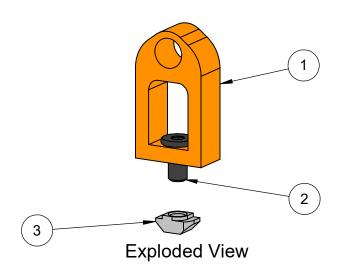
A

Linear Rail Assemby			
CC	<b>(i)</b> BY	Created by: Joshua Vasquez	last edited: 10/21/2019
		SCALE: 1:2	SHEET 6 OF 18

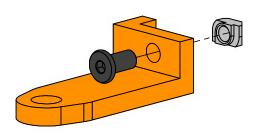
В

Make two assemblies of the front leadscrew retainer.

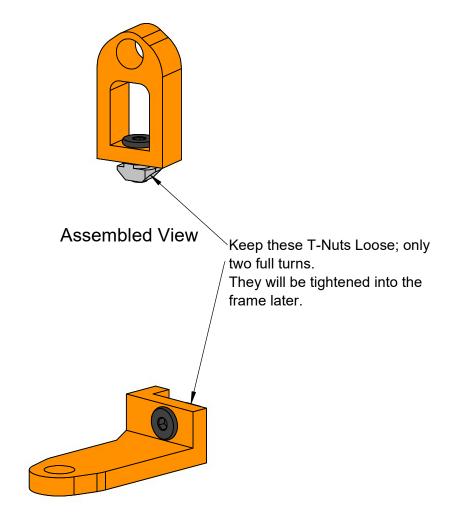
В



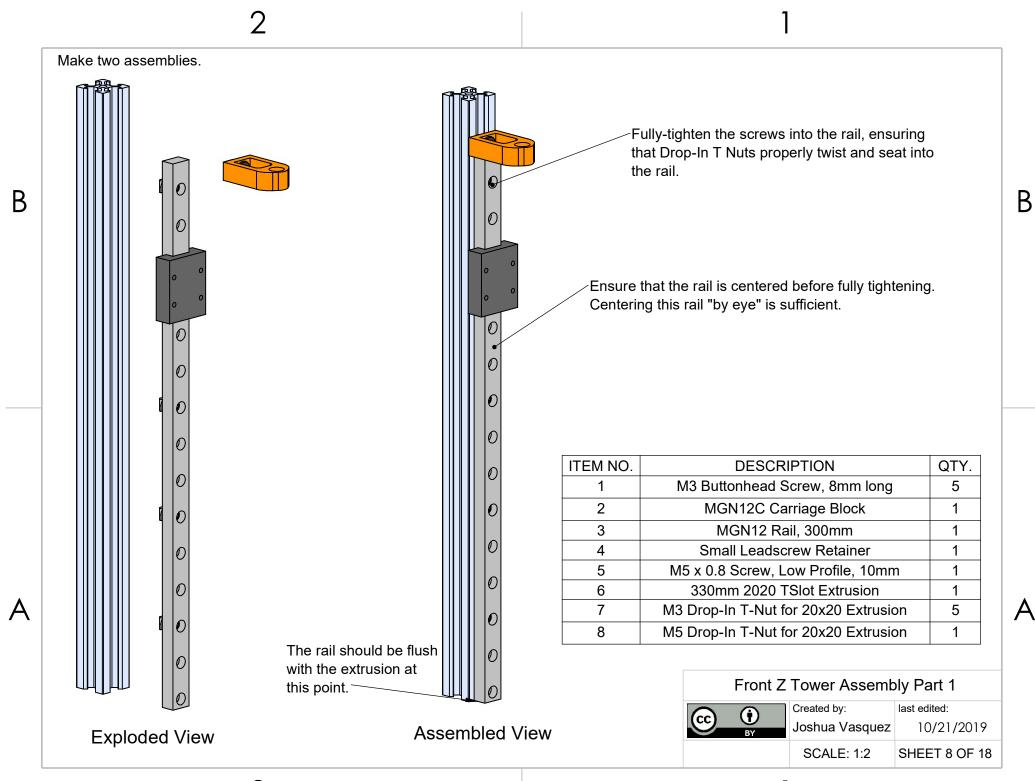
Make one assembly of the back leadscrew retainer.



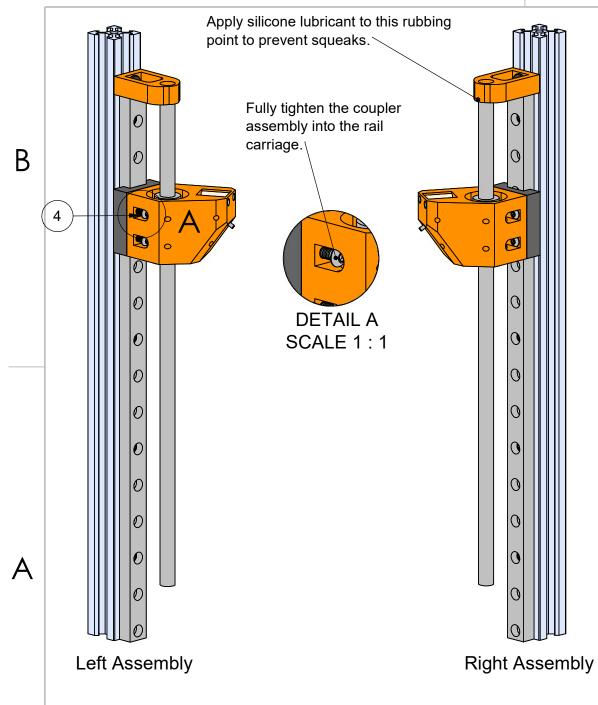
ITEM NO.	DESCRIPTION	QTY.
1	Small Leadscrew Retainer	2
2	M5 x 0.8 Screw, Low Profile, 10mm	3
3	M5 Drop-In T-Nut for 20x20 Extrusion	3
4	Compact Leadscrew Retainer	1



	Created by:	last edited:
CC (I)	Joshua Vasquez	10/21/2019
	SCALE: 1:1	SHEET 7 OF 18

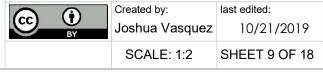




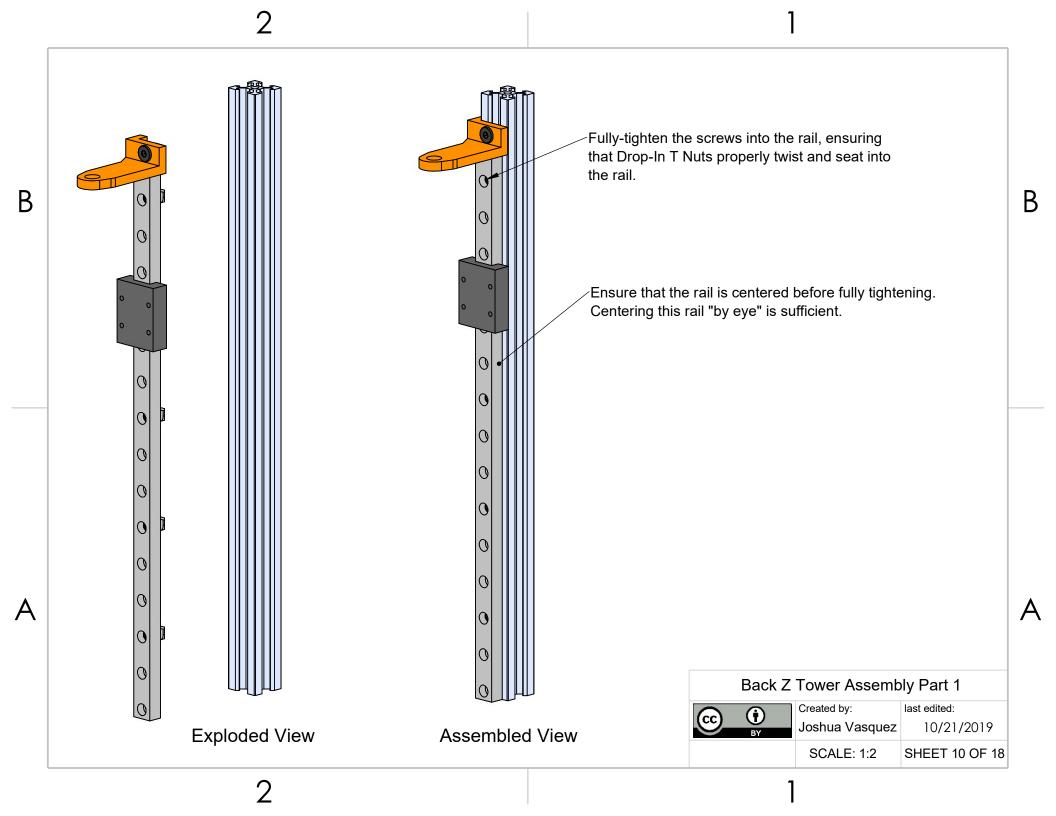


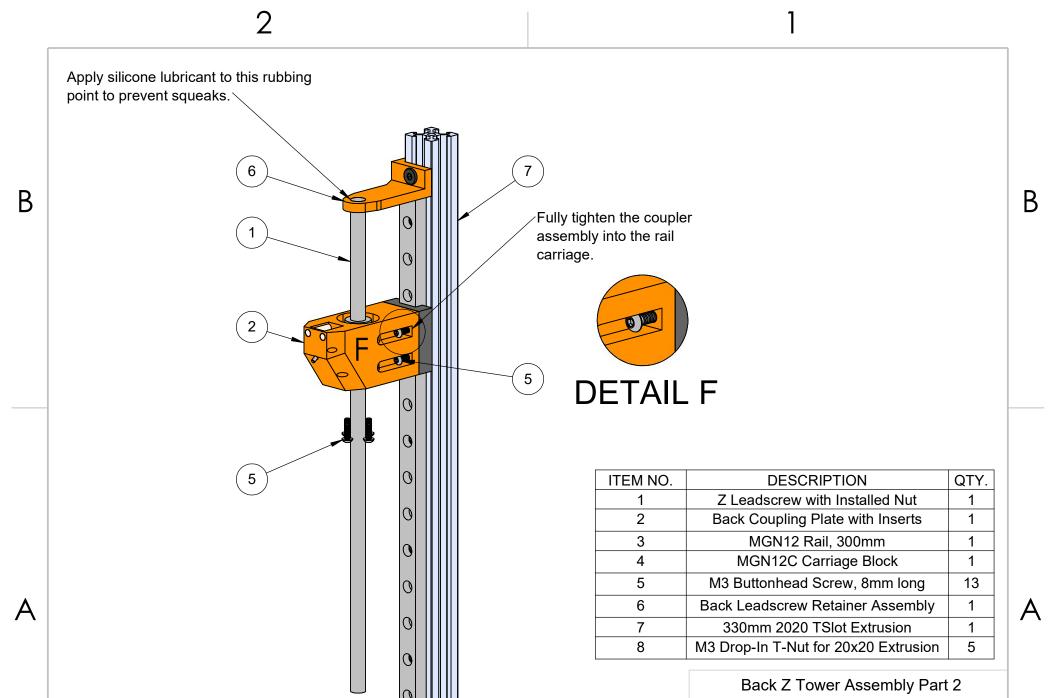
ITEM NO.	DESCRIPTION	QTY.
4	M3 Buttonhead Screw, 8mm long	8
5	Left Coupler Assembly with Leadscrew	1
6	Right Coupler Assembly with Leadscrew	1
7	Extrusion Assembly with Rail	2

Front Z Tower Assembly Part 2



A





•

Created by:

Joshua Vasquez

SCALE: 1:2

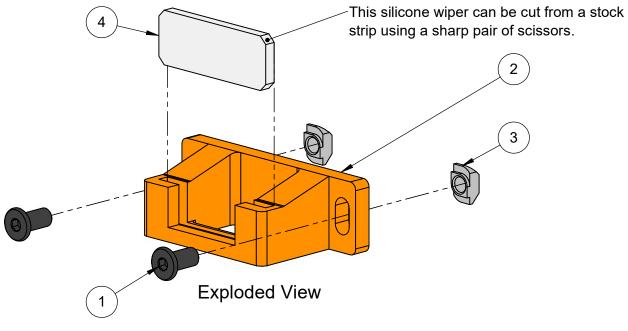
last edited:

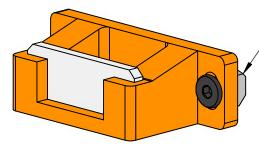
10/21/2019

**SHEET 11 OF 18** 

В

Make one assembly per tool. The remaining instructions depict a setup with two tools.





Keep these nuts loose, about 2 turns. They will be fully tightened into the frame later.

**Assembled View** 

ITEM NO.	DESCRIPTION	QTY.
1	M5 x 0.8 Screw, Low Profile, 10mm	2
2	Ooze Wiper	1
3	M5 Drop-In T-Nut for 20x20 Extrusion	2
4	15mm x 40mm Silicone Wiper	1

Extruder Wiper Assembly			
(CC)	<b>(i)</b>	Created by: Joshua Vasquez	last edited: 10/21/2019
		SCALE: 1:1	SHEET 12 OF 18

•

Slide these brackets loosely into the frame, but do not tighten them. They will be tightened at a later step.

A

В

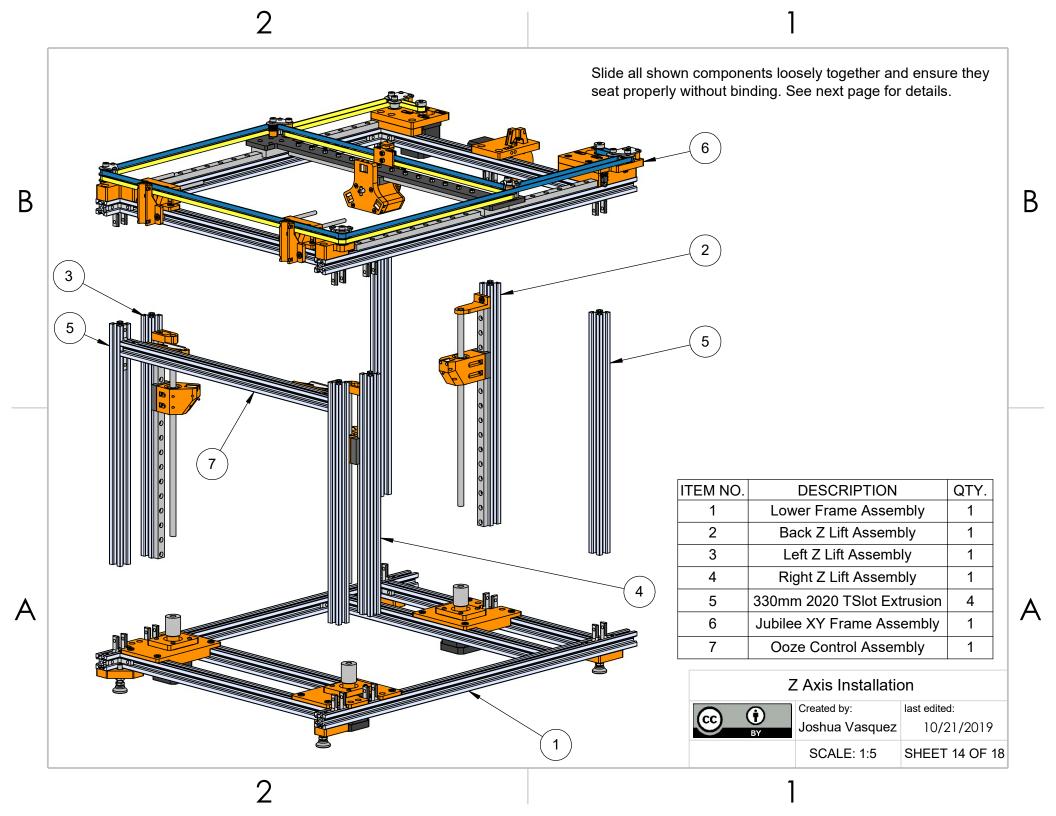
ITEM NO. DESCRIPTION		QTY.
1	1 389mm TSlot Extrusion	
2	Inside corner bracket	
3	Extruder Wiper Assembly	

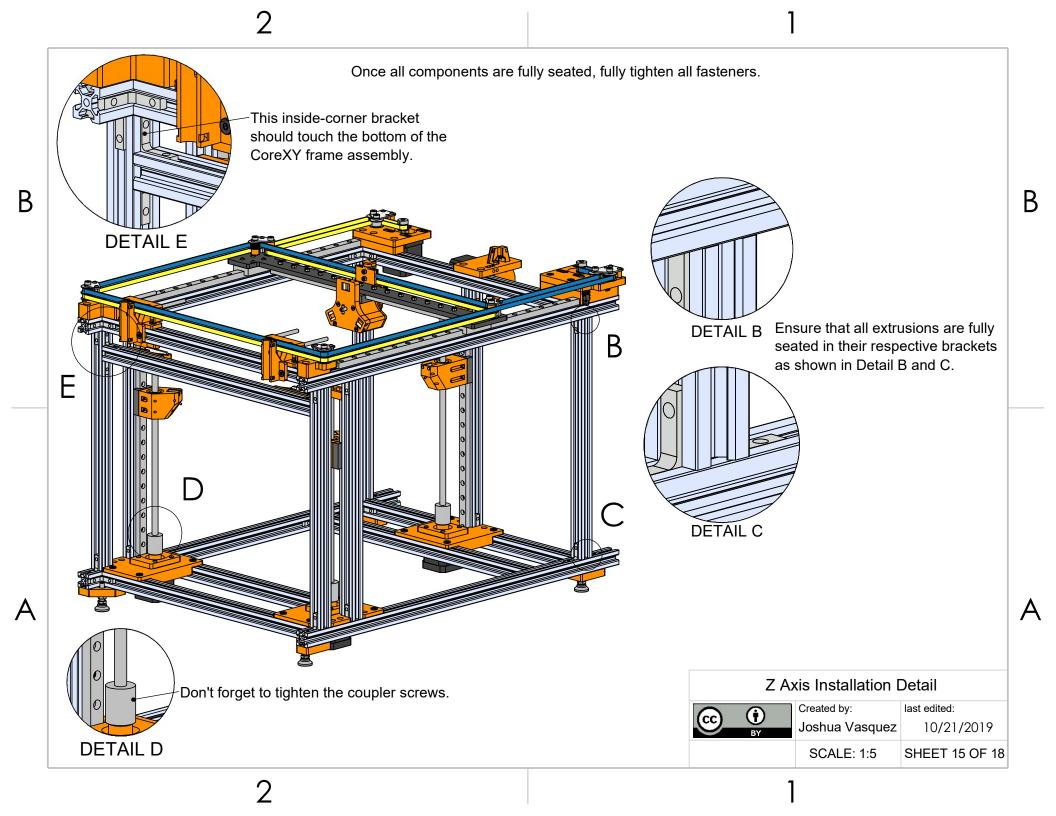
Ooze Control Assembly

Created by: last edited:
Joshua Vasquez 10/21/2019

SCALE: 1:2 SHEET 13 OF 18

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

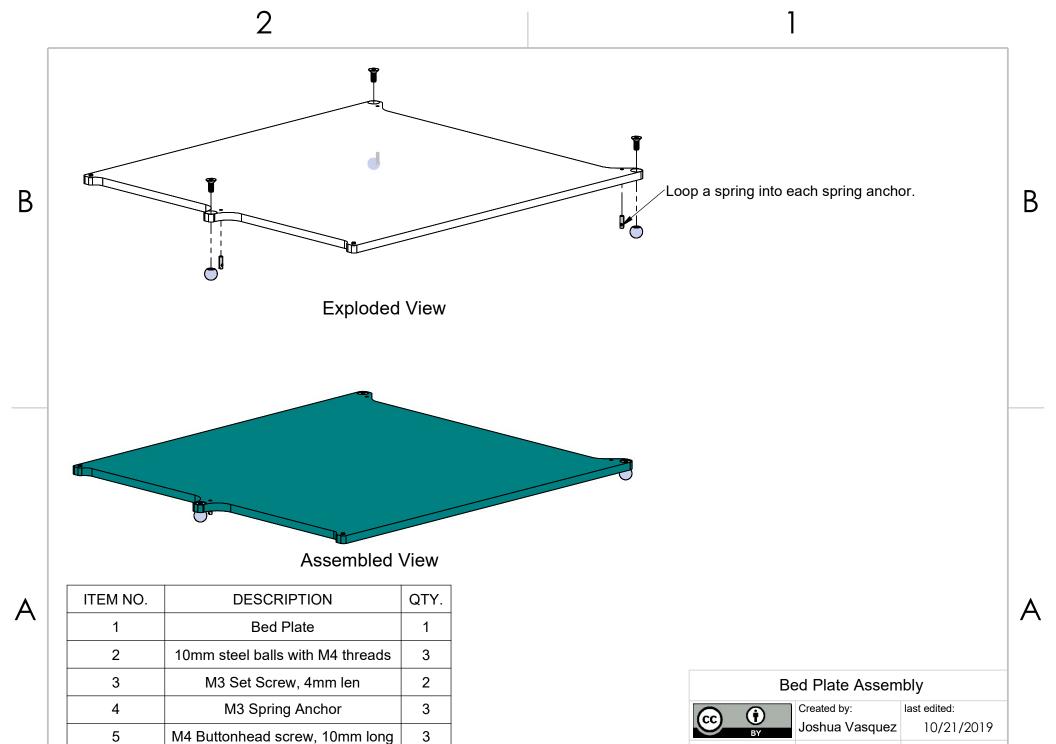
В



A

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

Bed Spring Fabrication			
(CC)	<b>(</b> )	Created by: Joshua Vasquez	last edited: 10/21/2019
		SCALE: 1:3	SHEET 16 OF 18

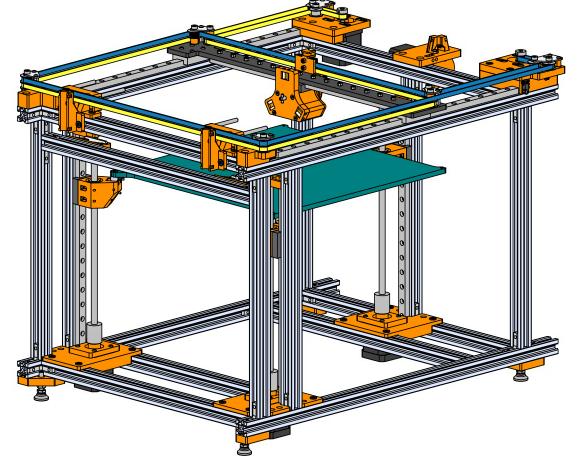


SCALE: 1:3

**SHEET 17 OF 18** 

Install the bed plate by seating it into the coupling.

В





В

Loop the dangling springs into the M2 dowel pins. Use the smallest Allen Key to snag the lower loop and seat it onto the dowel pin.

Do NOT use your fingers as the springs are both a pinch and poke hazard.

Bed Plate Installation			
CC	<b>(</b> )	Created by: Joshua Vasquez	last edited: 10/21/2019
		SCALE: 1:5	SHEET 18 OF 18