

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.

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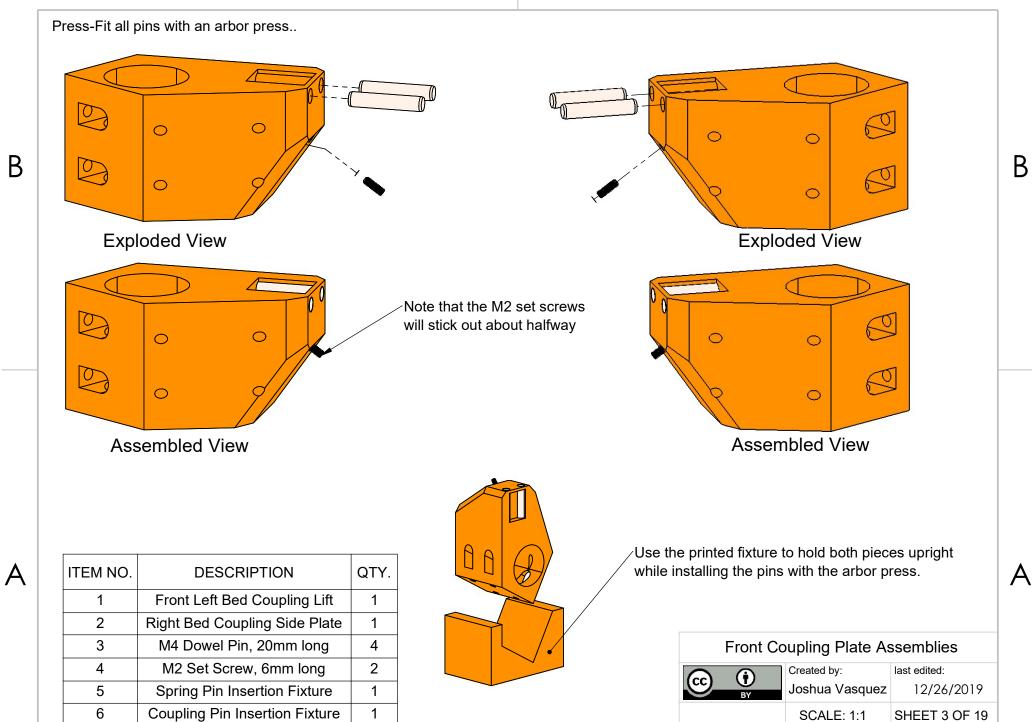
ITEM NO.	DESCRIPTION	QTY.
1	8mm T8x2 Trapezoidal Lead Screw	3
2	8mm T8x2 Small Delrin Anti-Backlash Nut	3

Lead Screw Nut Installation

Created by:
Joshua Vasquez

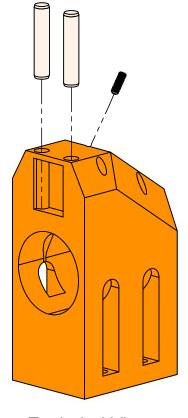
SCALE: 1:3

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Press-Fit the M4 dowel pins with an arbor press. Install the set screw with a hex key.

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Exploded View

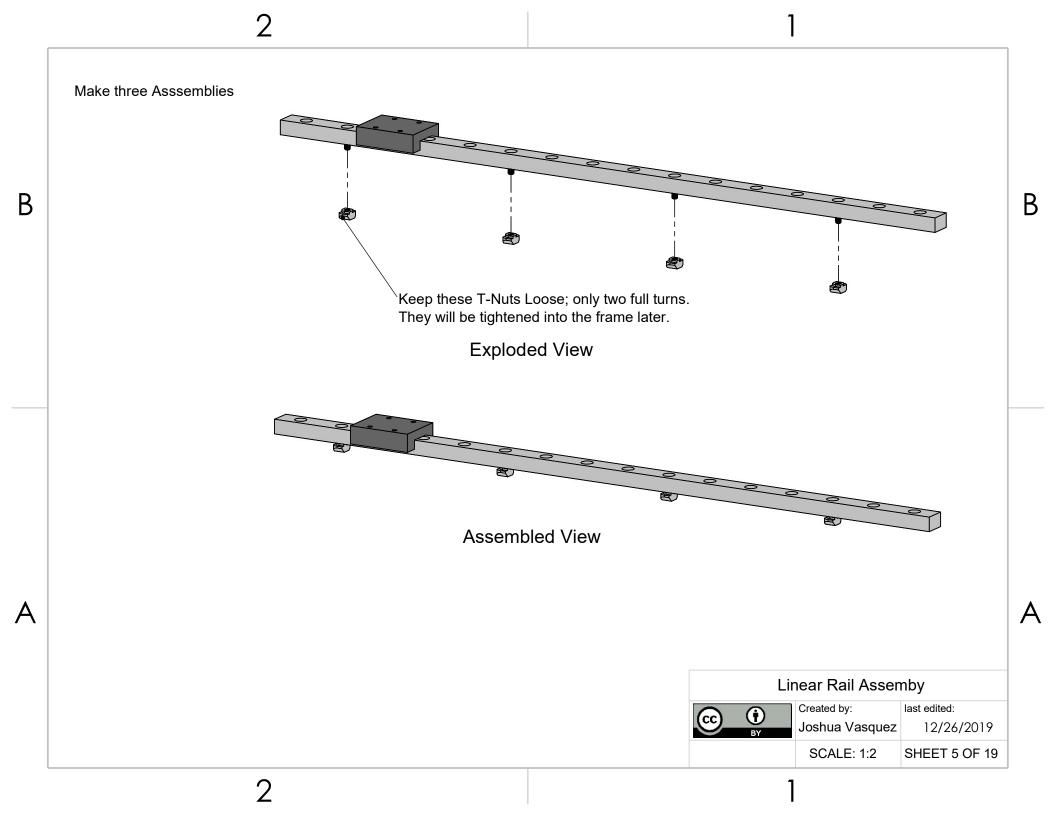


Assembled View

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ITEM NO.	DESCRIPTION	QTY.
1	Bed Coupling Back Plate	1
2	M4 Dowel Pin, 20mm long	2
3	M2 Set Screw, 6mm long	1

Back Z Lift Assembly				
(3)	(i) BY		Created by: Joshua Vasquez	last edited: 12/26/2019
			SCALE: 1:1	SHEET 4 OF 19

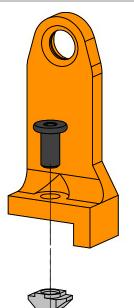






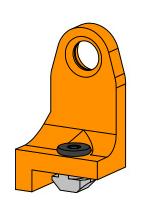


Exploded Views



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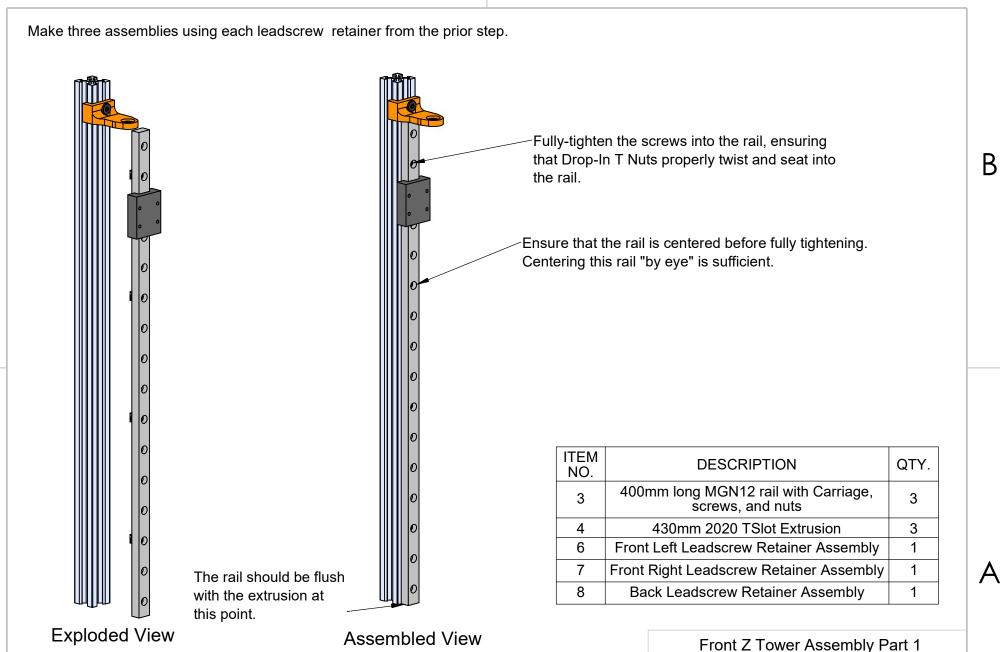
Keep these nuts loose. About two turns. They will be tightened into the frame later.

Assembled Views

ITEM NO.	DESCRIPTION	
1	Back Leadscrew Retainer	1
2	Front Left Leadscrew Retainer	1
3	Front Right Leadscrew Retainer	1

Leadscrew Retainer Assembly			
<u></u>	()	Created by: Joshua Vasquez	last edited: 12/26/2019
		SCALE: 1:1	SHEET 6 OF 19

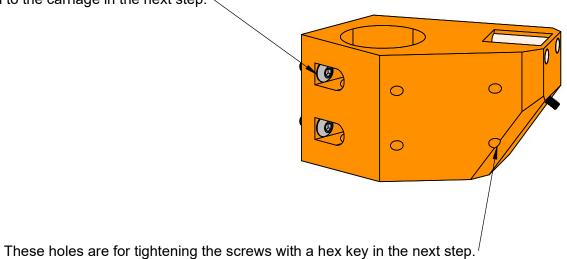




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Install four M3, 8mm long screws into each hole first on both the front left and right bed coupling lifts.

Installing them here first will make them easier to attach to the carriage in the next step.

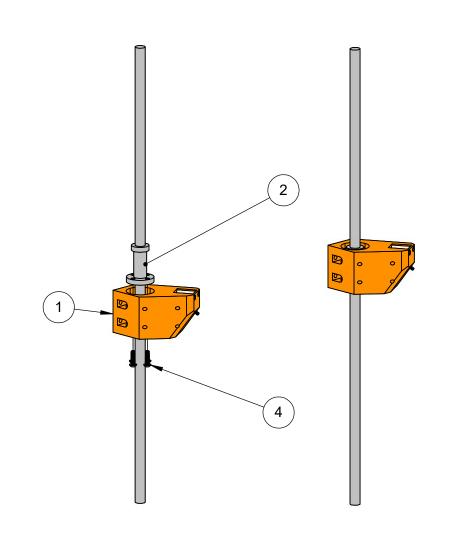


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ITEM NO.	DESCRIPTION	QTY.
1	Front Left Bed Coupling Lift with pins and set screw	1
2	Front Right Bed Coupling Lift with pins and set screw	1
5	M3 Buttonhead Screw, 8mm long	8

Screw Preloading			
<u>@</u>	(i) BY	Created by: Joshua Vasquez	last edited: 12/26/2019
		SCALE: 1:1	SHEET 8 OF 19





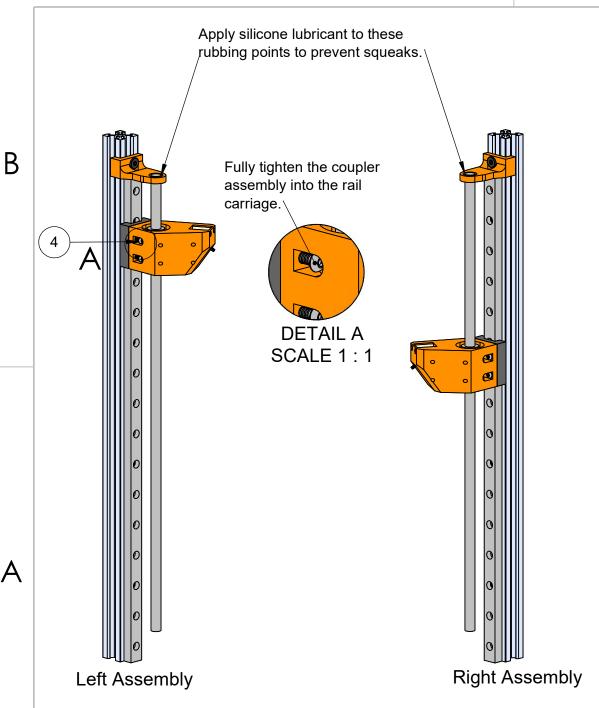
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ITEM NO.	DESCRIPTION	
1	Left Coupling Side Plate with Inserts	1
2	8mm T8x2 Small Delrin Anti-Backlash Nut	1
3	8mm T8x2 Trapezoidal Lead Screw	1
4	M3 Buttonhead Screw, 8mm long	4

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Front Z Lift Assemblies			
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	SCALE: 1:3	SHEET 9 OF 19	



ITEM NO.	DESCRIPTION	
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
10	Front Left Leadscrew Retainer Assembly	1

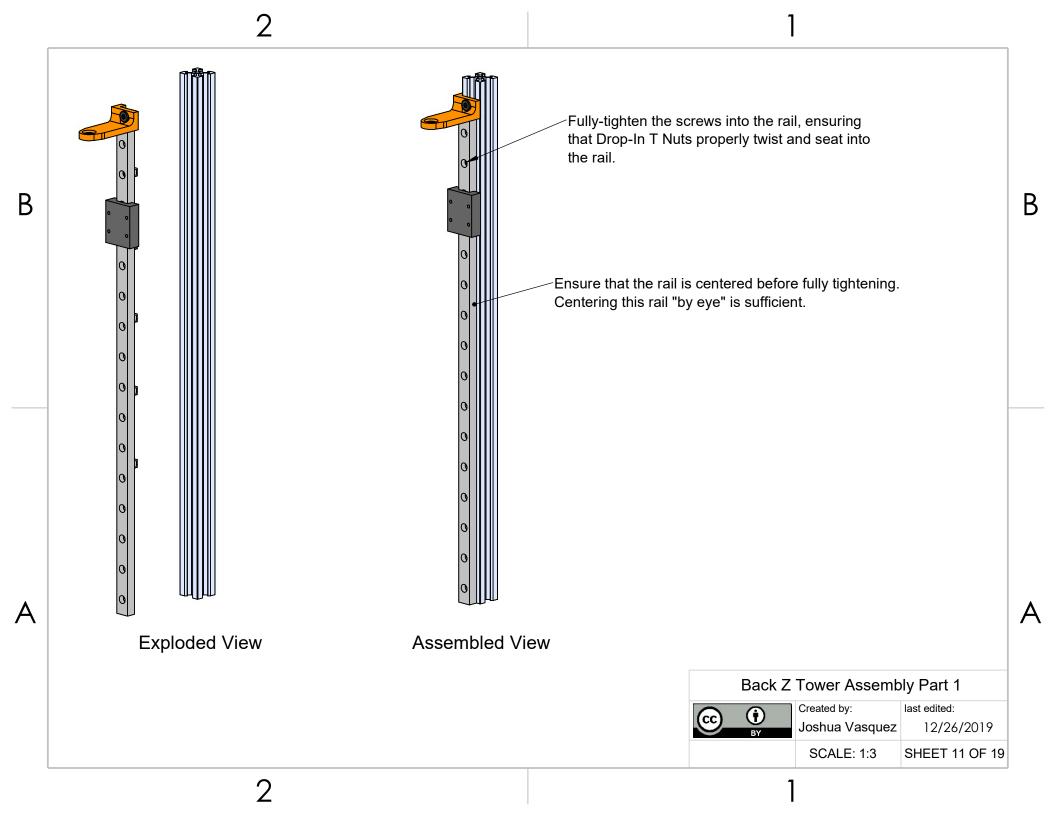
Front Z Tower Assembly Part 2

last edited:

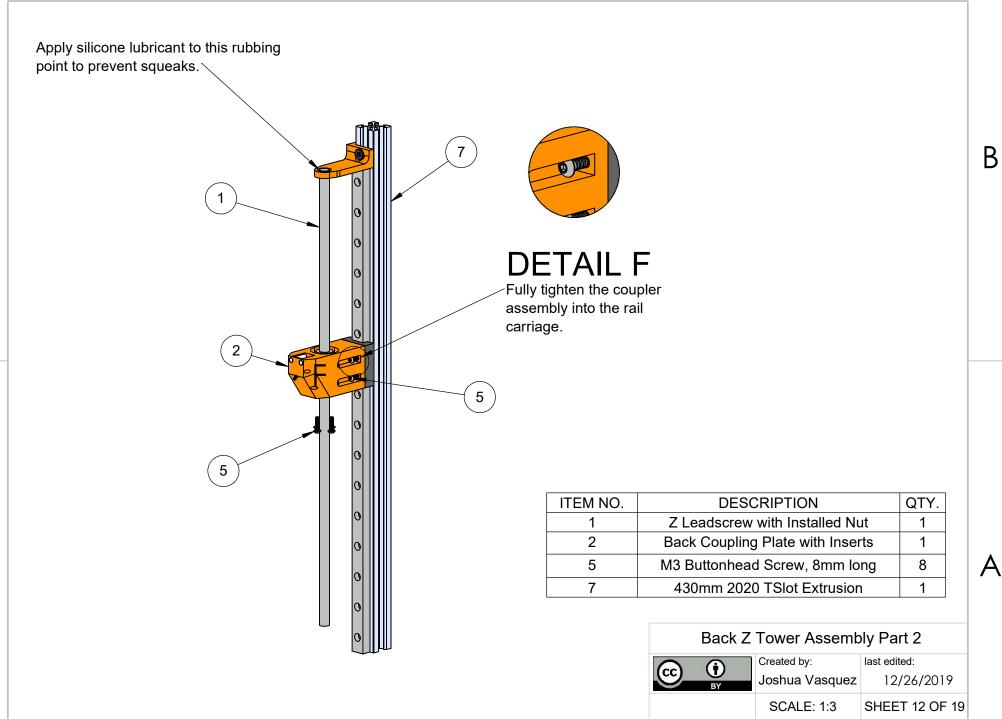
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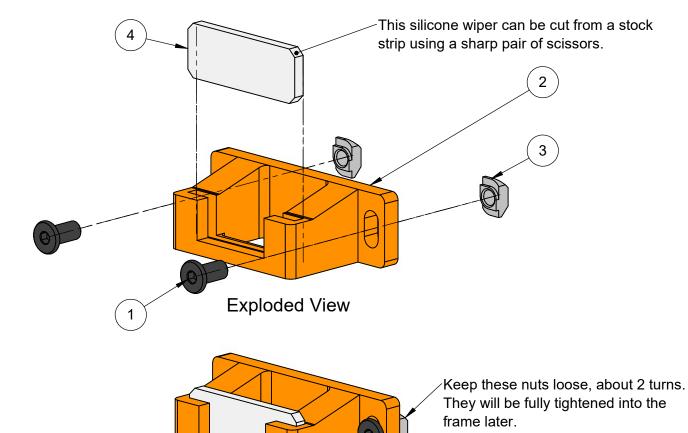






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Make one assembly per tool. The remaining instructions depict a setup with two tools.



Assembled View

ITEM NO.	DESCRIPTION	QTY.
1	M5 Buttonhead Screw, 10mm long	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			
(00)	()	Created by: Joshua Vasquez	last edited: 12/26/2019
		SCALE: 1:1	SHEET 13 OF 19

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

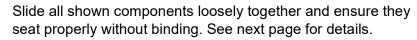
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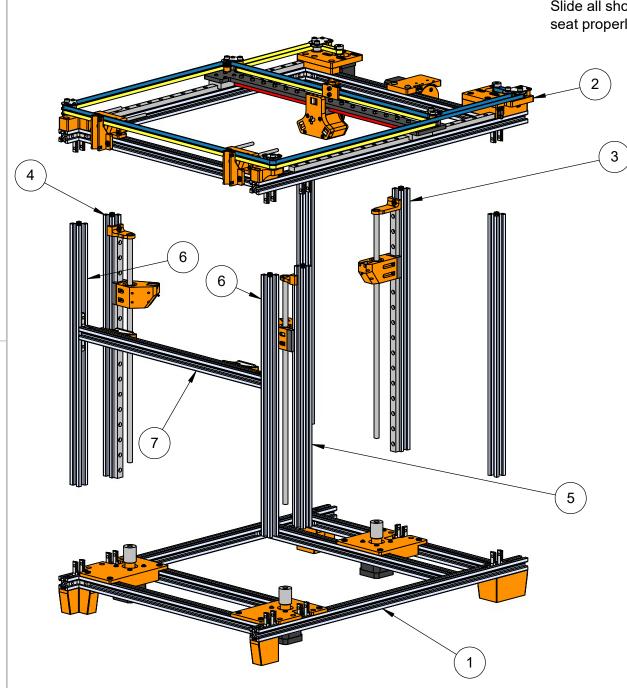
ITEM NO.	DESCRIPTION	
1	409mm TSlot Extrusion	1
2	Interior Inside Corner Bracket	4
3 Extruder Wiper Assembly		2

Ooze Control Assembly			
(CC)	()	Created by: Joshua Vasquez	last edited: 12/26/2019
		SCALE: 1:2	SHEET 14 OF 19

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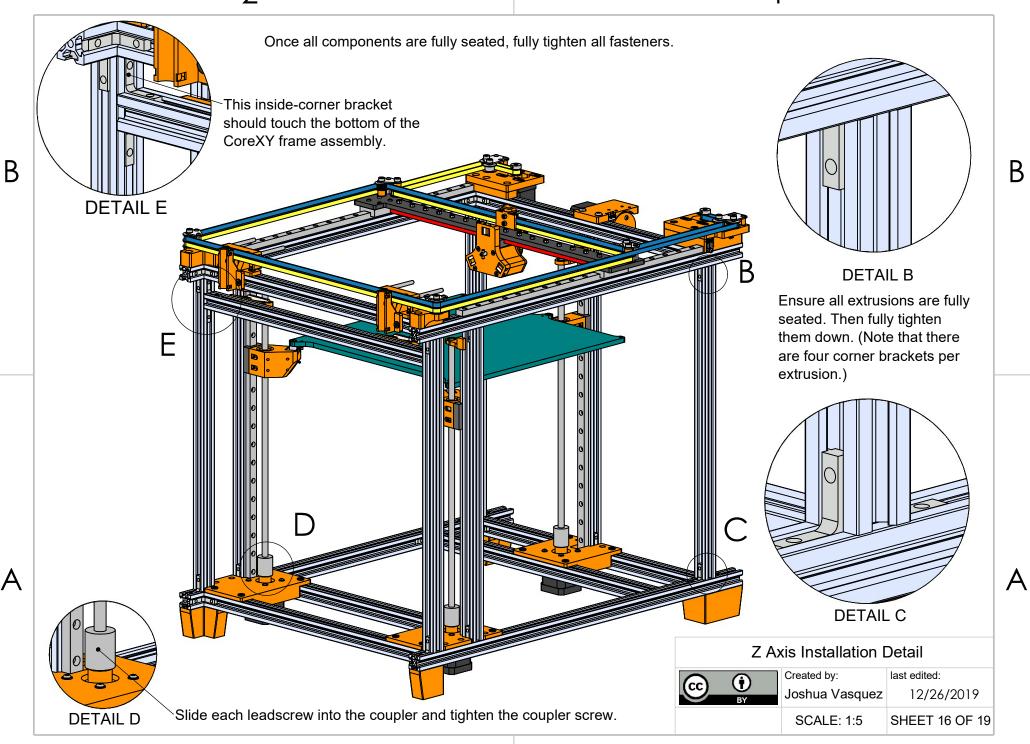
ITEM NO.	DESCRIPTION	QTY.
1	Lower Frame Assembly	1
2	Jubilee XY Frame Assembly	1
3	Back Z Lift Assembly	1
4	Left Z Lift Assembly	1
5	Right Z Lift Assembly	1
6	430mm 2020 TSlot Extrusion	4
7	Ooze Control Assembly	1

Z Axis Installation			
		Created by:	last edited:
CC	ВУ	Joshua Vasquez	12/26/2019
		SCALE: 1:6	SHEET 15 OF 19

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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

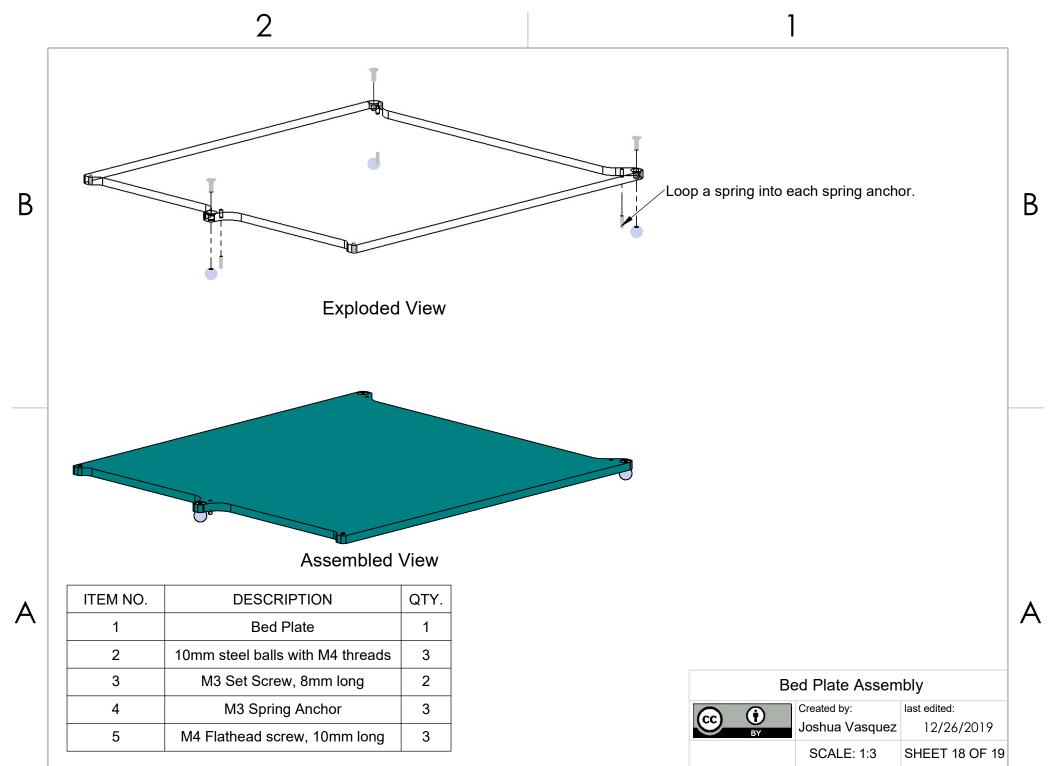
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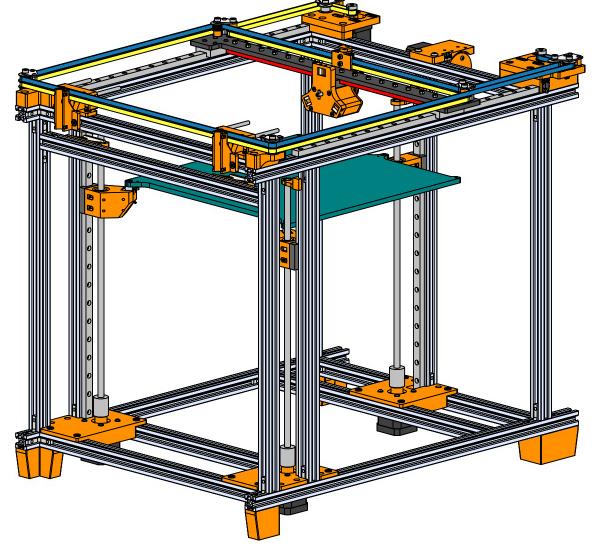
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ITEM NO.	DESCRIPTION	QTY.
1	Extension Spring Stock (McMaster-Carr: 9665K12)	60mm

Bed Spring Fabrication			
CC	()	Created by: Joshua Vasquez	last edited: 12/26/2019
		SCALE: 1:3	SHEET 17 OF 19



Install the bed plate assembly by seating it into the coupling. It should slide into the proper position.



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

Created by: last edited:

Joshua Vasquez

SCALE: 1:5

SHEET 19 OF 19

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