

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

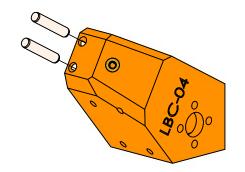
Lead Screw Nut Installation

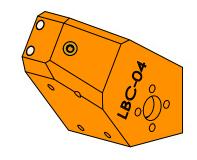
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Joshua Vasquez

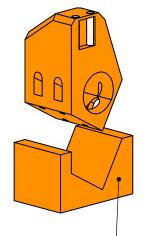
SCALE: 1:3

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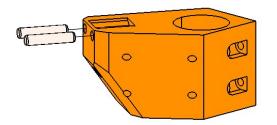
Press-Fit all pins with an arbor press..

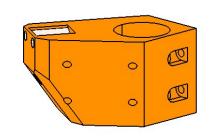






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Use the printed fixture to hold both pieces upright while installing the pins with the arbor press.

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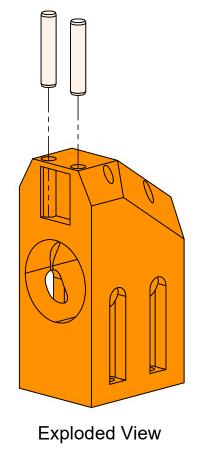
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ITEM NO.	DESCRIPTION	QTY.
1	Left Bed Coupler with Insert	1
2	Right Bed Coupler with Insert	1
3	M4 Dowel Pin, 20mm long	4
4	Spring Pin Insertion Fixture	1
5	Coupling Pin Insertion Fixture	1

Front Coupling Plate Assemblies				
<u></u>	Created by: last edited:			
(CC)	BY	Joshua Vasquez	3/28/2020	
		SCALE: 2:3	SHEET 3 OF 16	

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



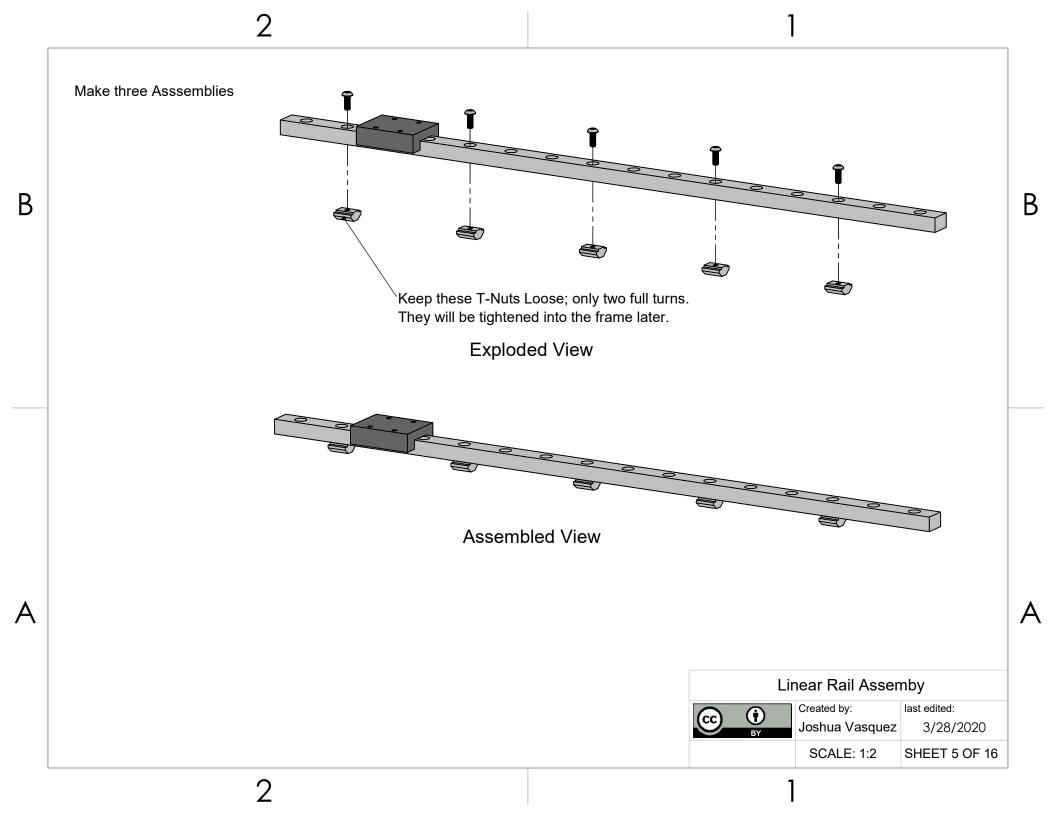
Assembled View

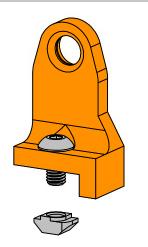
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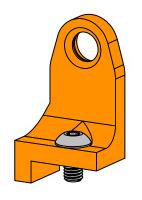
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ITEM NO.	DESCRIPTION	
1	M4 Dowel Pin, 20mm long	2
2	Back Bed Coupler with Insert	1

Back Z Lift Assembly				
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		SCALE: 1:1	SHEET 4 OF 16	

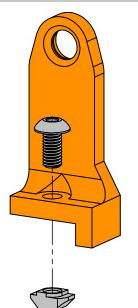




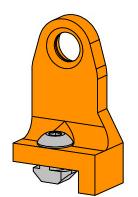


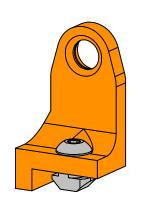


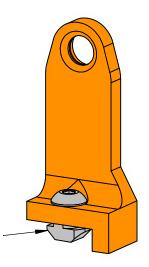
**Exploded Views** 



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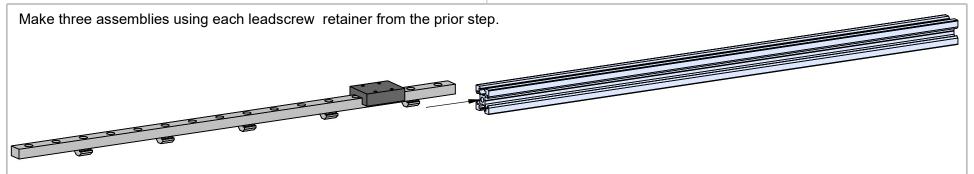
Keep these nuts loose. About two turns. They will be tightened into the frame later.

## Assembled Views

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

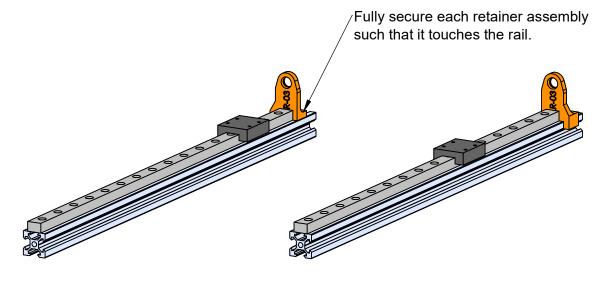
Leadscrew Retainer Assembly			
<u></u>	<b>(i)</b> BY	Created by: Joshua Vasquez	last edited: 3/28/2020
		SCALE: 1:1	SHEET 6 OF 16



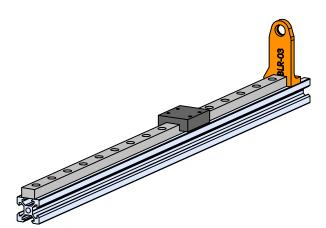


Ensure that the rail is centered. Then fully tighten all M3 screws. Note that centering this rail "by eye" is sufficient.

The rail should be flush with the extrusion at this point.



ITEM NO.	DESCRIPTION	QTY.
3	400mm long MGN12 rail with Carriage, screws, and nuts	3
4	430mm 2020 TSlot Extrusion	3



	Front Z Tower Assembly Part 1		
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		SCALE: 1:3	SHEET 7 OF 16



These holes are for tightening the screws with a hex key in the next step. 0 0 0 Install four M3, 8mm long screws into each hole first on both the front left and right bed coupling lifts.

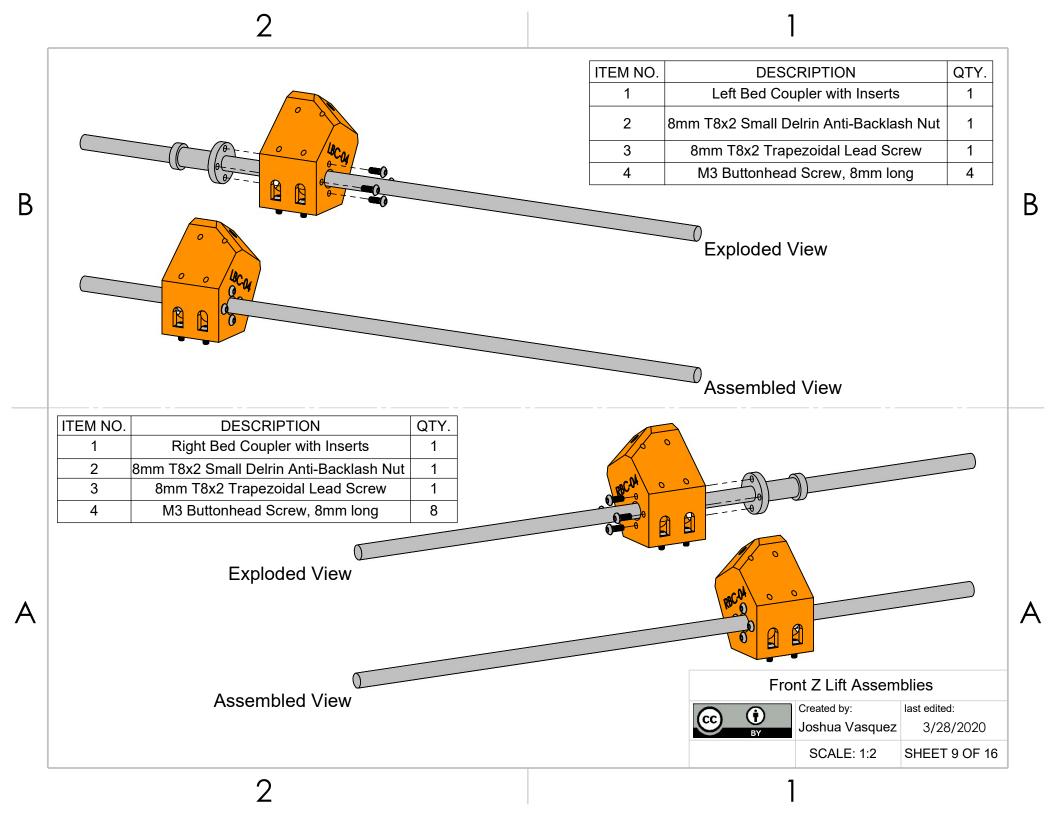
Installing them here first will make them easier to attach to the carriage in the next step.

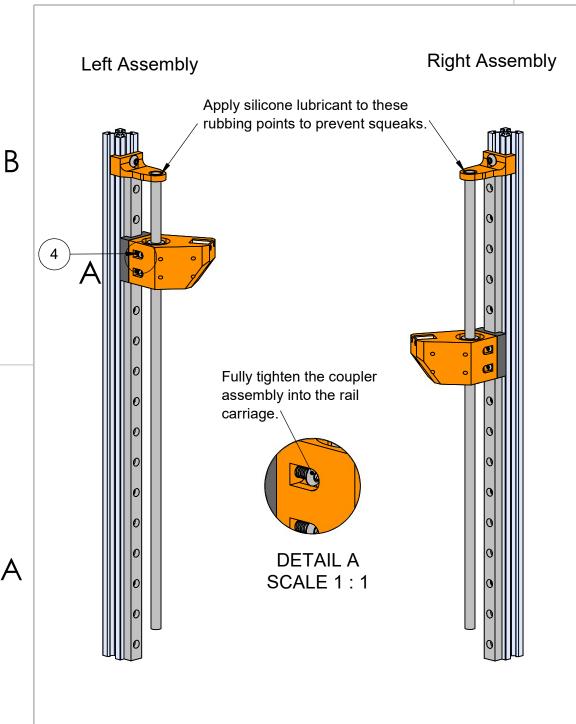
ITEM NO.	DESCRIPTION	QTY.
1	Left Bed Coupler with Pins and Insert	1
2	Right Bed Coupler with Pins and Insert	1
3	Back Bed Coupler with Pins and Insert	1
5	M3 Buttonhead Screw, 8mm long	12

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Screw Preloading			
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		SCALE: 1:1	SHEET 8 OF 16

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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 Assemblies

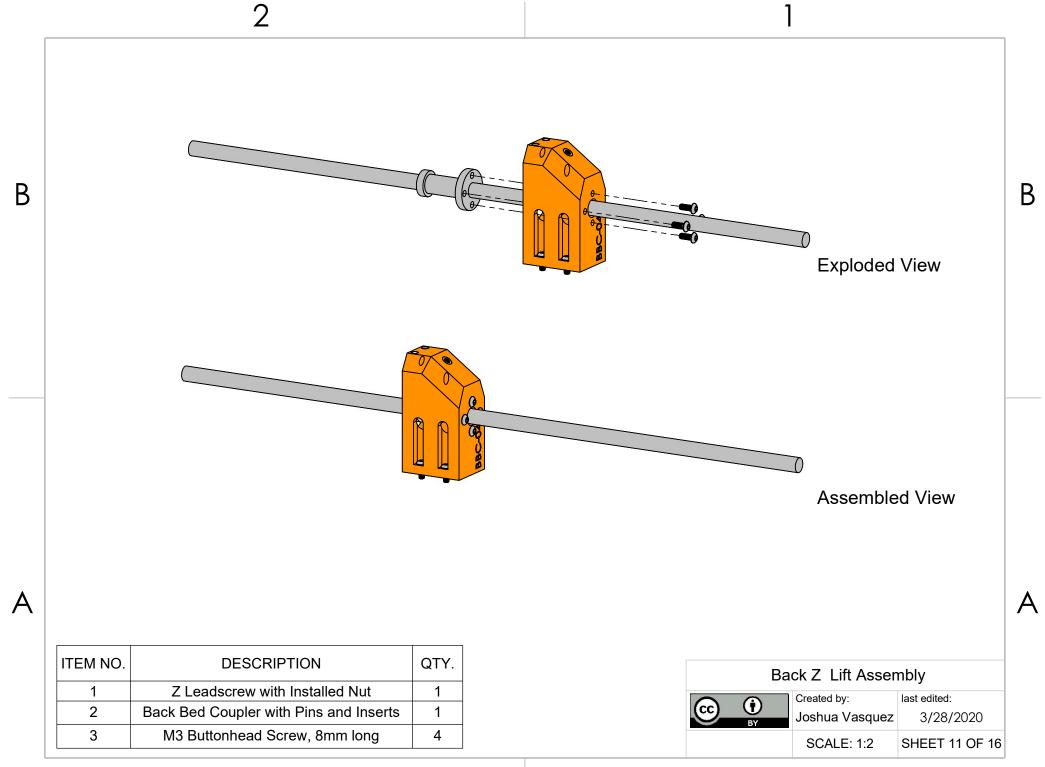
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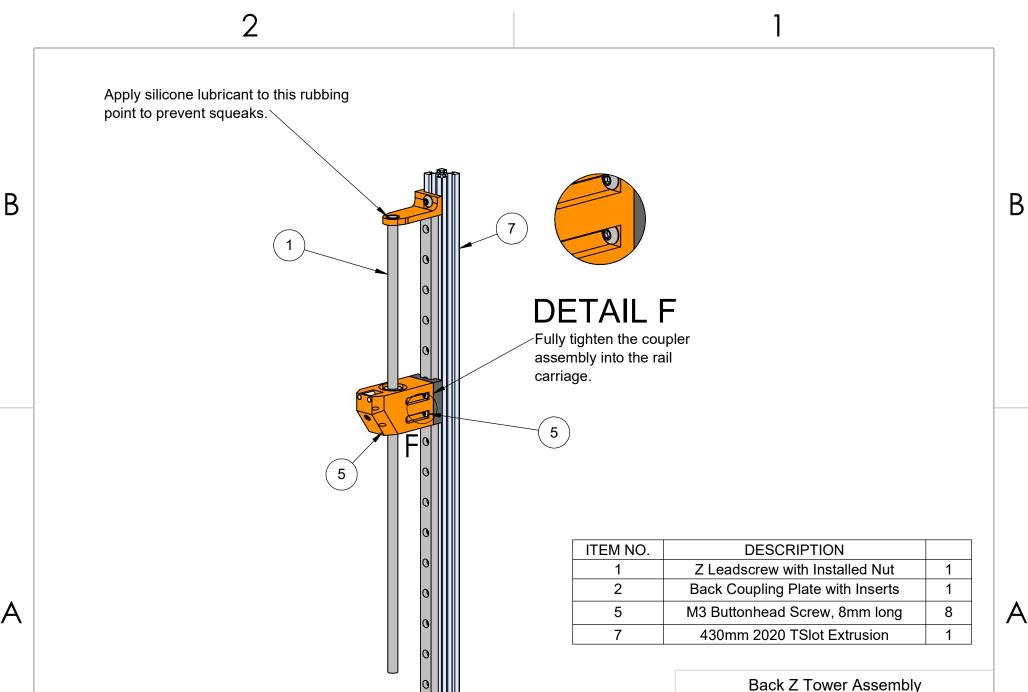
Created by:

Joshua Vasquez

SCALE: 1:3 SHEET 10 OF 16

3/28/2020



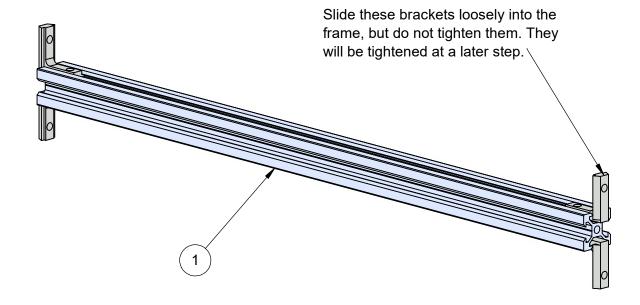


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SCALE: 1:3

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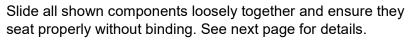
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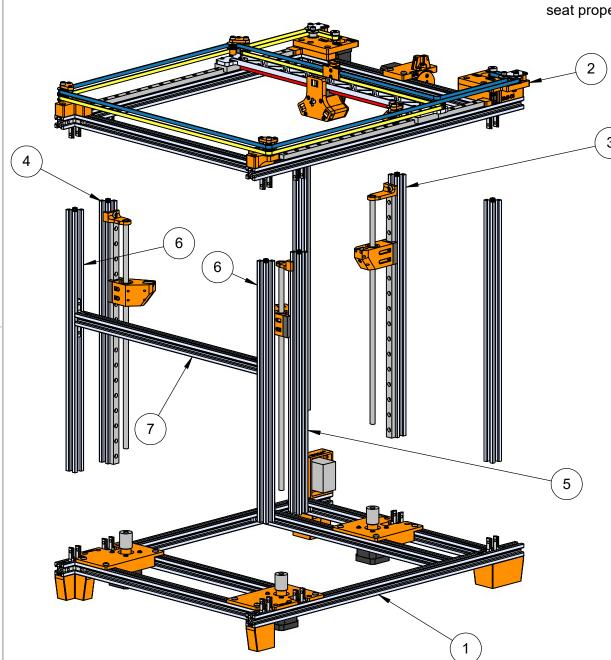
4 400mm TClet Evitaries	
1 409mm TSlot Extrusion	1
2 Interior Inside Corner Bracket	4

Ooze Control Assembly						
(0)	<b>(</b> )	Created by: Joshua Vasquez	last edited: 3/28/2020			
		SCALE: 1:2	SHEET 13 OF 16			

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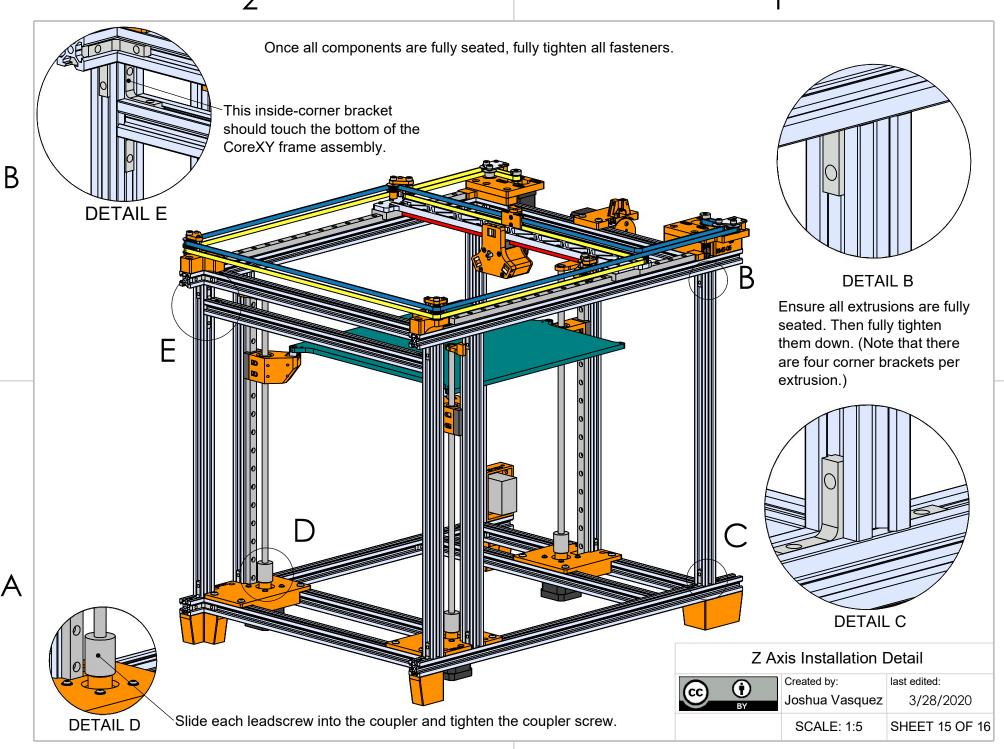
ITEM NO.	DESCRIPTION	
1	1 Lower Frame Assembly	
2	2 CoreXY Frame Assembly	
3	3 Back Z Lift Assembly	
4	Left Z Lift Assembly	1
5 Right Z Lift Assembly		1
6	430mm 2020 TSlot Extrusion	4
7 Ooze Control Assemb		1
8	IEC320 C14 120V Power Socket	1
9 M3 Flathead Screw, 10mm long		2
10	10 M3 Locknut	
11	11 PSU Socket Holder	
12		
13	M5 Drop-In T-Nut for 20x20 Extrusion	

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	SCALE: 1:6	SHEET 14 OF 16

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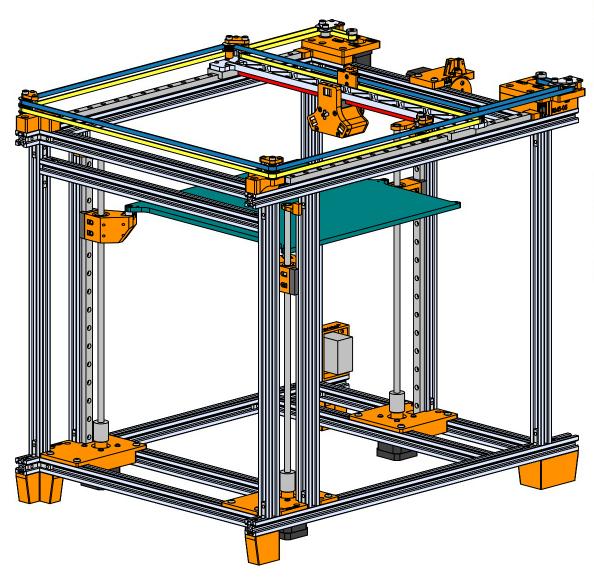


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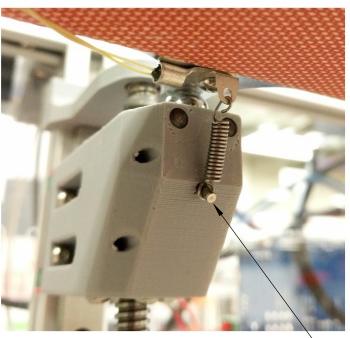
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Install the bed plate assembly by seating it into the coupling. It should slide into the proper position.



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Loop the dangling springs into the M2 screws. Use either the pliers or the smallest Hex Key to snag the lower loop and seat it onto the anchor point.

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

Bed Plate Installation

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