

1

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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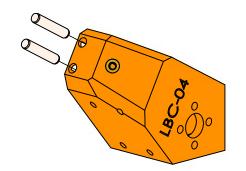
A

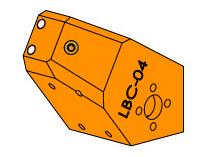
ITEM NO.	DESCRIPTION	QTY.
1	8mm T8x2 Trapezoidal Lead Screw	3
2	8mm T8x2 Small Delrin Anti-Backlash Nut	3

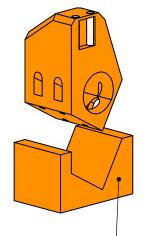
Lead Screw Nut Installation

	Created by:	last edited:
© BY	Joshua Vasquez	5/23/2020
	SCALE: 1:3	SHEET 2 OF 16

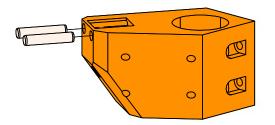
Press-Fit all pins with an arbor press..

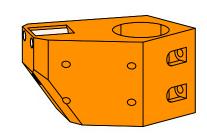






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Use the printed fixture to hold both pieces upright while installing the pins with the arbor press.

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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

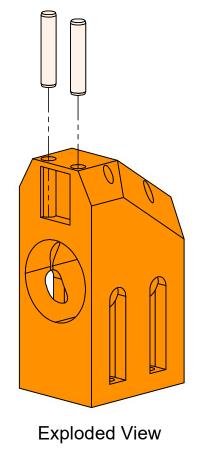
Front Coupling Plate Assemblies			
	Created by:	last edited:	
BY	Joshua Vasquez	5/23/2020	
	SCALE: 2:3	SHEET 3 OF 16	

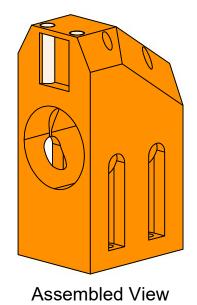
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Press-Fit the M4 dowel pins with an arbor press. Install the set screw with a hex key.





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

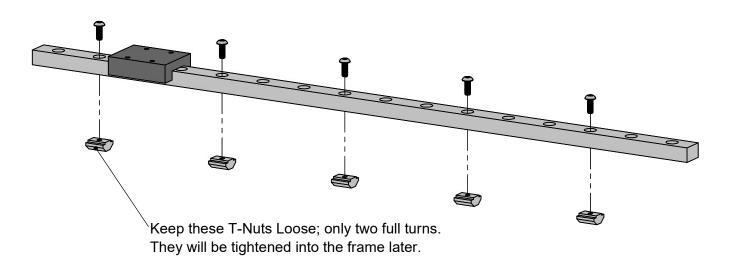
Back Z Lift Assembly

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Joshua Vasquez

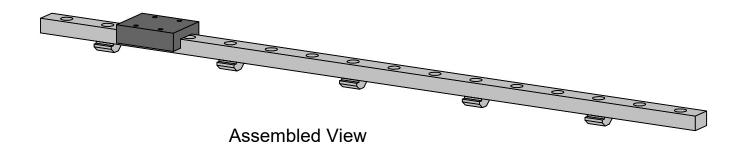
SCALE: 1:1

SHEET 4 OF 16

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**Exploded View** 

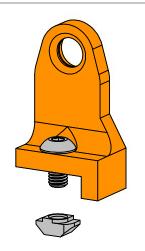


Α

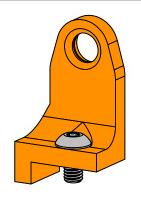
В

ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 8mm long	5
2	MGN12C Carriage Block	1
3	length@mgn12_rail_395mm.SLDPRT mm long MGN12 rail	1
4	M3 Slide In T Nuts	5

Linear Rail Assemby				
(CC)	(i) BY		Created by: Joshua Vasquez	last edited: 5/23/2020
			SCALE: 1:2	SHEET 5 OF 16

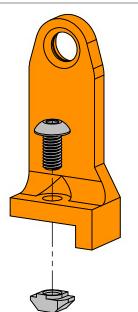


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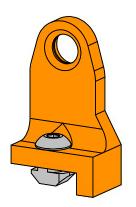


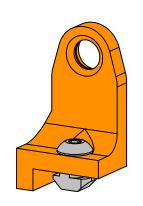


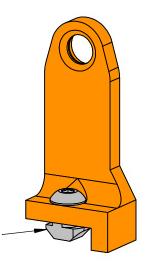
**Exploded Views** 



В







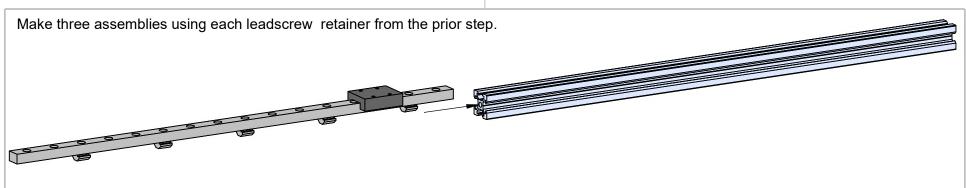
Keep these nuts loose. About two turns. They will be tightened into the frame later.

## Assembled Views

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

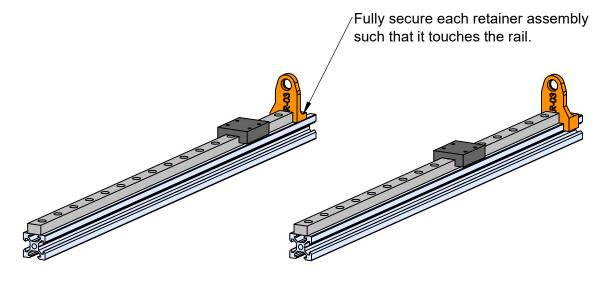
	Leadsc	rew Retainer A	ssembly
<b>CC</b>	<b>(i)</b> BY	Created by: Joshua Vasquez	last edited: 5/23/2020
		SCALE: 1:1	SHEET 6 OF 16



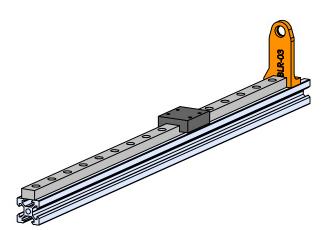


Ensure that the rail is centered. Then fully tighten all M3 screws. Note that centering this rail "by eye" is sufficient.

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

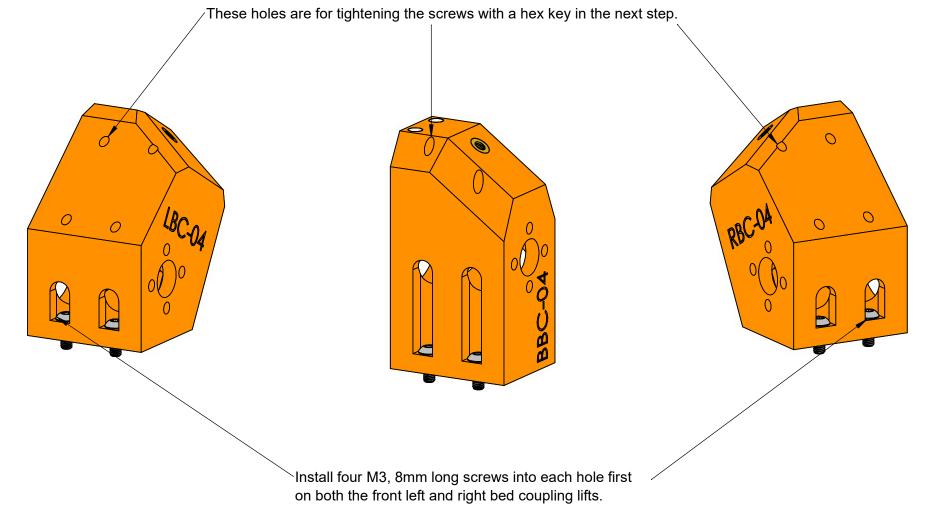


ITEM NO.	DESCRIPTION	QTY.
3	400mm long MGN12 rail with Carriage, screws, and nuts	3
4	430mm 2020 TSlot Extrusion	3



	Front Z	Tower Assemb	ly Part 1
	<b>(i)</b>	Created by:	last edited:
<u></u>	BY	Joshua Vasquez	5/23/2020
		SCALE: 1:3	SHEET 7 OF 16





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	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

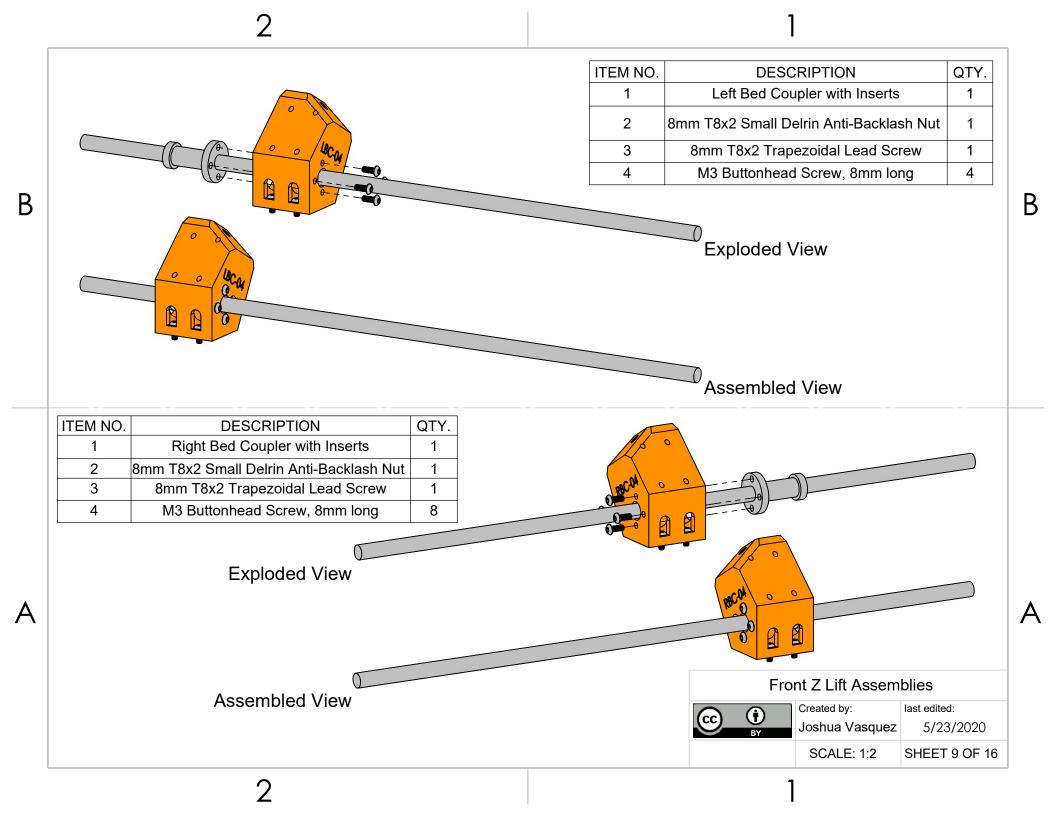
M3 Buttonhead Screw, 8mm long

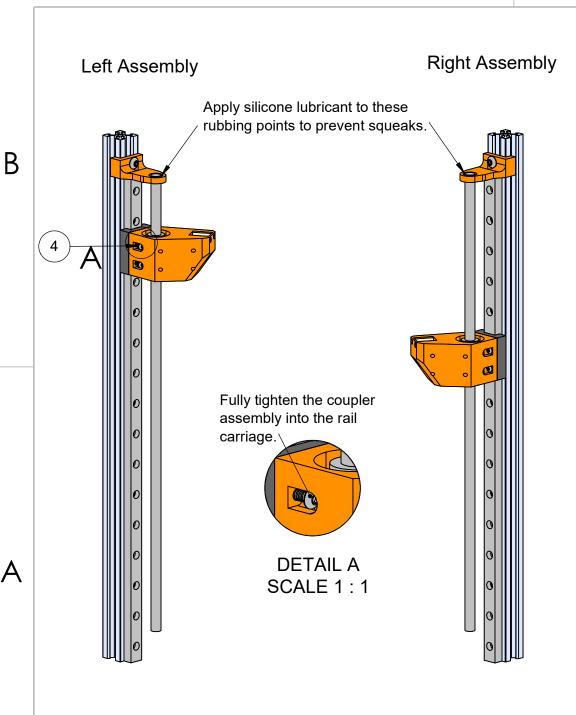
В

Screw Preloading			
(CC)	(i) BY	Created by: Joshua Vasquez	last edited: 5/23/2020
		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

last edited:

Joshua Vasquez 5/23/2020

SCALE: 1:3 SHEET 10 OF 16

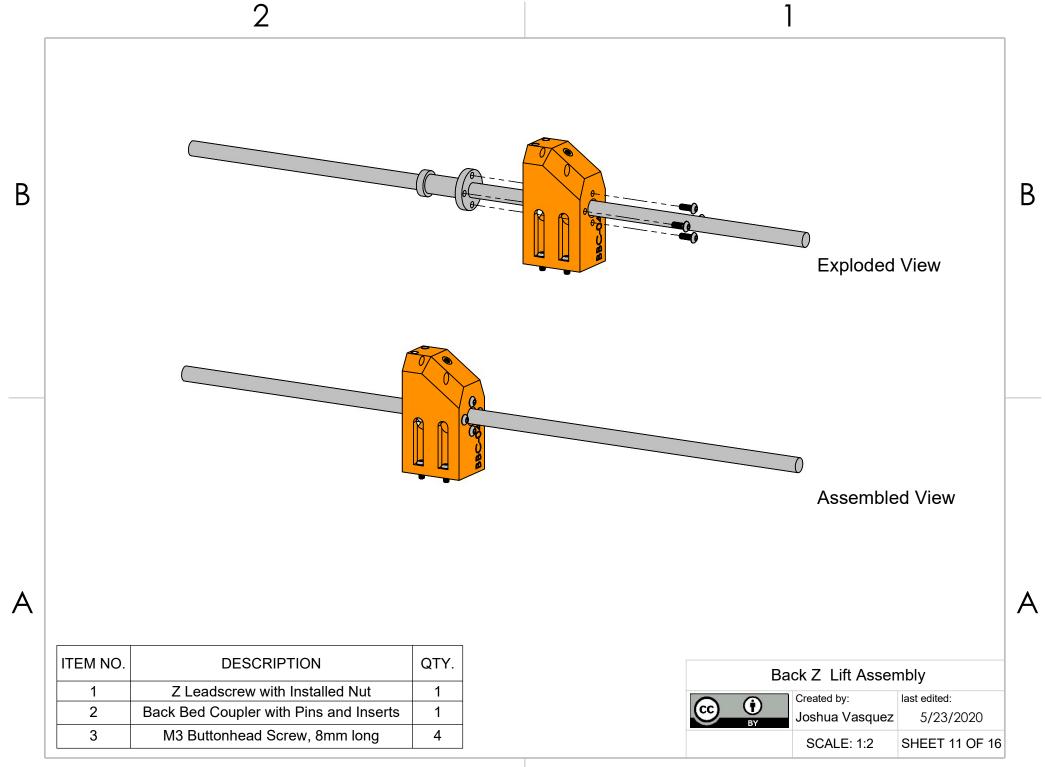
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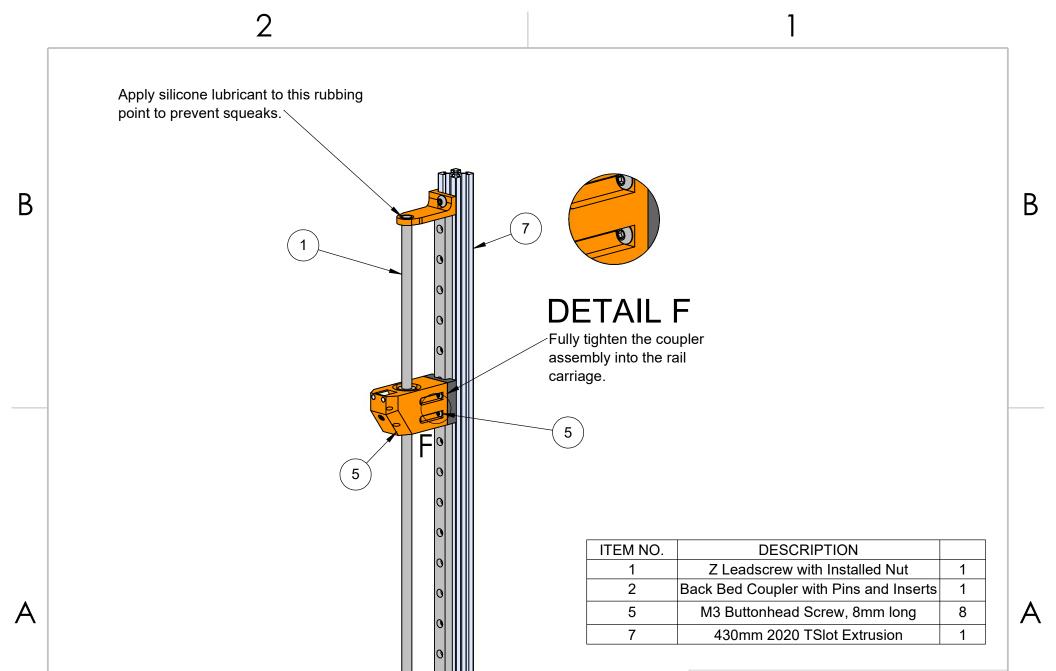
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Back Z Tower Assembly

Joshua Vasquez

SCALE: 1:3

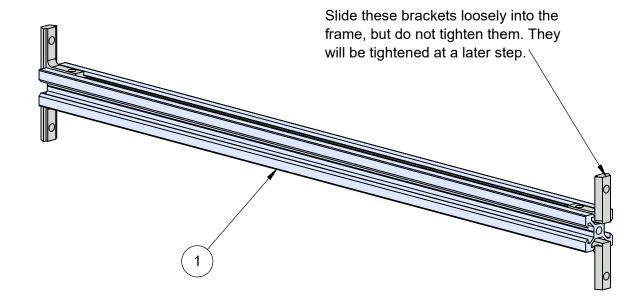
last edited:

5/23/2020

**SHEET 12 OF 16** 

Created by:





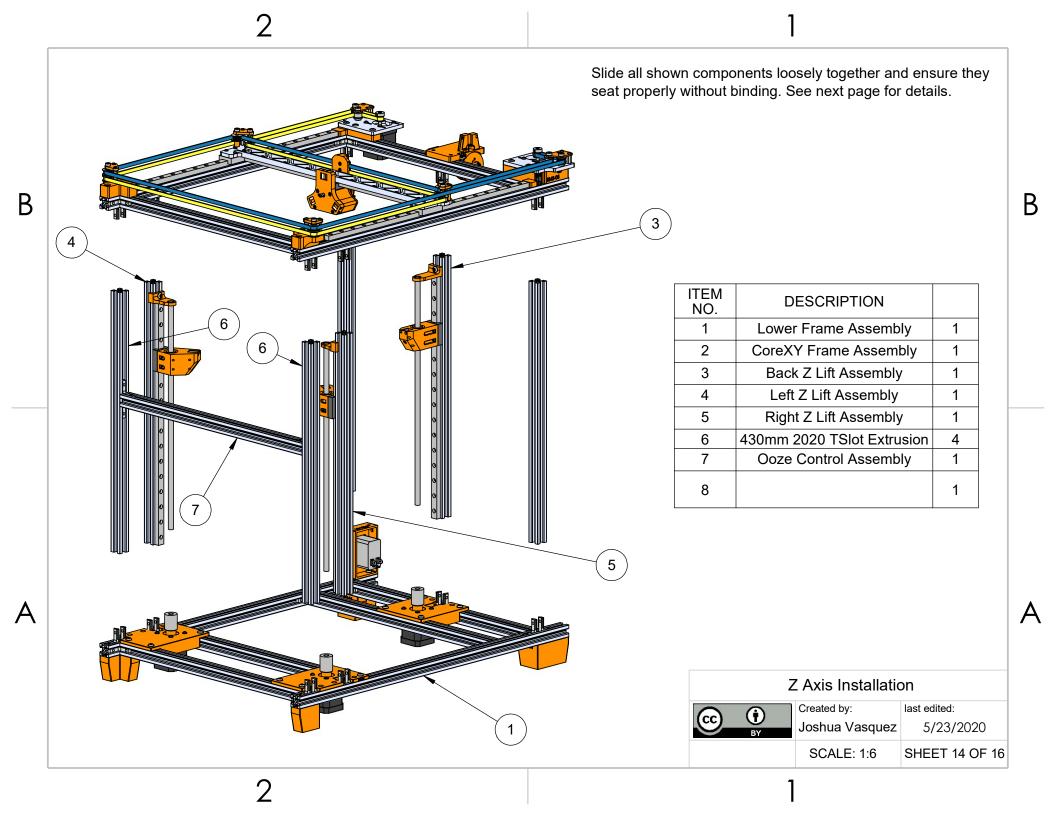
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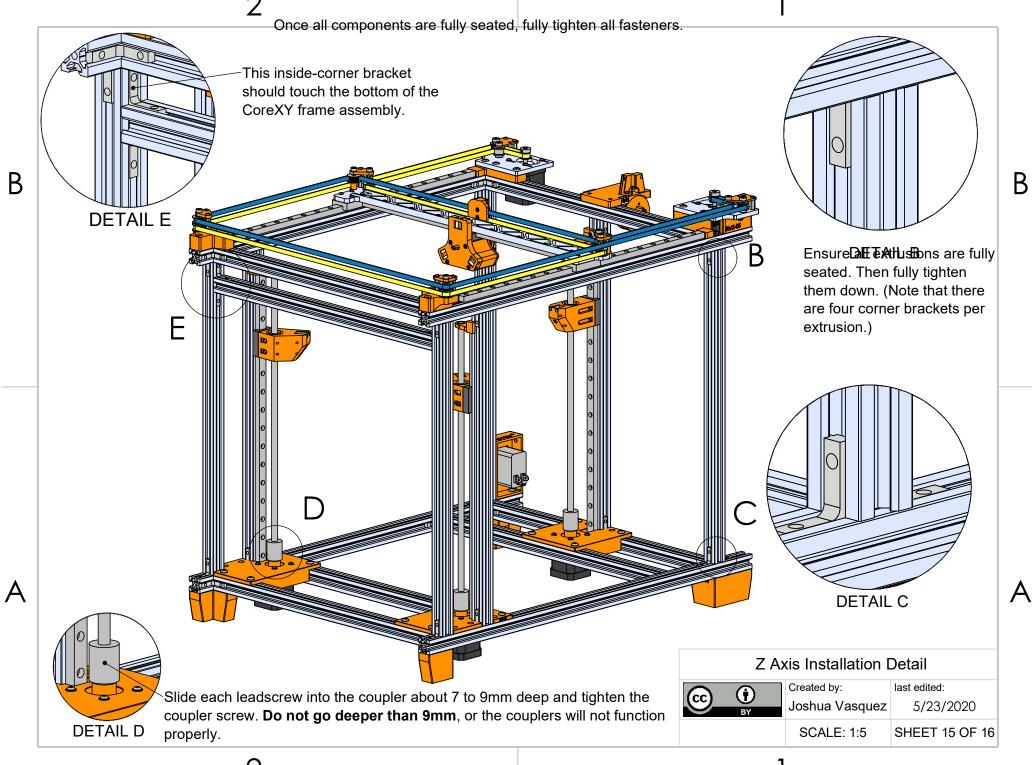
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ITEM NO.	DESCRIPTION	QTY.
1	409mm TSlot Extrusion	1
2	Interior Inside Corner Bracket	4

Ooze Control Assembly			
(00)	<b>(</b> )	Created by: Joshua Vasquez	last edited: 5/23/2020
		SCALE: 1:2	SHEET 13 OF 16

В

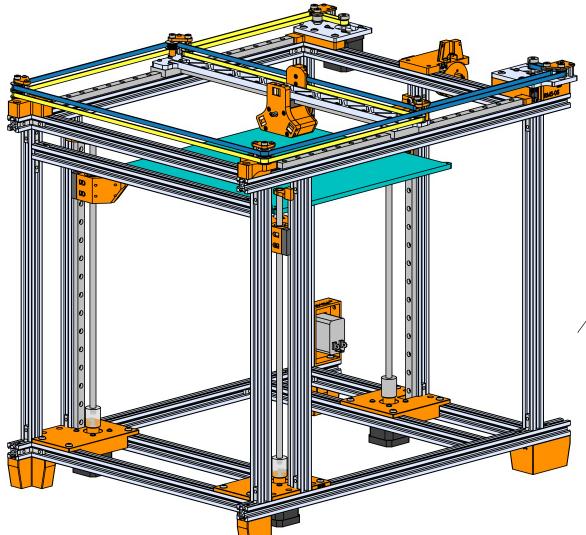


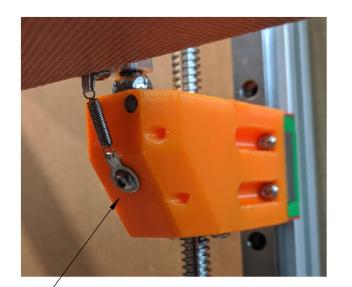


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Install the bed plate assembly by seating it into the coupling. It should slide into the proper position.





Loop each dangling terminal lugs into an M3, 6mm screw and install as shown above.

Bed Plate Installation

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		Created by:	last edited:
(00)	BY	Joshua Vasquez	5/23/2020
		SCALE: 1:5	SHEET 16 OF 16

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