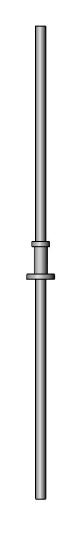


1

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.

В

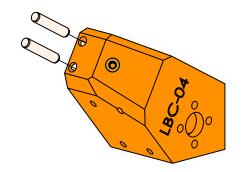


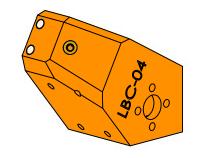
A

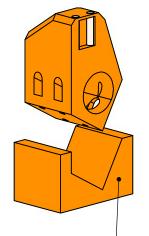
ITEM NO.	DESCRIPTION	QTY.
1	8mm T8x2 Trapezoidal Lead Screw	3
2	8mm T8x2 Small Delrin Anti-Backlash Nut	3

Lead Screw Nut Installation			
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		SCALE: 1:3	SHEET 2 OF 18

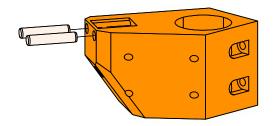
Press-Fit all pins with an arbor press..

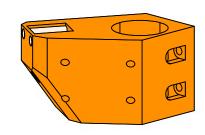






В





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

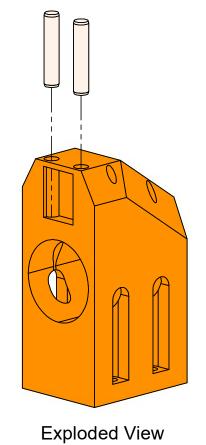
A

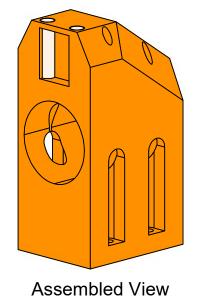
В

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			
/aal ( • )		Created by: Joshua Vasquez	last edited: 6/27/2020
		SCALE: 2:3	SHEET 3 OF 18

Press-Fit the M4 dowel pins with an arbor press





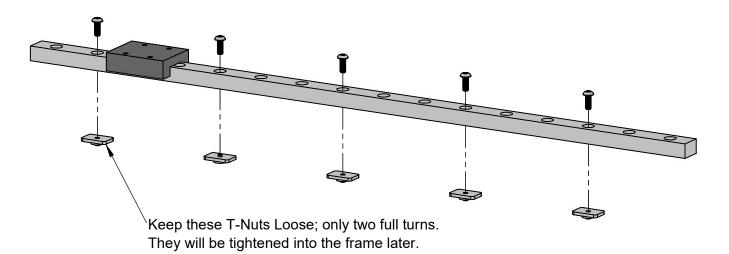
A

В

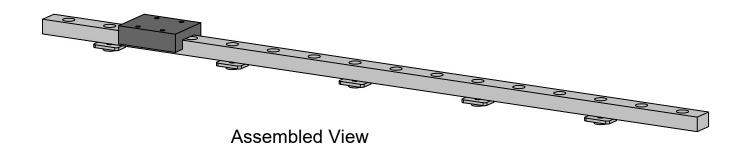
ITEM NO.	DESCRIPTION	
1	M4 Dowel Pin, 20mm long	2
2	Back Bed Coupler with Insert	1

Back Z Lift Assembly				
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			SCALE: 1:1	SHEET 4 OF 18





**Exploded View** 



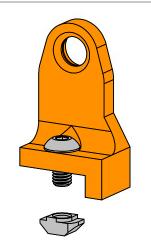
Α

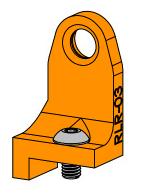
В

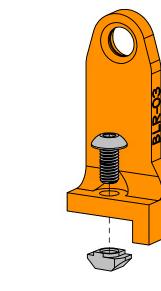
ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 8mm long	5
2	MGN12C Carriage Block	1
3	400mm (or 395mm) long MGN12 Rail	1
4	M3 Stamped Slide-In T Nuts	5

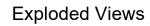
Linear Rail Assemby				
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			SCALE: 1:2	SHEET 5 OF 18

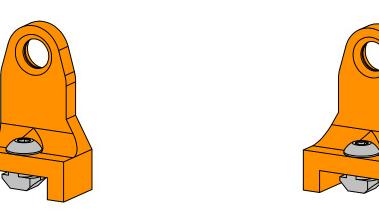
В

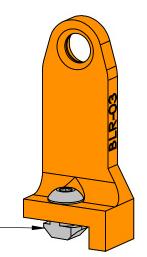












Keep these nuts loose. About two turns. They will be tightened into the frame later. –

## Assembled Views

ITEM NO.	DESCRIPTION	QTY
1	Back Leadscrew Retainer	1
2	Front Left Leadscrew Retainer	1
3	Front Right Leadscrew Retainer	1
4	M5 Buttonhead Screw, 10mm long	3
5	M5 Drop In T-Nut	3

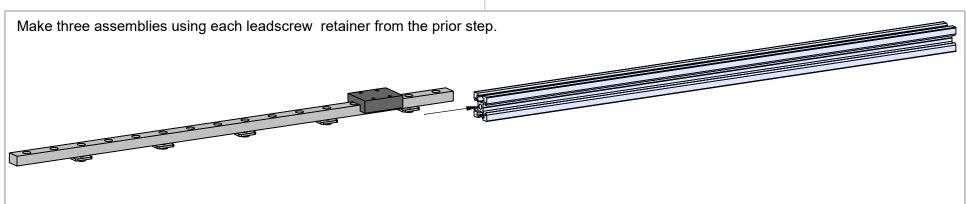
Leadscrew Retainer Assembly			
CC	<b>(i)</b>	Created by: Joshua Vasquez	last edited: 6/27/2020
		SCALE: 1:1	SHEET 6 OF 18

2

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В

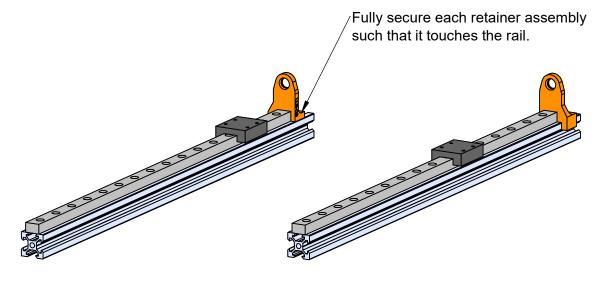




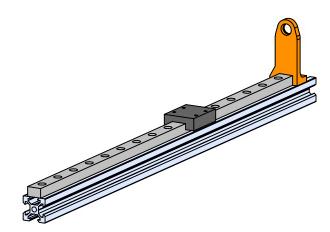
Ensure that the rail is centered. Then fully tighten all M3 screws. Note that centering this rail "by eye" is sufficient.

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

В

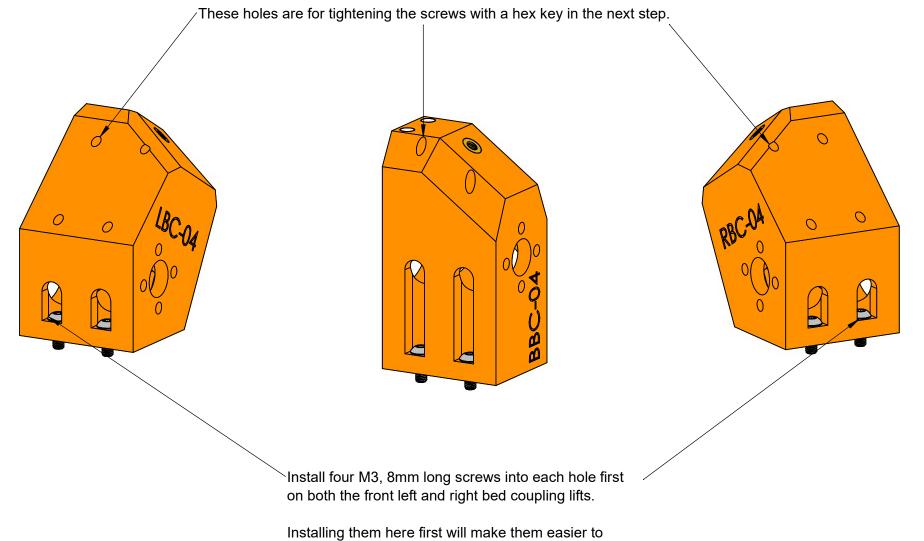


ITEM NO.	DESCRIPTION	QTY.
3	400mm long MGN12 rail with Carriage, screws, and nuts	3
4	430mm 2020 TSlot Extrusion	3



Front Z Tower Assembly Part 1			
		Created by:	last edited:
(00)	BY	Joshua Vasquez	6/27/2020
		SCALE: 1:3	SHEET 7 OF 18





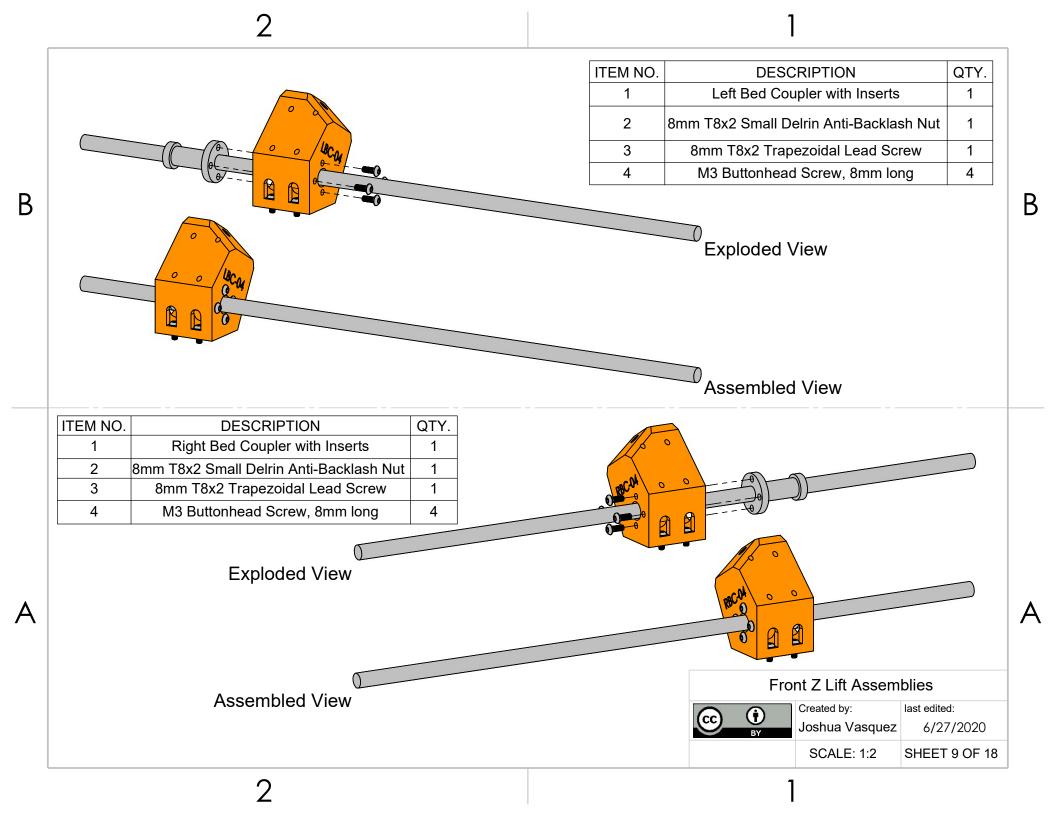
attach to the carriage in the next step.

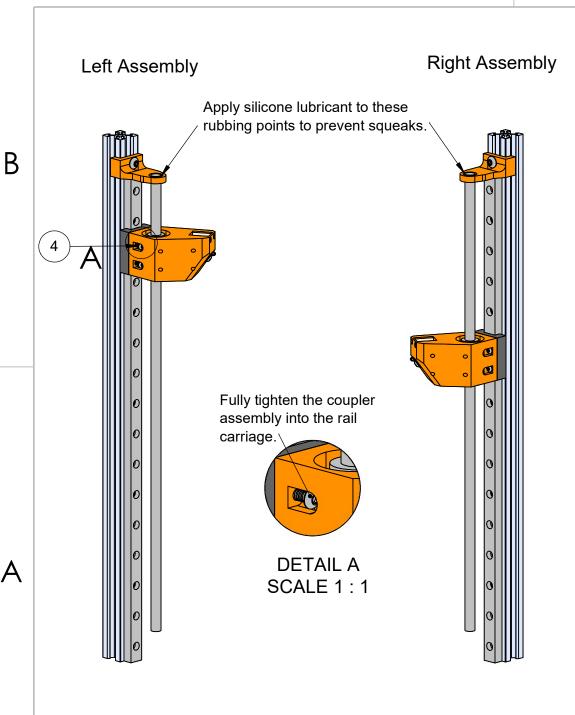
ITEM NO.	DESCRIPTION	QTY.
1	Left Bed Coupler with Pins and Insert	1
2	Right Bed Coupler with Pins and Insert	1
3	Back Bed Coupler with Pins and Insert	1
5	M3 Buttonhead Screw, 8mm long	12

В

Screw Preloading			
<b>(CC)</b>	<b>(</b> )	Created by: Joshua Vasquez	last edited: 6/27/2020
		SCALE: 1:1	SHEET 8 OF 18

В

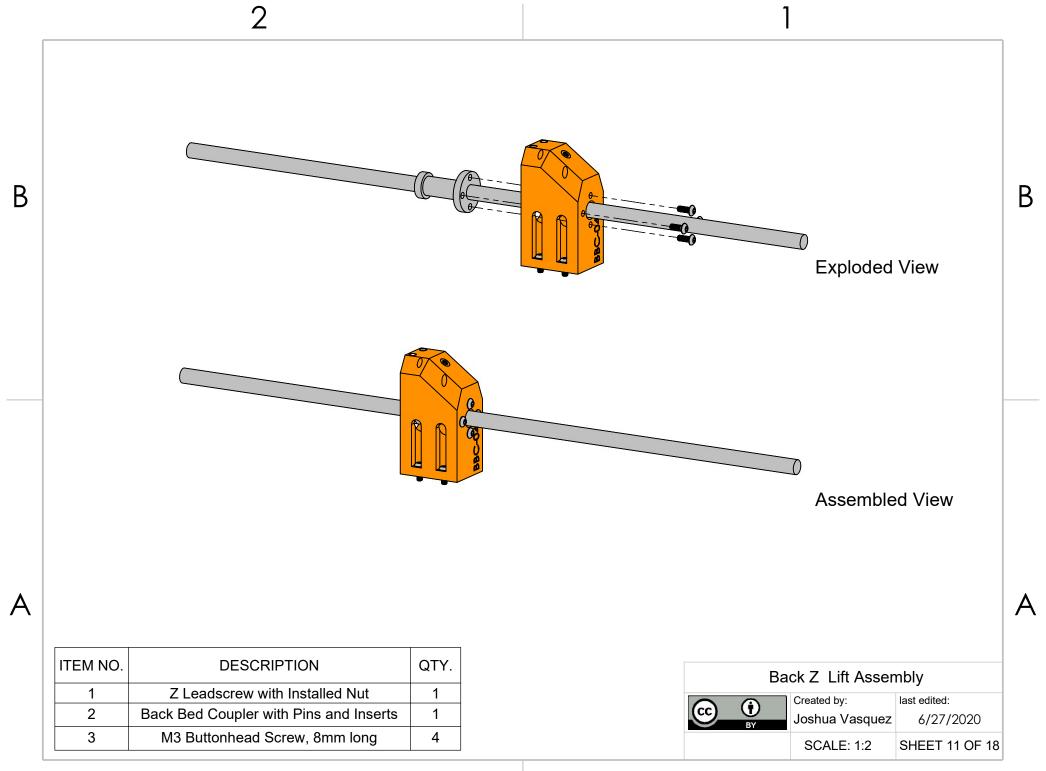


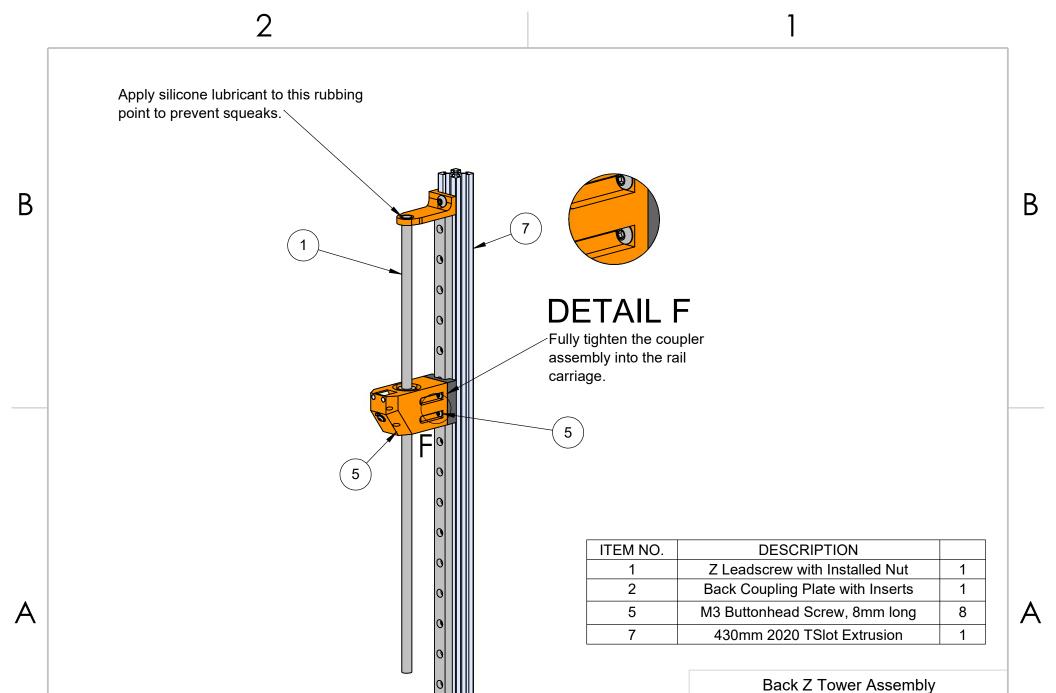


ITEM NO.	DESCRIPTION	
4	M3 Buttonhead Screw, 8mm long	8
5	Left Coupler Assembly with Leadscrew	1
6	Right Coupler Assembly with Leadscrew	1
7	Extrusion Assembly with Rail	2
10	Front Left Leadscrew Retainer Assembly	1

Front Z Tower Assemblies Created by: last edited: Joshua Vasquez

6/27/2020 SCALE: 1:3 **SHEET 10 OF 18** 





Joshua Vasquez 6/27/2020

SCALE: 1:3 SHEET 12 OF 18

Created by:

last edited:



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

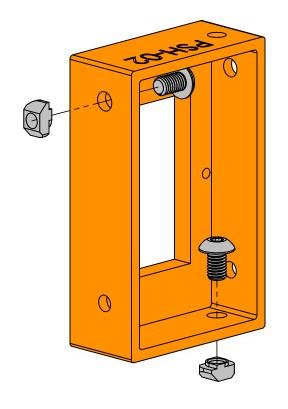
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В

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

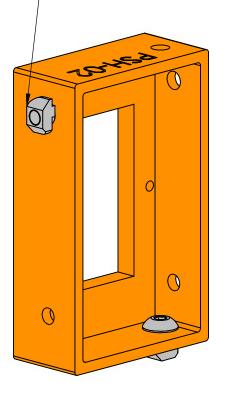
Ooze Control Assembly			
(0)	<b>(</b> )	Created by: Joshua Vasquez	last edited: 6/27/2020
		SCALE: 1:2	SHEET 13 OF 18

В



Keep these Screws Loose. 1-2 Turns. They will be tightened into the frame later.

В

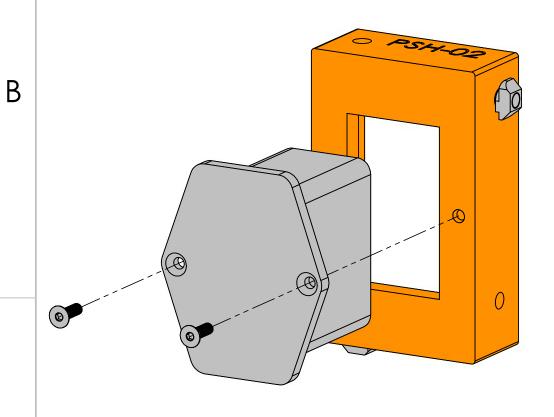


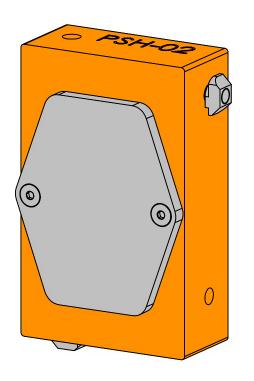
A

ITEM NO.	DESCRIPTION	QTY.
1	PSU Socket Holder	1
2	M5 Buttonhead Screw, 8mm long	2
3	M5 Drop-In T-Nut for 20x20 Extrusion	2

Power Socket Holder 1/2			
(CC)	<b>(i)</b> BY	Created by: Joshua Vasquez	last edited: 6/27/2020
		SCALE: 1:1	SHEET 14 OF 18

2





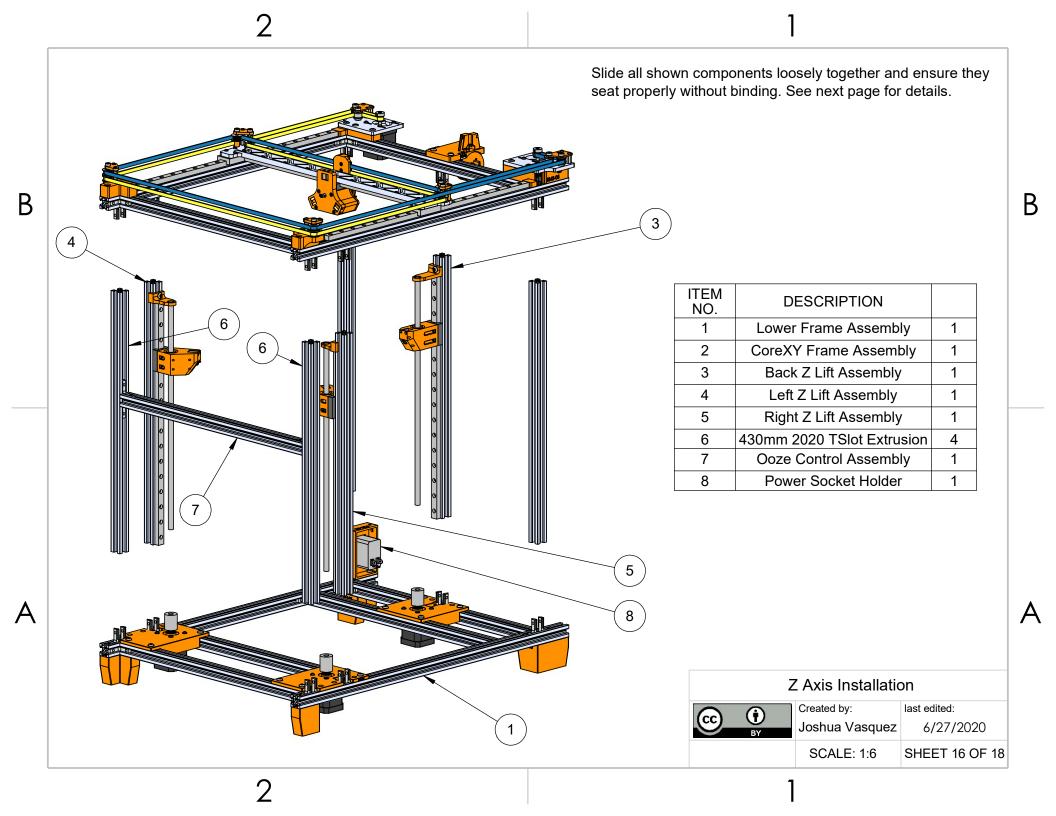
В

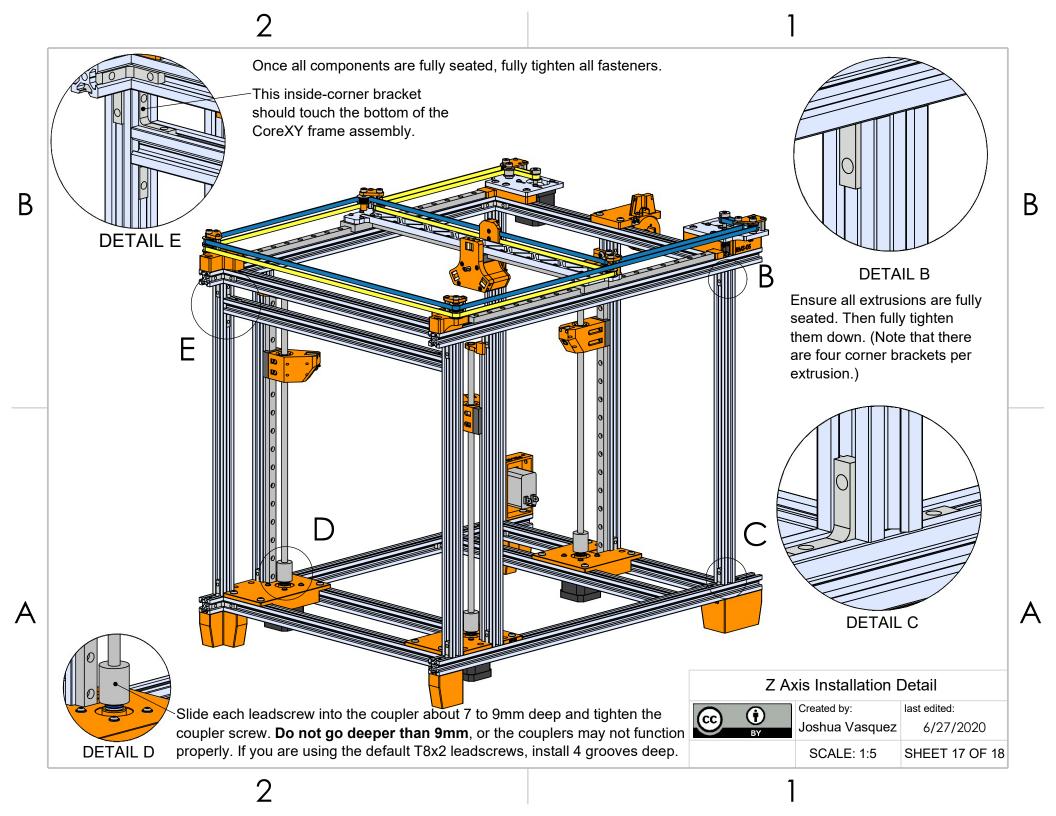
Α

Α

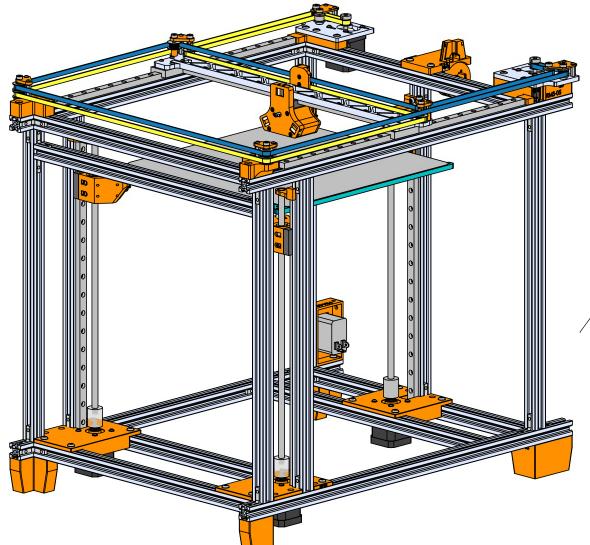
ITEM NO.	DESCRIPTION	QTY.
1	IEC320 C14 120V Power Socket	1
2	M3 Flathead Screw, 10mm long	2

Power Socket Holder 2/2				
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		SCALE: 1:1	SHEET 15 OF 18	

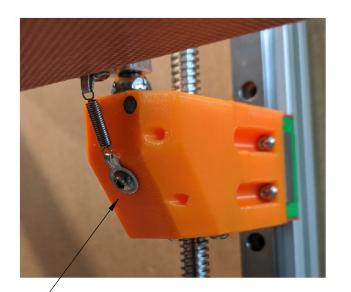




Install the bed plate assembly by seating it into the coupling. It should slide into the proper position.



В



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

	Bed Plate Installation		
(0)	<b>(</b> )	Created by: Joshua Vasquez	last ed
		SCALE: 1:5	SHE

SHEET 18 OF 18

last edited:

6/27/2020

В