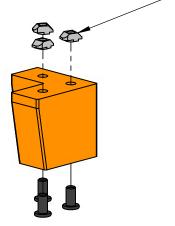
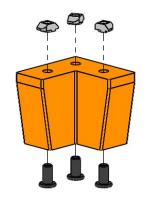
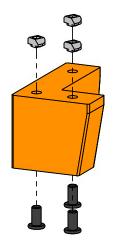


Populate all screw holes with screws and nuts Keep all nuts loose. Only 1-2 turns. They will be fully tightened into the frame later.

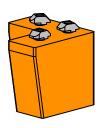




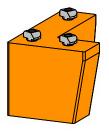


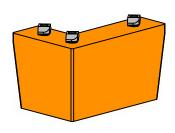
В

Exploded Views









Assembled Views

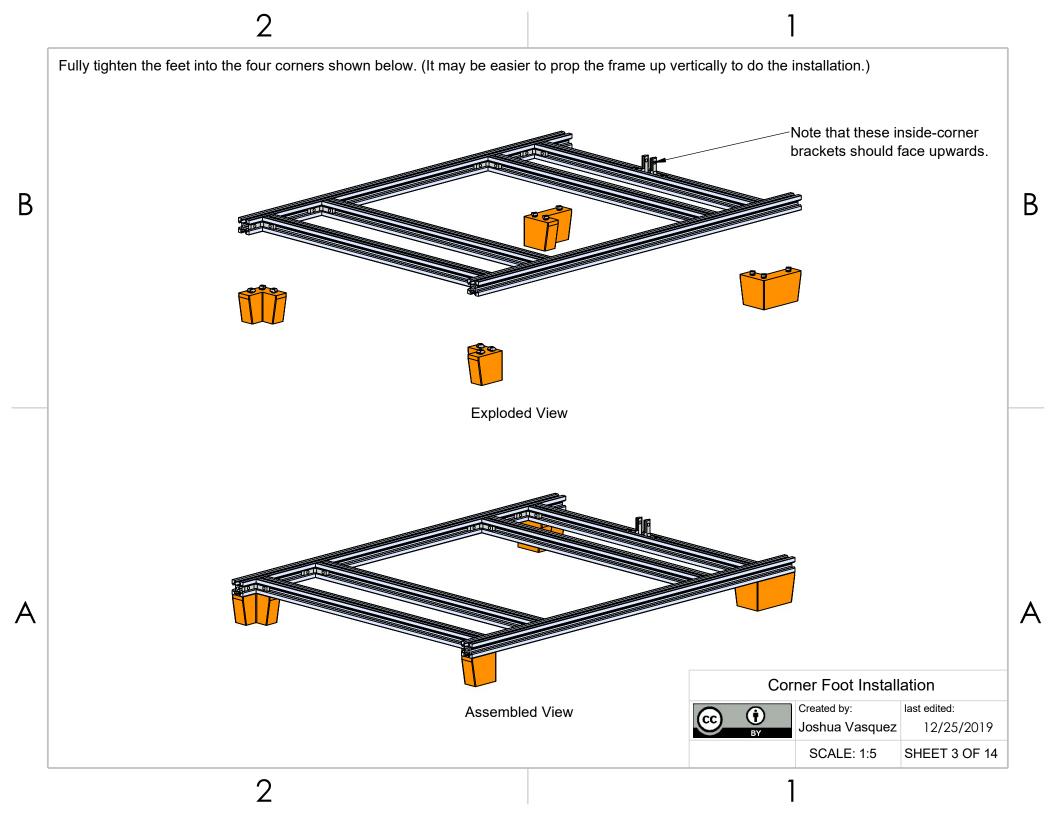
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В

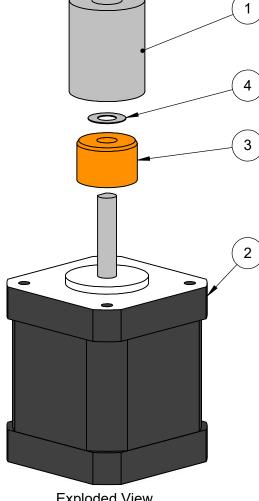
ITEM NO.	DESCRIPTION	QTY.
1	Back Right Foot	1
2	Back Left Foot	1
3	Front Right Foot	1
4	Front Left Foot	1
5	M5 Drop-In T-Nut for 20x20 Extrusion	12
6	M5 Buttonhead Screw, 10mm long	12

Foot Screw Installation			
(00)	(i)	Created by:	last edited:
	BY	Joshua Vasquez	12/25/2019
		SCALE: 1:2	SHEET 2 OF 14

2



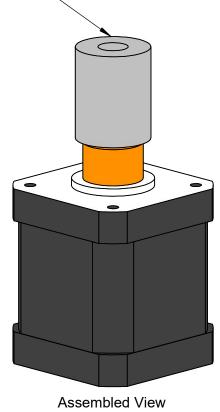
Make 3 Assemblies.



Exploded View

ITEM NO. **DESCRIPTION** QTY. 5mm to 8mm flexible plumb coupler 1 1 Nema 17 Stepper Motor 2 1 3 Z Thrust Bearing Spacer M5 Shim, 0.2mm thick 4

With one hand, compress the coupler onto the motor shaft to remove any space on the motor shaft. Securely screw down the coupler in this configuration.

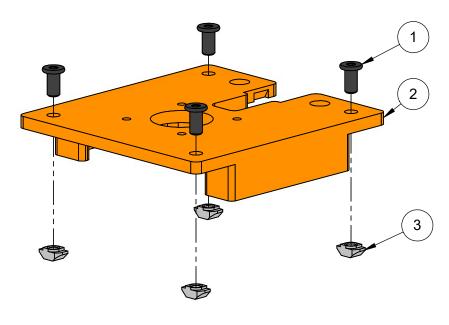


Z Motor Thrust Coupling Assembly

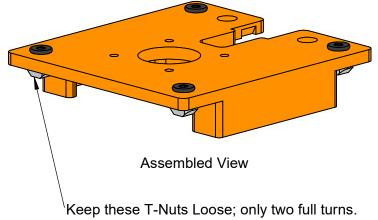
(1)	Created by:	last edited:
BY	Joshua Vasquez	12/25/2019
	SCALE: 1:1	SHEET 4 OF 14

В

В



Exploded View



They will be tightened into the frame later.

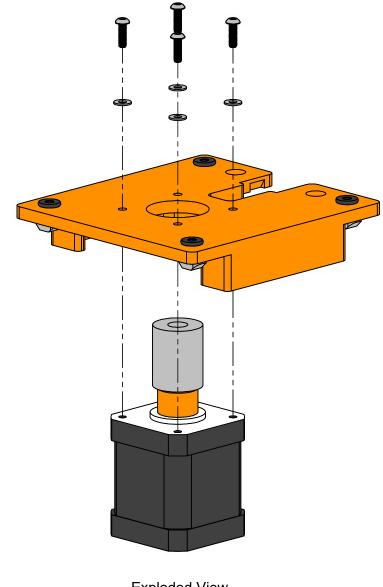
ITEM NO.	DESCRIPTION	QTY.
1	M5 Buttonhead Screw, 10mm long	4
2	Back Z Motor Plate	1
3	M5 Drop-In T-Nut for 20x20 Extrusion	4

Back Z Motor Plate Assembly 1			
Created by: Joshua Vasquez last edited: 12/25/2019			
		SCALE: 1:1.5	SHEET 5 OF 14

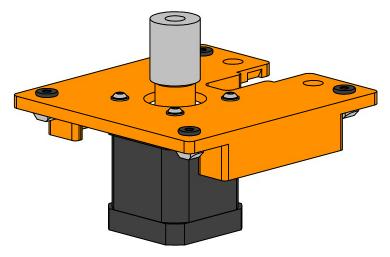
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Apply a dab of threadlock to the four M3 screws before tightening them down securely.



Exploded View



В

Assembled View

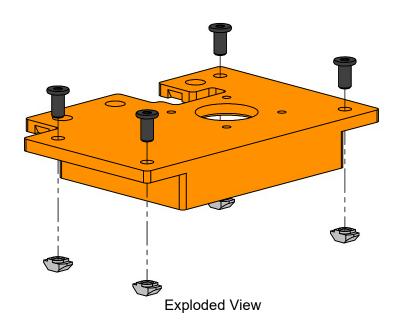
ITEM NO.	DESCRIPTION	QTY.
2	M3 Buttonhead Screw, 10mm long	4
3	Back Plate Plate Assembly	1
5	Z Motor Thrust Coupling Assembly	1
6	M3 Washer	4

Back Z Motor Plate Assembly 2

(cc) (T)	Created by: Joshua Vasquez	last edited: 12/25/2019
	SCALE: 1:1.5	SHEET 6 OF 14

2

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Assembled View	

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

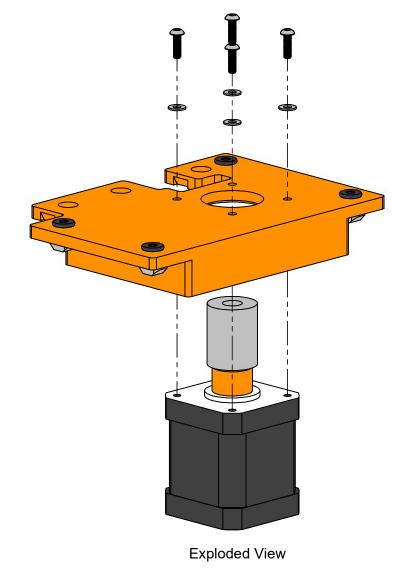
ITEM NO.	DESCRIPTION	QTY.
1	M5 Buttonhead Screw, 10mm long	4
2	Front Left Z Motor Plate	1
3	M5 Drop-In T-Nut for 20x20 Extrusion	4

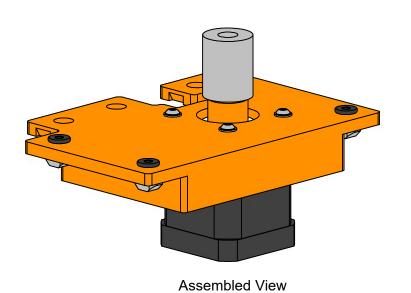
Front Left Z Plate Assembly 1				
<u></u>	()	Created by: last edited: Joshua Vasquez 12/25/2019		
		SCALE: 1:1.5	SHEET 7 OF 14	

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Apply a dab of threadlock to the four M3 screws before tightening them down securely.





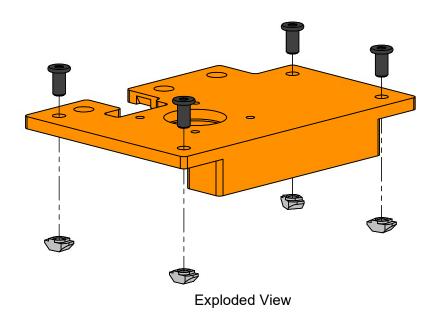
ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 10mm long	4
5	Z Motor Thrust Coupling Assembly	1
6	M3 Washer	4

Front Left Z Plate Assembly 2			
<u></u>	(i)	Created by: Joshua Vasquez	last edited: 12/25/2019
	<u> </u>	SCALE: 1:1.5	SHEET 8 OF 14

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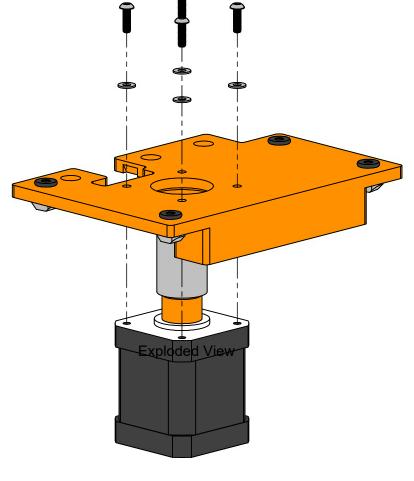
ITEM NO.	DESCRIPTION	QTY.
1	M5 Buttonhead Screw, 10mm long	4
2	Front Right Z Motor Plate	1
3	M5 Drop-In T-Nut for 20x20 Extrusion	4

Front Right Z Plate	Assembly 1
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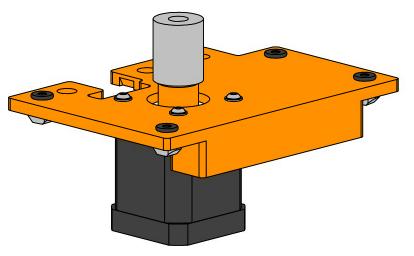
В

	Created by:	last edited:
© BY	Joshua Vasquez	12/25/2019
	SCALE: 1:1.5	SHEET 9 OF 14

Apply a dab of threadlock to the four M3 screws before tightening them down securely.



Exploded View



Assembled View

ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 10mm long	4
5	Z Motor Thrust Coupling Assembly	1
6	M3 Washer	4

В

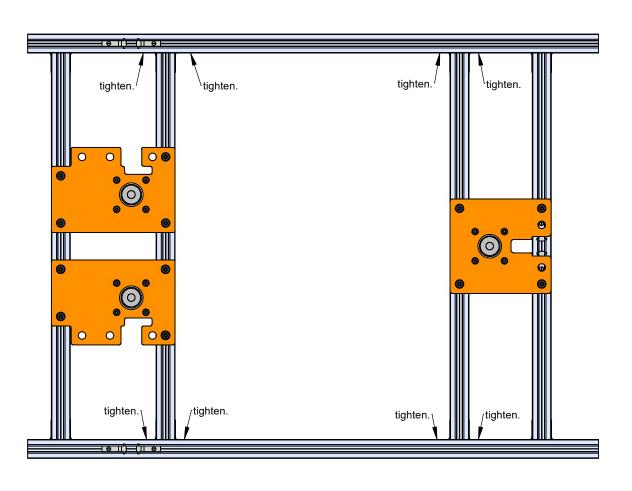
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	\ (1)	Created by:	last edited:
CC	BY	Joshua Vasquez	12/25/2019
		SCALE: 1:1.5	SHEET 10 OF 14

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Load the Z Motor Plates into the frame to set the spacing of the internal loose extrusions. Push these internal extrusions into the plates and fully tighten the 8 inside corner brackets shown below.

В

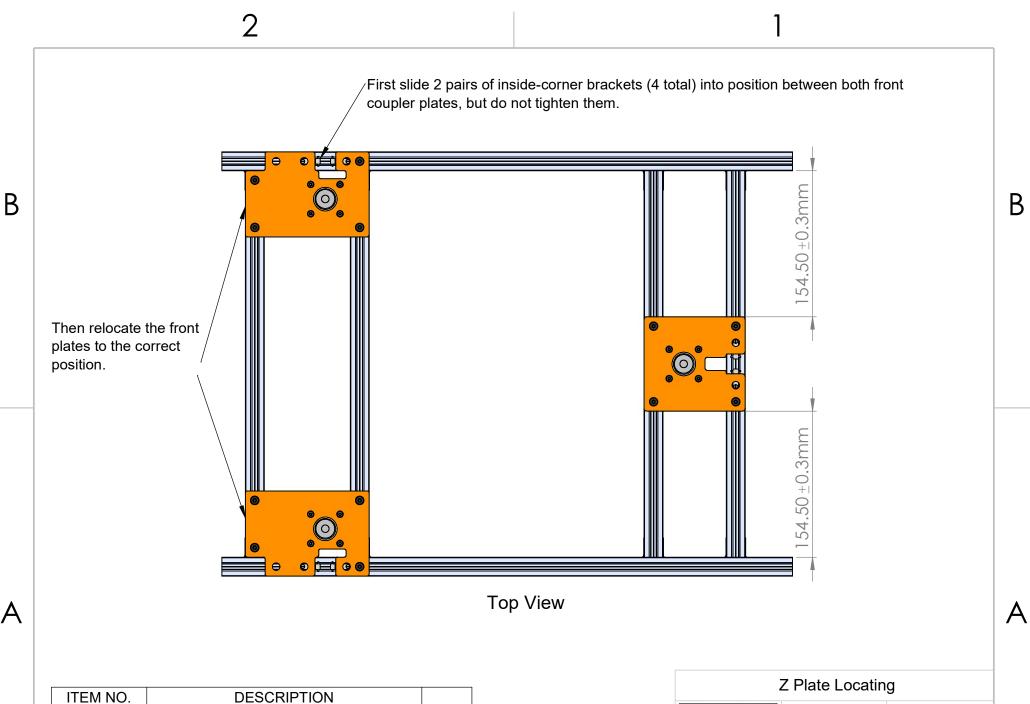


A

Top View

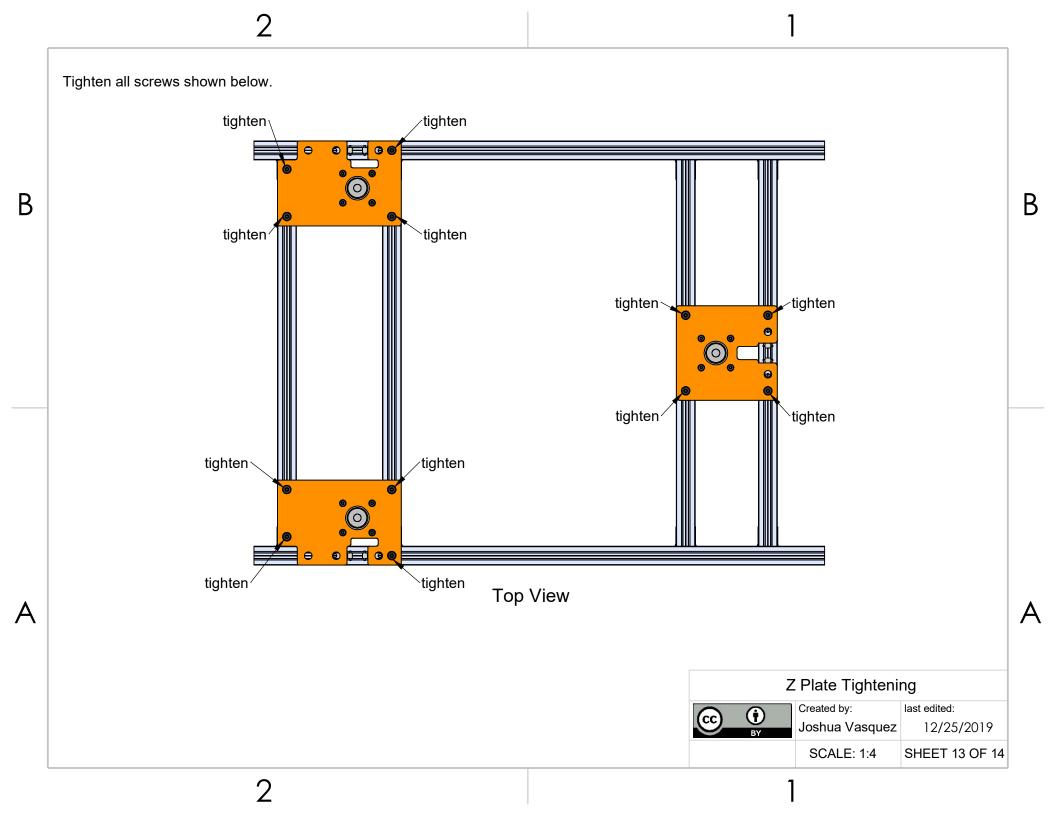
ITEM NO.	DESCRIPTION	
1	Base Frame Assembly with Feet	1
2	Back Z Plate Assembly	1
3	Front Left Z Plate Assembly	1
4	Front Right Z Plate Assembly	1

Internal Extrusion Alignment				
(3)	BY	Created by: Joshua Vasquez	last edited: 12/25/2019	
		SCALE: 1:4	SHEET 11 OF 14	

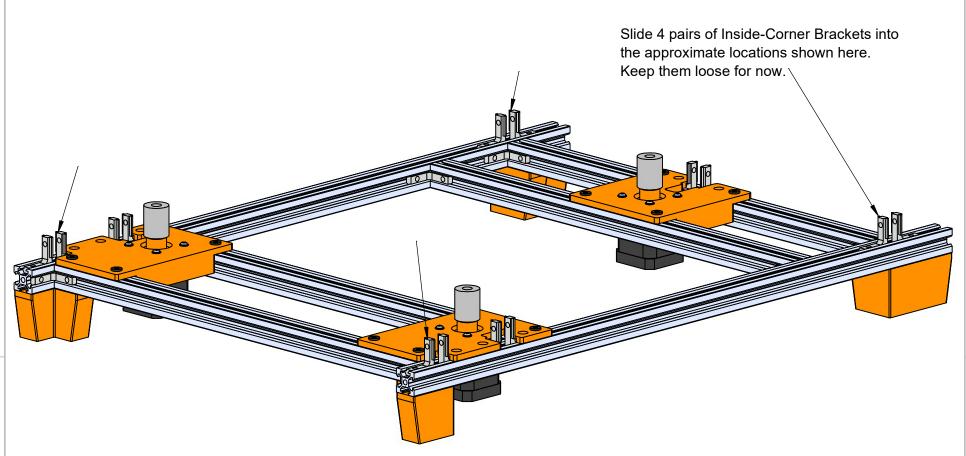


ITEM NO.	DESCRIPTION	
5	Interior Inside Corner Bracket	4

	Z Plate Locating		
<u>@</u>	()	Created by: Joshua Vasquez	last edited: 12/25/2019
		SCALE: 1:4	SHEET 12 OF 14







The Lower Frame Assembly is complete!

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ITEM NO.	DESCRIPTION	QTY.
5	Interior Inside Corner Bracket	8

Inside Corner Bracket Installation			
<u></u>	(1)	Created by:	last edited:
(CC)	BY	Joshua Vasquez	12/25/2019
		SCALE: 1:3	SHEET 14 OF 14

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