
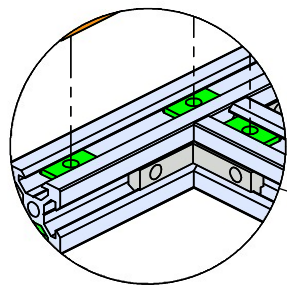


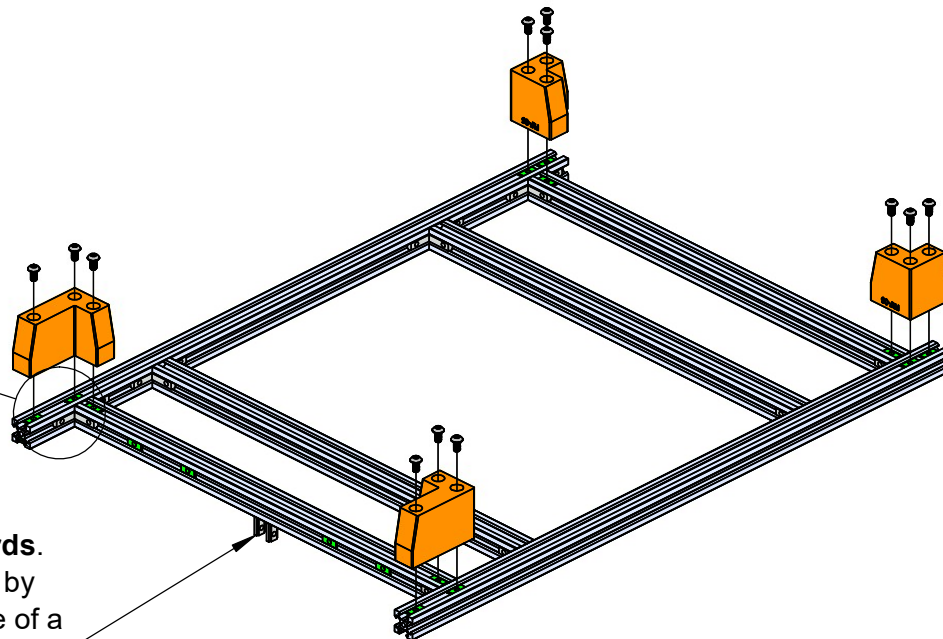
Lower Frame Assembly		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:3	SHEET 1 OF 10

Flip the Lower Frame Assembly Upside Down. Slide each foot's T Nuts under each foot and then tighten all screws.

B

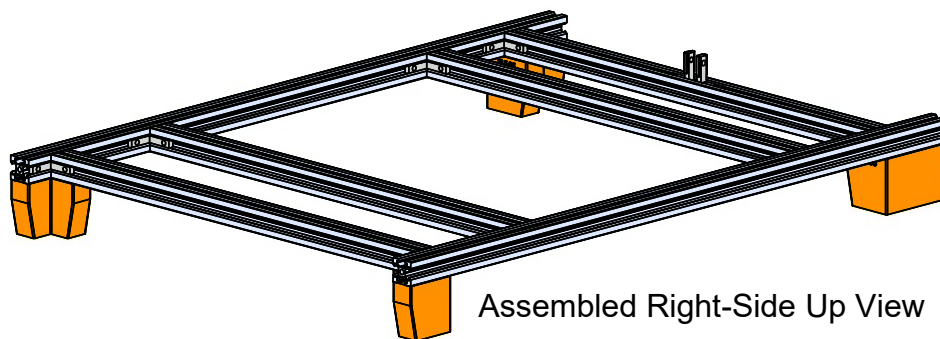


Note that these inside-corner brackets should face **downwards**. It may be easier to do this step by dangling this end over the edge of a table.



Exploded Upside Down View

Flip the frame right-side up when finished.



Assembled Right-Side Up View

B

A

ITEM NO.	DESCRIPTION	QTY.
5	Back Right Foot	1
6	M5 Buttonhead Screw, 10mm long	12
7	Back Left Foot	1
8	Front Right Foot	1
9	Front Left Foot	1
10	Lower Frame	1

Corner Foot Installation



Created by:
Joshua Vasquez

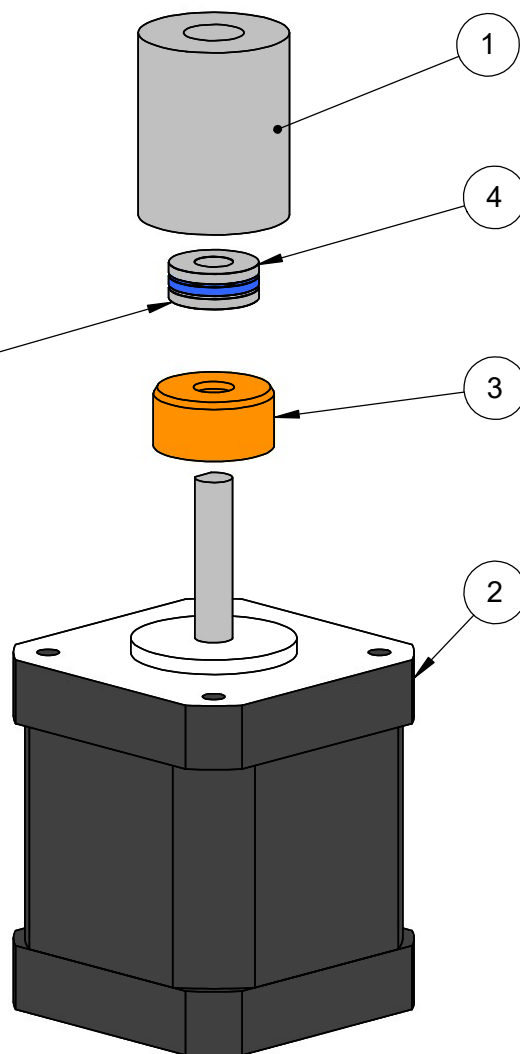
last edited:
1/31/2021

SCALE: 1:6

SHEET 2 OF 10

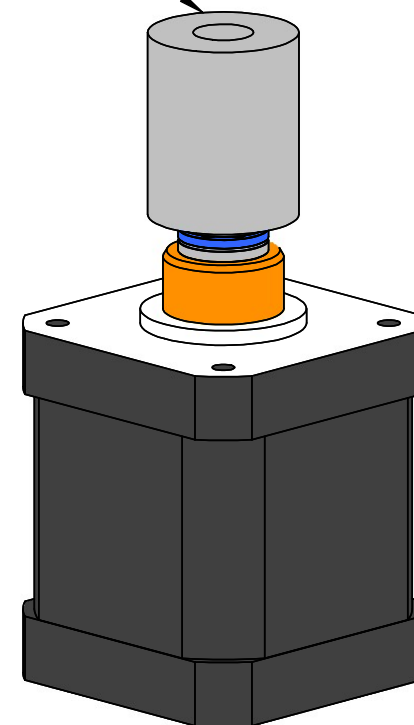
Make 3 Assemblies.

These are a 3 piece set.
Orientation of each piece
does not matter.




Exploded View

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.



Assembled View

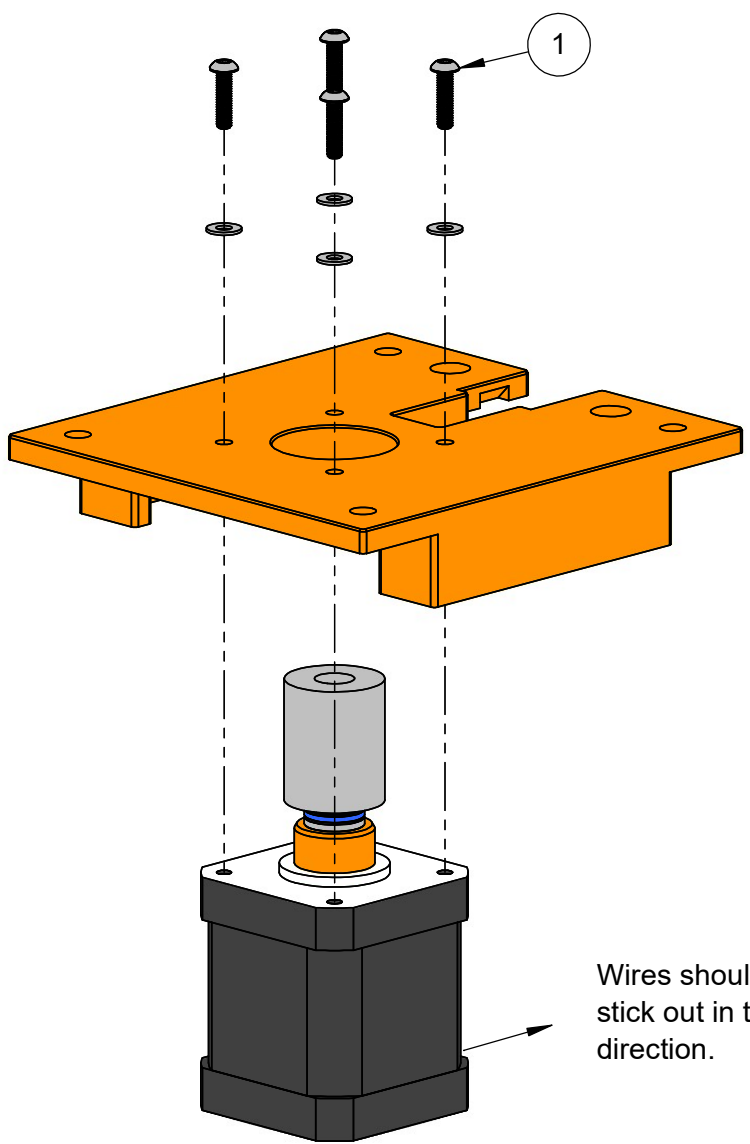
ITEM NO.	DESCRIPTION	QTY.
1	5mm to 8mm flexible plumb coupler	1
2	Nema 17 Stepper Motor	1
3	Z Thrust Bearing Spacer	1
4	5mm Oversize Thrust Bearing	1

Z Motor Thrust Coupling Assembly		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:1	SHEET 3 OF 10

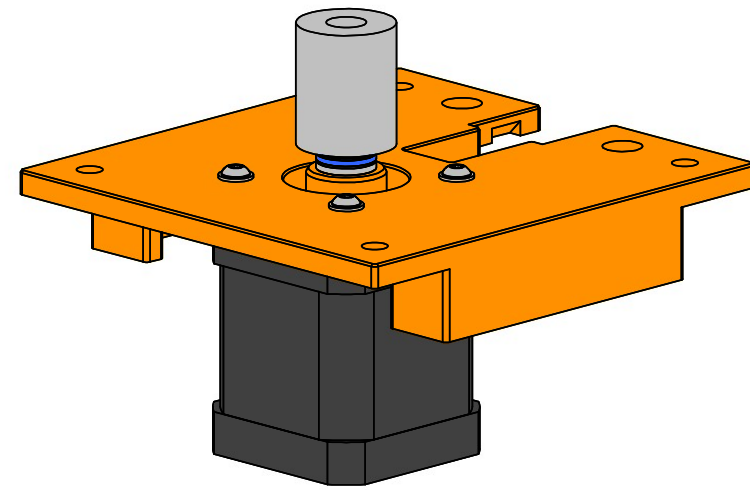
B

A

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



Exploded View



Assembled View

ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 12mm long	4
2	Back Plate Plate Assembly	1
3	Z Motor Thrust Coupling Assembly	1
4	M3 Washer	4

Back Z Motor Plate Assembly		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:1.5	SHEET 4 OF 10

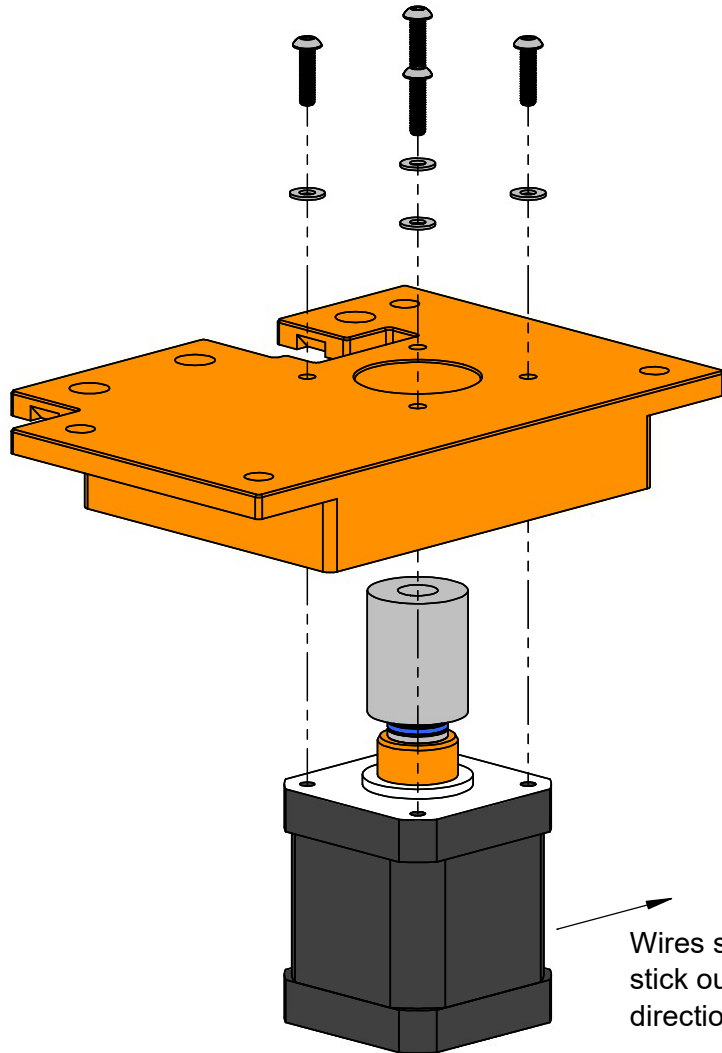
B

A

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

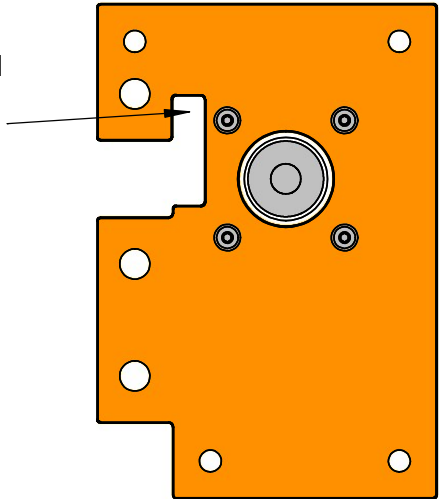
B

B



Exploded View

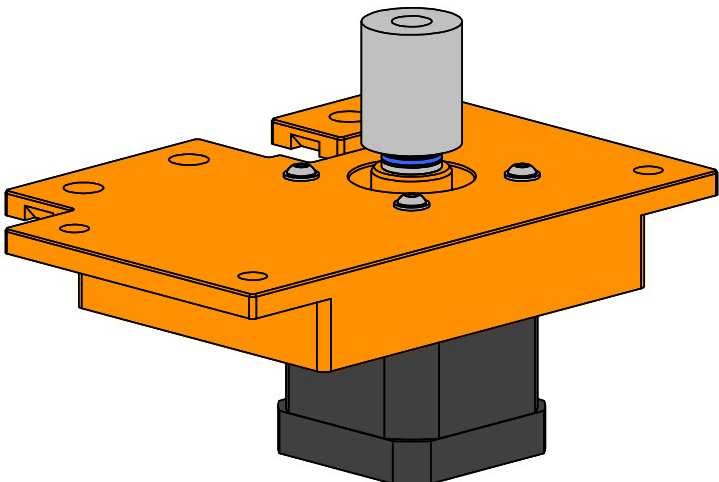
Optional: motor wires could poke up and out from this cavity.



Assembled Top View
Scale 1:2

A

A



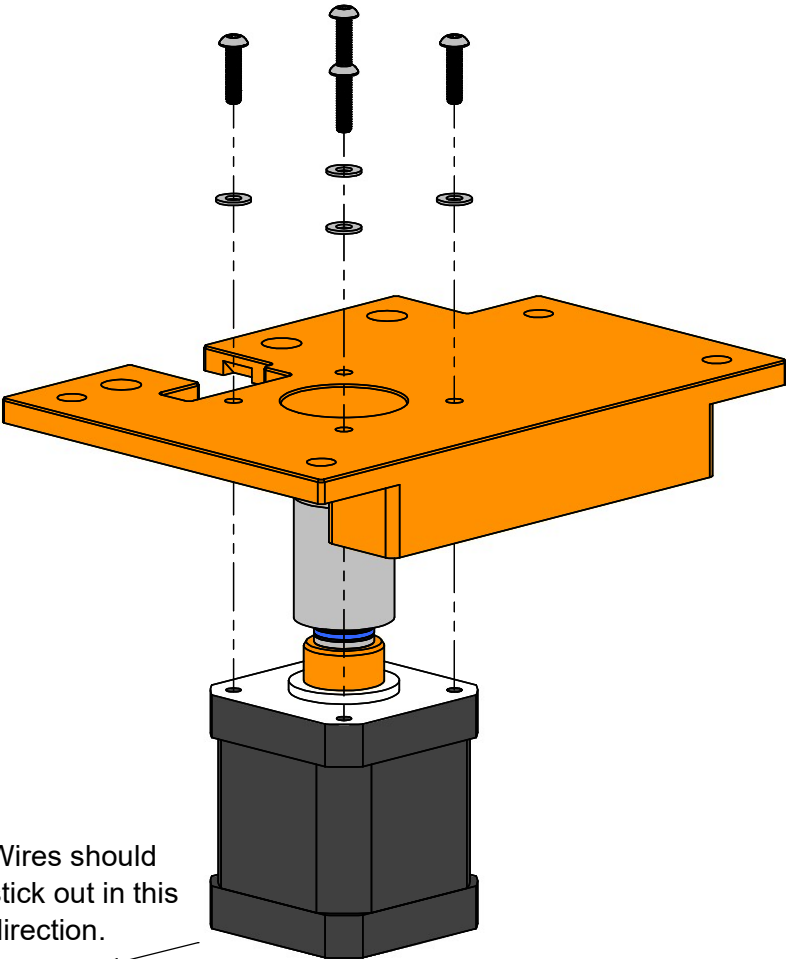
Assembled View

ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 12mm long	4
3	Z Motor Thrust Coupling Assembly	1
4	M3 Washer	4

Front Left Z Plate Assembly

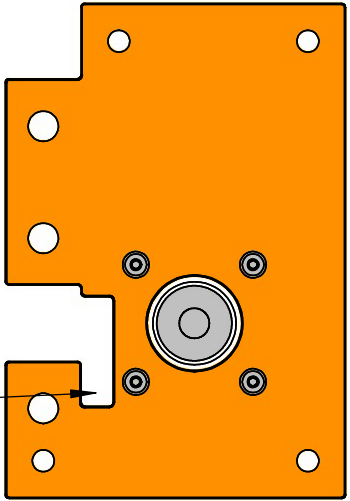
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:1.5	SHEET 5 OF 10

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

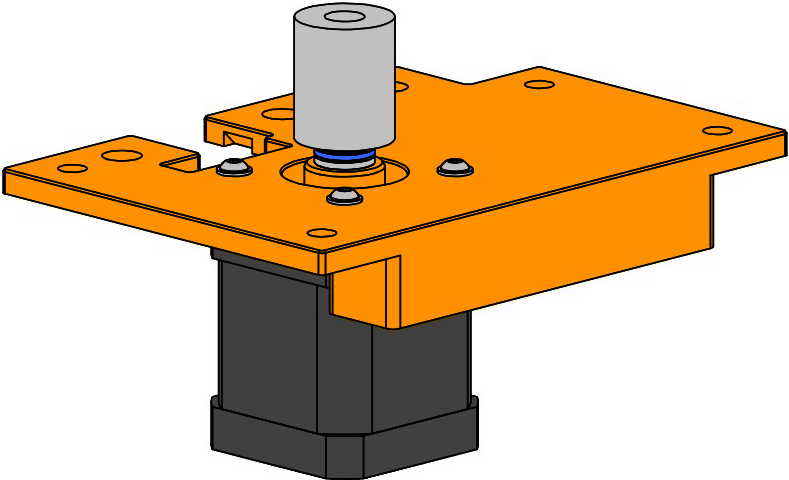


Exploded View

Optional: motor wires could poke up and out from this cavity.



Assembled Top View
Scale 1:2



Assembled View

ITEM NO.	DESCRIPTION	QTY.
1	M3 Buttonhead Screw, 12mm long	4
3	Z Motor Thrust Coupling Assembly	1
4	M3 Washer	4

Front Right Z Plate Assembly		
	Created by:	last edited:
	Joshua Vasquez	1/31/2021
SCALE: 1:1.5		SHEET 6 OF 10

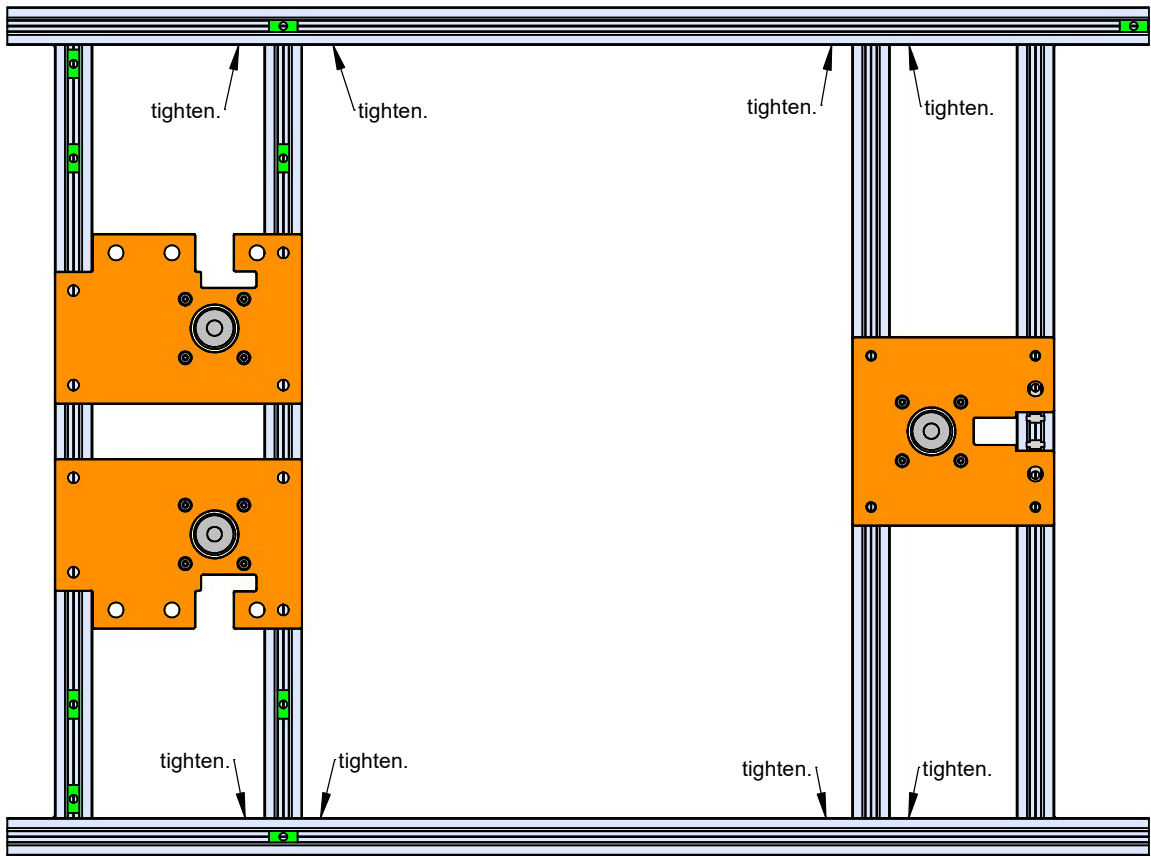
2

1

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.

B

B



Top View

A

A

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



Created by:
Joshua Vasquez

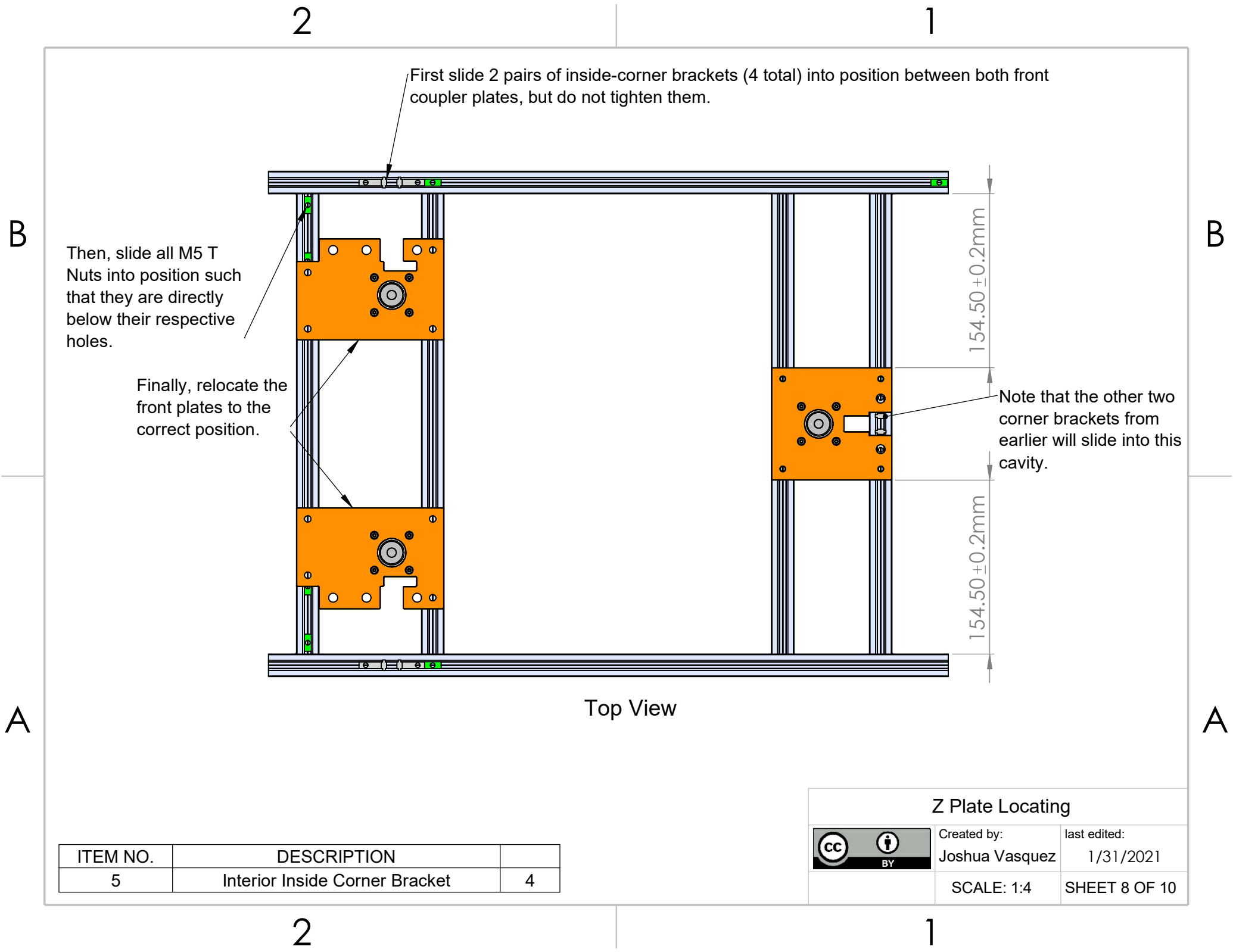
last edited:
1/31/2021

SCALE: 1:4

SHEET 7 OF 10

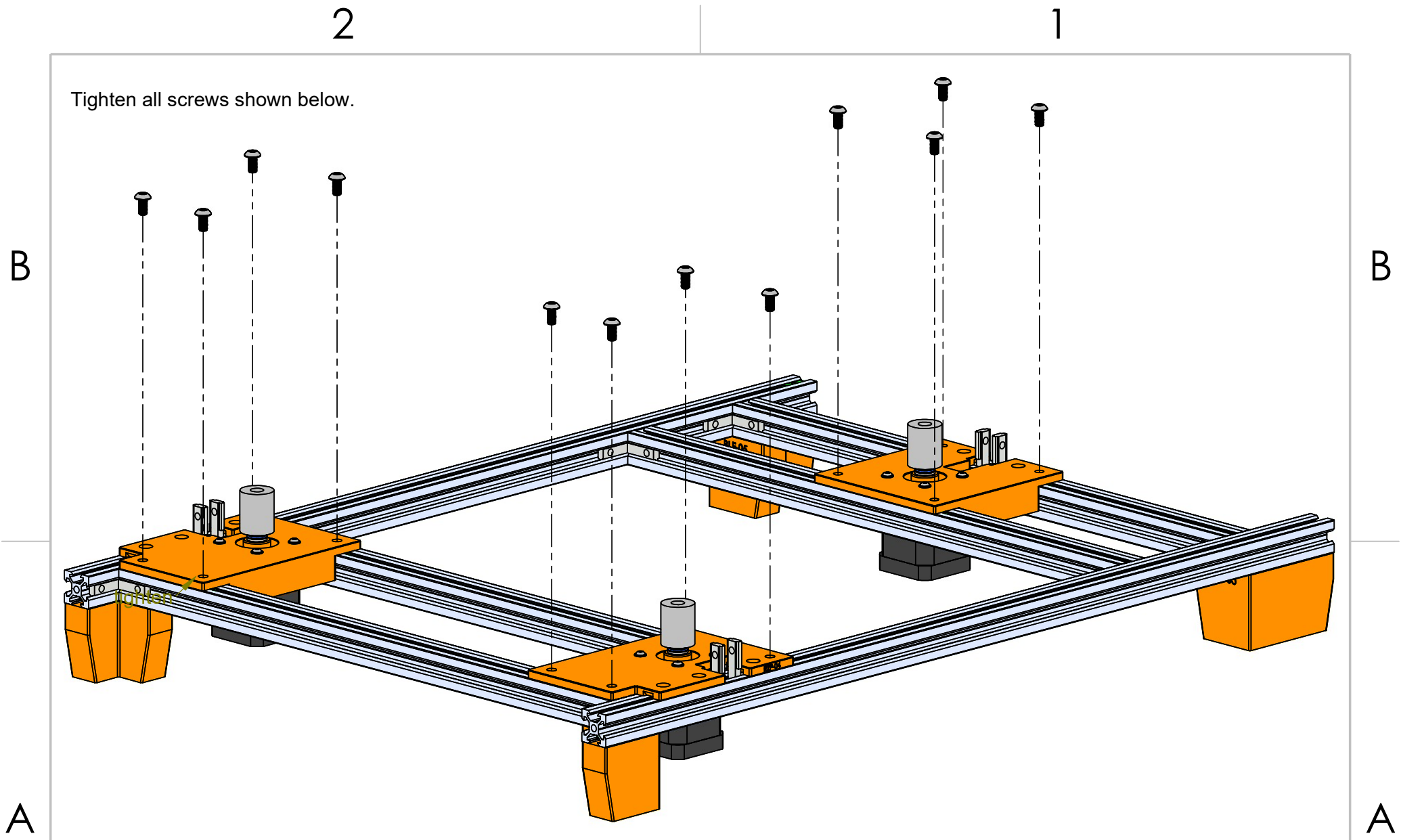
2

1




ITEM NO.	DESCRIPTION	
5	Interior Inside Corner Bracket	4

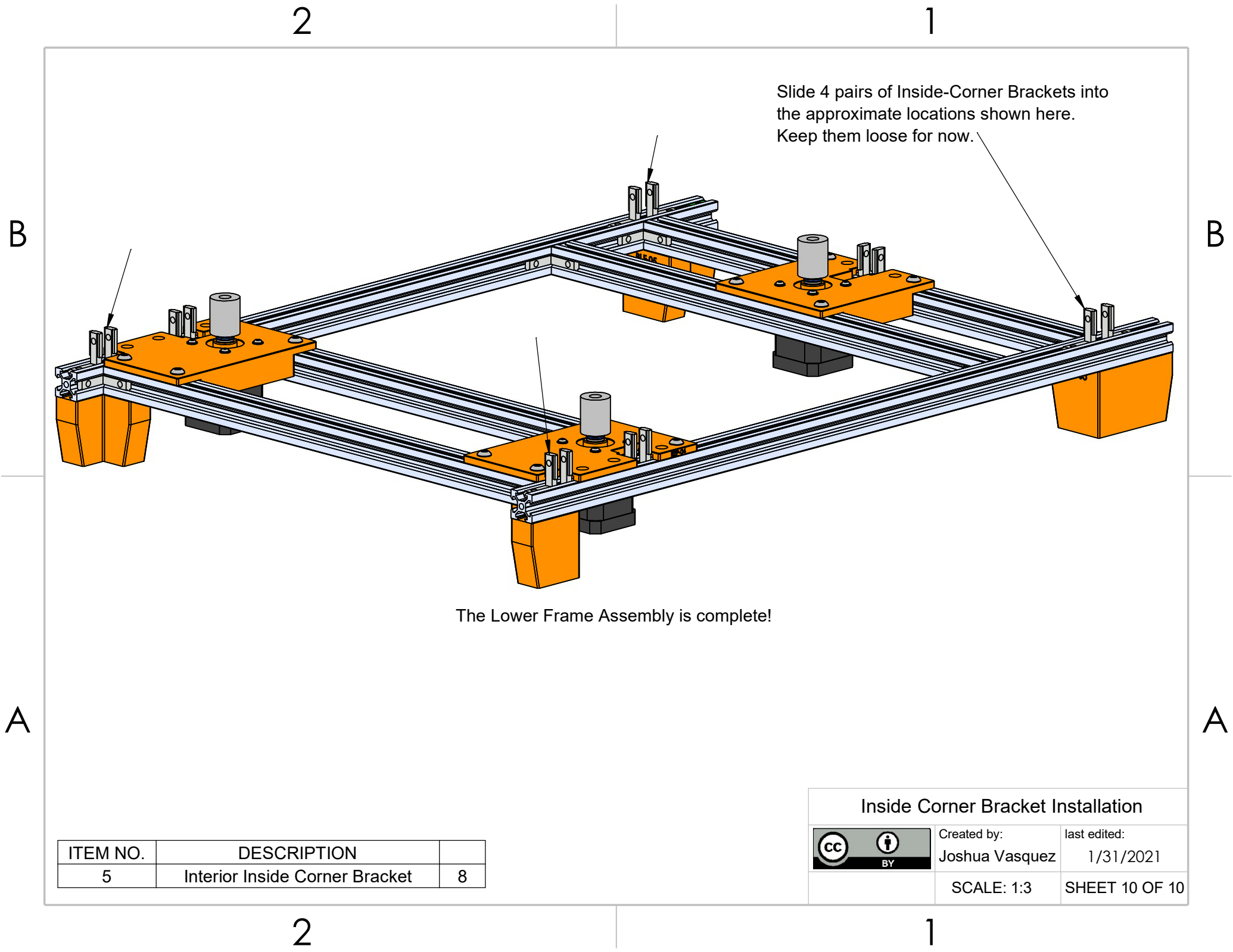
Z Plate Locating		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:4	SHEET 8 OF 10



Top View


ITEM NO.	DESCRIPTION	QTY.
10	M5 Buttonhead Screw, 10mm long	12

Z Plate Tightening		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:3	SHEET 9 OF 10



The Lower Frame Assembly is complete!

ITEM NO.	DESCRIPTION	
5	Interior Inside Corner Bracket	8

Inside Corner Bracket Installation		
	Created by: Joshua Vasquez	last edited: 1/31/2021
	SCALE: 1:3	SHEET 10 OF 10