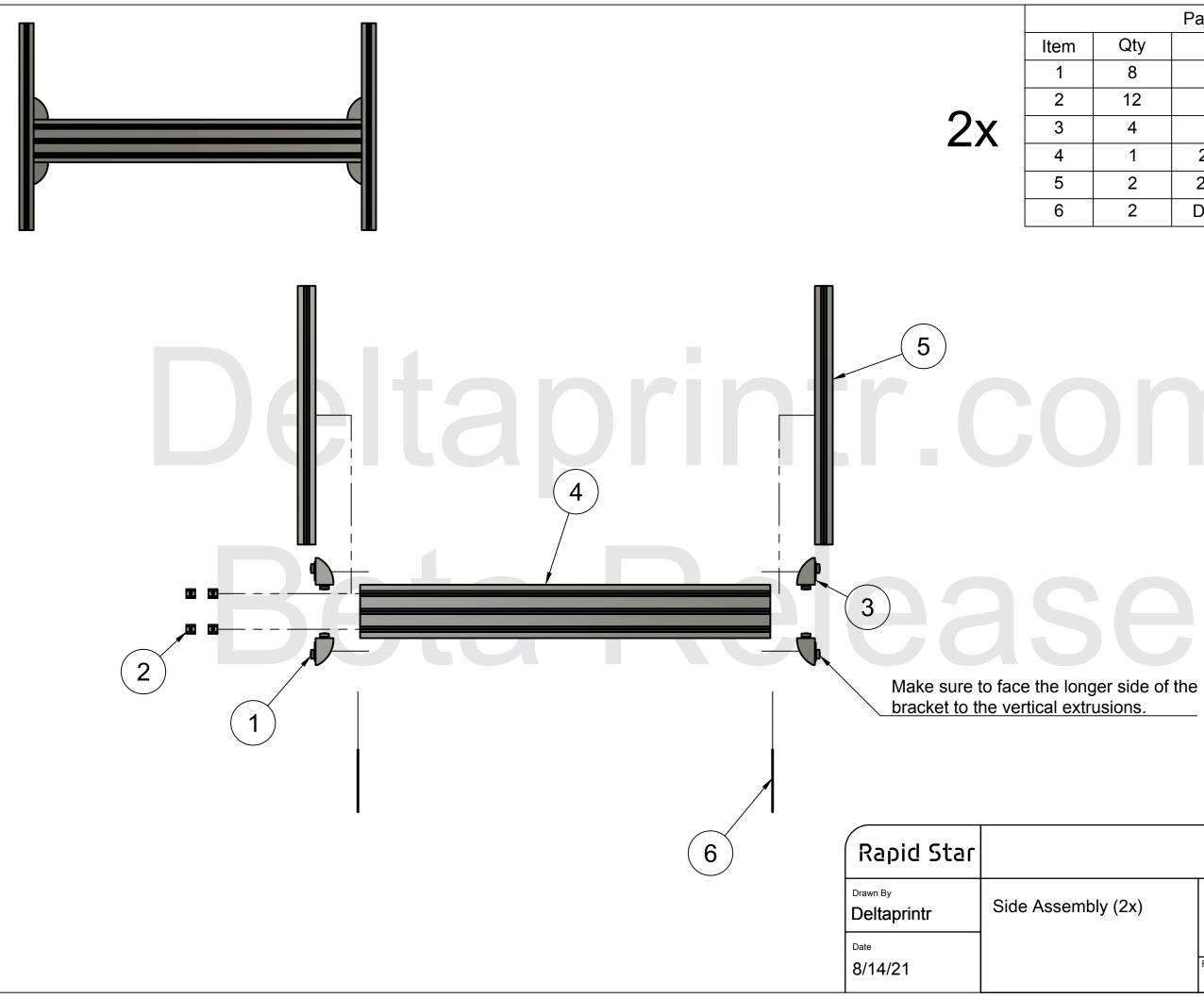


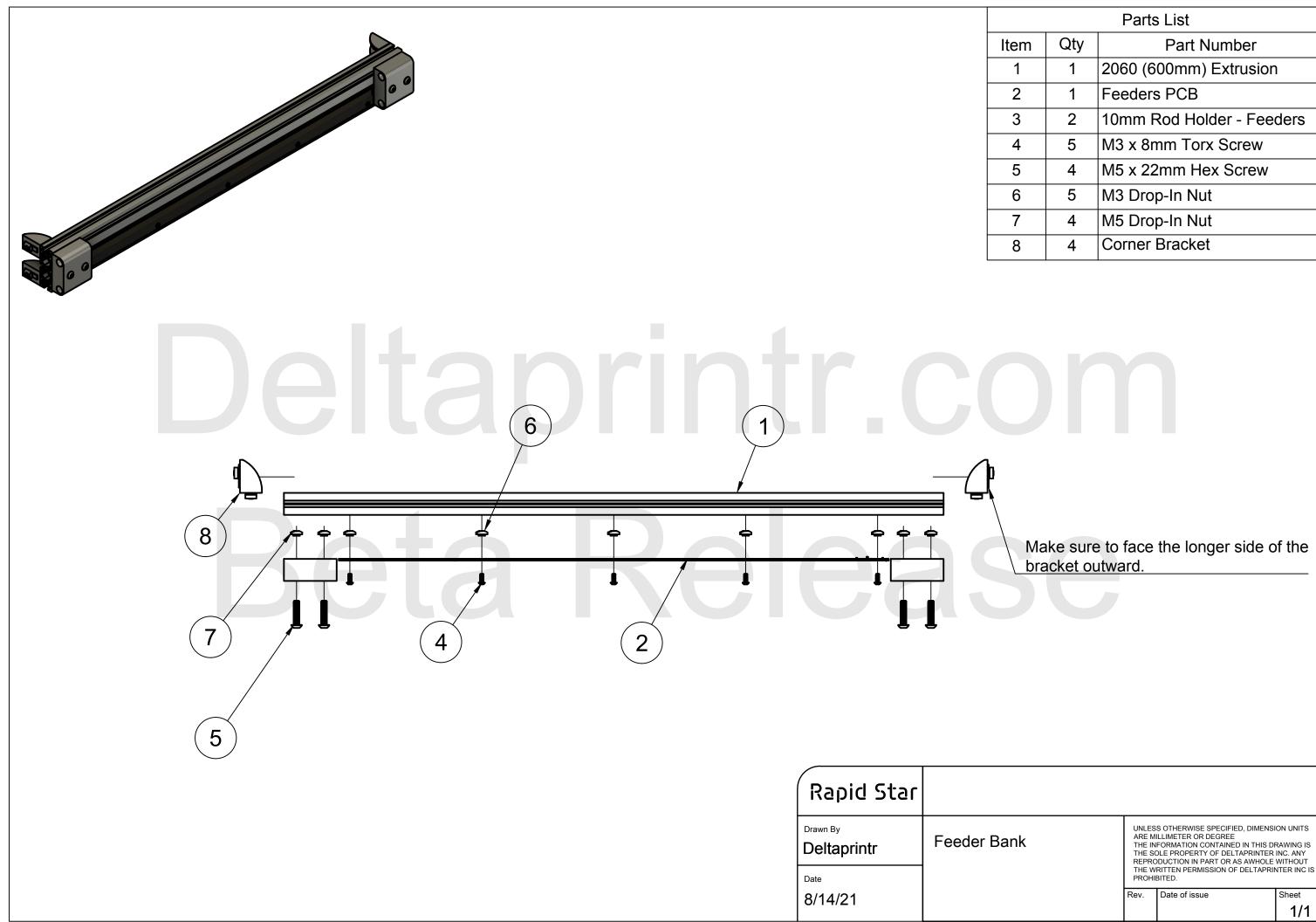
Rapid Star	
Drawn By Deltaprintr	Extrusion Ide
Date 8/14/21	

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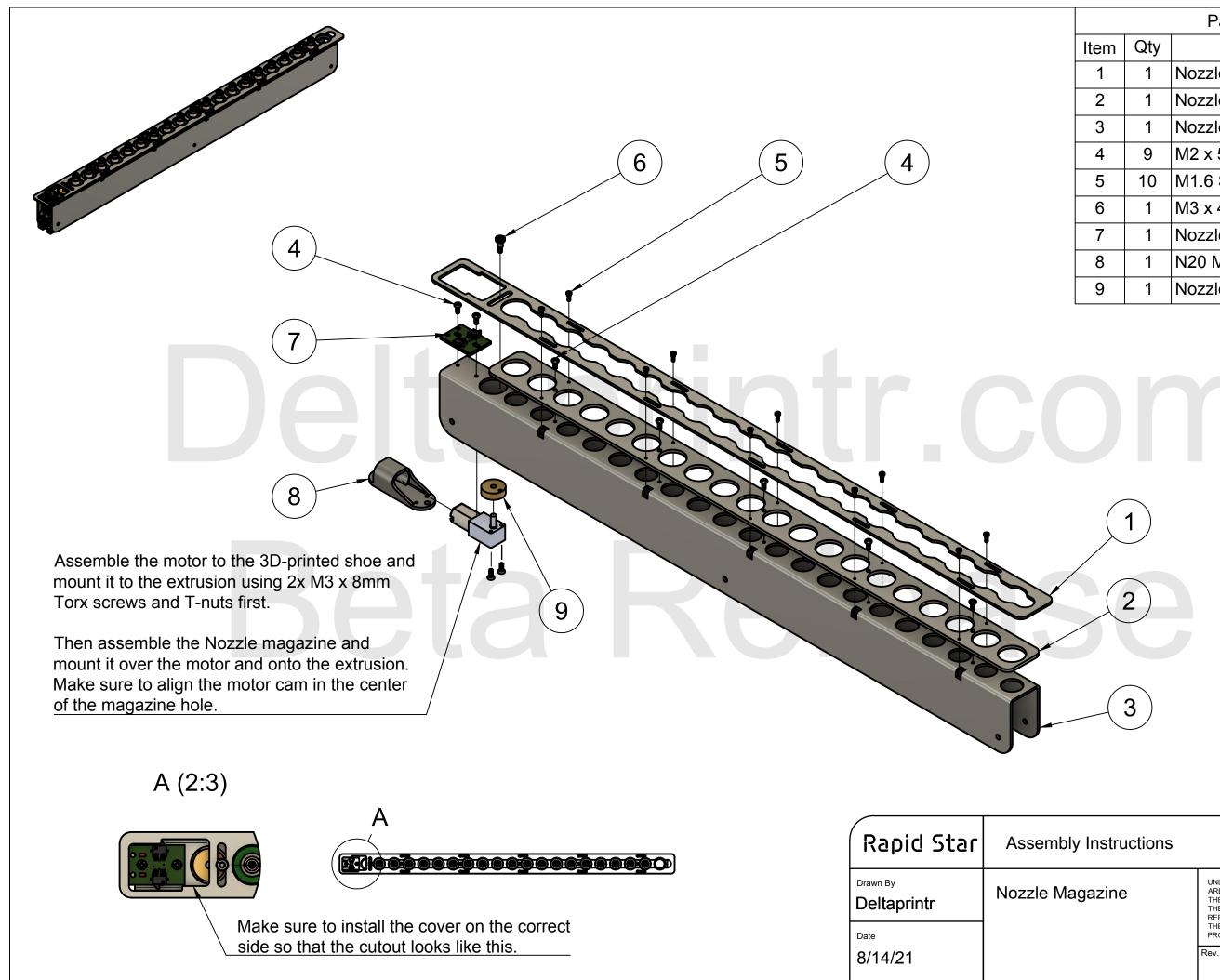
Parts List				
Qty	Name			
8	M5 X 10 Screw			
12	M5 T-Nut			
4	Brackets			
1	2060 (460mm) Extrusion			
2	2020 (290 mm) Extrusion			
2	Distance Aligner (Vertical)			
 •				

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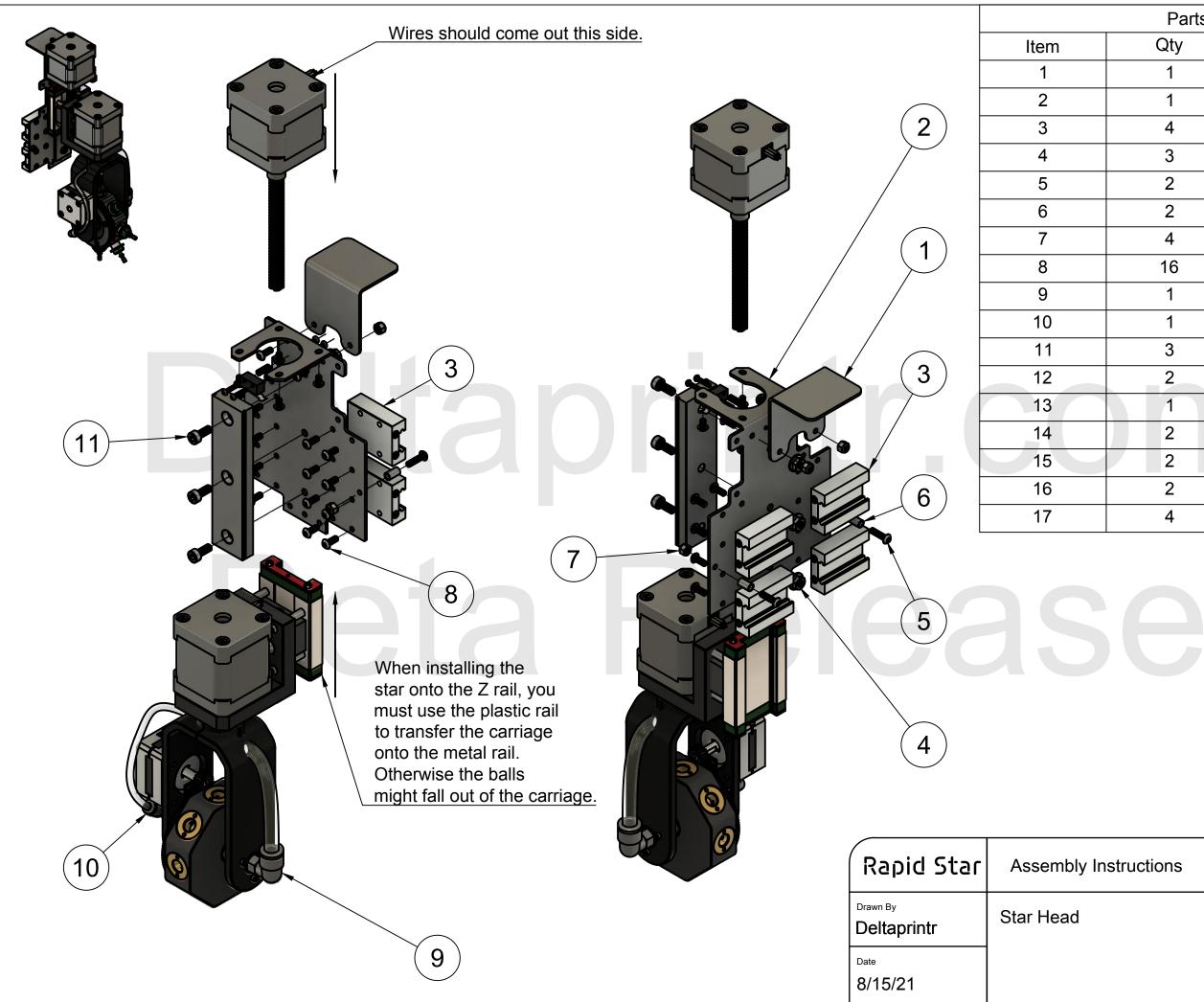
Parts List				
em	Qty Part Number			
1	1	2060 (600mm) Extrusion		
2	1	Feeders PCB		
3	2	10mm Rod Holder - Feeders		
1	5	M3 x 8mm Torx Screw		
5	4	M5 x 22mm Hex Screw		
5	5	M3 Drop-In Nut		
7	4	M5 Drop-In Nut		
3	4	Corner Bracket		

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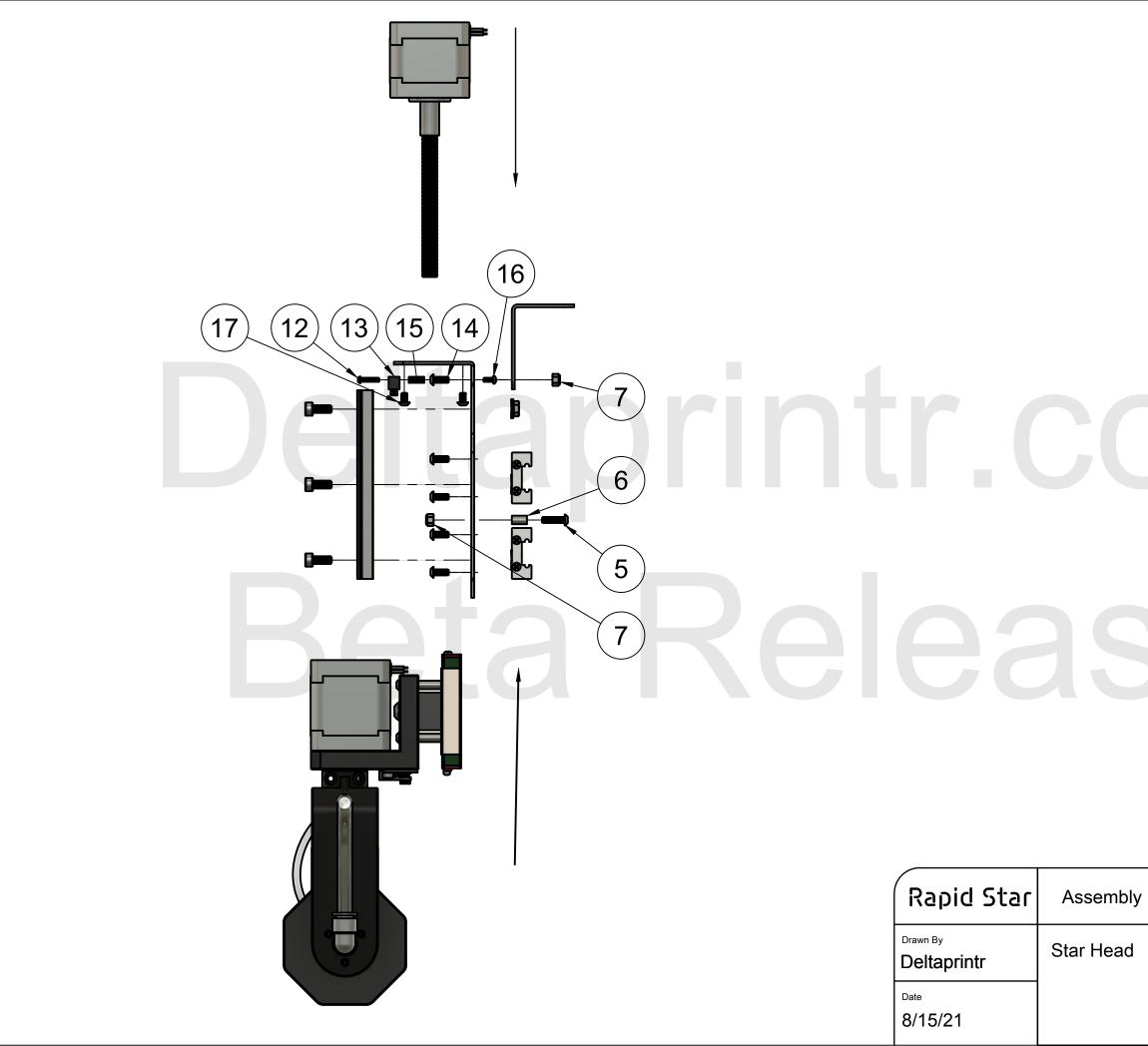
Parts List					
Item	Item Qty Part Number				
1	1	Nozzle Magazine Cover			
2	1	Nozzle Magazine Base			
3	1	Nozzle Magazine Support			
4	9	M2 x 5mm Phillips Screw			
5	10	M1.6 Shoulder Screw			
6	1	M3 x 4mm Shoulder Screw			
7	1	Nozzle Magazine PCB			
8	1	N20 Motor Right Angle			
9	1	Nozzle Magazine Cam			

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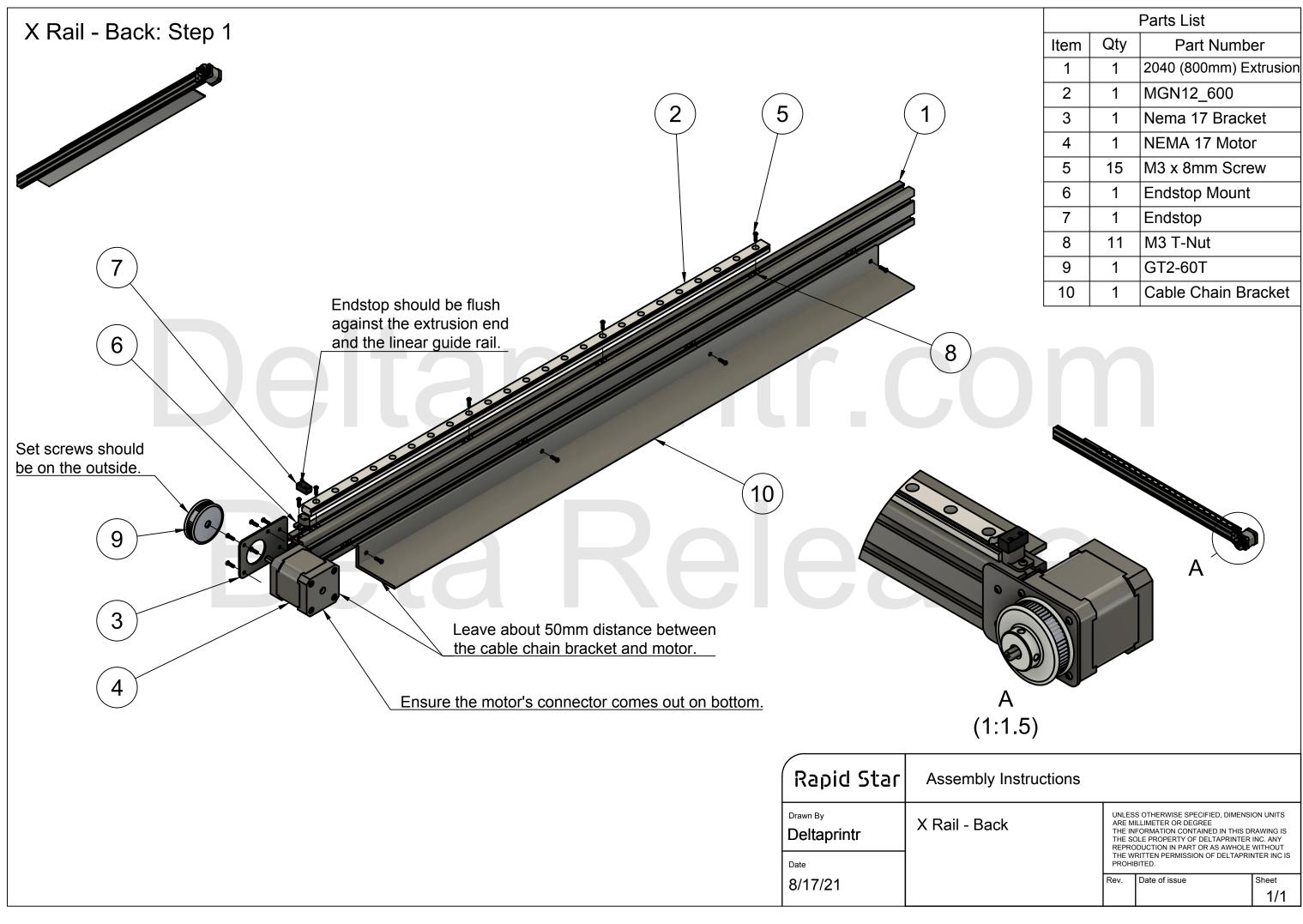
Parts List					
	Qty	Part Number			
	1	Head Chain Bracket			
	1	X Gantry Plate			
	4	MGN12C Carriage			
	3	M4 Nut			
	2	M3 x 15mm Screw			
	2	M3 x 8mm Spacer			
	4	M3 Nylon Nut			
	16	M3 x 8mm Screw			
	1	8mm Pneumatic Fitting			
	1	4mm Pneumatic Fitting			
	3	M4 x 10mm Screw			
	2	M2 x 10mm Screw			
	1	Endstop			
	2	M3 x 8mm Screw			
	2	M2 x 8mm Standoff			
	2	M2 x 5mm Screw			
	4	M3 x 5mm Screw			

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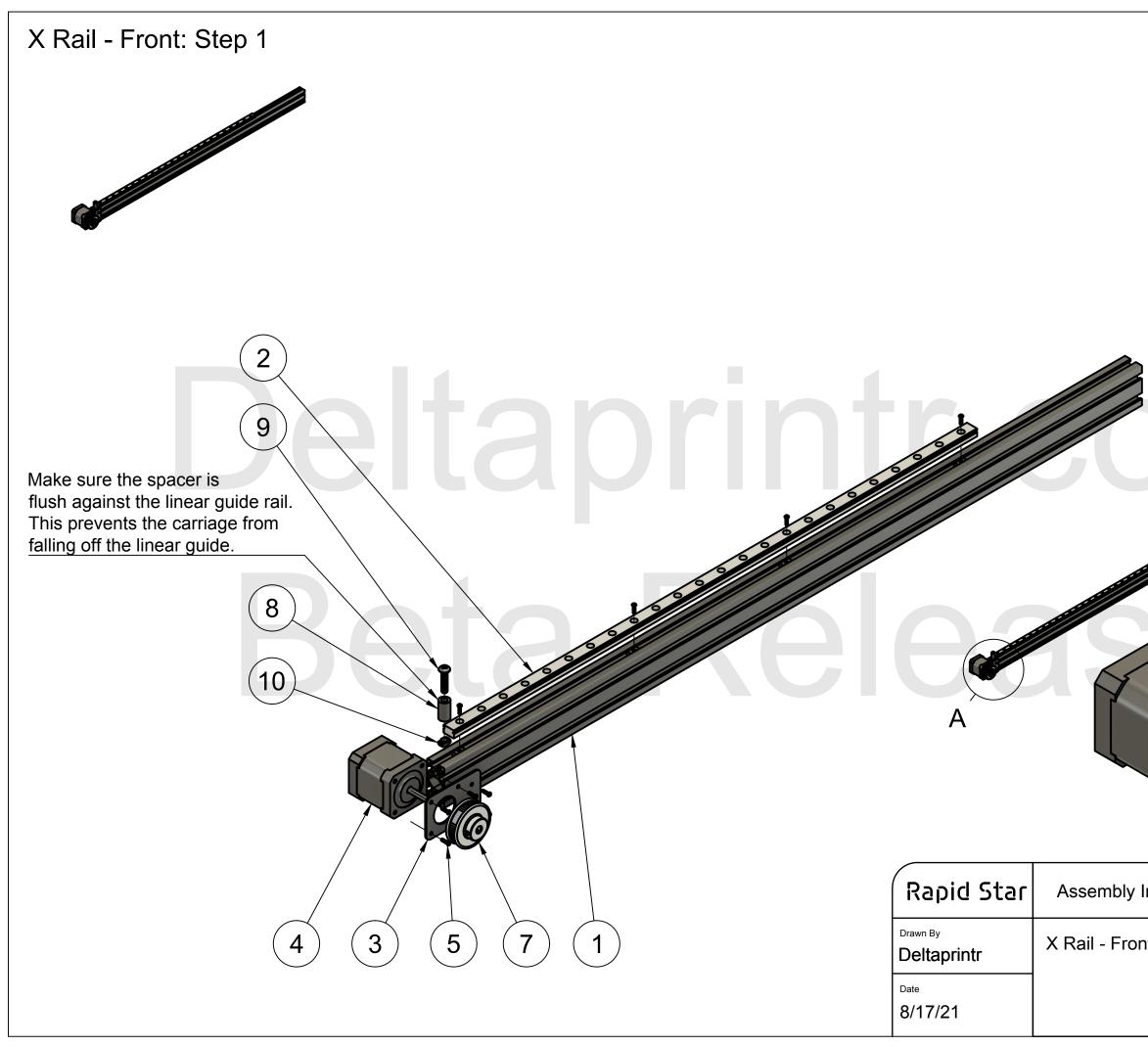


Assembly Instructions

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		Parts List		
Item	Qty	Part Number		
1	1	2040 (800mm) Extrusion		
2	1	MGN12_600		
3	1	Nema 17 Bracket		
4	1	NEMA 17 Motor		
5	15	M3 x 8mm Screw		
6	1	Endstop Mount		
7	1	Endstop		
8	11	M3 T-Nut		
9	1	GT2-60T		
10	1	Cable Chain Bracket		

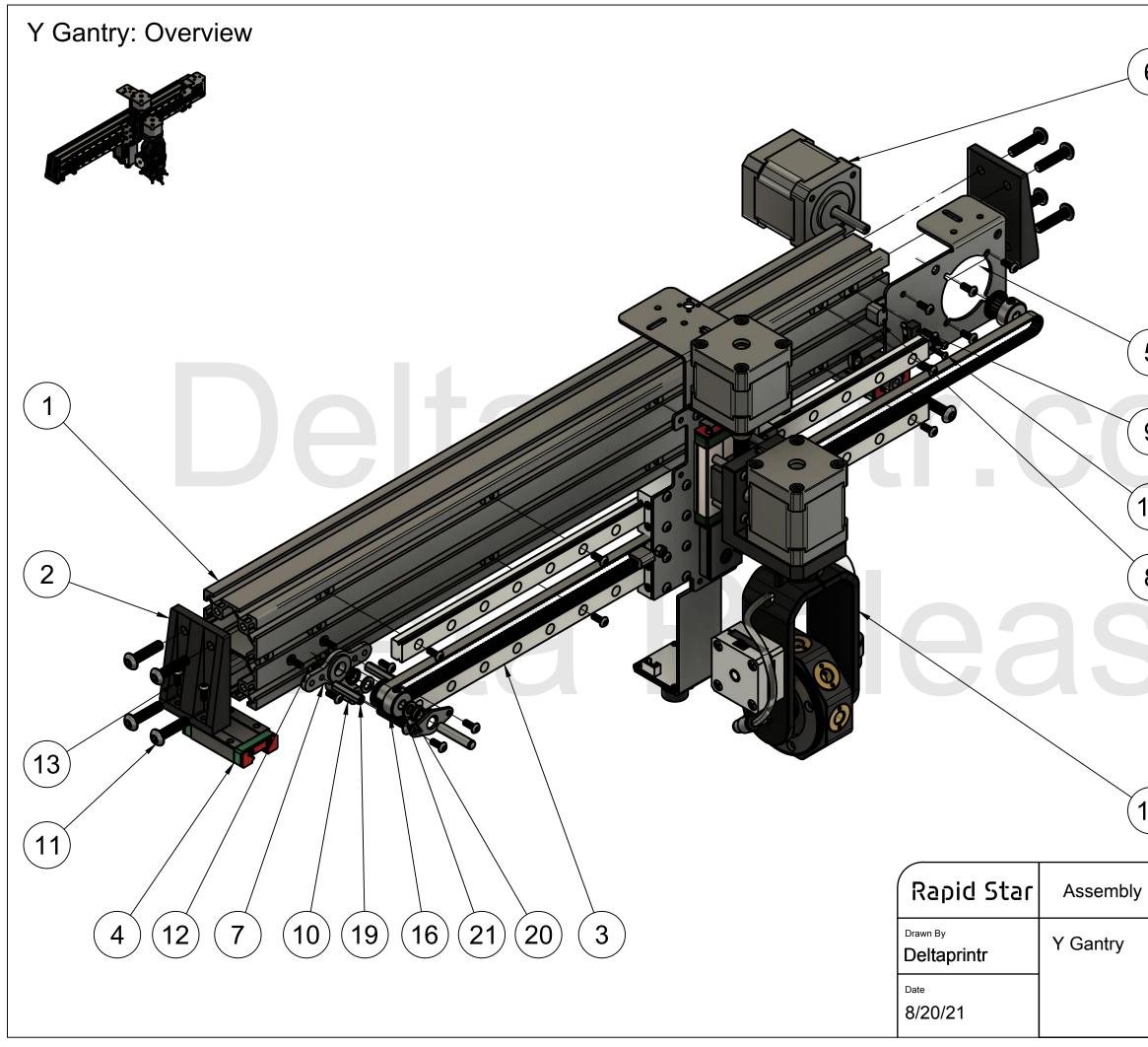


		F	Parts List
	Item	Qty	Part Number
	1	1	2040 (800mm) Extrusion
	2	1	MGN12_600
	3	1	Nema 17 Bracket
	4	1	NEMA 17 Motor
	5	10	M3 x 8mm Screw
	6	6	M3 T-Nut
	7	1	GT2-60T
	8	1	M5 Spacer
	9	1	M5 x 22mm Hex
			Screw
	10	1	M5 Drop-In Nut
	10		
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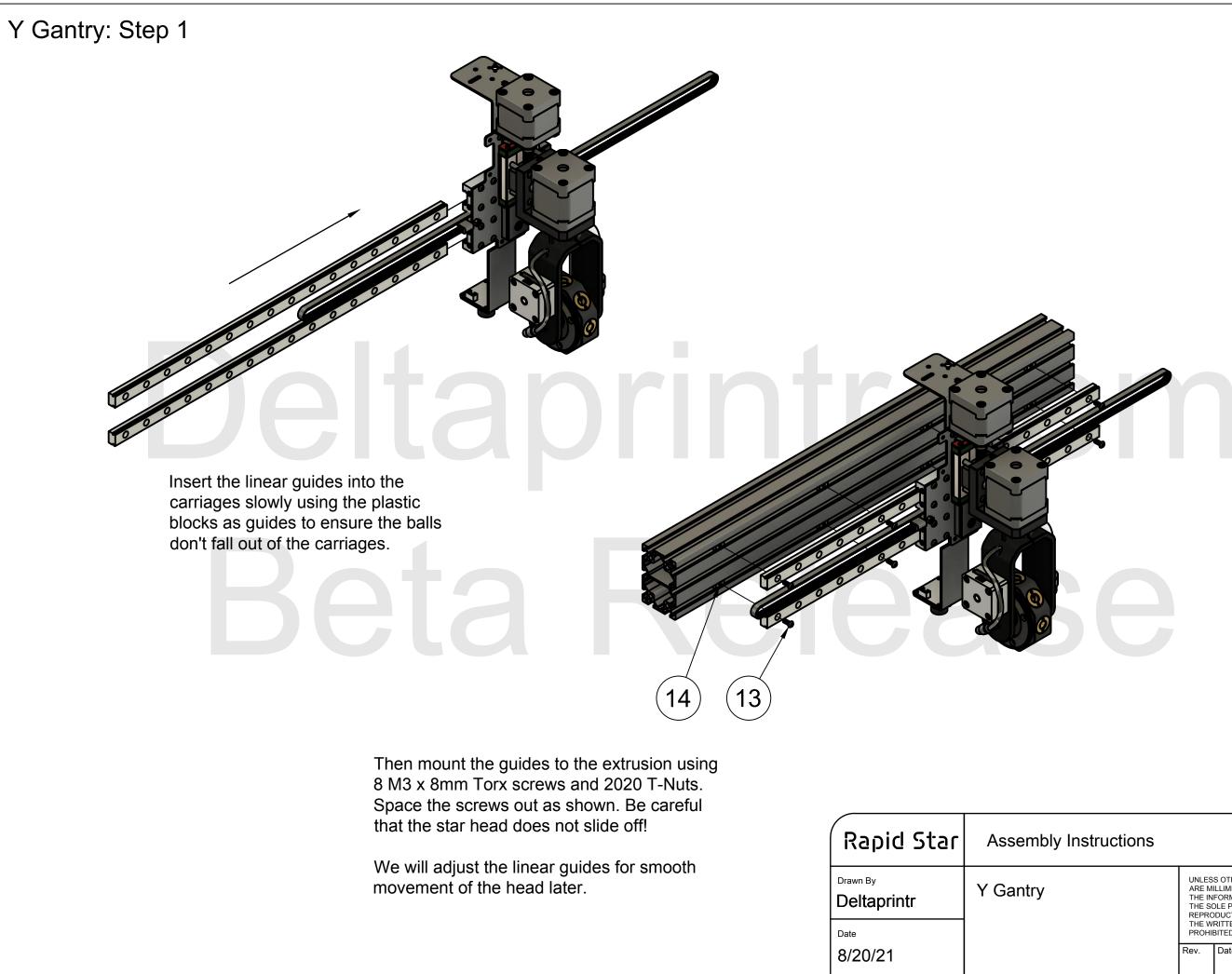
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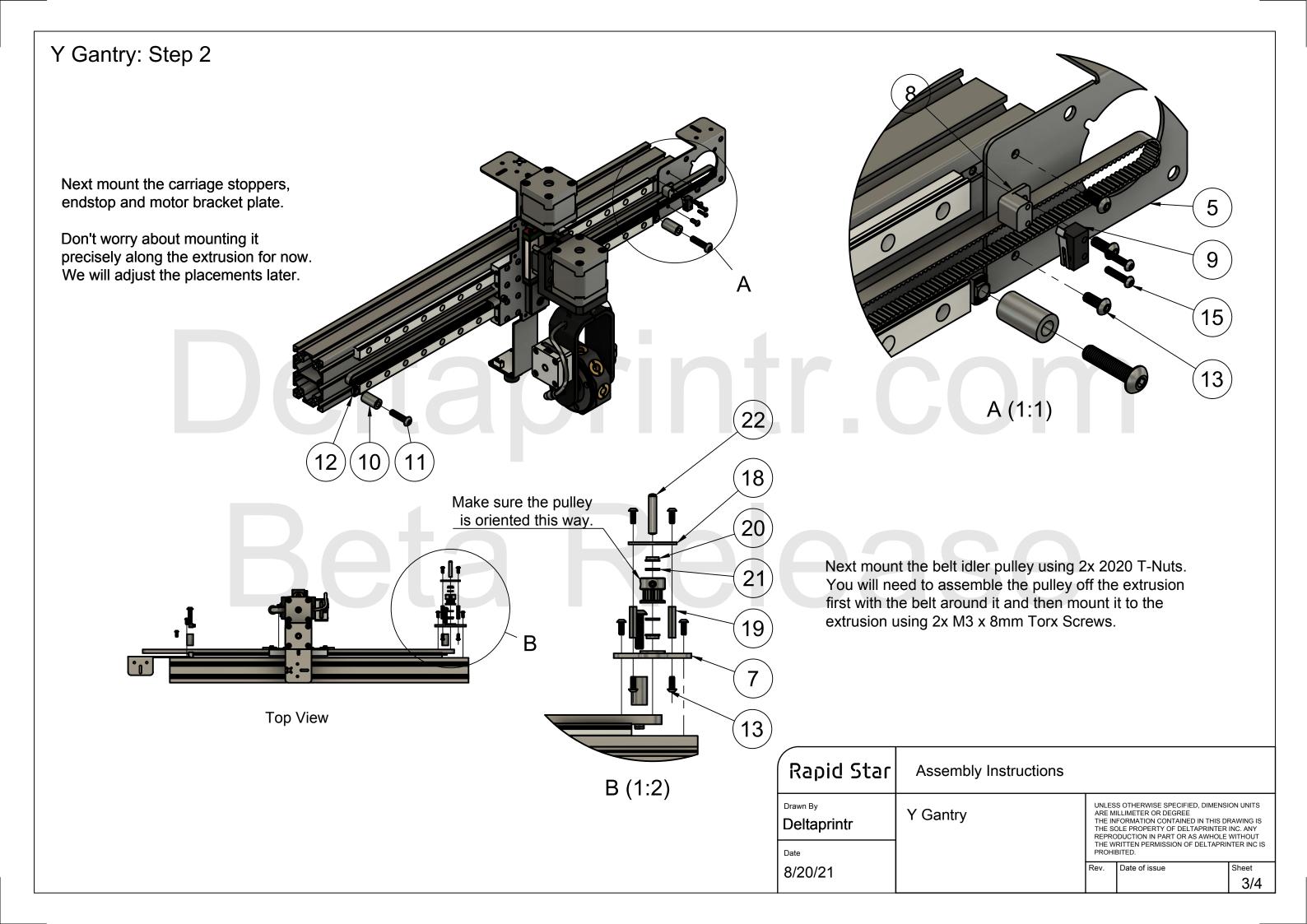
			Parts List
	Item	Qty	Part Number
	1	1	4060 (480mm) Extrusion
	2	2	4060 Bracket
	3	2	MGN12 (400mm)
	4	2	MGN12H Block
	5	1	Y Motor Plate
	6	1	NEMA 17 Motor
	7	1	GT2 16T Idler Bracket
	8	1	Endstop Mount
	9	1	Endstop
	10	2	M5 Spacer
)	11	10	M5 x 22mm Hex Screw
	12	2	M5 Drop-In Nut
)	13	25	M3 x 8mm Torx Screw
	14	11	2020 T-Nut
	15	2	M2 x 10mm Hex Screw
	16	2	GT2 20T Pulley
	17	1	Star Head Assembly
	18	1	GT2 Idler
	19	2	M3 x 20mm Hex Standoff
	20	2	Flanged Ball Bearing
	21	2	M5 Washer
	22	1	Idler Pin
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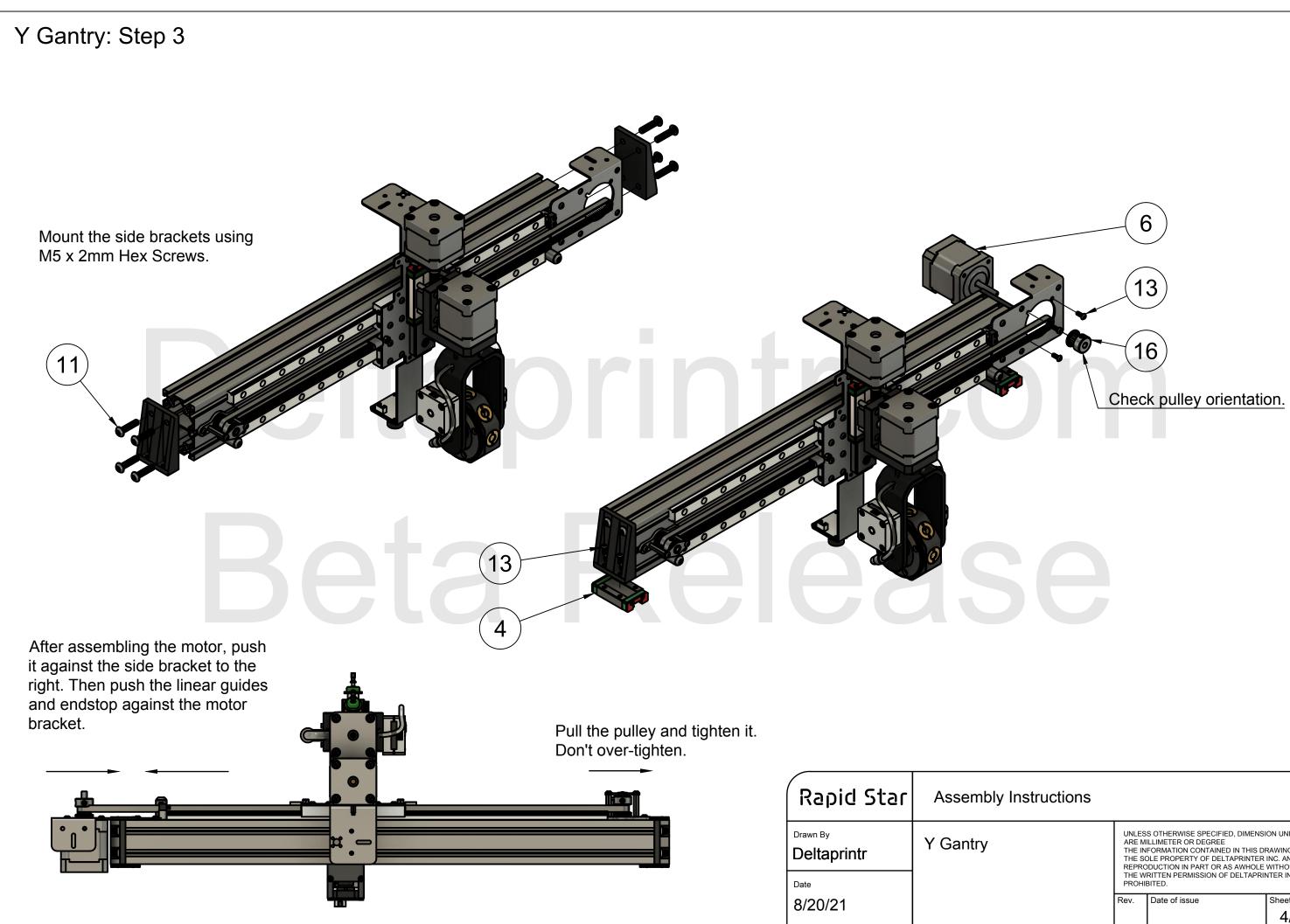
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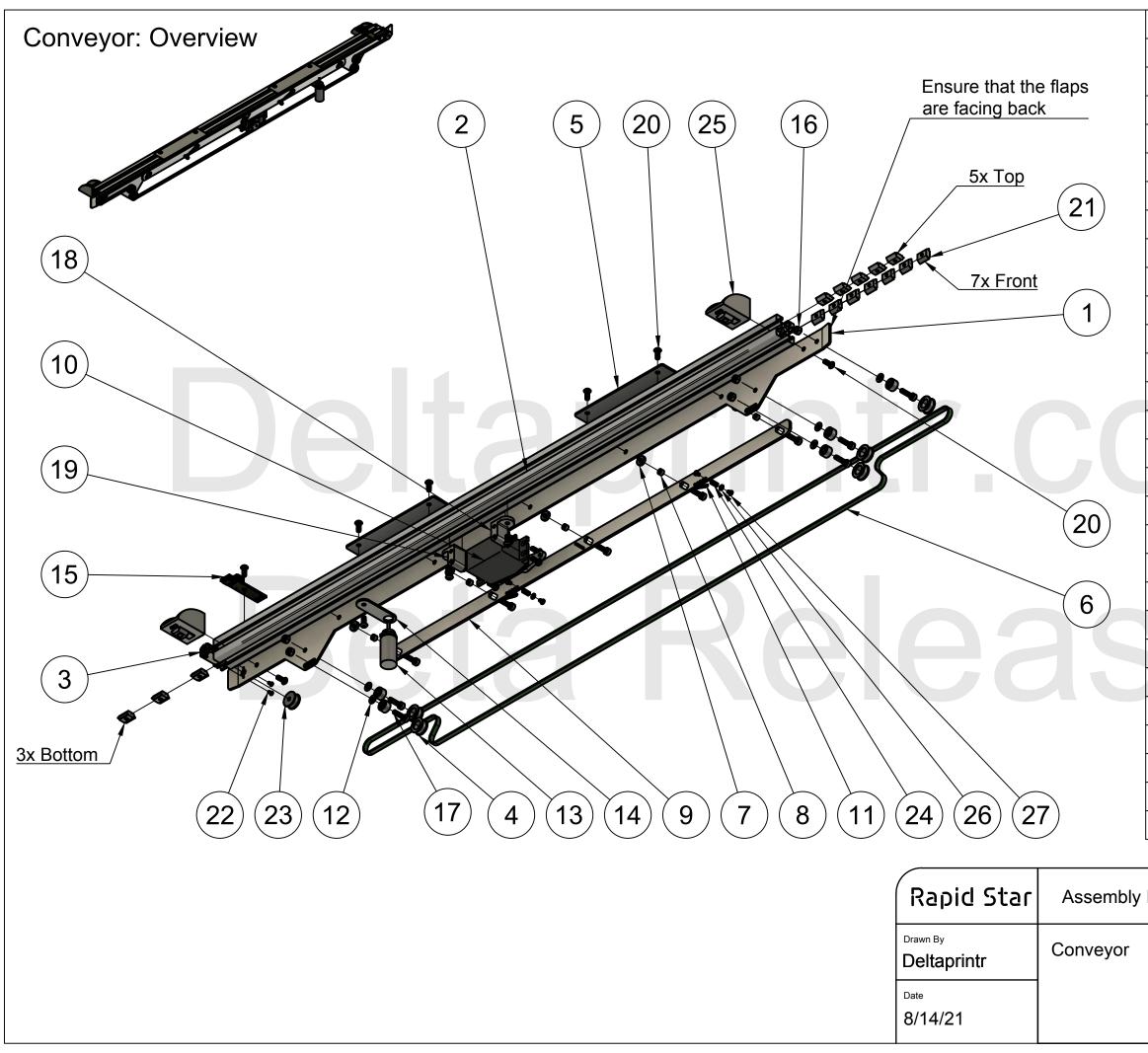


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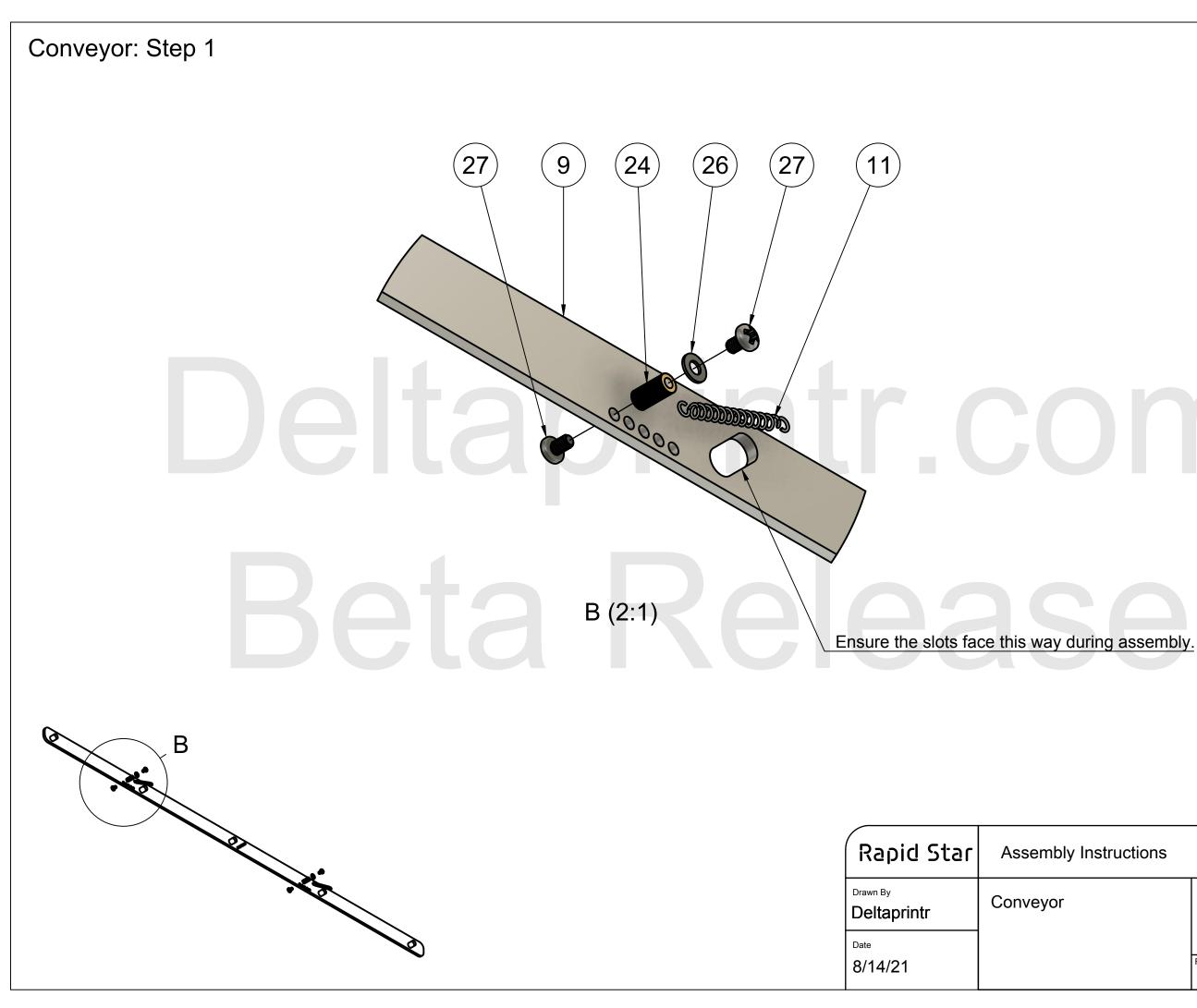


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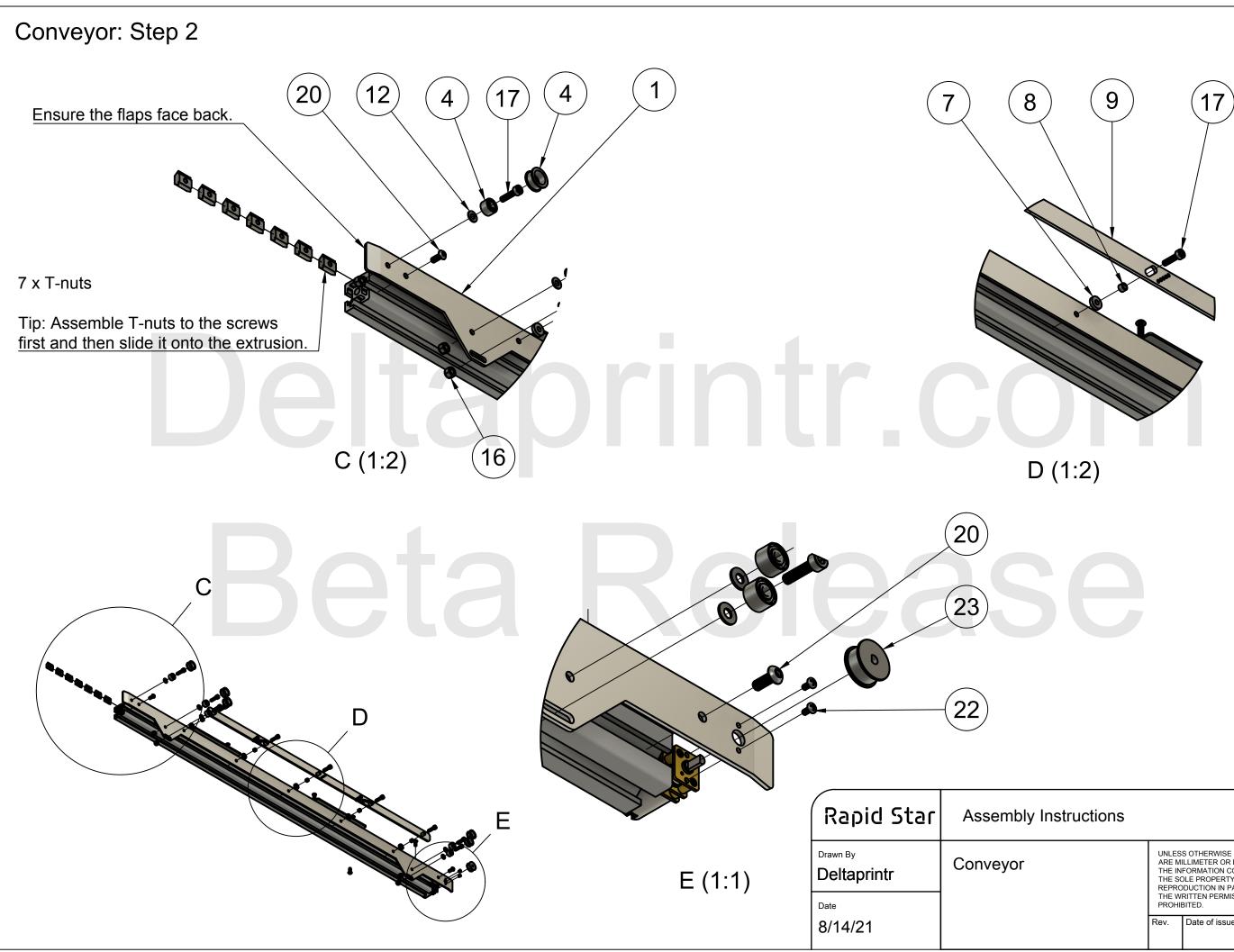


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Parts List						
Item	Qty	ty Part Number				
1	1	Conveyer Guide				
2	1	2020 (640mm) Extrusion				
3	1	N20 motor				
4	5	Flat Belt Pulley				
5	2	Conveyer Hood				
6	1	Belt				
7	5	M3 2mm Washer				
8	5	M3 x 3mm Standoff				
9	1	Gripper				
10	1	Servo				
11	2	Extension Spring				
12	5	M3 Washer				
13	1	Conveyor Solenoid				
14	1	Conveyor Solenoid Plate				
15	1	Conveyor Limit Switch				
16	5	M3 Nylon Nut				
17	10	M3 x 12mm Hex Screw				
18	1	Conveyor Servo Bracket L				
19	1	Conveyor Servo Bracket R				
20	14	M3 x 8mm Torx Screw				
21	15	2020 T-Nut				
22	2	M1.6 x 3mm Phillips Screw				
23	1	Flat Belt Pulley - N20 Motor				
24	2	M2 6mm Standoff				
25	2	Corner Bracket				
26	2	M2 Washer				
27	4	M2 x 3mm Phillips Screw				
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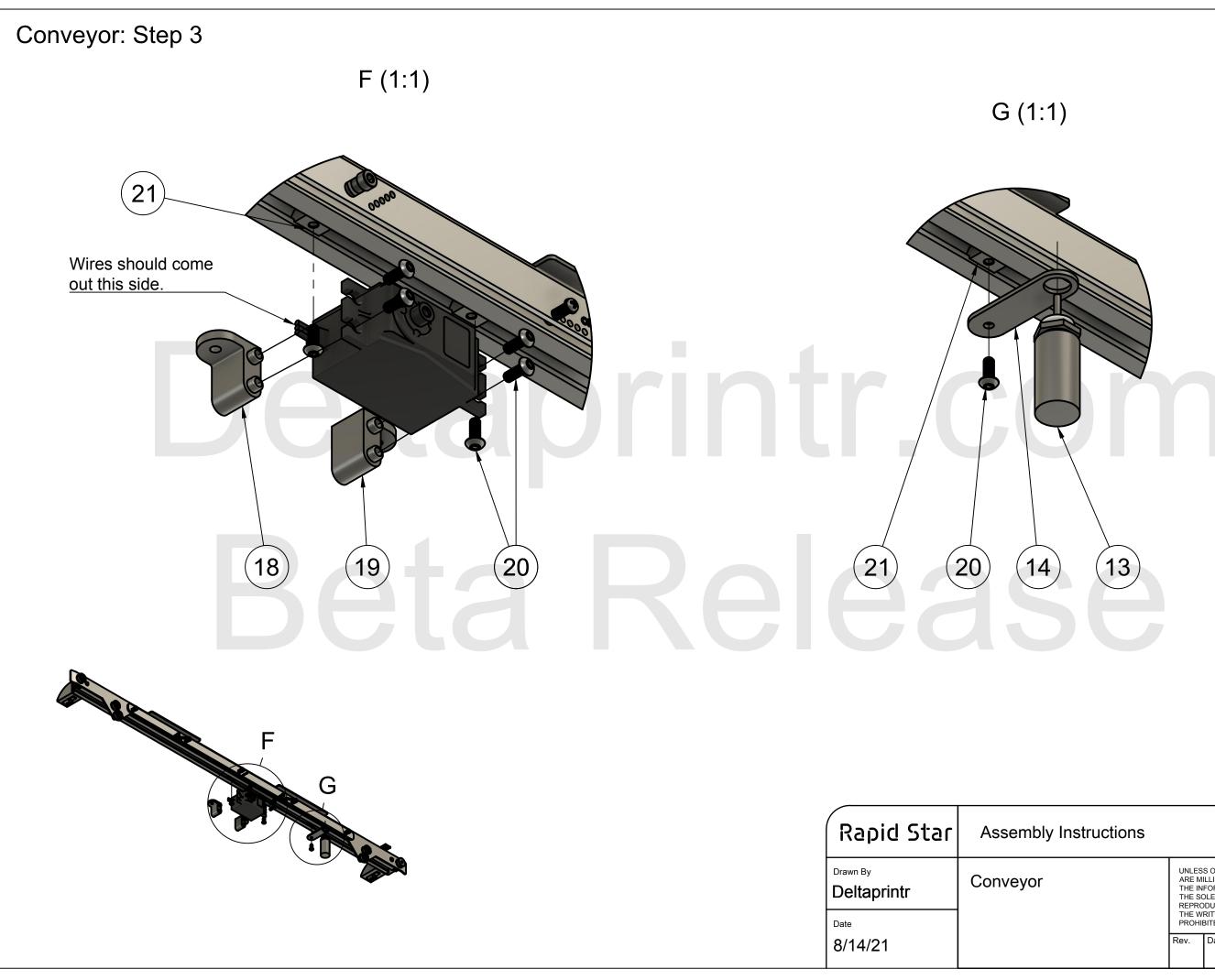
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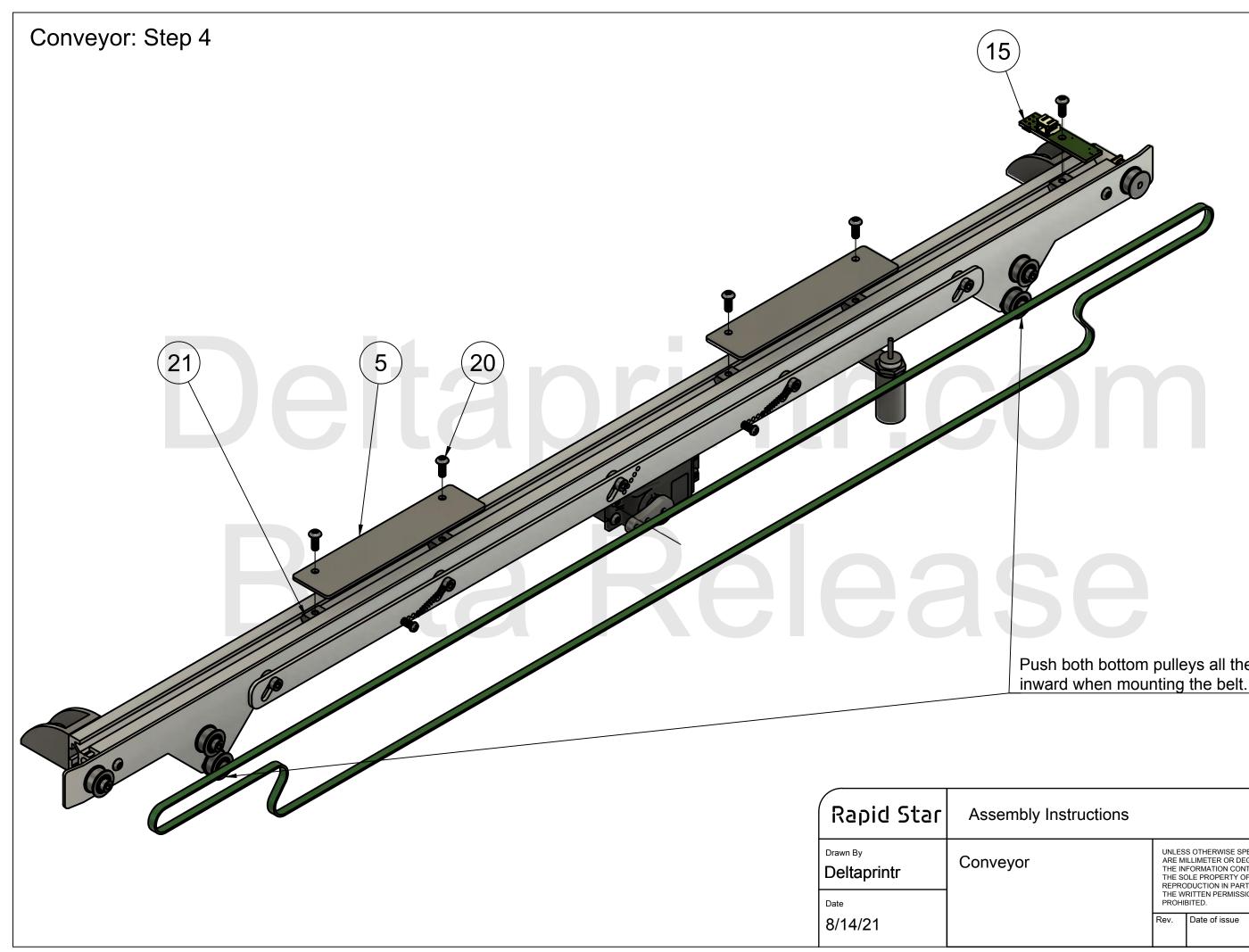
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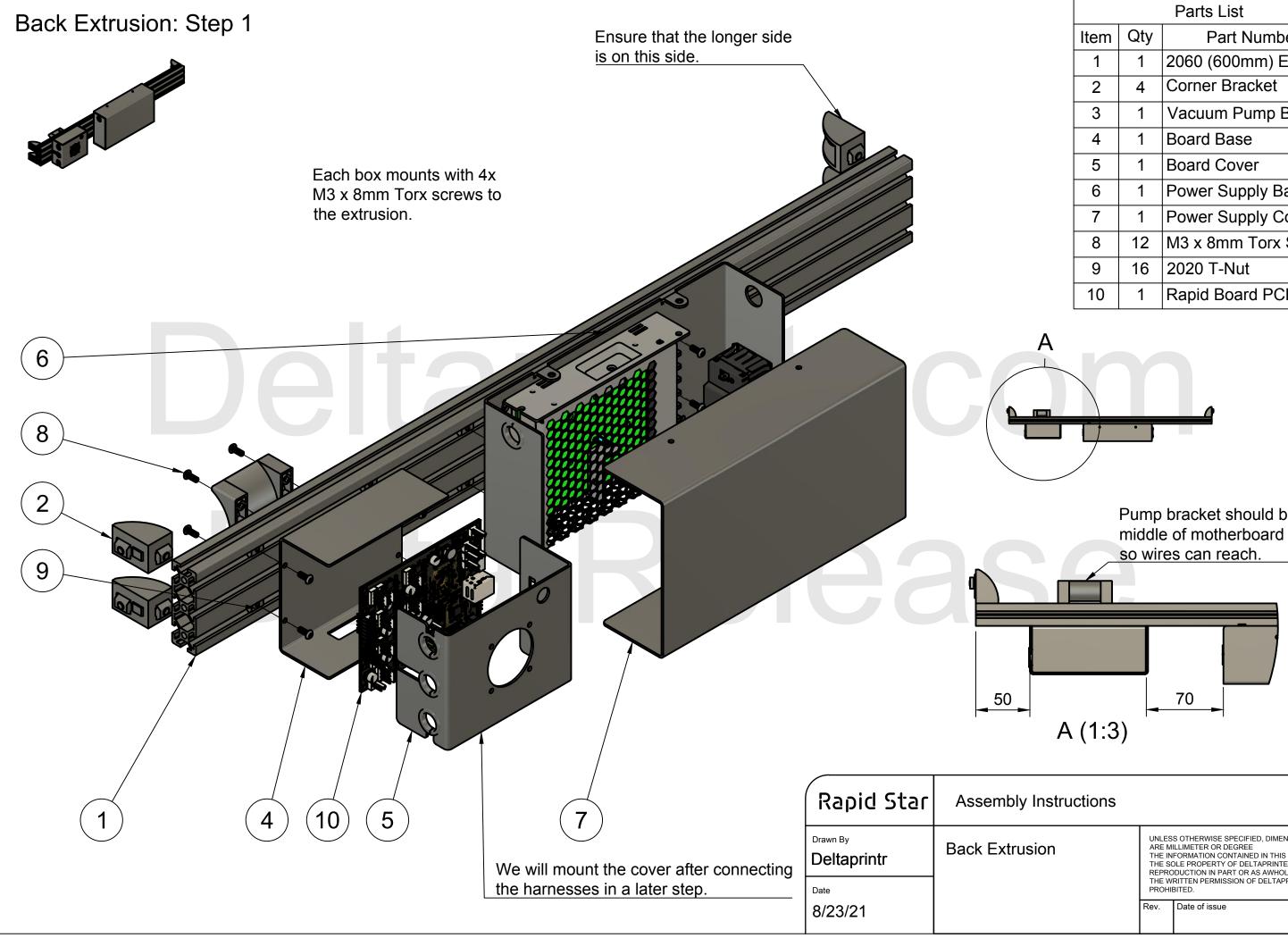
Push both bottom pulleys all the way

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Note that the solenoid should go on the conveyor further away from the feeders. There is only one solenoid per machine.

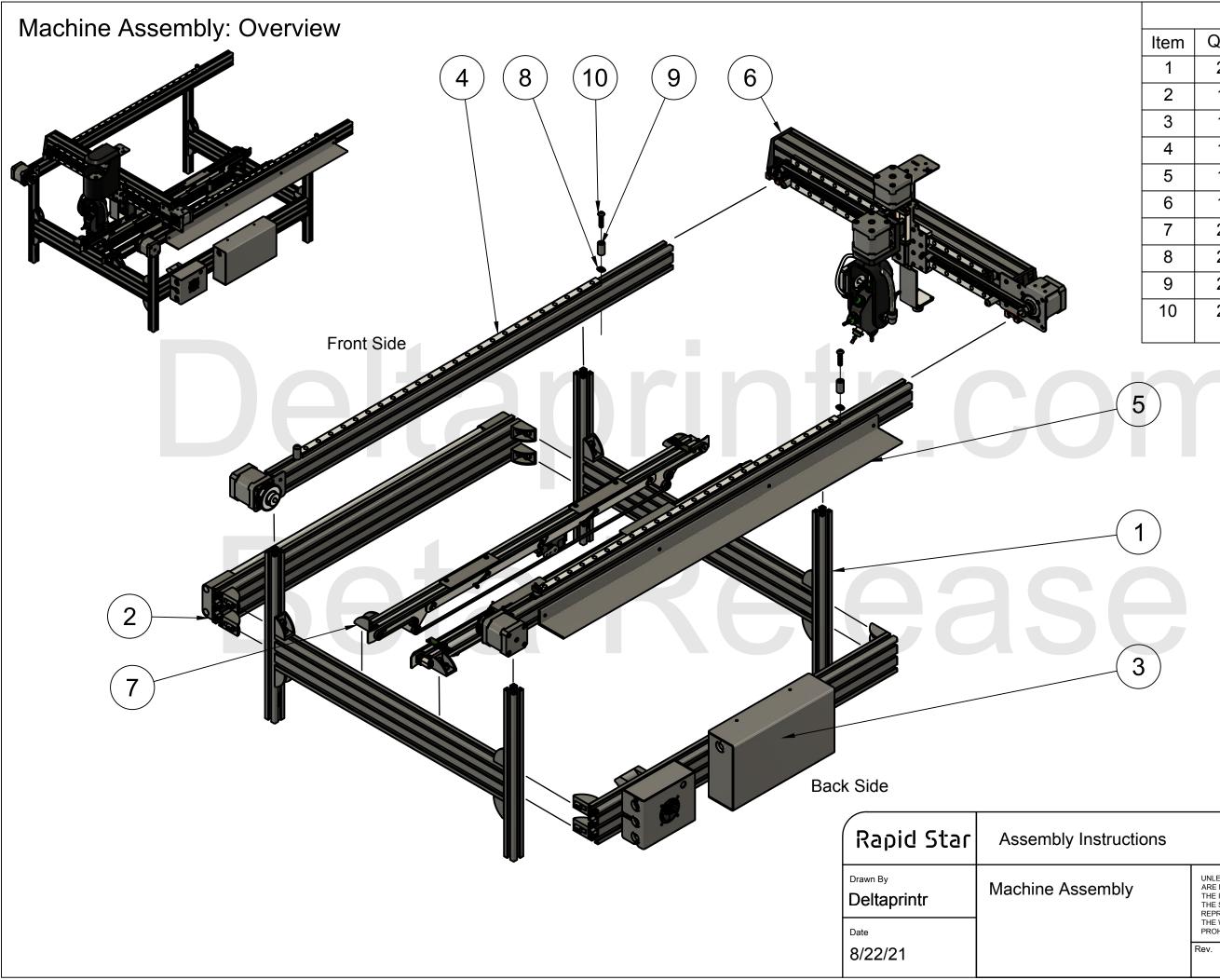
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Parts List					
Item	Qty	Part Number			
1	1	2060 (600mm) Extrusion			
2	4	Corner Bracket			
3	1	Vacuum Pump Bracket			
4	1	Board Base			
5	1	Board Cover			
6	1	Power Supply Base			
7	1	Power Supply Cover			
8	12	M3 x 8mm Torx Screw			
9	16	2020 T-Nut			
10	1	Rapid Board PCB			

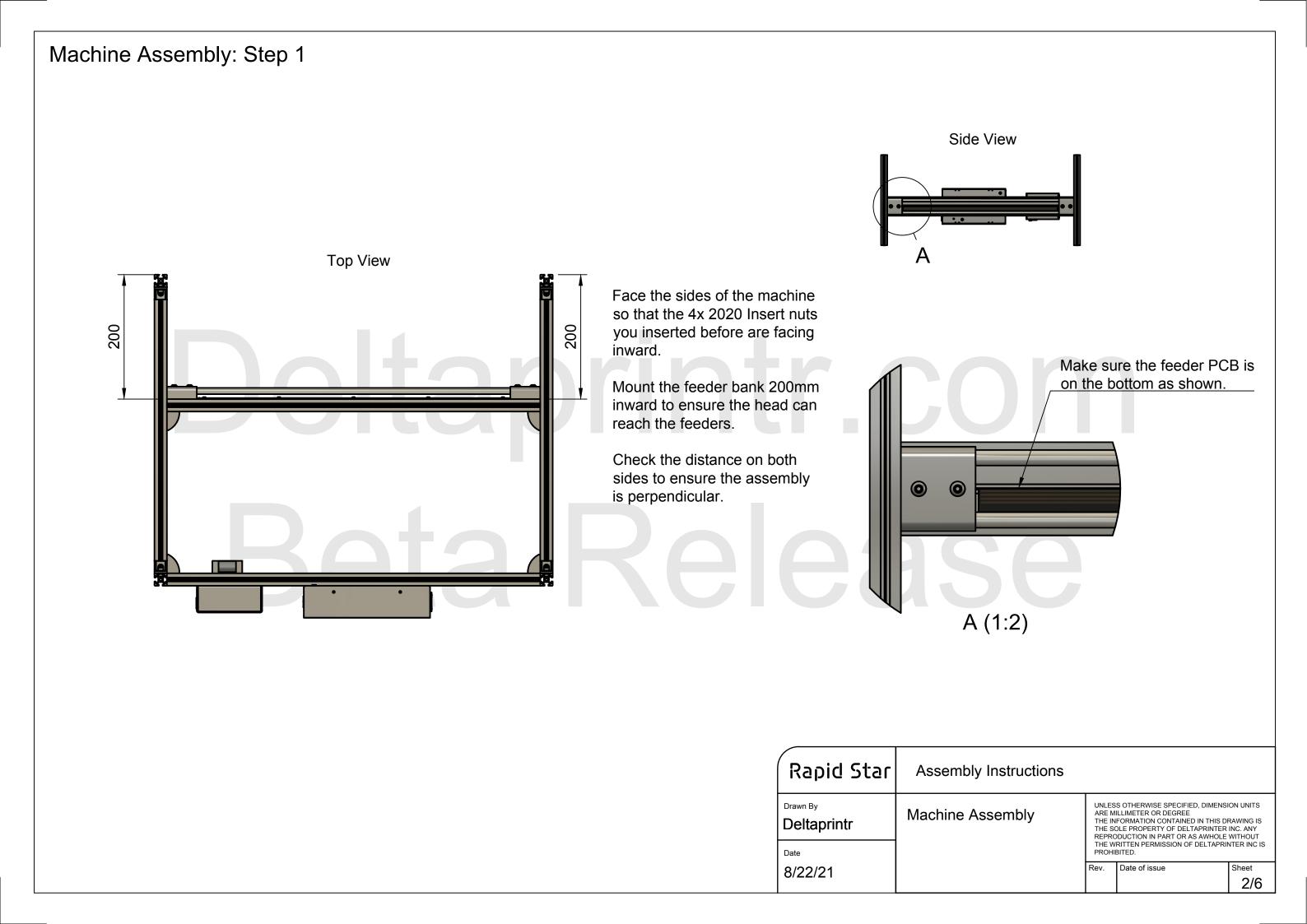
Pump bracket should be in middle of motherboard box

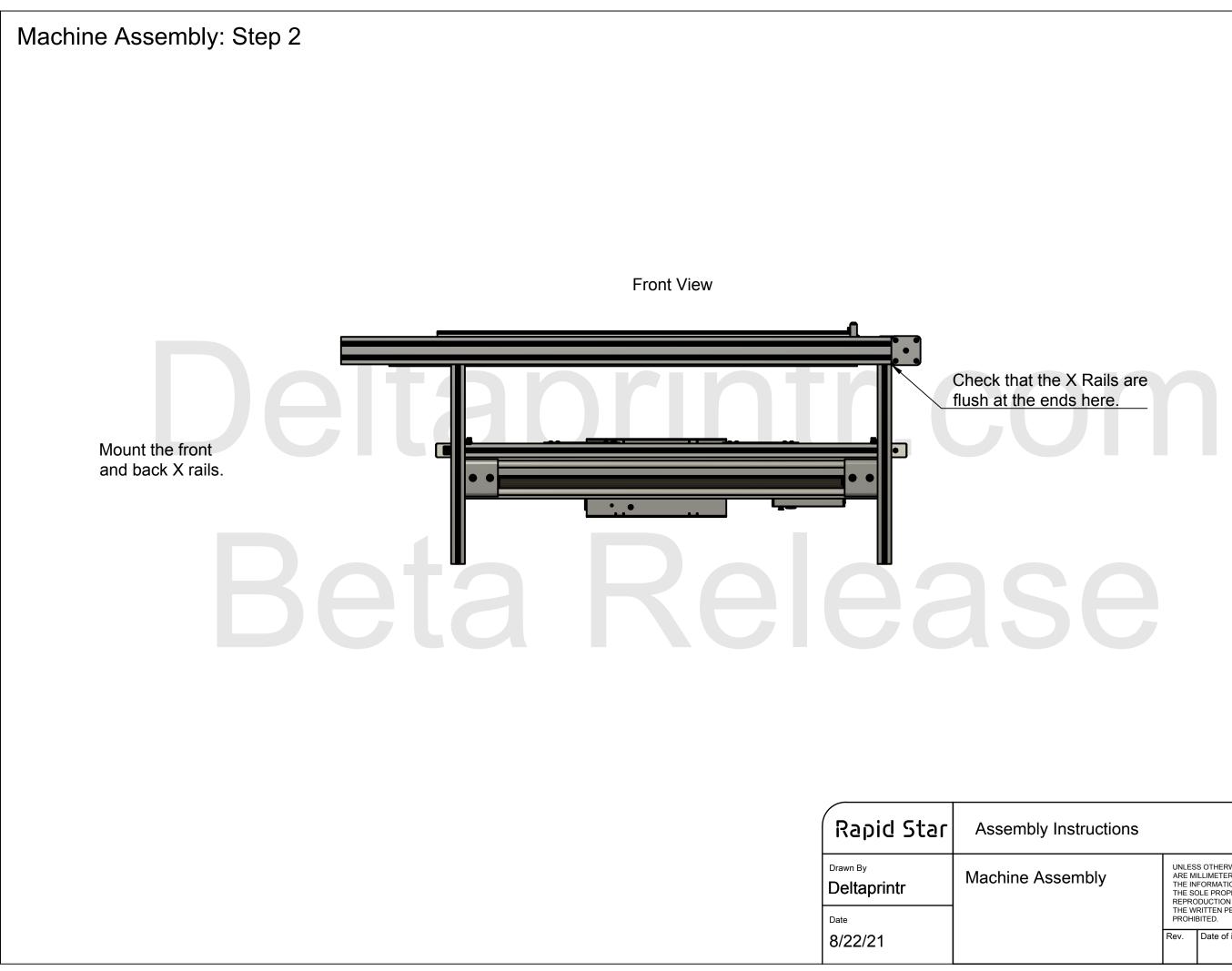
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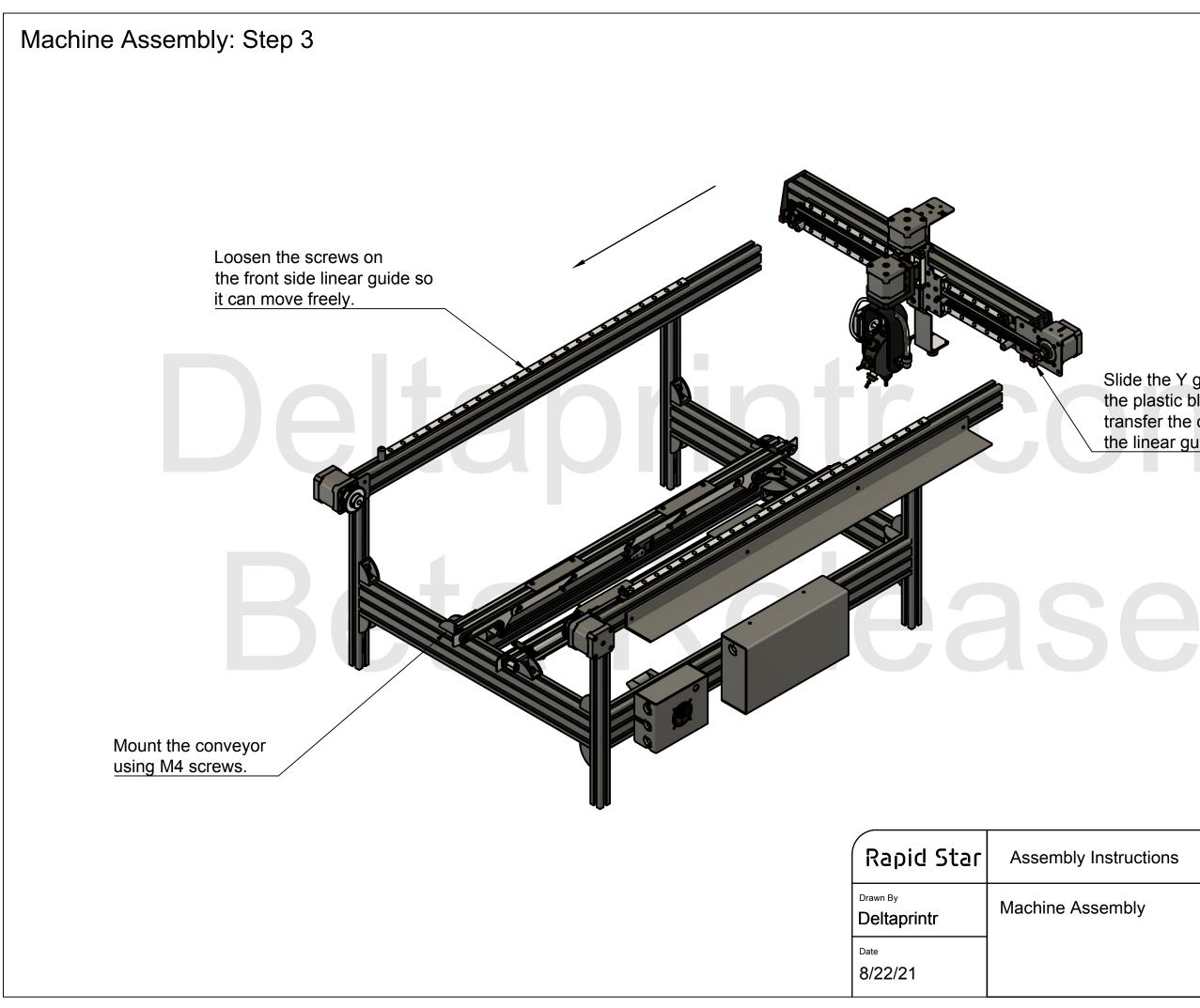
Parts List		
Item Qty		Part Number
1	2	Machine Side
2	1	Feeder Bank
3	1	Back Extrusion
4	1	X Rail - Front
5	1	X Rail - Back
6	1	Y Gantry
7	2	Conveyer
8	2	M5 Drop-In Nut
9	2	M5 Spacer
10	2	M5 x 22mm Hex
		Screw

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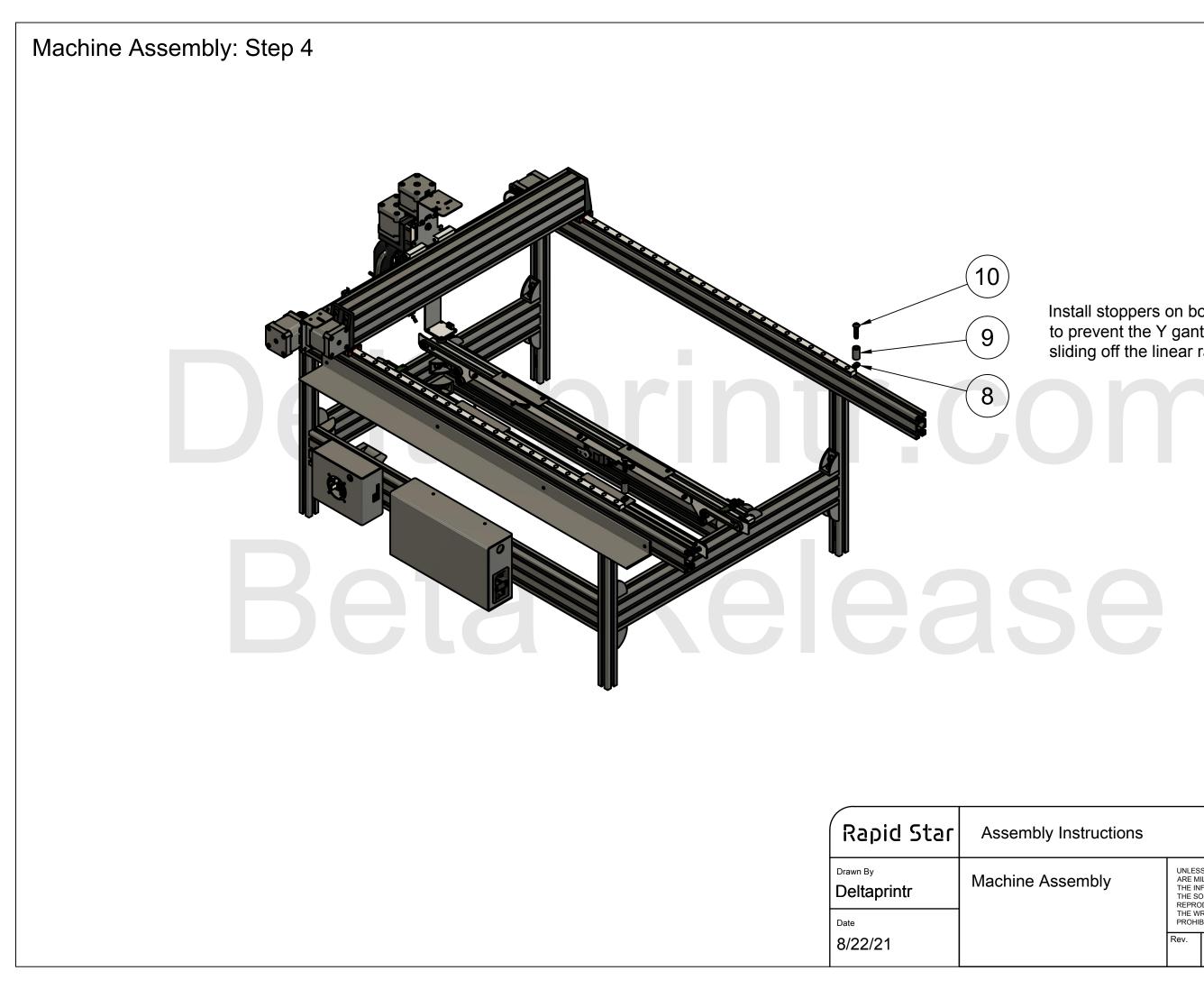


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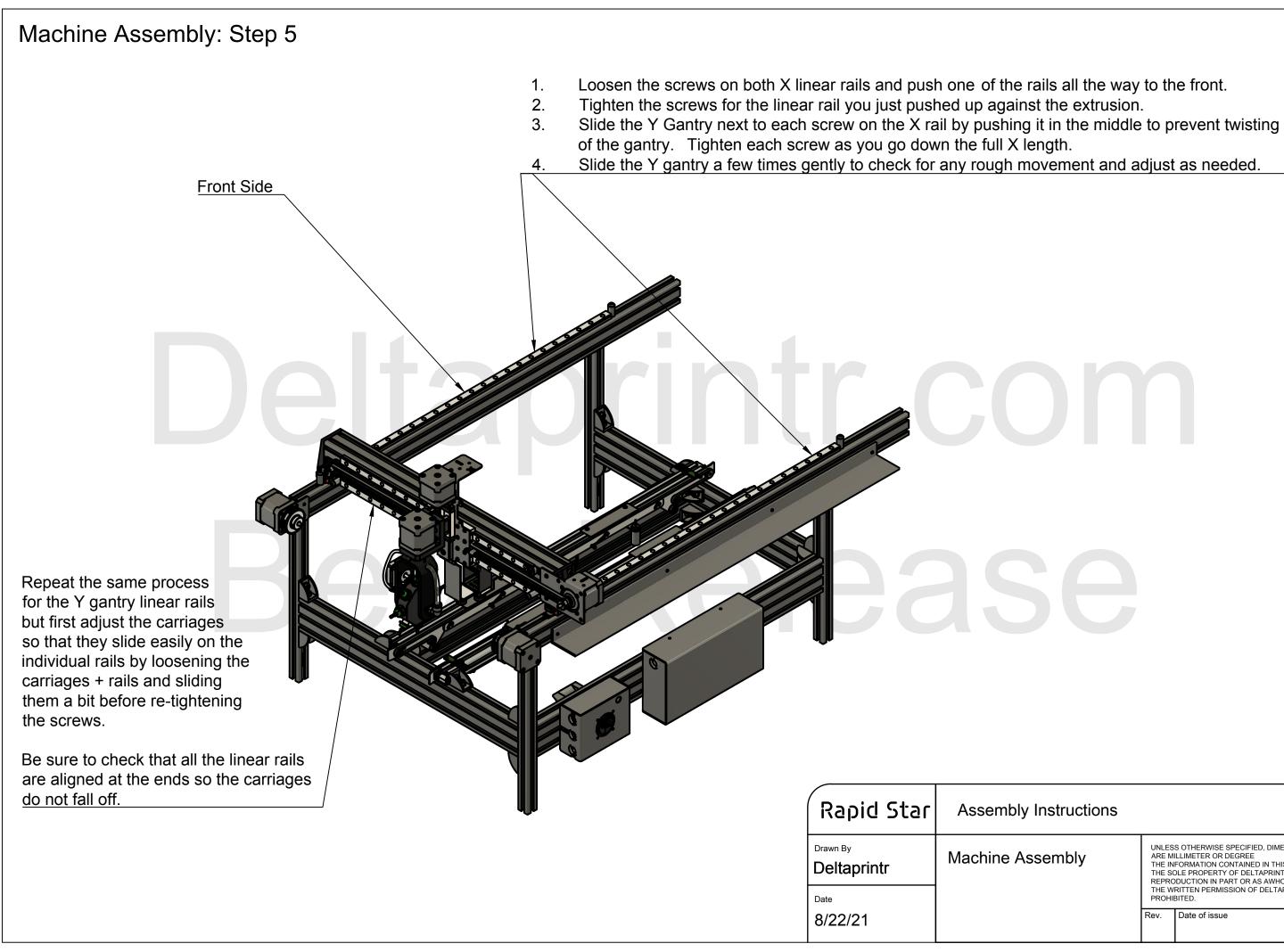
Slide the Y gantry using the plastic blocks to help transfer the carriage onto the linear guide rail.

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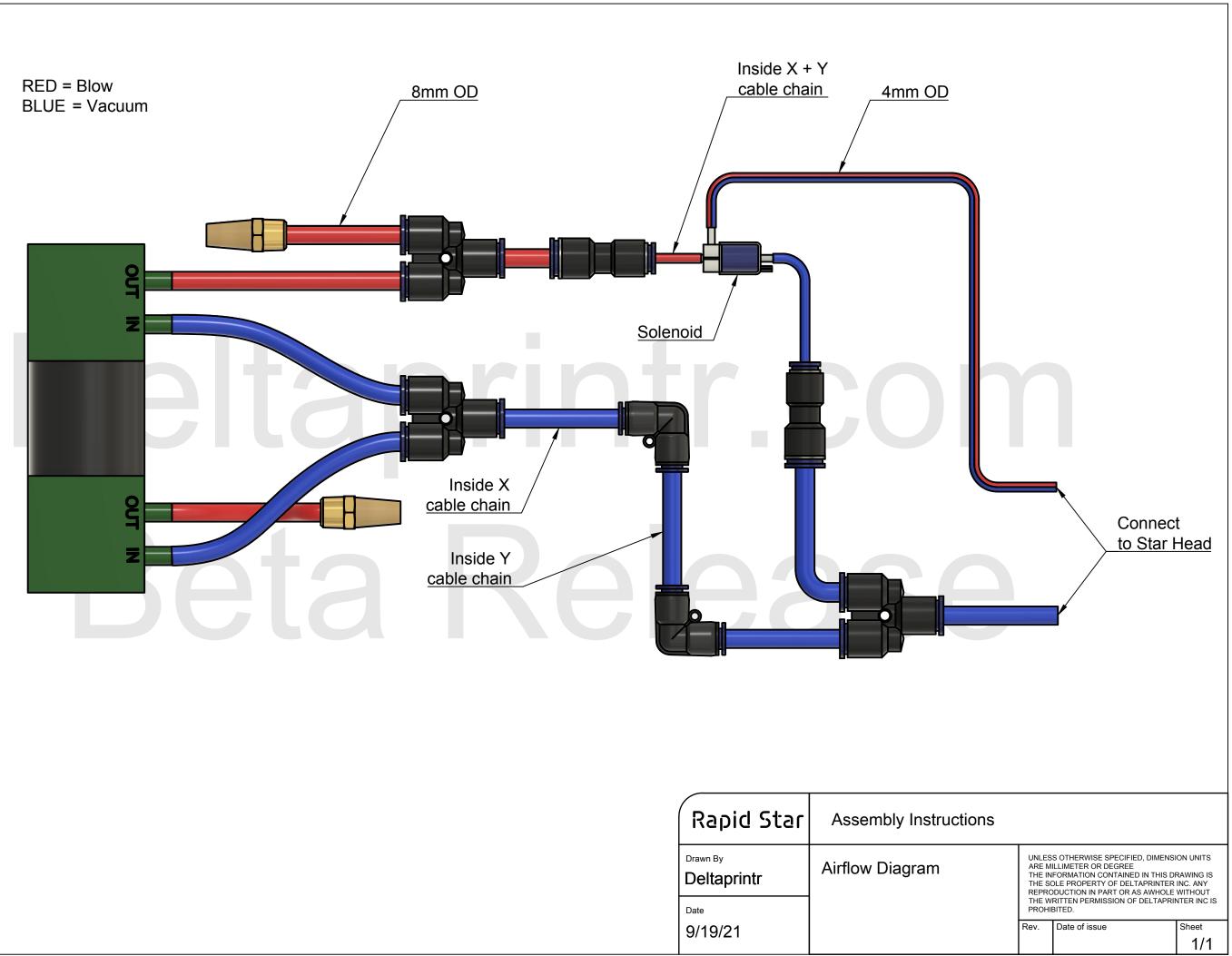
Install stoppers on both X axis to prevent the Y gantry from sliding off the linear rails.

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Rapid Star	Assembly I
Drawn By Deltaprintr	Airflow Diagr
Date 9/19/21	