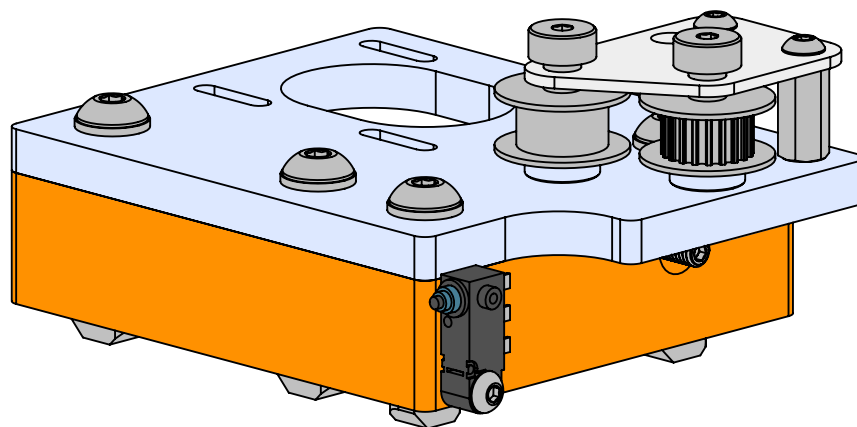
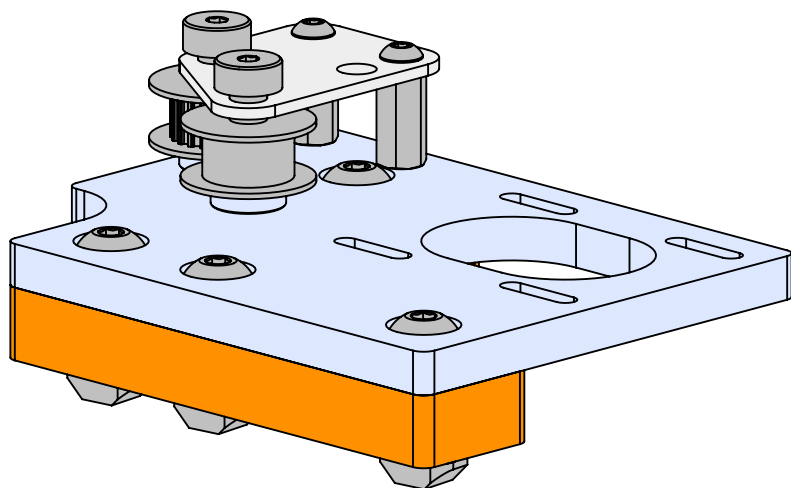


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Machined Motor Plate Assembly Instructions



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Joshua Vasquez

last edited:
1/23/2020

SCALE: 1:1

SHEET 1 OF 12

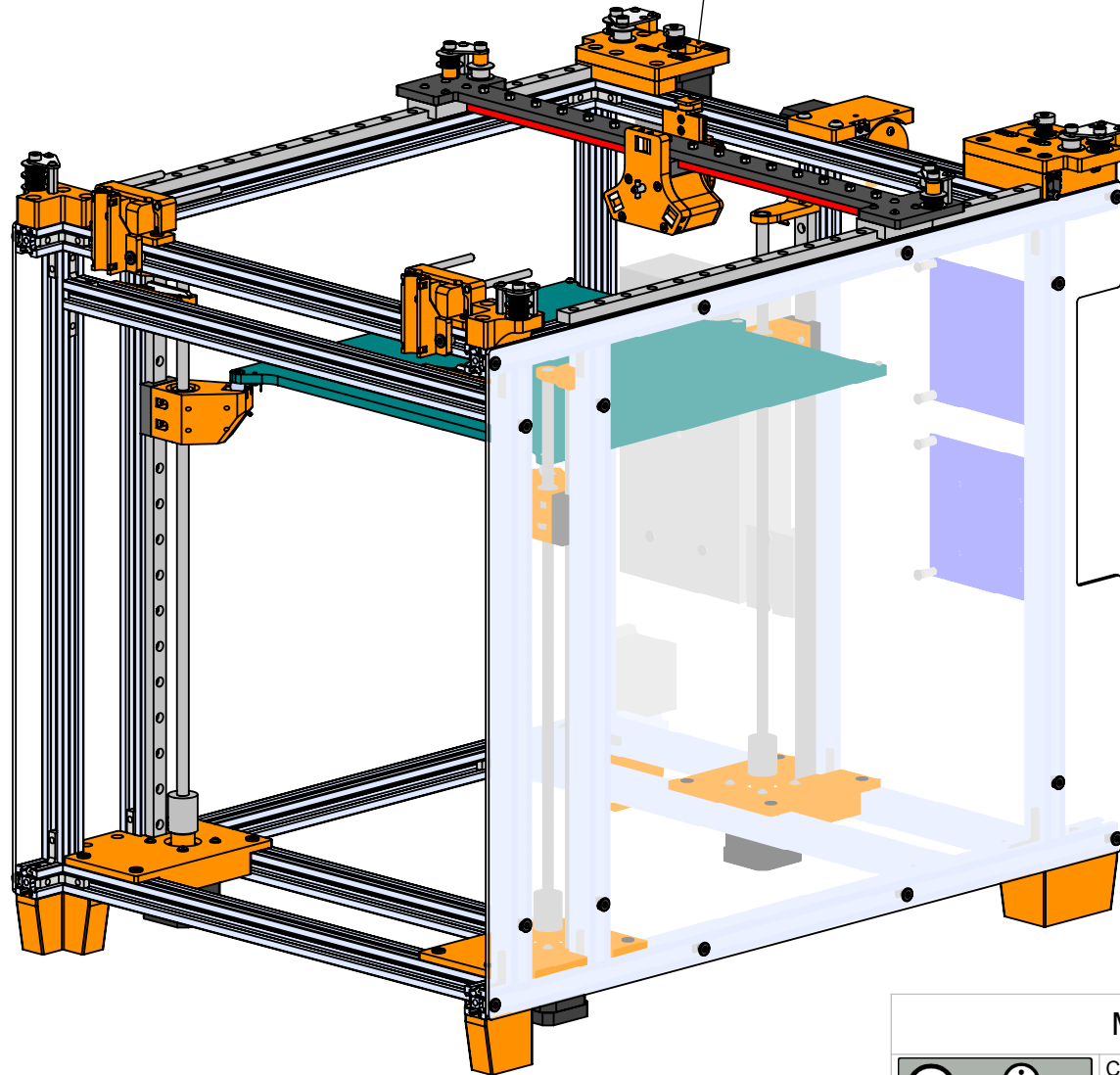
2

1

Remove the belts from the Jubilee frame. Set them aside for later.

With the power off, disconnect both XY motors wires from the control board.

Unscrew both Motor Plate Assemblies with the 6 M5 screws that hold them to the frame.



Machine Prep



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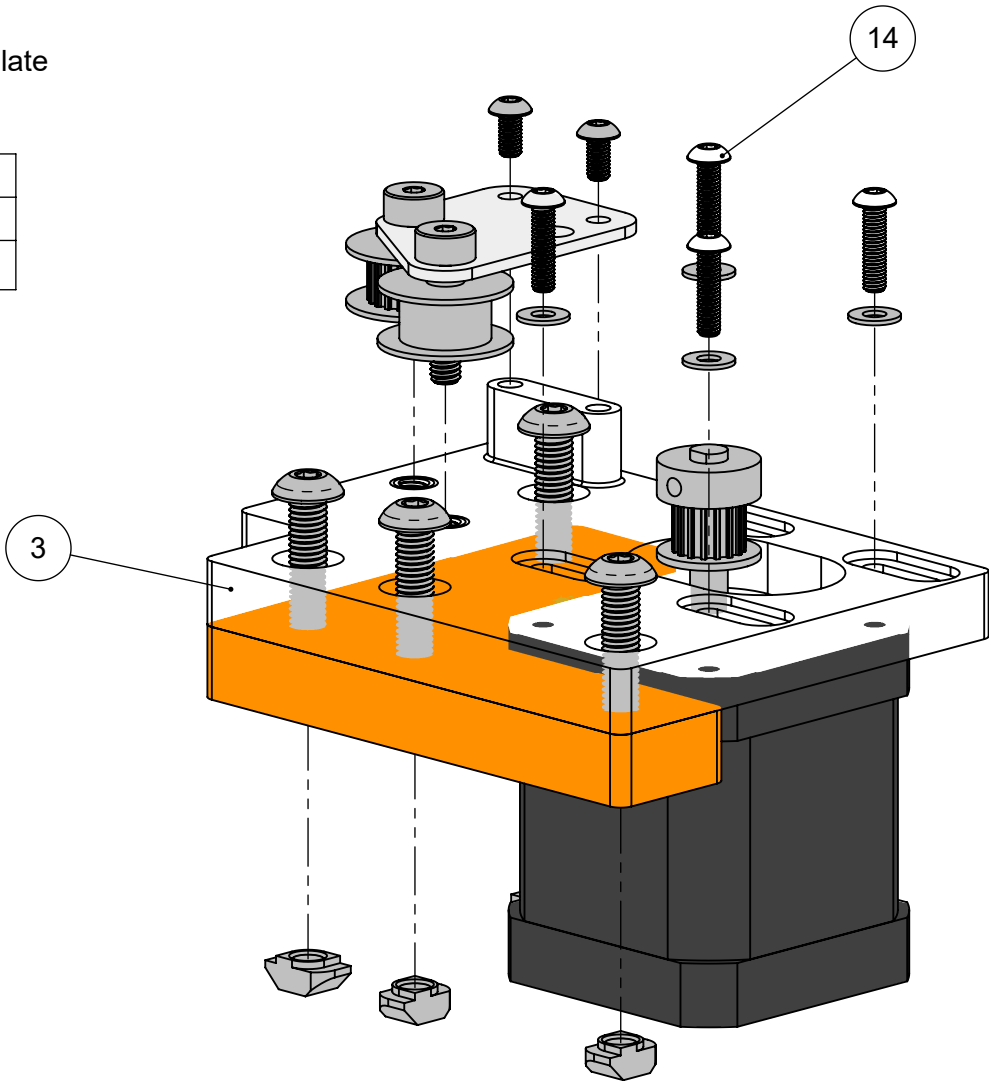
SHEET 2 OF 12

2

1

Disassemble and remove the following items from the motor plate assembly. Keep the remaining items for the new assembly.

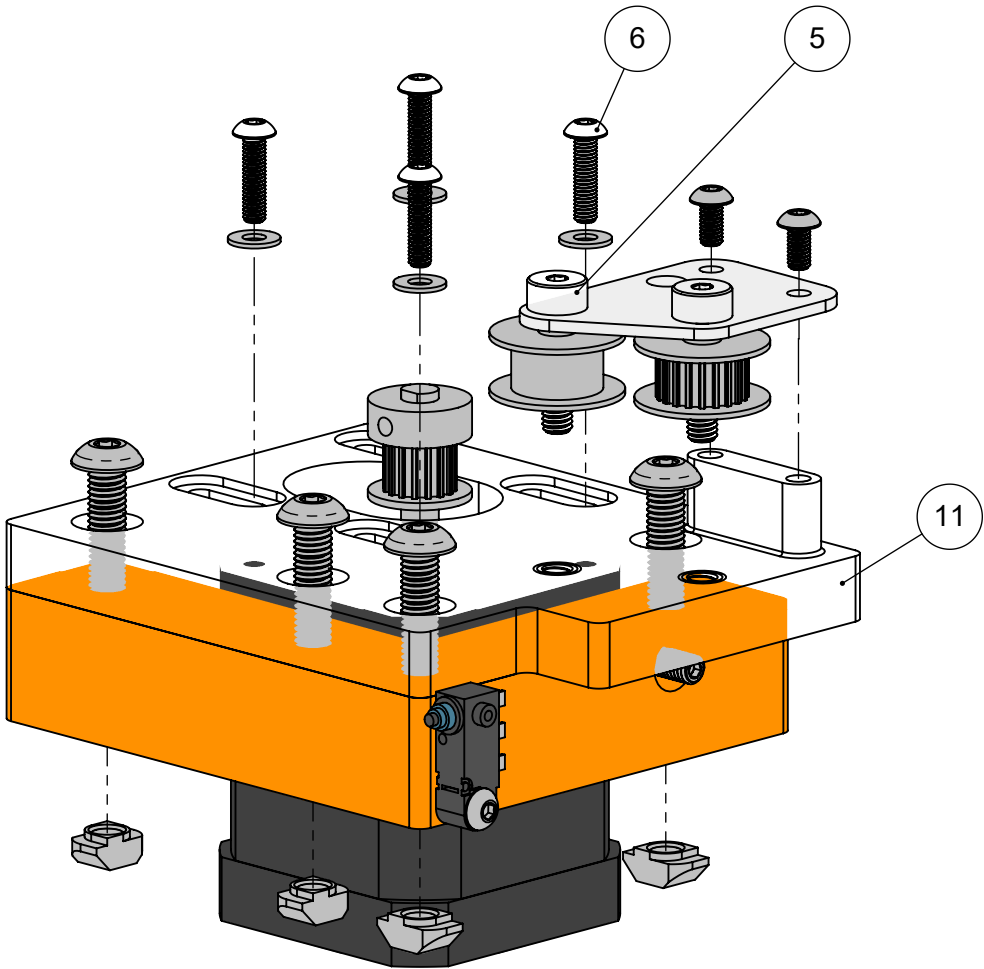
ITEM NO.	DESCRIPTION	QTY.
3	Left Motor Plate with Inserts	1
14	M3 Buttonhead Screw, 12mm long	4



Left Assembly Part Harvesting		
	Created by: Joshua Vasquez	last edited: 1/23/2020
	SCALE: 1:1	SHEET 3 OF 12

Disassemble and remove the following items from the motor plate assembly. Keep the remaining items for the new assembly.

ITEM NO.	DESCRIPTION	QTY.
5	M4 shoulder screw, 12mm-l, 5mm-d	2
6	M3 Buttonhead Screw, 12mm long	4
11	Right Motor Plate with Inserts	1



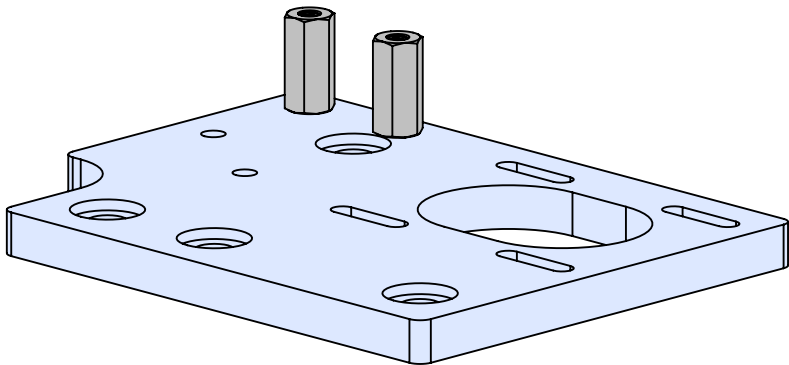
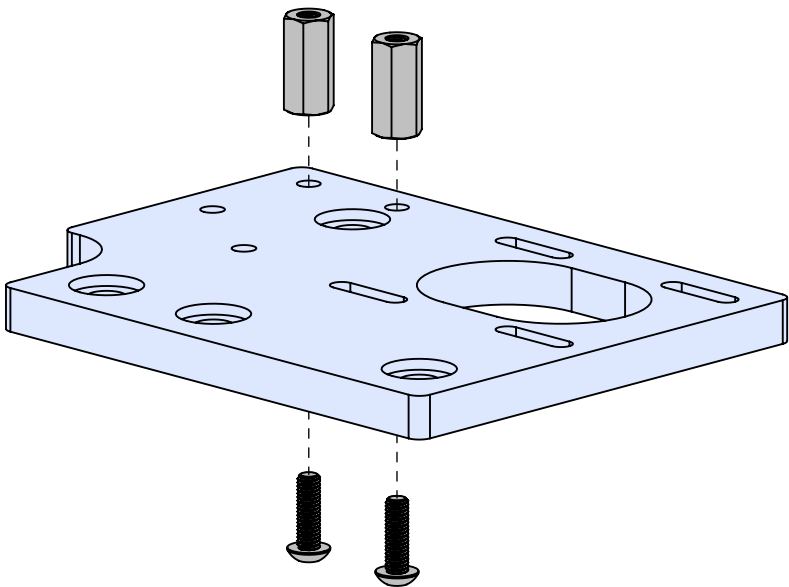
Right Assembly Part Harvesting		
	Created by:	last edited:
	Joshua Vasquez	1/23/2020
	SCALE: 1:1	SHEET 4 OF 12

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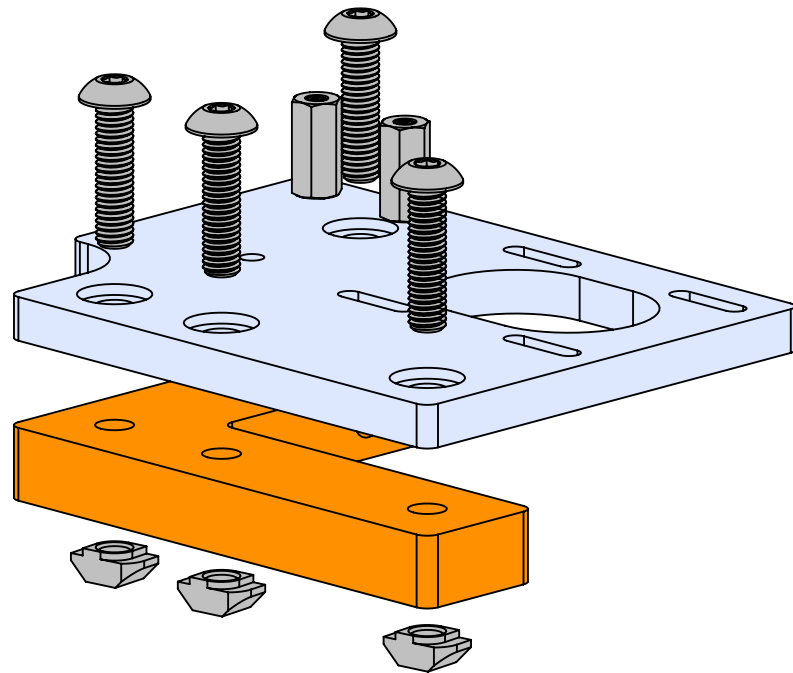
ITEM NO.	DESCRIPTION	
1	M3 Standoff, 13mm long, 6mm wide	2
2	M3 Buttonhead Screw, 10mm long	2
3	Machined Left Motor Corner Bracket	1

2

1

Left Motor Plate Assembly 1/4		
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	SCALE: 1:1	SHEET 5 OF 12

B

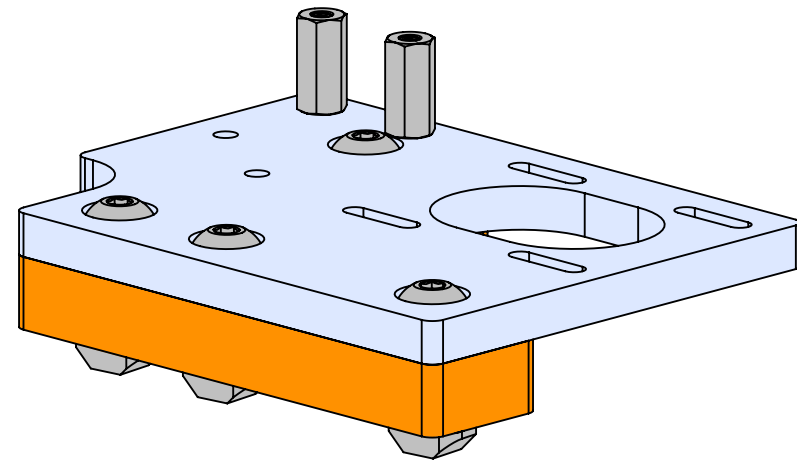


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ITEM NO.	DESCRIPTION	
4	M5 Buttonhead Screw, 20mm long	4
5	M5 Drop-In T-Nut for 20x20 Extrusion	4
6	Short Motor Corner Plate Spacer with Inserts	1

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Left Motor Plate Assembly 2/4



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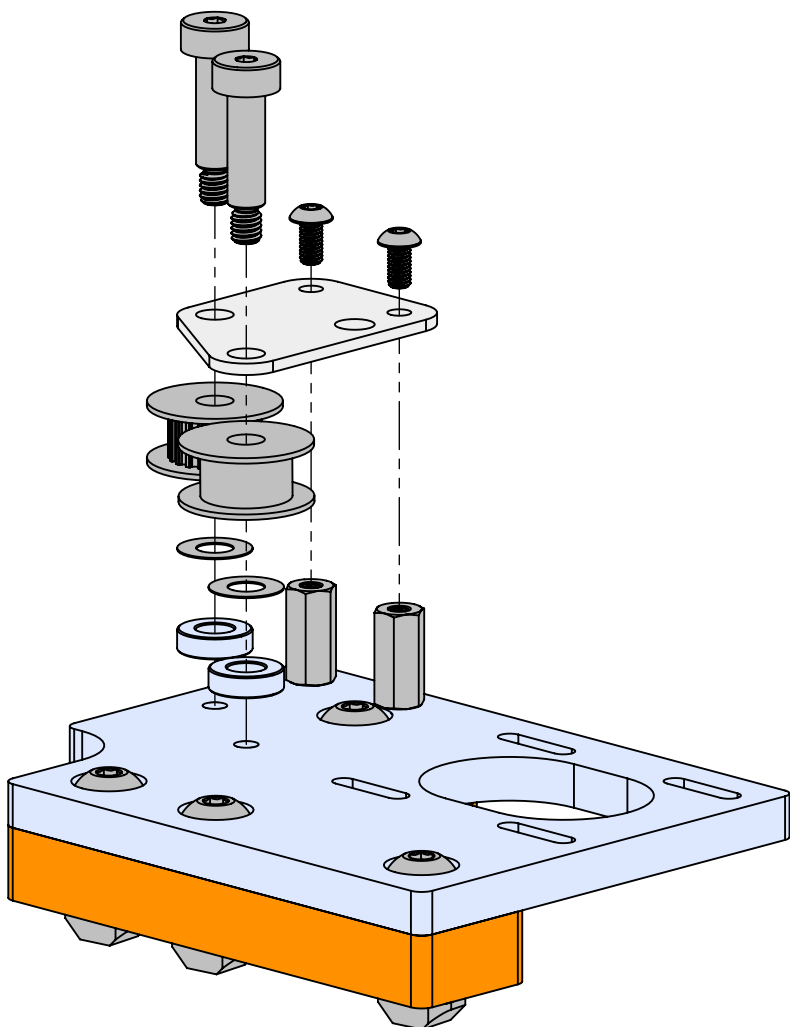
SCALE: 1:1

SHEET 6 OF 12

1

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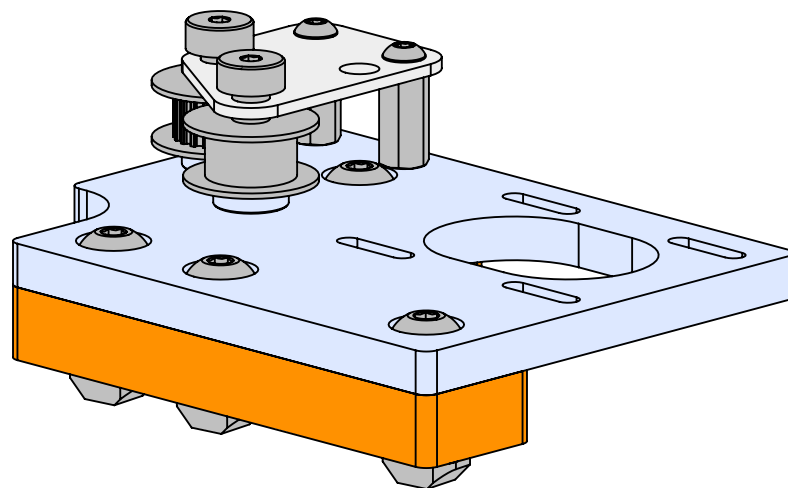
A



ITEM NO.	DESCRIPTION	
5	OpenBuilds M5 3mm Spacer	2
6	M5 Shim, 0.2mm thick	2
7	20T toothless idler, 5mm bore	1
8	20T Idler pulley, 2GT, 5mm bore	1
9	pulley reinforcement plate for motor	1
10	M4 Shoulder Screw, 16mm-l, 5mm-d	2
11	M3 Buttonhead Screw, 6mm long	2

B

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Left Motor Plate Assembly 3/4



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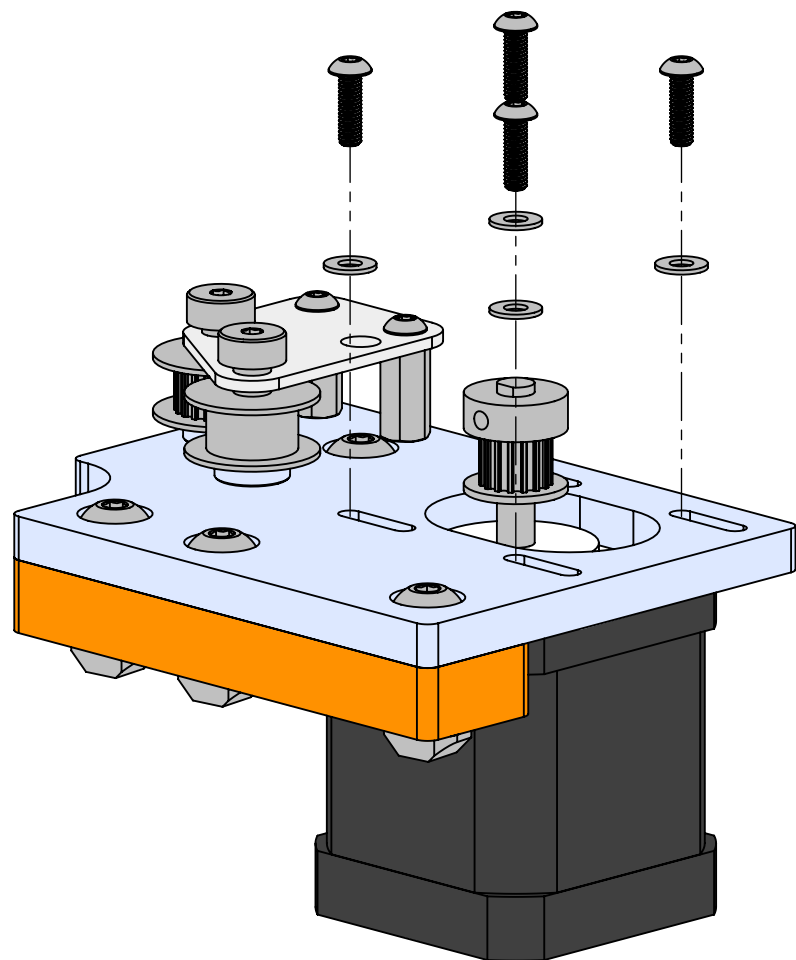
SCALE: 1:1

SHEET 7 OF 12

2

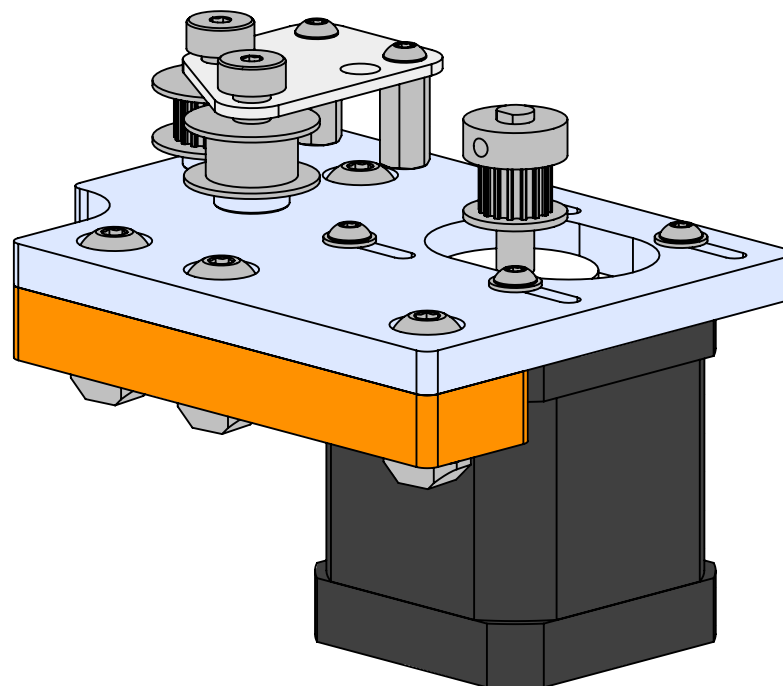
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ITEM NO.	DESCRIPTION	QTY.
2	M3 Buttonhead Screw, 10mm long	6
14	M3 Washer	4
15	XY Drive Stepper with Pulley	1

Left Motor Plate Assembly 4/4



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SHEET 8 OF 12

2

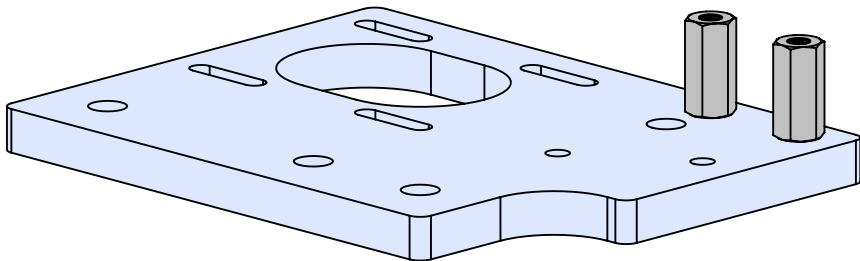
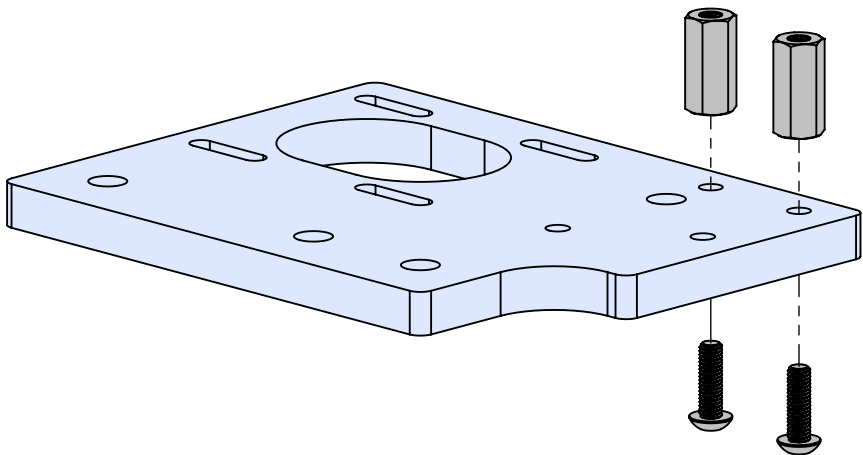
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ITEM NO.	DESCRIPTION	
1	Machined Right Motor Corner Bracket	1
2	M3 Standoff, 13mm long, 6mm wide	2
3	M3 Buttonhead Screw, 10mm long	2

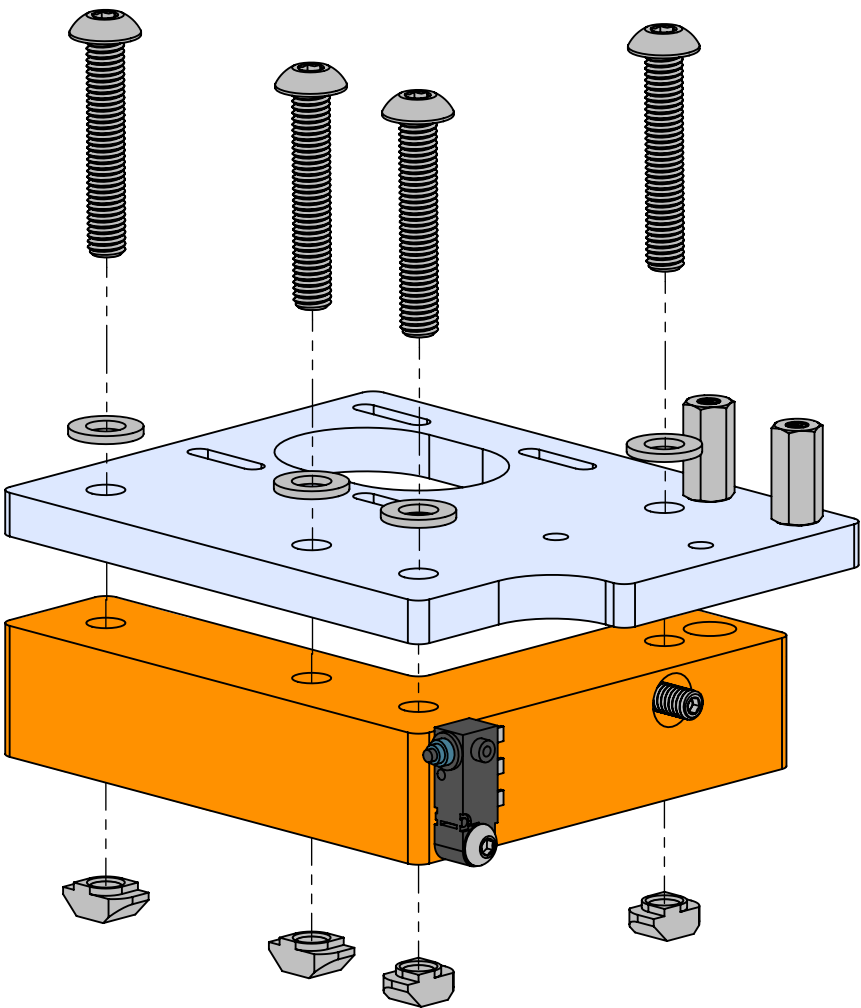
Right Motor Plate Assembly 1/4		
	Created by: Joshua Vasquez	last edited: 1/23/2020
	SCALE: 1:1	SHEET 9 OF 12

2

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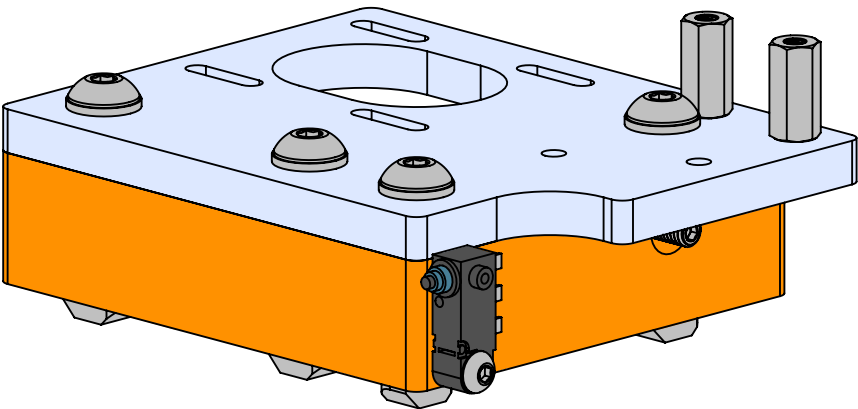
ITEM NO.	DESCRIPTION	
3	Tall Motor Corner Plate Spacer Assembly	1
4	M5 Washer	4
5	M5 Buttonhead Screw, 30mm long	4
6	M5 Drop-In T-Nut for 20x20 Extrusion	4

B




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B



A

Right Motor Plate Assembly 2/4



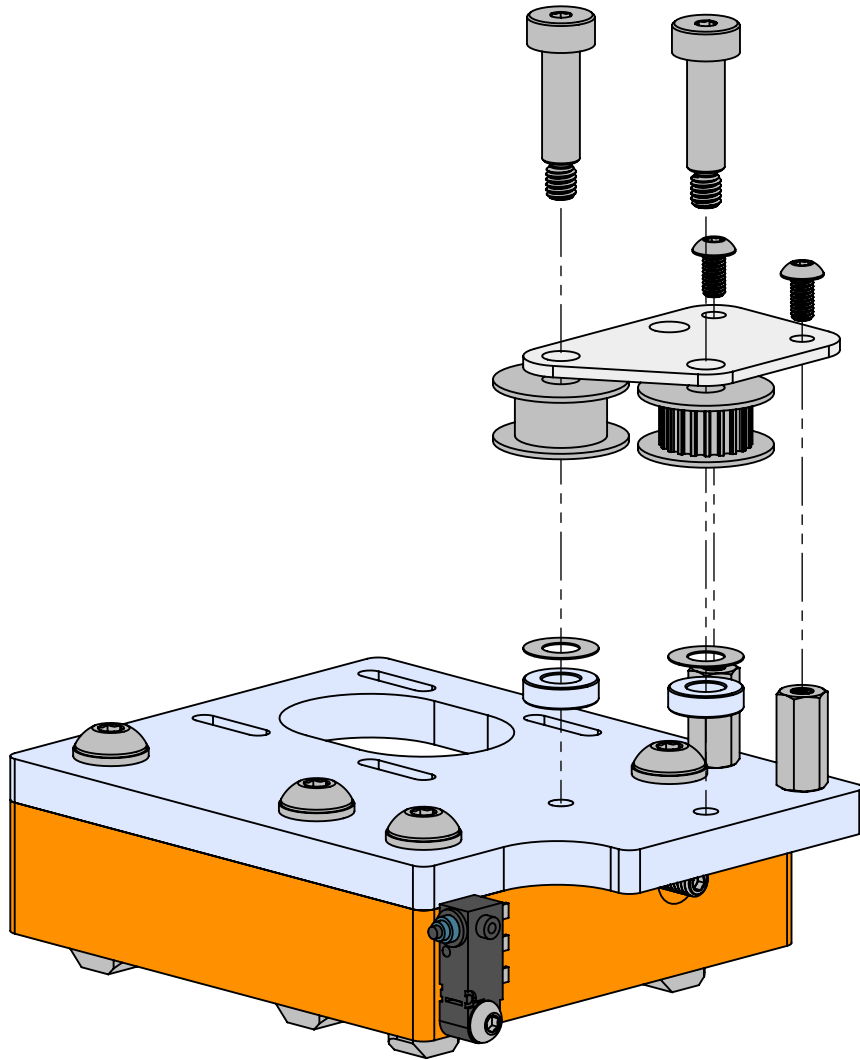
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SCALE: 1:1

SHEET 10 OF 12

B



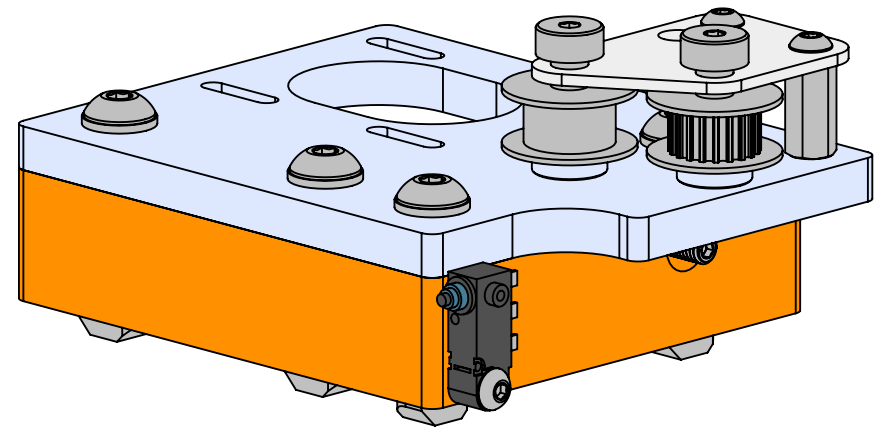
A

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ITEM NO.	DESCRIPTION	
3	20T Idler pulley, 2GT, 5mm bore	1
4	20T toothless idler, 5mm bore	1
5	pulley reinforcement plate for motor	1
6	M3 Buttonhead Screw, 6mm long	2
7	M4 Shoulder Screw, 16mm-l, 5mm-d	2
8	M5 Shim, 0.2mm thick	2
9	OpenBuilds M5 3mm Spacer	2

B



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Right Motor Plate Assembly 3/4



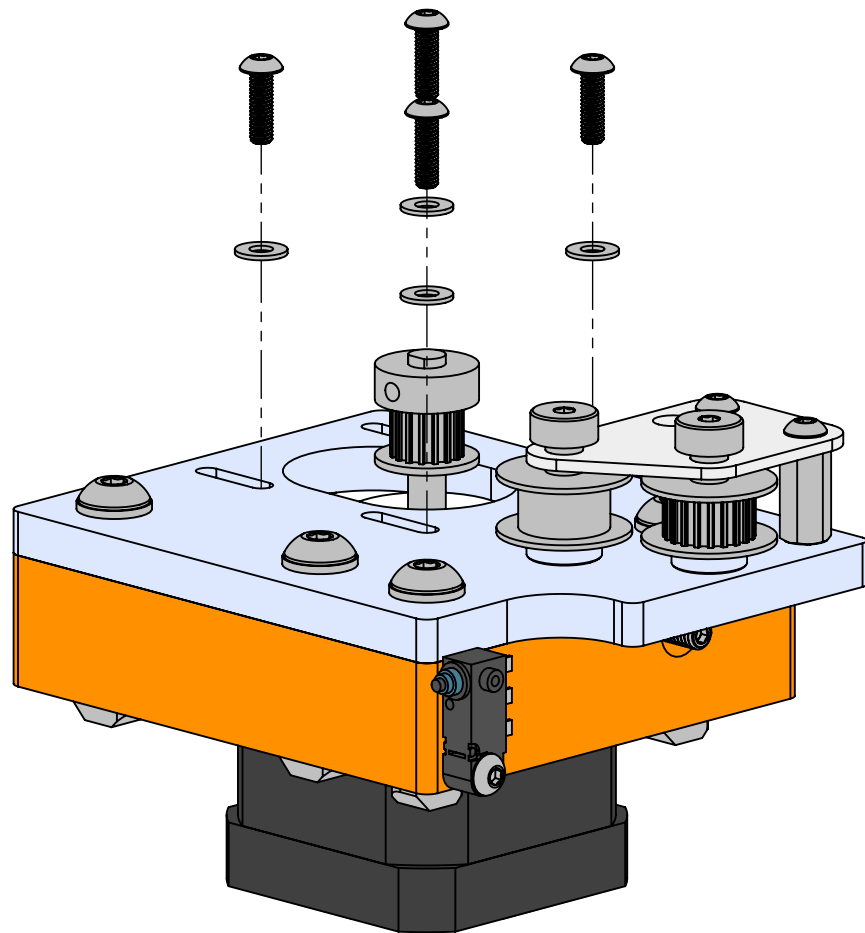
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SHEET 11 OF 12

B

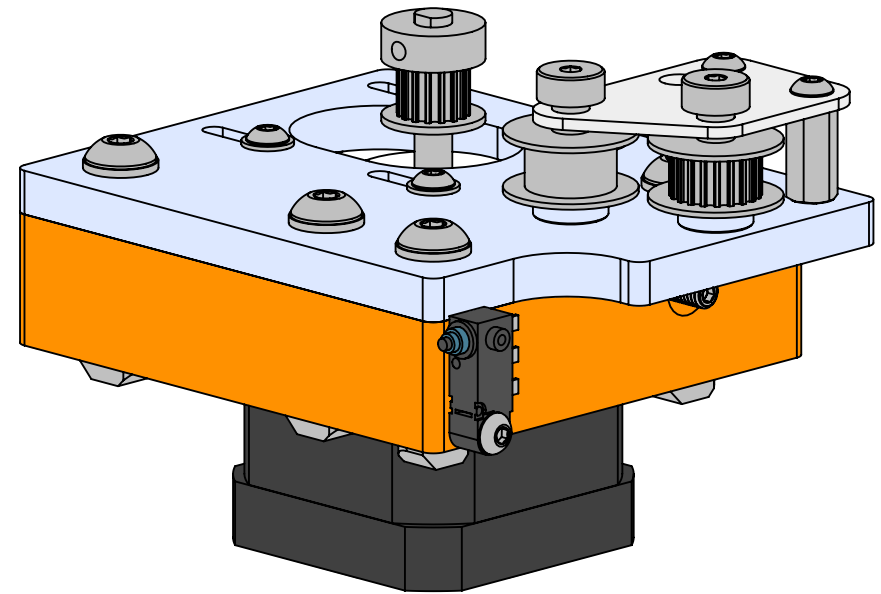


A

ITEM NO.	DESCRIPTION	QTY.
14	M3 Buttonhead Screw, 10mm long	6
15	XY Drive Stepper with Pulley	1
16	M3 Washer	4

2

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B

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Right Motor Plate Assembly 4/4



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SCALE: 1:1

SHEET 12 OF 12

1