

041 Aluminum Crossbar Assembly



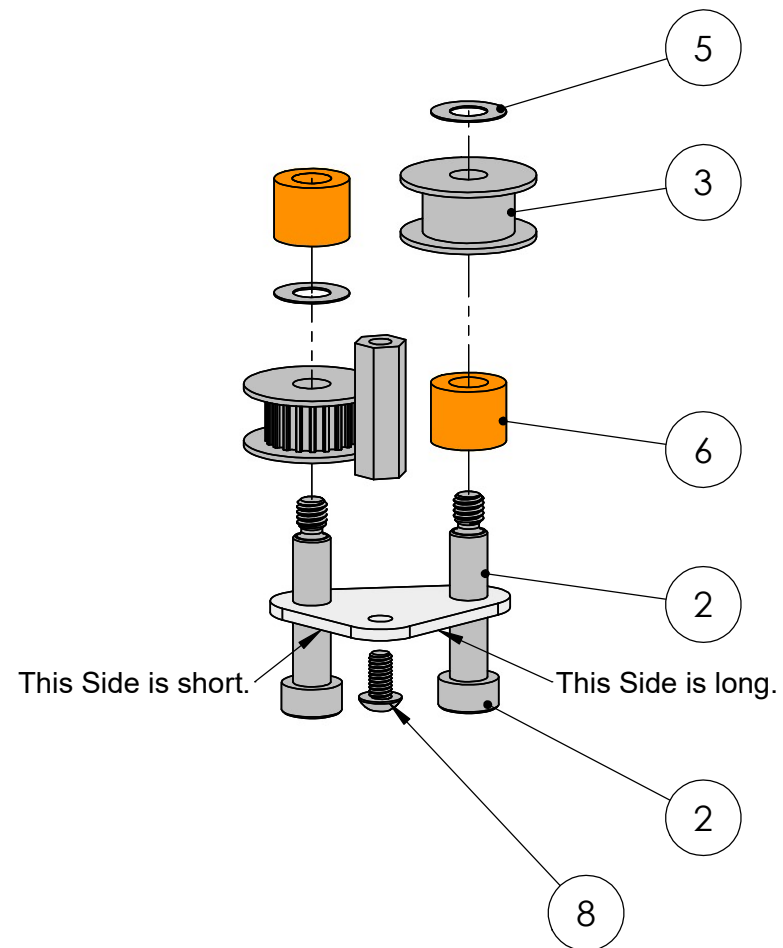
Created by:
Joshua Vasquez

last edited:
2/2/2020

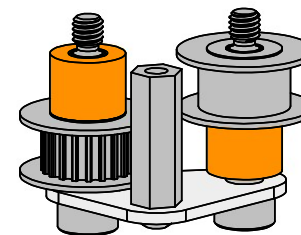
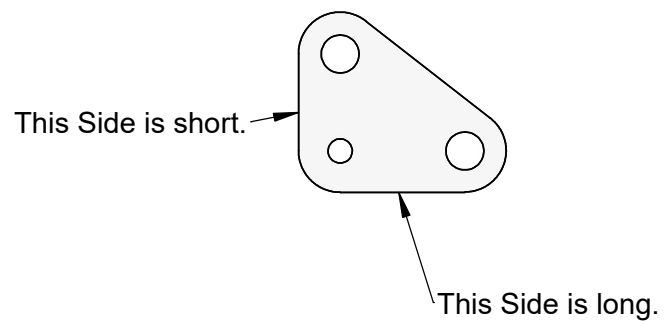
SCALE: 1:2

SHEET 1 OF 6

B



Note the orientation of the Reinforcement Plate



ITEM NO.	DESCRIPTION	QTY.
1	M3 18mm standoff, 6mm wide	1
2	M4 shoulder screw, 20mm-l, 5mm-d	2
3	20T toothless idler, 5mm bore	1
4	20T Idler pulley, 2GT, 5mm bore	1
5	M5 Shim, 0.2mm thick	2
6	Printed Pulley Spacer	2
7	Crossbar Pulley Reinforcement Plate	1
8	M3 Buttonhead Screw, 6mm long	1

Left Crossbar Pulley Assembly



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SCALE: 1:1

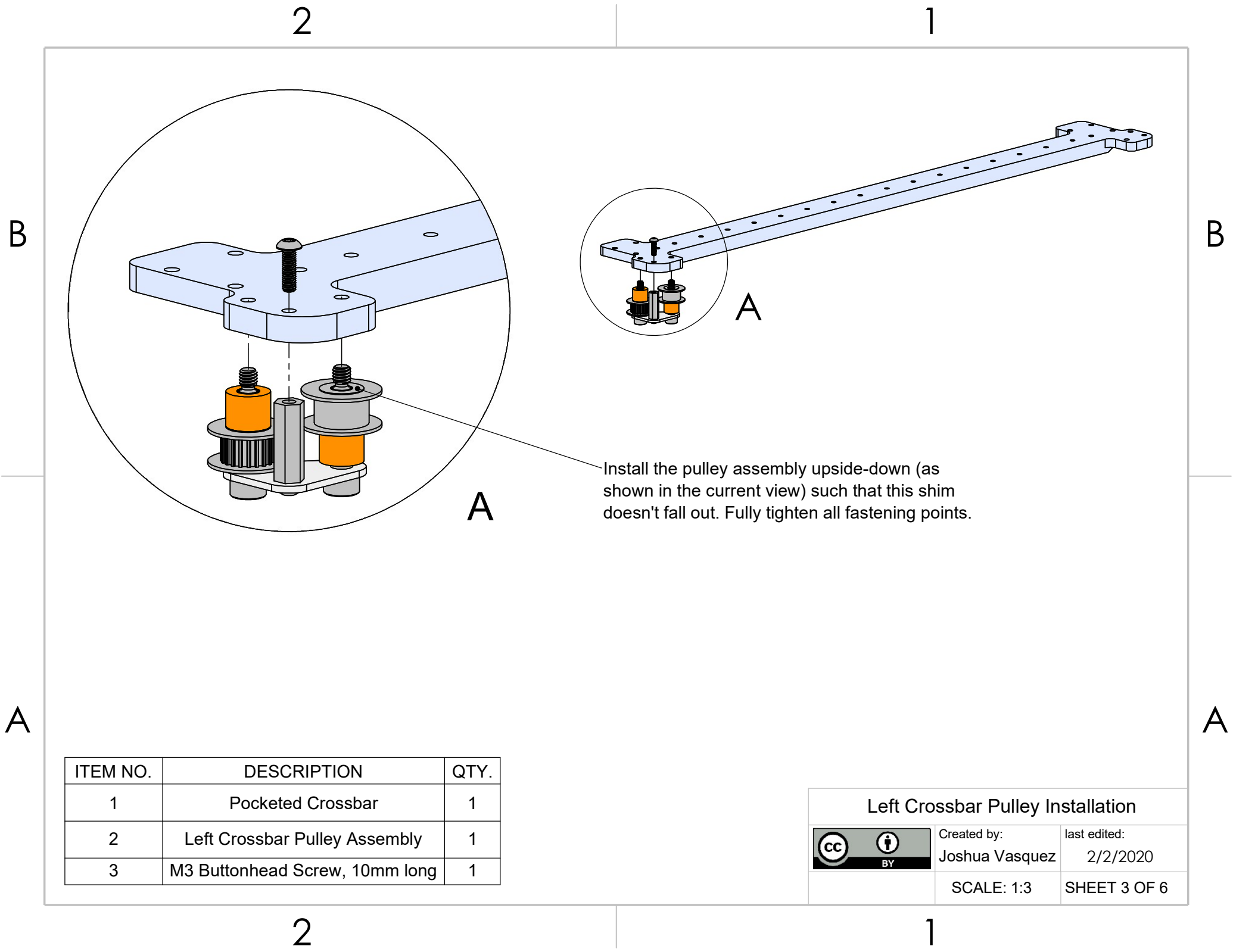
SHEET 2 OF 6

B


A

2

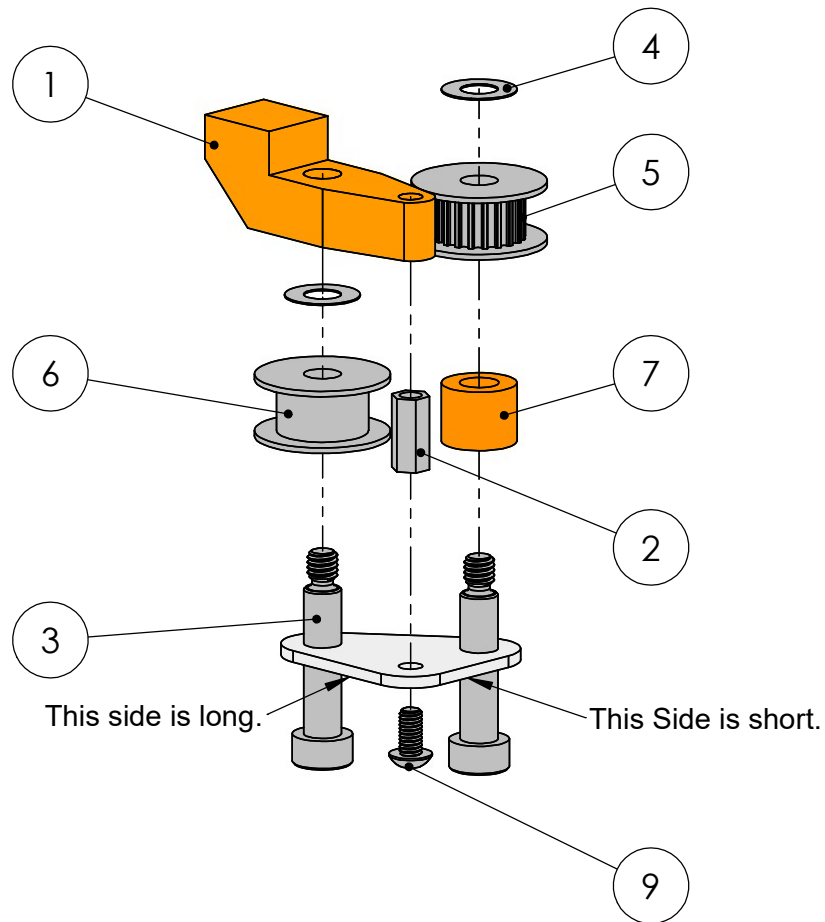
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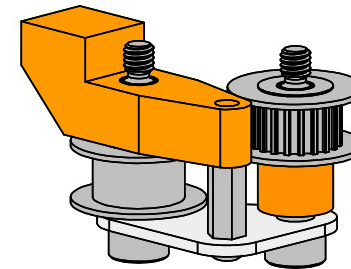
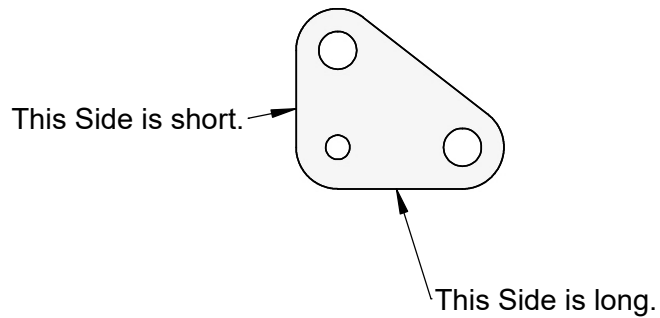
ITEM NO.	DESCRIPTION	QTY.
1	Pocketed Crossbar	1
2	Left Crossbar Pulley Assembly	1
3	M3 Buttonhead Screw, 10mm long	1

Left Crossbar Pulley Installation		
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	SCALE: 1:3	SHEET 3 OF 6

B



Note the orientation of the Reinforcement Plate



ITEM NO.	DESCRIPTION	QTY.
1	Crossbar X Limit Trigger	1
2	M3 10mm standoff, 4.5mm wide	1
3	M4 shoulder screw, 20mm-l, 5mm-d	2
4	M5 Shim, 0.2mm thick	2
5	20T Idler pulley, 2GT, 5mm bore	1
6	20T toothless idler, 5mm bore	1
7	Printed Pulley Spacer	1
8	Crossbar Pulley Reinforcement Plate	1
9	M3 Buttonhead Screw, 6mm long	1

Right Crossbar Pulley Assembly



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SCALE: 1:1

SHEET 4 OF 6

B

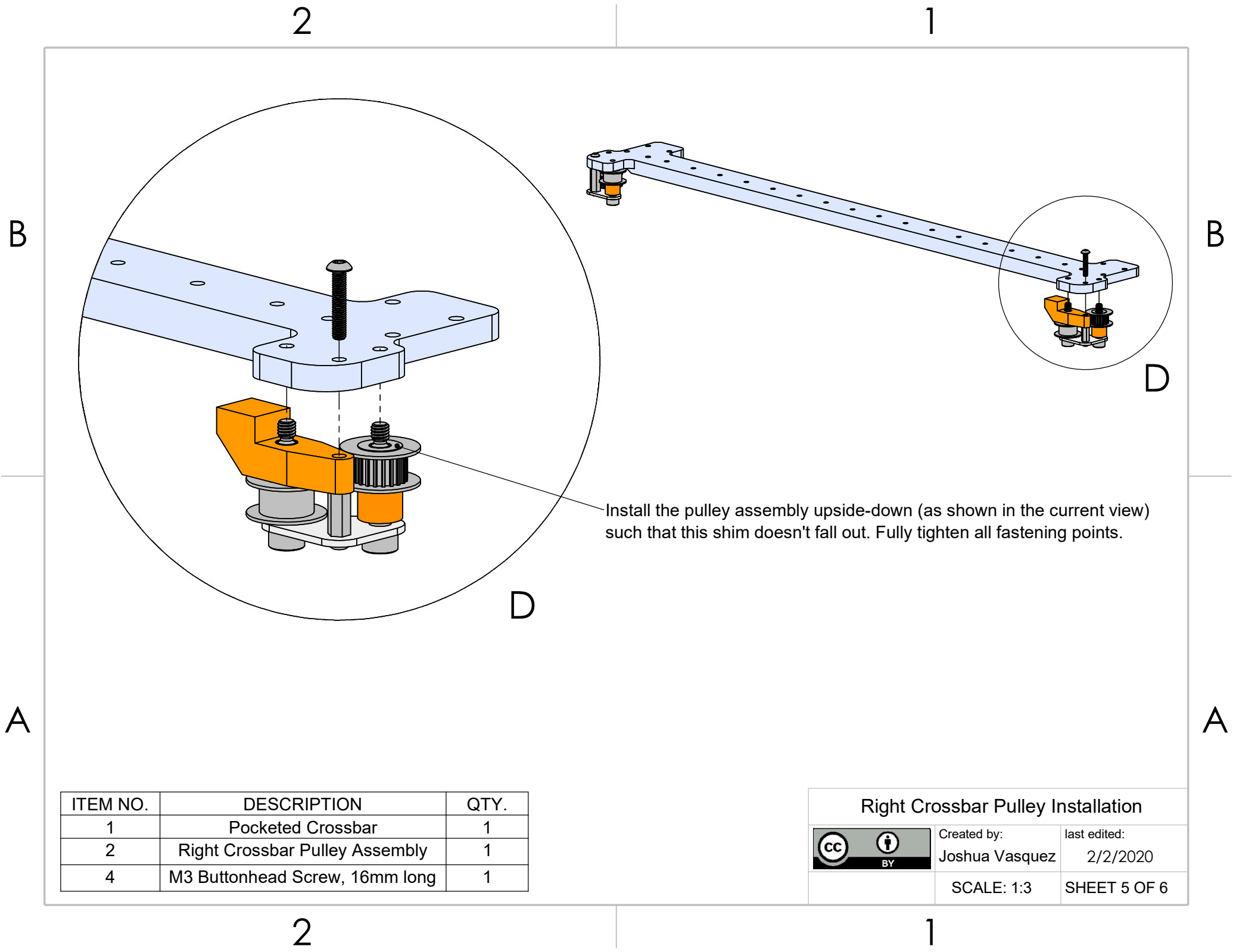
A

2

1

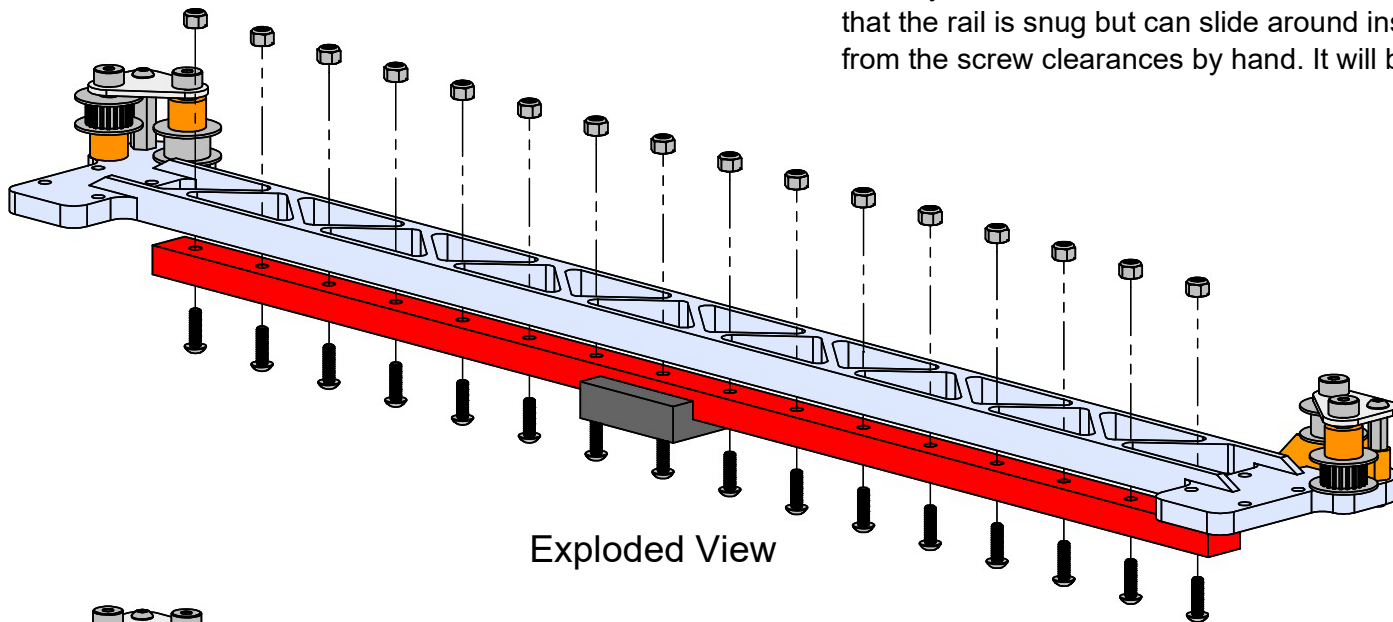
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1

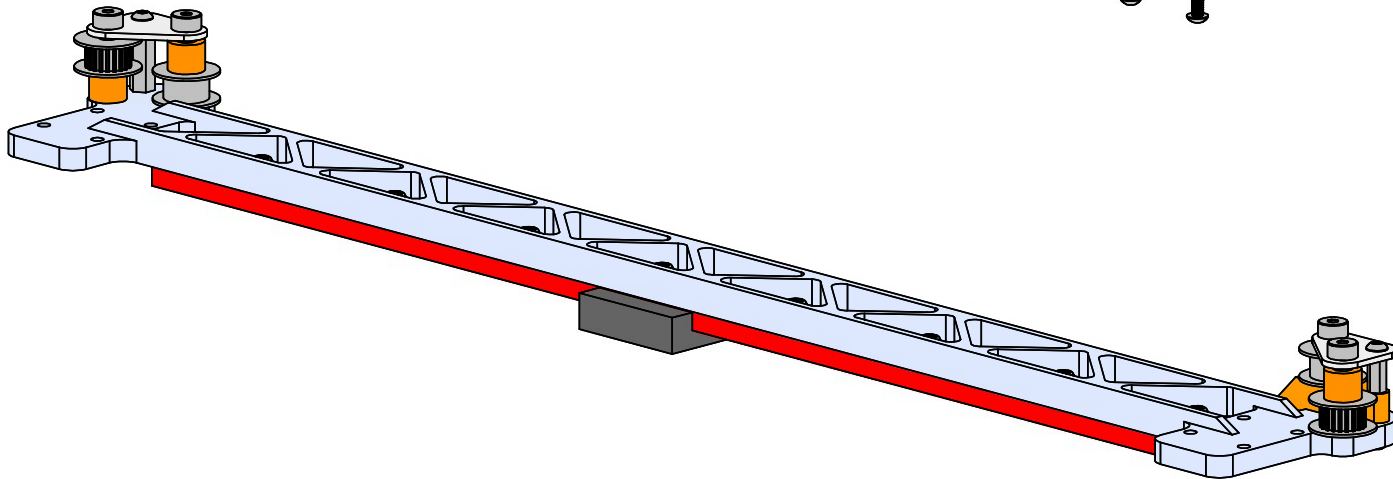


ITEM NO.	DESCRIPTION	QTY.
1	Pocketed Crossbar	1
2	Right Crossbar Pulley Assembly	1
4	M3 Buttonhead Screw, 16mm long	1

Right Crossbar Pulley Installation		
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	Joshua Vasquez	2/2/2020
	SCALE: 1:3	SHEET 5 OF 6



Exploded View



Assembled View

Loosely install the rail with the screws and lock nuts such that the rail is snug but can slide around inside the holes from the screw clearances by hand. It will be tightened later.

ITEM NO.	DESCRIPTION	QTY.
4	M3 Buttonhead Screw, 16mm long	1
5	M3 Buttonhead Screw, 10mm long	17
6	395mm long MGN12 rail	1
7	M3 Locknut	16
8	MGN12C Carriage Block	1

Sheet3



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SCALE: 1:2

SHEET 6 OF 6