

	DETAIL N SCALE 2 : 1

For each press-fit *Keep Nut* we must pull upwards to get the teeth to flare out and fully engage. To do this, sandwich the single M4 aluminum spacer with a M4 8mm screw and fully tighten it by hand. Then unscrew it and remove both parts. Do this for all four Keep Nuts.

ITEM NO.	DESCRIPTION	QTY.
1	M4 Spacer, 2mm tall, 13mm diameter	1
2	M4 Buttonhead Screw, 8mm long	1
3	M4 "Keep Nut" insert for composites, 6mm tall	4
4	crossbar plate	1

Crossbar Insert Installation				
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		SCALE: 1:3	SHEET 2 OF 5	

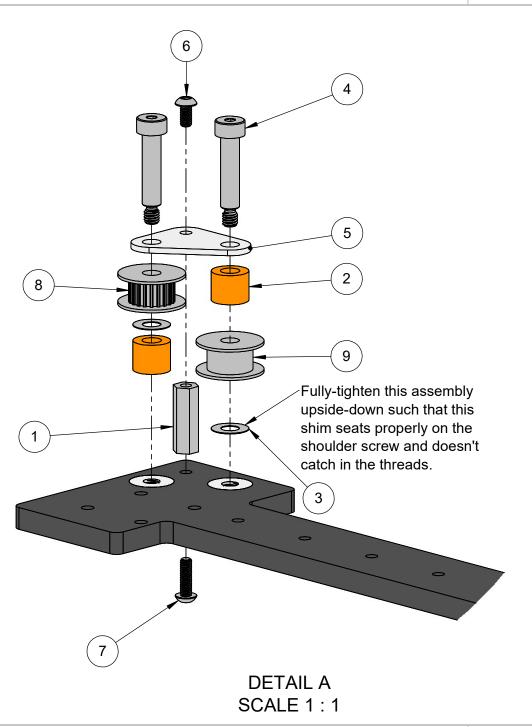
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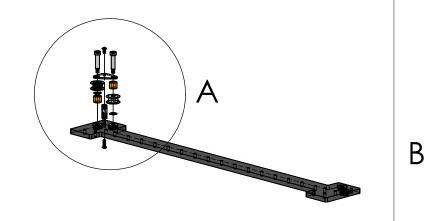
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ITEM NO.	DESCRIPTION	
1	M3 18mm standoff, 6mm wide	1
2	Printed Pulley Spacer	2
3	M5 Shim, 0.2mm thick	2
4	M4 shoulder screw, 20mm-l, 5mm-d	2
5	Crossbar Pulley Reinforcement Plate	1
6	M3 Buttonhead Screw, 6mm long	1
7	M3 Buttonhead Screw, 10mm long	1
8	20T Idler pulley, 2GT, 5mm bore	1
9	20T toothless idler, 5mm bore	1

Left Crossbar Pulley Assembly

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	SCALE: 1:5	SHEET 3 OF 5

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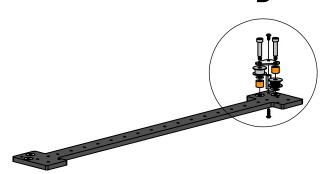
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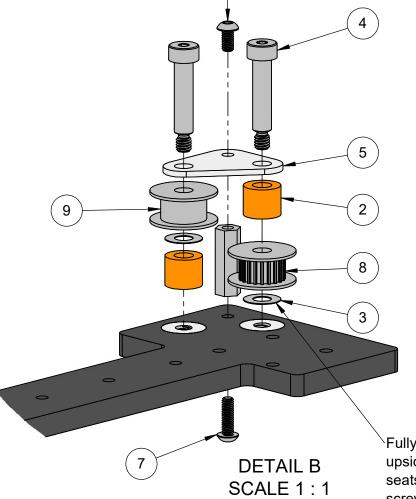
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Note that this assembly is NOT merely a mirrored verson of the previous one. Ensure that the pulleys are installed in the order shown.





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ITEM NO.	DESCRIPTION	
1	M3 18mm standoff, 6mm wide	1
2	Printed Pulley Spacer	2
3	M5 Shim, 0.2mm thick	2
4	M4 shoulder screw, 20mm-l, 5mm-d	2
5	Crossbar Pulley Reinforcement Plate	1
6	M3 Buttonhead Screw, 6mm long	1
7	M3 Buttonhead Screw, 10mm long	1
8	20T Idler pulley, 2GT, 5mm bore	1
9	20T toothless idler, 5mm bore	1

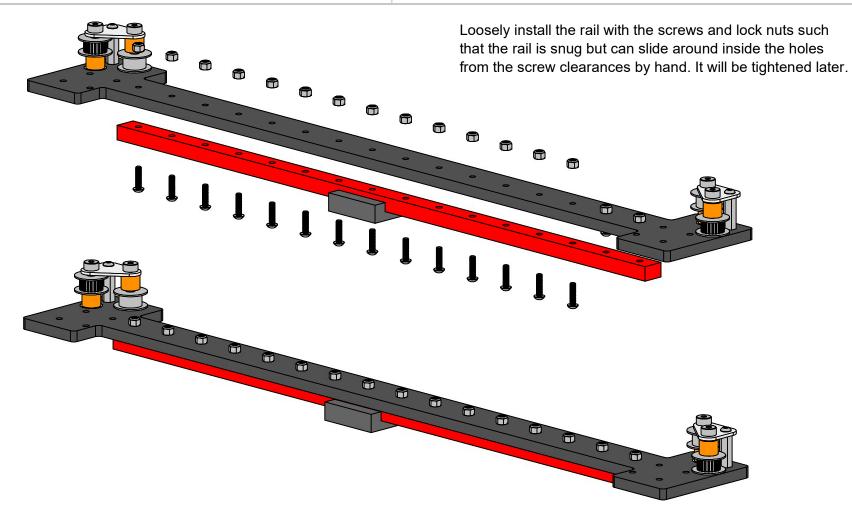
Fully-tighten this assembly upside-down such that this shim seats properly on the shoulder screw and doesn't catch in the threads.

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		SCALE: 1:5	SHEET 4 OF 5

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ITEM NO.	DESCRIPTION	QTY.
8	M3 Buttonhead Screw, 12mm long	16
9	M3 Locknut	16
10	395mm or 400mm long MGN12 rail	1
11	MGN12C Carriage Block	1

	Crossbar Rail Installation			
2	<b>(1)</b>	Created by:	last edited:	

Joshua Vasquez 1/30/2020

SCALE: 1:2 SHEET 5 OF 5

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