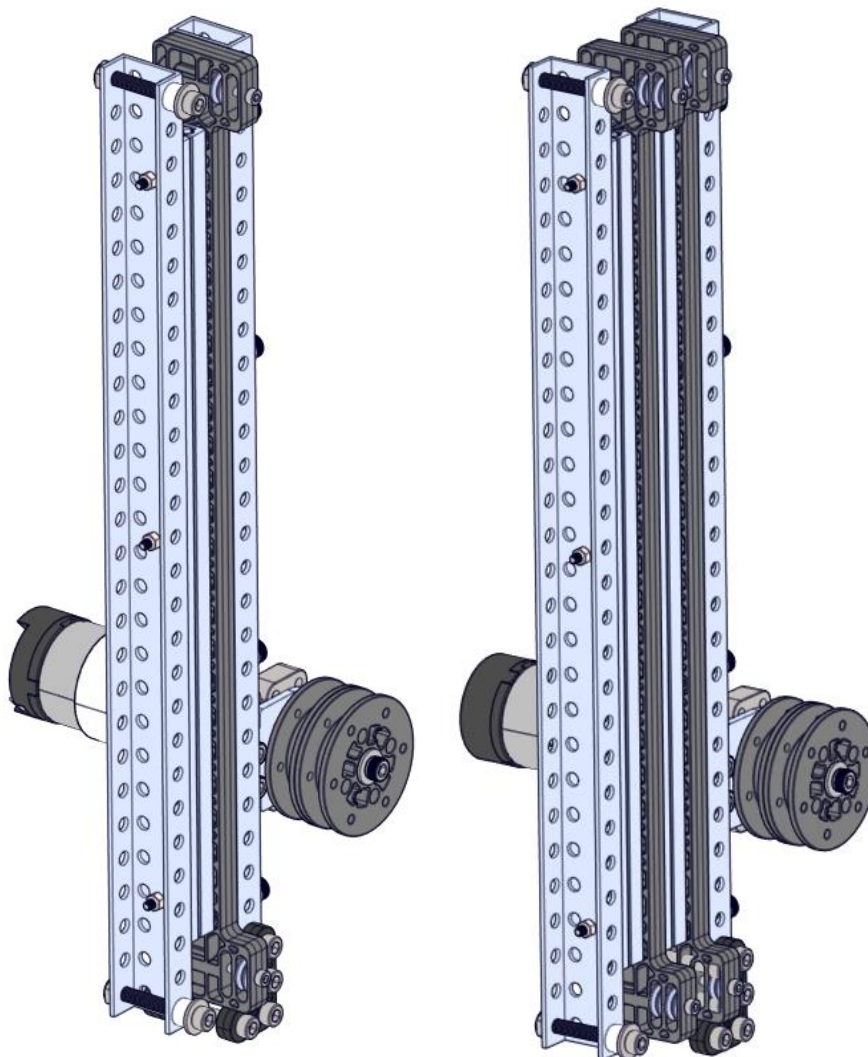


AndyMark[®]

Compact Linear Slide

(am-4846b & am-4848a)

Assembly Guide



Revision #	Date	Author	Purpose
0	8/21/2024	E. Scime	Original Document
1	6/23/2025	E. Scime	Updated to NeveRest Hex

P. Yeung

6/23/2025

Reviewer Name

Date Reviewed

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Parts & Tools

Recommended Tools List

Component	Part #	QTY	Photo
Fold Up 12 Set Hex	am-3864	1	
5.5mm Nut Driver	am-1287	1	
3/8in Nut Driver	am-3877	1	

Compact Linear Slide Single Stage Parts List (am-4846b)

Component	Part #	QTY	Photo
ROBITS 1" x 1/2" x 14" Tube	am-5026-1400	1	
ROBITS Pulley Mount, 14"	am-5035	1	
SAR330 Linear Slide	am-4837	1	
ROBITS 1" x 1/2" x 14" Channel	am-5009-1400	1	

Component	Part #	QTY	Photo
ROBITS 1/2" x 1/2" x 2" Tube	am-5001-0200	1	
ROBITS Motor Mount, Side 2 Hole	am-5012	1	
ROBITS Large Spool	am-5036	2	
ROBITS 2x3 L Gusset	am-5004_2x3	2	
13.7:1 NeveRest Orbital Gearmotor	am-5441	1	
12" Motor Extension Cable	am-5198-1200	1	
Power String, 100' Spool	am-3159	1	
M3 Nylock Nut	am-1023	6	
0.125" #10 Spacer, Nylon	am-1732	11	

Component	Part #	QTY	Photo
M3 Hex Standoff	am-1733	2	
1.5" 10-32 Socket Head Cap Screw	am-1014	4	
#10 Washer	am-1026	3	
1.75" 10-32 Socket Head Cap Screw	am-1048	4	
1" 10-32 Socket Head Cap Screw	am-1056	10	
10-32 Nylock Jam Nut	am-1063	18	
8mm M3 Socket Head Cap Screw	am-1500	4	
35mm M3 Socket Head Cap Screw	am-1671	2	
0.25" #10 Spacer, Nylon	am-1700	2	
8mm M3 Flat Head Cap Screw	am-1723	4	

5mm M3 Flat Head Cap Screw	am-1724	2	
0.430" ID x 0.500" OD x 0.125" Long Aluminum Spacer	am-1742	1	
V-Groove 3mm x 12mm x 4mm Bearing	am-4836	2	
0.5" 10-32 Socket Head Cap Screw	am-1002	1	

Compact Linear Slide Add-on Stage Parts List (am-4848a)

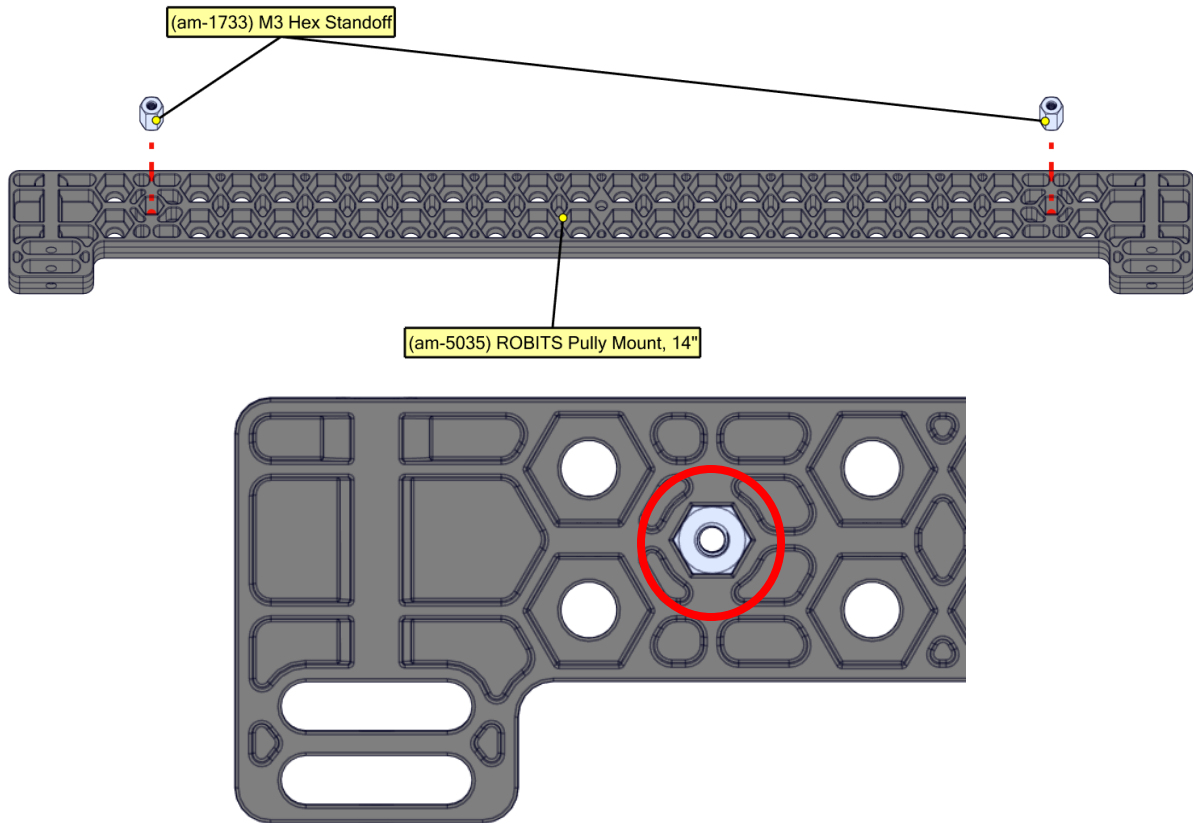
Component	Part #	QTY	Photo
SAR330 Linear Slide	am-4837	1	
ROBITS Pulley Mount, 14"	am-5035	1	
M3 Nylock Nut	am-1023	3	
M3 Hex Standoff	am-1733	2	
8mm M3 Flat Head Cap Screw	am-1723	1	

Component	Part #	QTY	Photo
V-Groove 3mm x 12mm x 4mm Bearing	am-4836	4	
5mm M3 Flat Head Cap Screw	am-1724	4	

Assembly – Single Stage

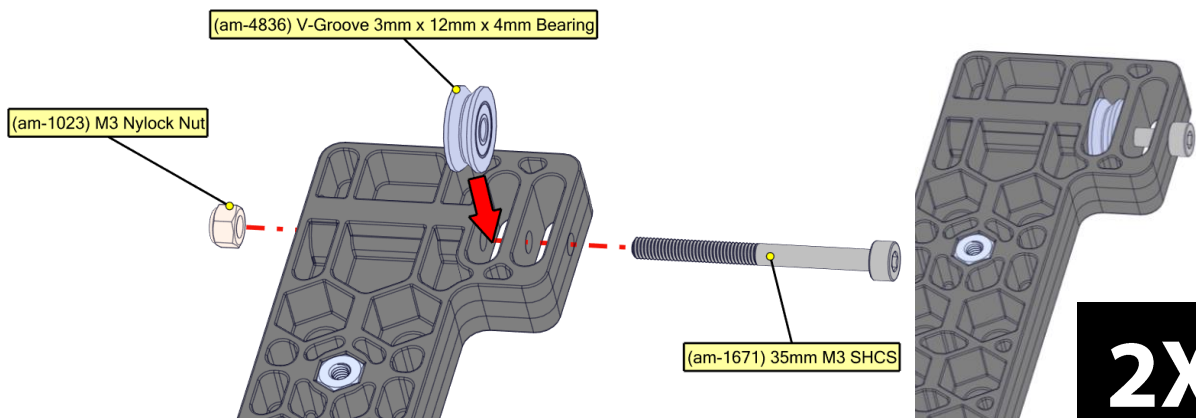
Step 1

Insert [2] M3 Hex Standoffs (am-1733) into the ROBITS Pulley Mount (am-5035) as shown.



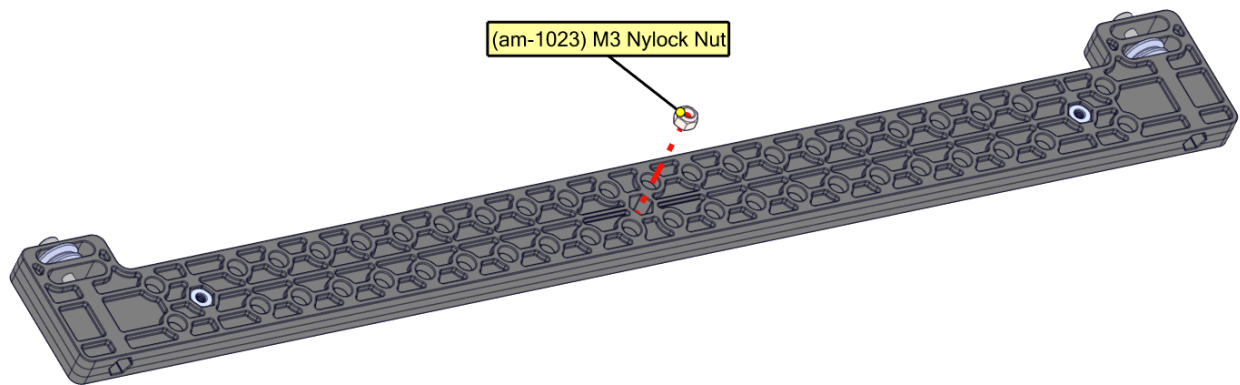
Step 2

Slip [2] V-Groove Bearings (am-4836) into the pockets on the Pulley Holder. On one side of the pulley holder, use one pocket. On the opposing side, use the other pocket. Hold them in place by running a 35mm M3 screw (am-1671) through the assembly and securing with [2] M3 Nylock Nuts (am-1023). **Be careful not to overtighten! The bearing should spin freely.**



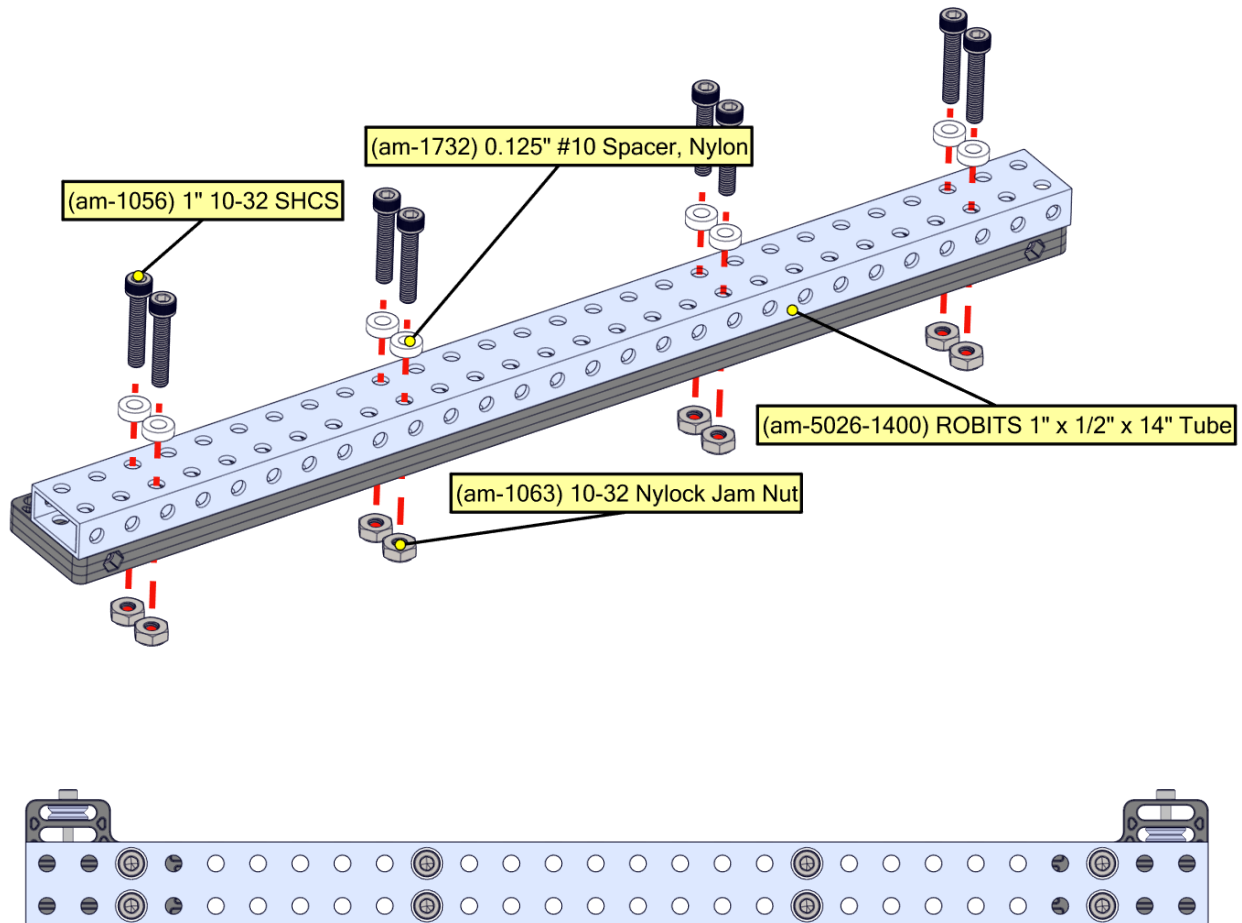
Step 3

Press in [1] M3 Nylock Nut (am-1023) to the center of the Pulley Holder.



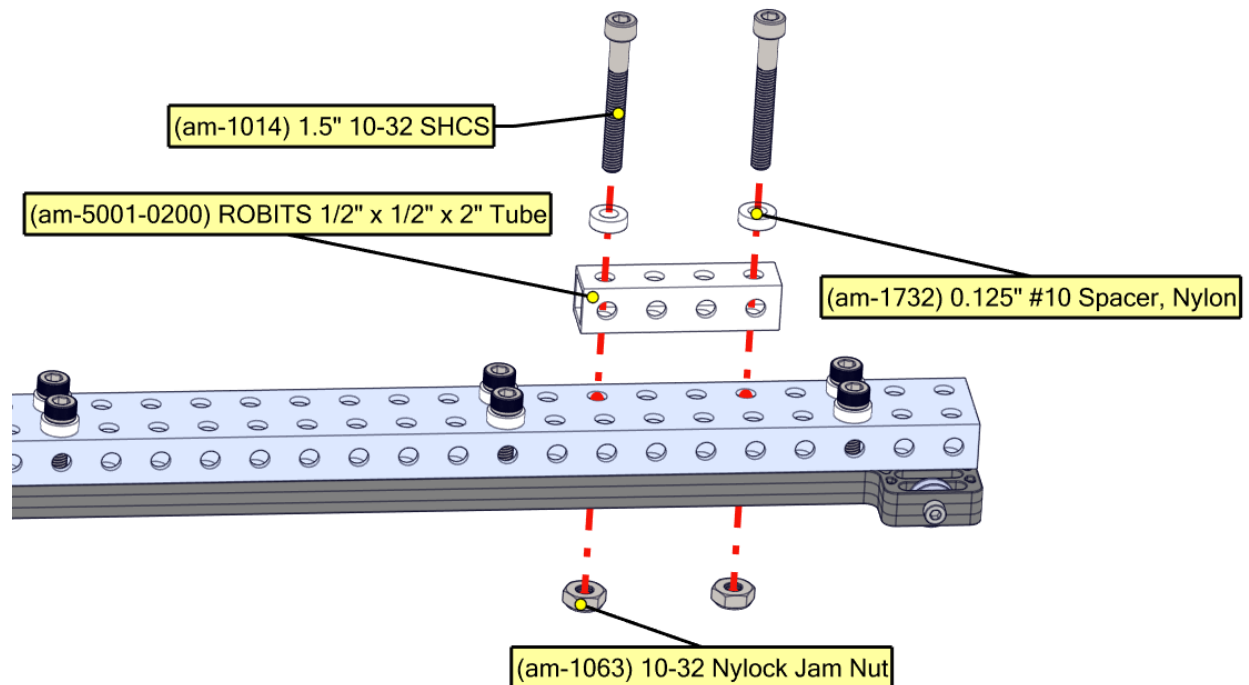
Step 4

Attach the ROBITS 1" x 1/2" x 14" Tube (am-5026-1400) to the assembly using [8] 1" 10-32 Socket Head Cap Screws (am-1056), [8] 10-32 Nylock Jam Nuts (am-1063), and [8] 0.125" #10 Spacers (am-1732).



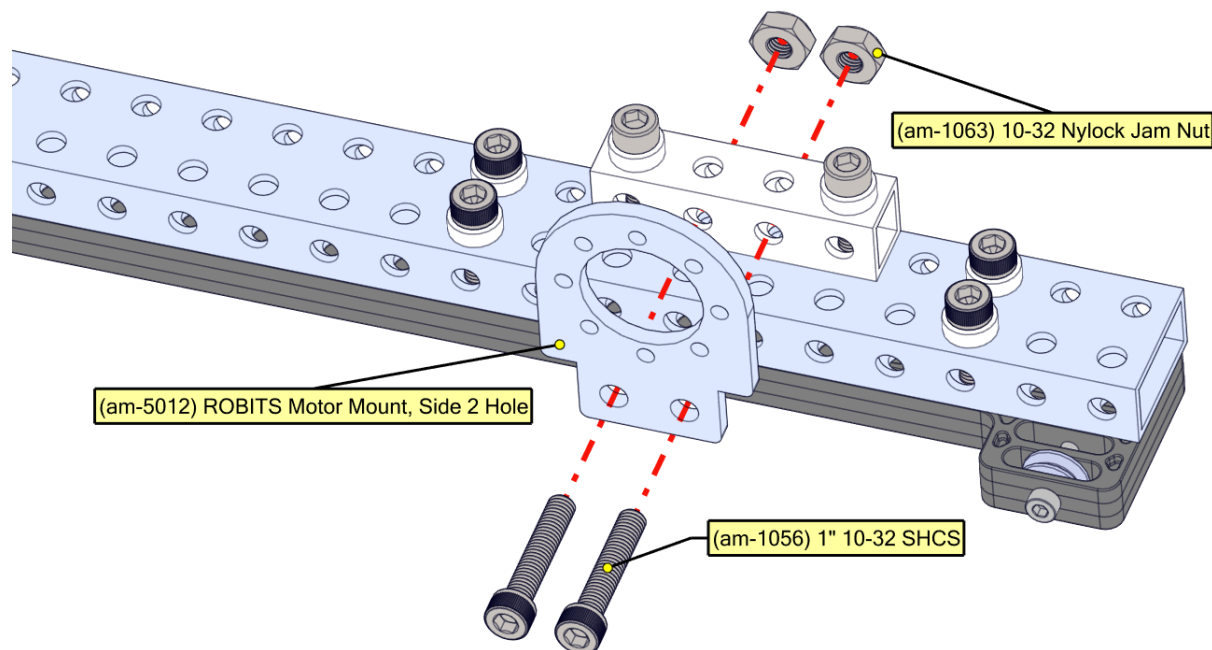
Step 5

Attach the ROBITS 1/2" x 1/2" x 2" Tube (am-5001-0200) to the assembly using [2] 1.5" 10-32 Socket Head Cap Screws (am-1014), [2] 0.125" #10 Spacer (am-1732), and [2] 10-32 Nylock Jam Nuts (am-1063).



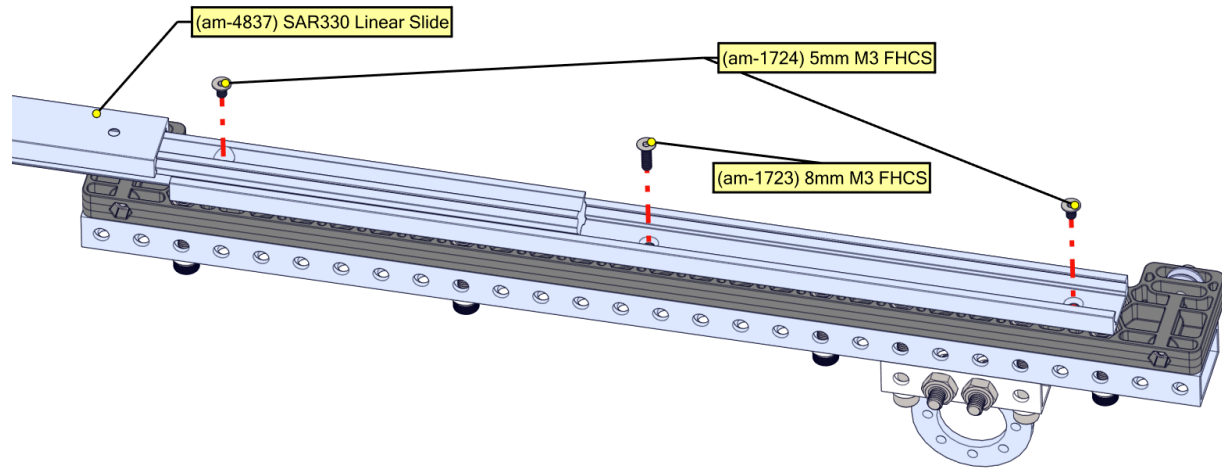
Step 6

Connect the ROBITS Motor Mount (am-5012) to the assembly using [2] 1" 10-32 Socket Head Cap Screws (am-1056) and [2] 10-32 Nylock Jam Nuts (am-1063).



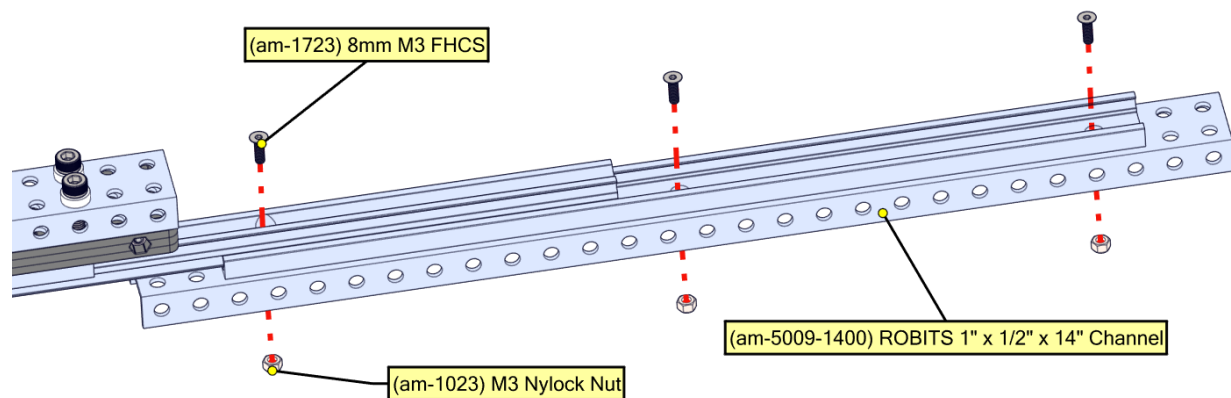
Step 7

Attach the SAR330 Linear Slide (am-4837) using [2] 5mm M3 Flat Head Cap Screws (am-1724) and [1] 8mm M3 Flat Head Cap Screw (am-1723). The longer screw goes in the center of the assembly. You will have to extend the linear slide to expose the holes for the screws.



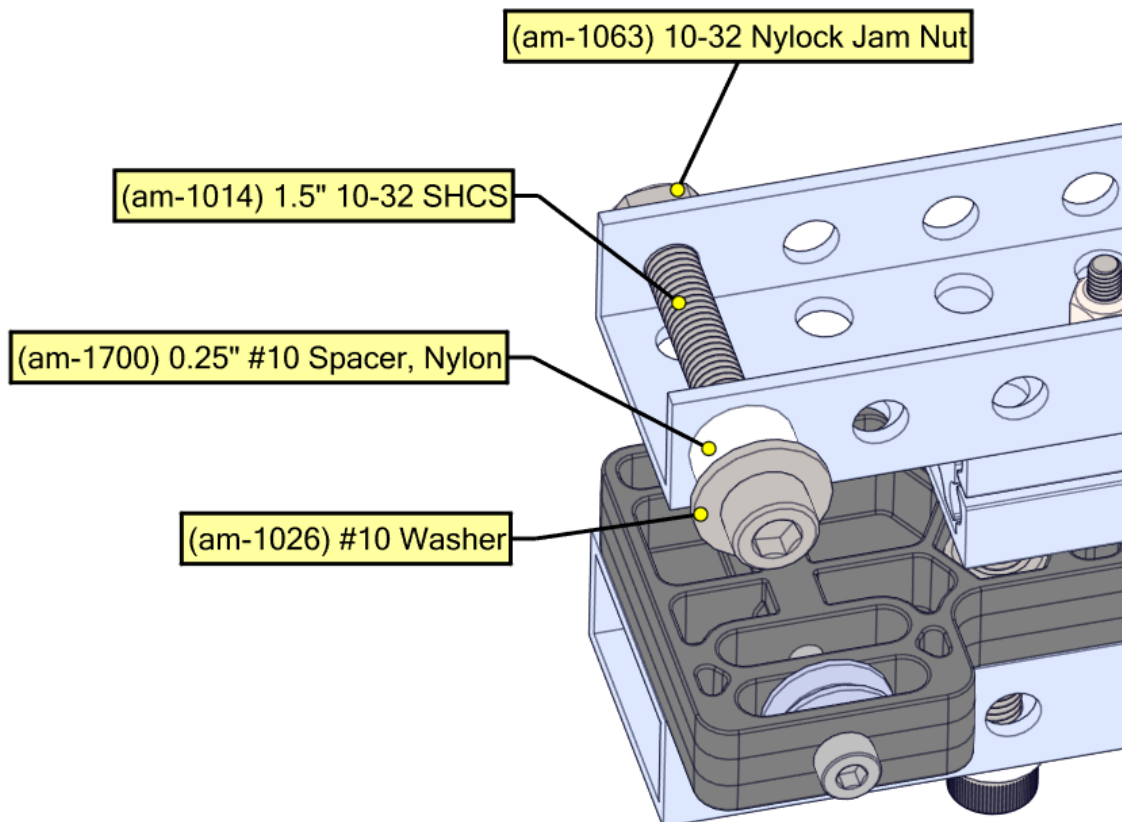
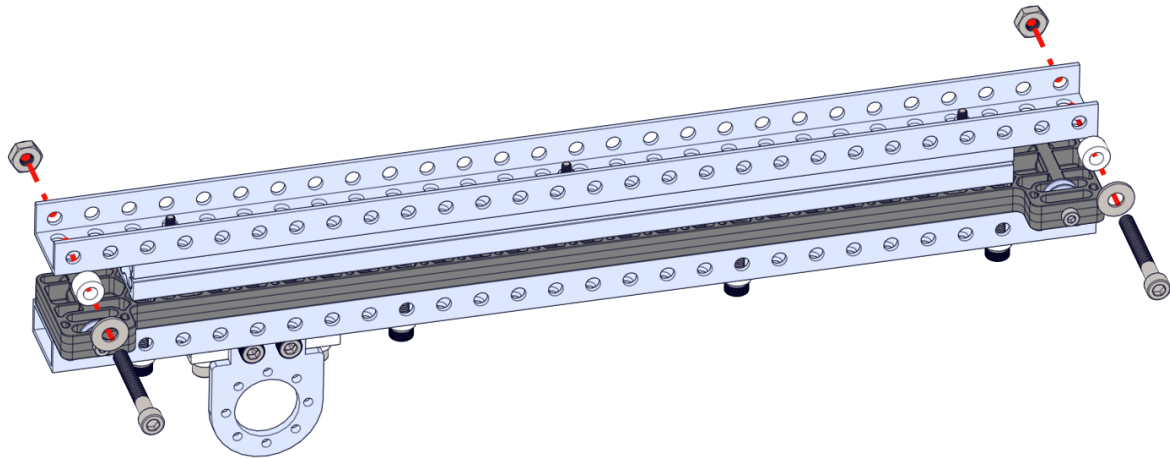
Step 8

Attach the ROBITS 1" x 1/2" x 14" Channel (am-5009-1400) to the SAR330 slide using [3] 8mm M3 Flat Head Cap Screws (am-1723) and [3] M3 Nylock Nuts (am-1023).



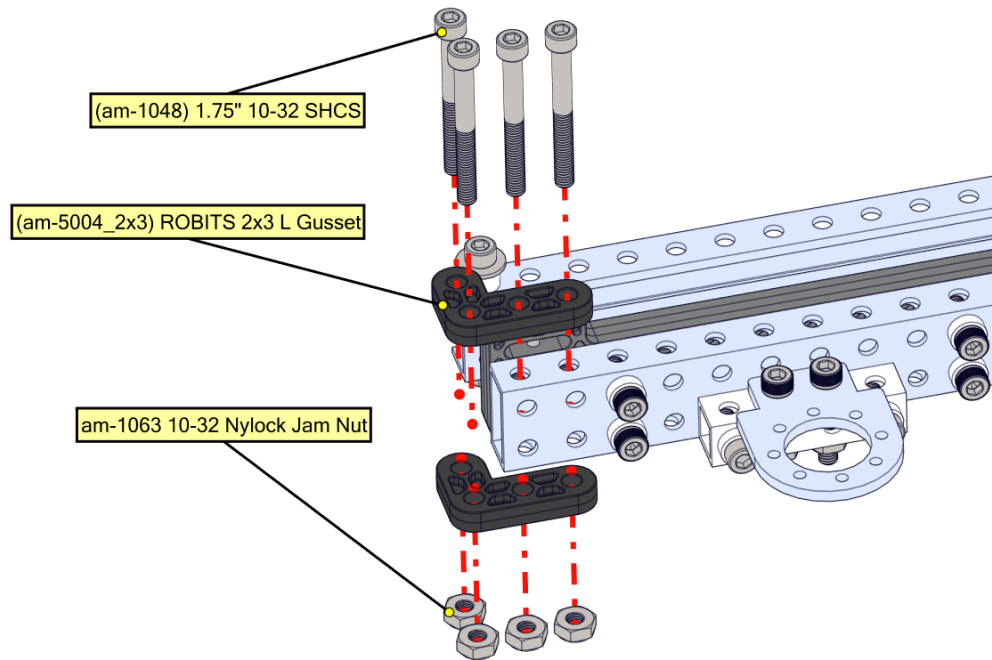
Step 9

On either end of the channel, place [1] 1.5" 10-32 Socket Head Cap Screw (am-1014) outfitted with [1] #10 washer (am-1026) and [1] 0.25" #10 Nylon Spacers (am-1700) and secure them with [2] 10-32 Nylock Jam Nuts (am-1063).



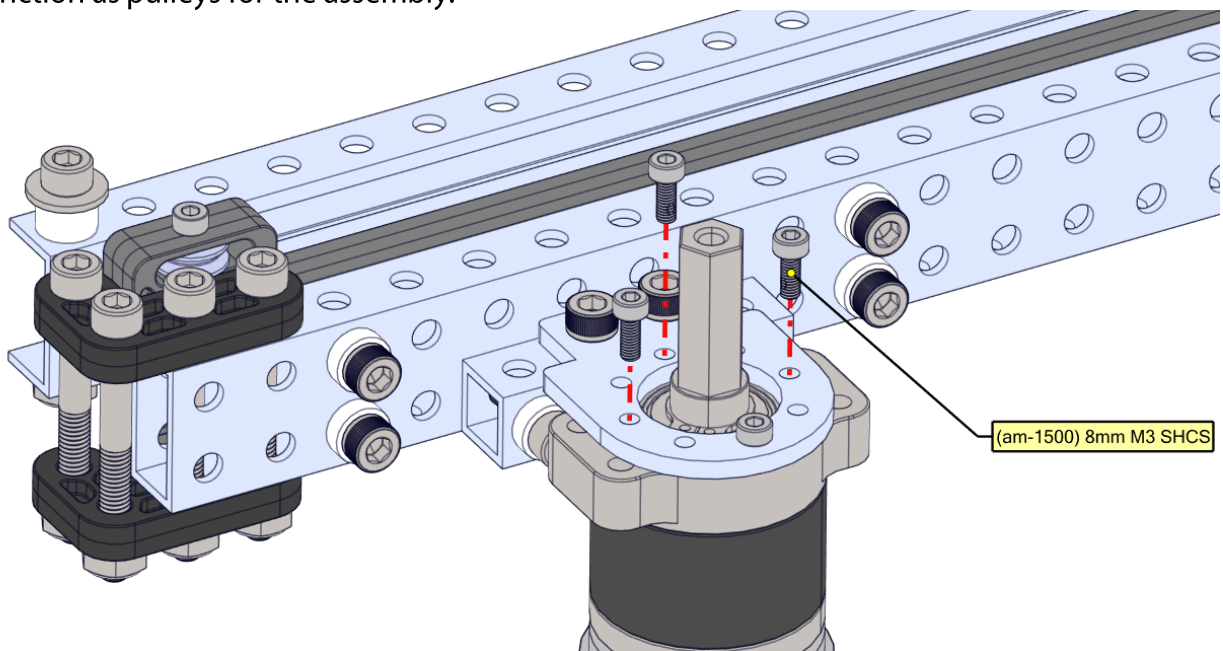
Step 10 (Optional)

Attach [2] ROBITS 2x3 L Gussets (am-5004_2x3) to the ROBITS tube using [2] 1.75" 10-32 Socket Head Cap Screws (am-1048) and [2] 10-32 Nylock Jam Nuts (am-1063). Place two more screws through the remaining holes on the L gussets and secure them with nuts. These can be used to attach the assembly to something else later.



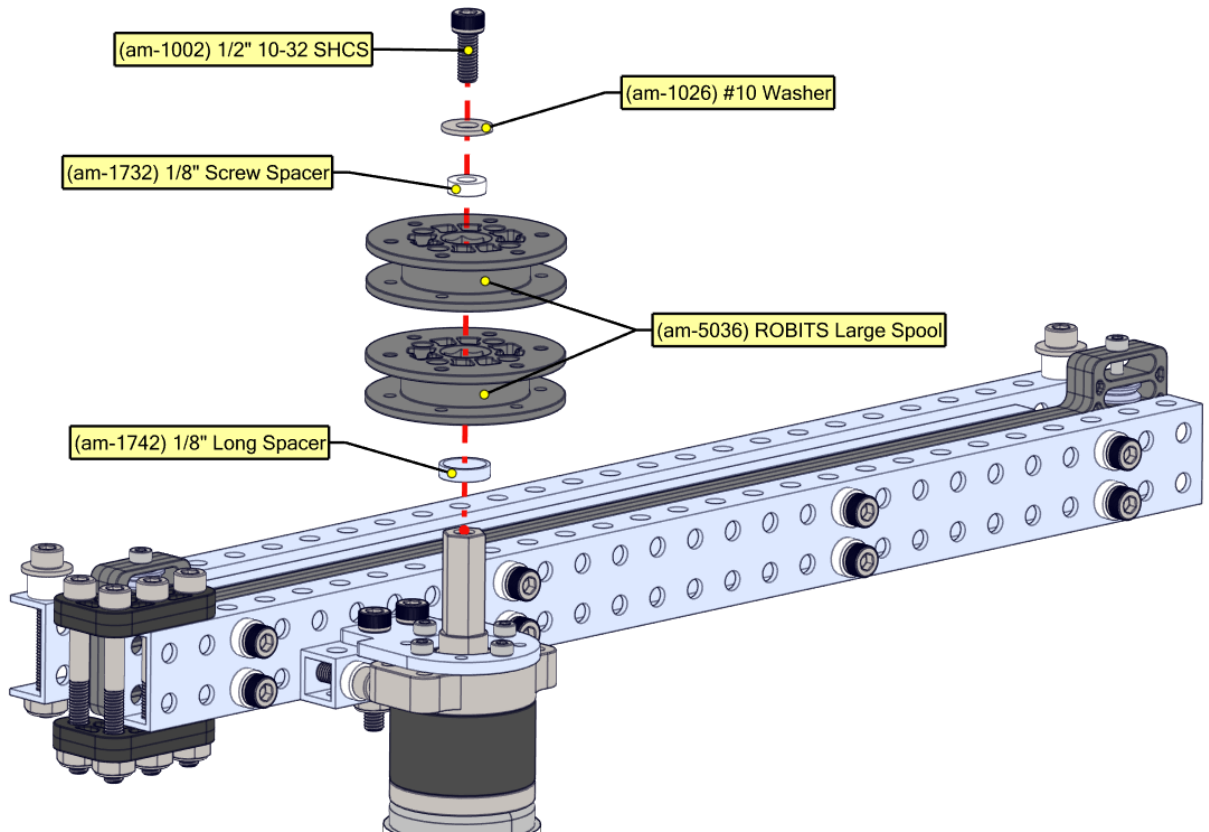
Step 11

Attach the motor (am-5441) to the motor mount using [4] 8mm M3 Socket Head Cap Screws as shown (am-1500). Ensure the shaft extends towards the V-groove bearings that will function as pulleys for the assembly.



Step 12

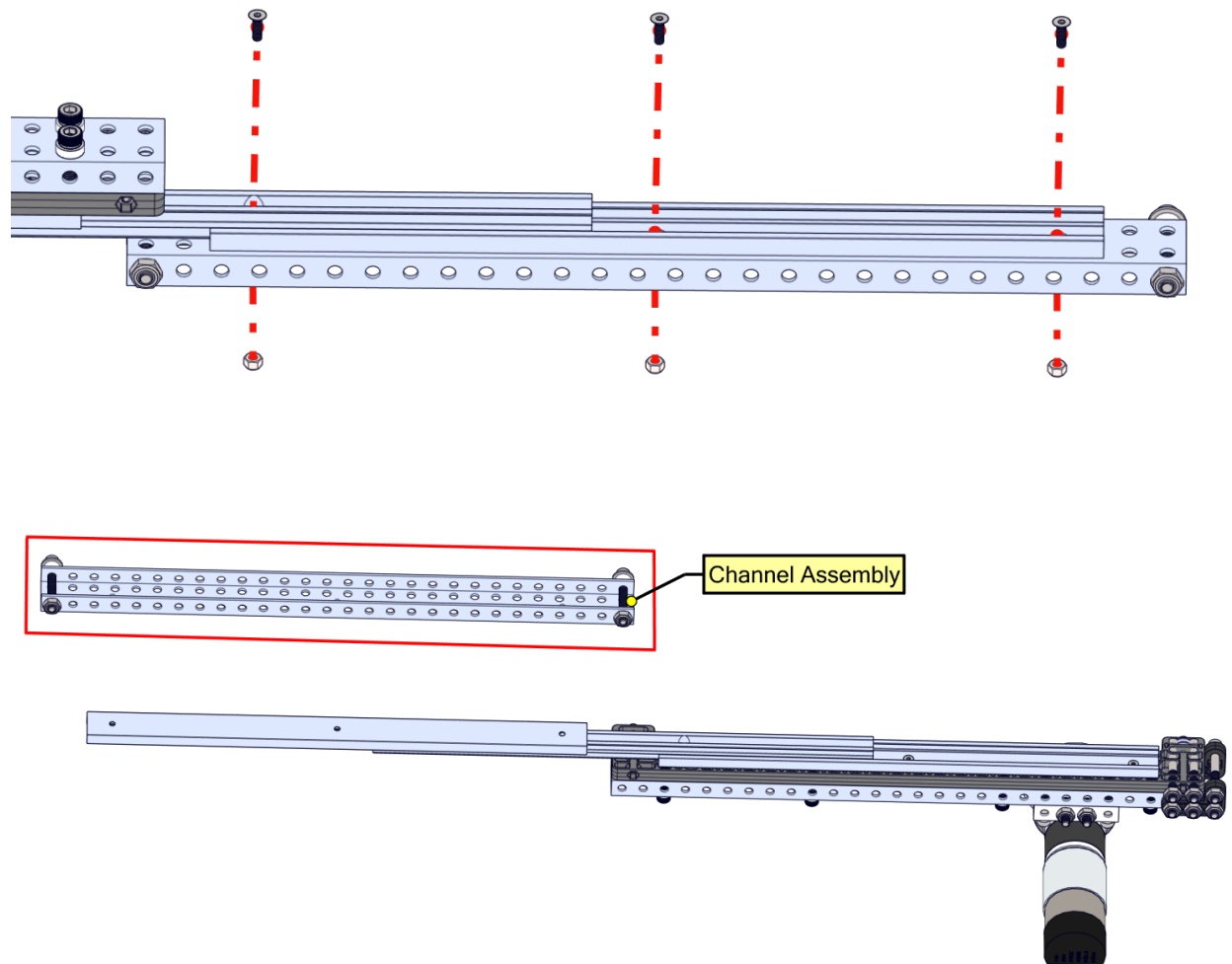
Slip [1] 1/8" shaft spacer (am-1742) and [2] ROBITS Large Spools (am-5036) over the motor shaft and secure them to the shaft with [1] 1/8" screw spacer (am-1732), [1] #10 Washer (am-1026), and [1] 1/2" socket head cap screw.



Assembly – Add On Stage

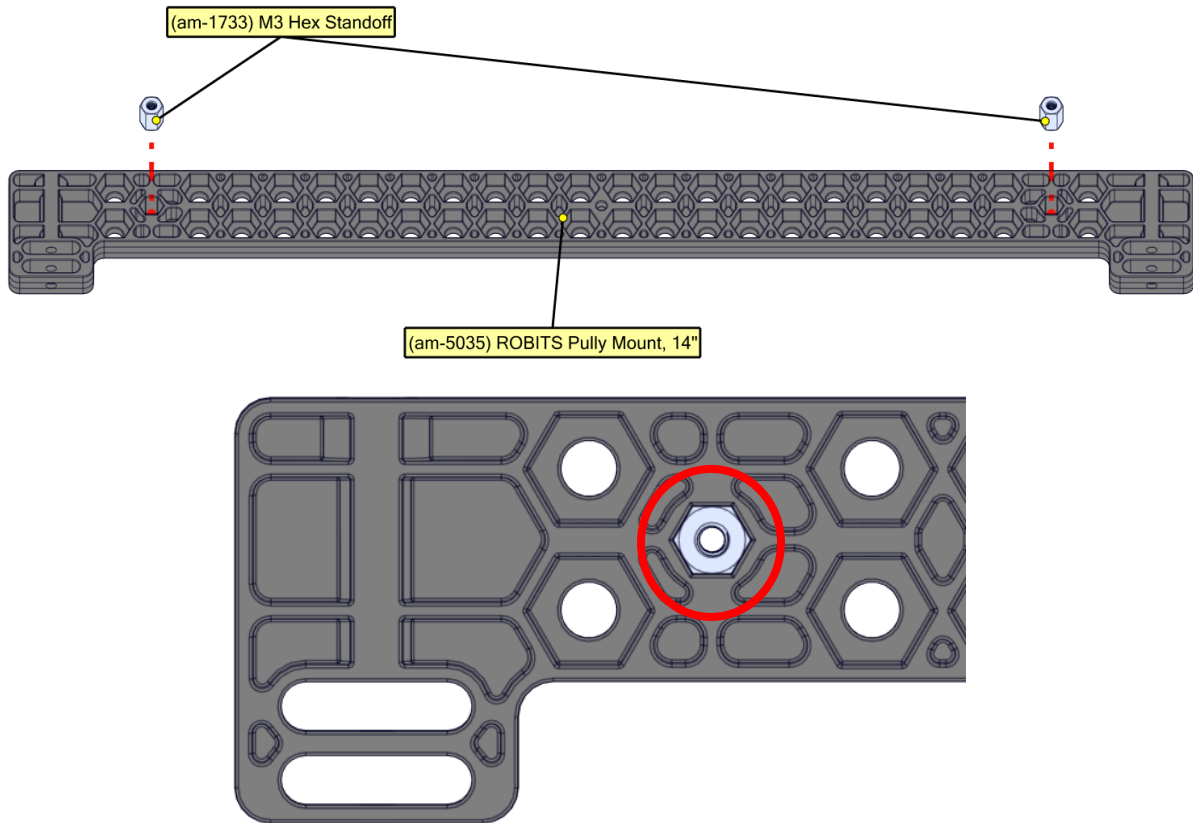
Step 1

Unscrew the [3] 8mm M3 bolts holding the ROBITS Channel to the previous SAR330 slide. Set the channel assembly aside for a moment.



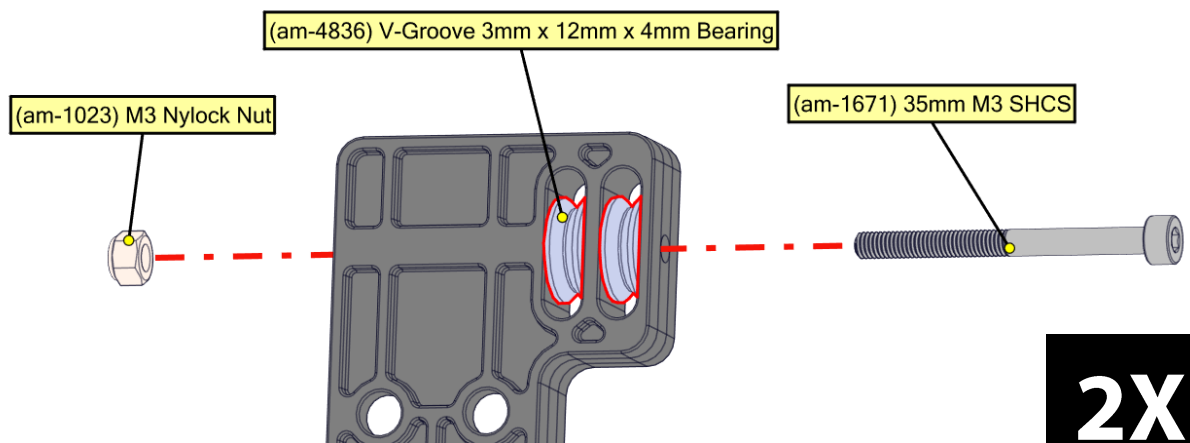
Step 2

Insert [2] M3 Hex Standoffs (am-1733) into the ROBITS Pulley Mount (am-5035) as shown.



Step 3

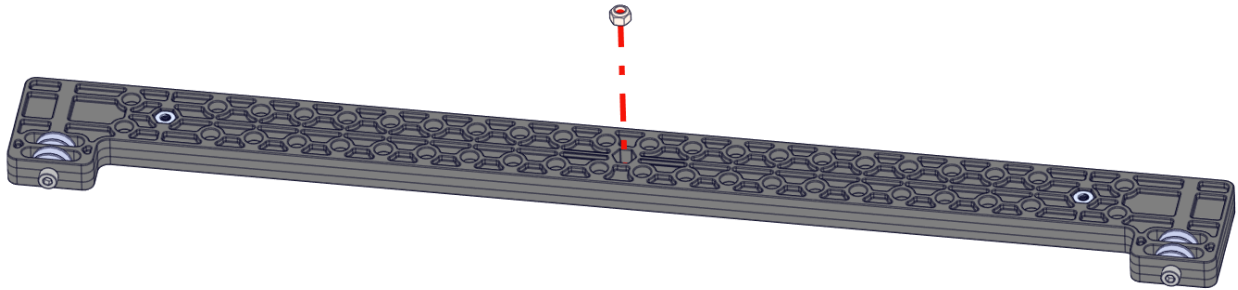
Slip [4] V-Groove Bearings (am-4836) into the pockets on the Pulley Holder. Hold them in place by running a 35mm M3 screw (am-1671) through the assembly and securing them with M3 Nylock Nuts (am-1023). **Be careful not to overtighten! The bearing should spin freely.**



2X

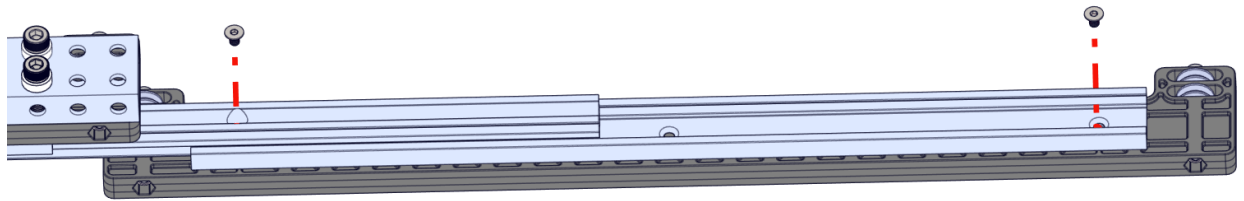
Step 4

Press in one M3 Nylock Nut (am-1023) to the center of the Pulley Mount (am-5035).



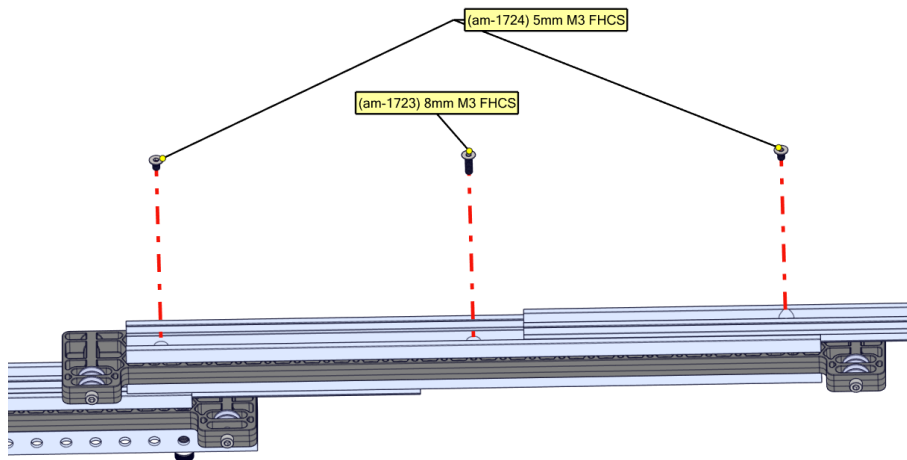
Step 5

Install the new pulley holder assembly on the SAR330 Slide using [2] 5mm M3 Flat Head Cap Screws (am-1724).



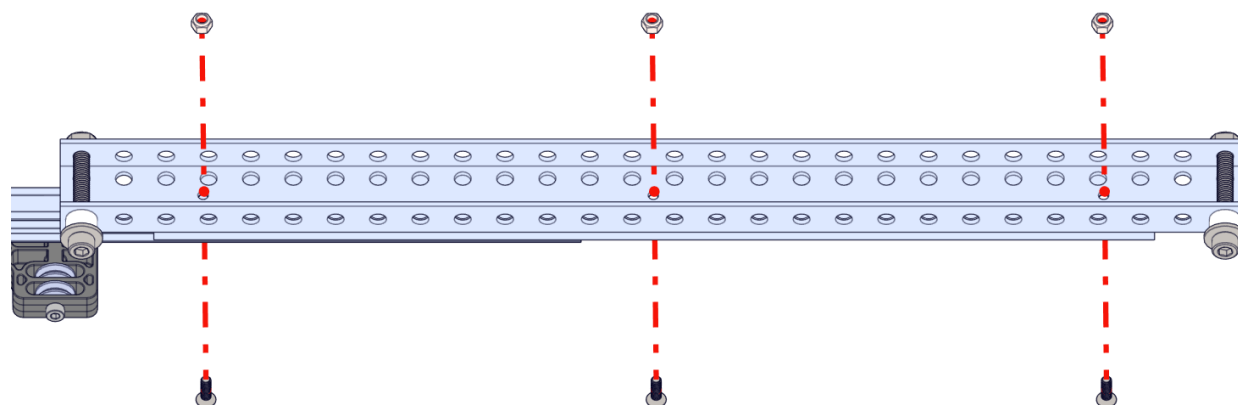
Step 6

Attach the second SAR330 slide from your Add On Kit using [1] 8mm M3 Flat Head Cap Screw (am-1723) and [2] 5mm M3 Flat Head Cap Screws (am-1724).



Step 7

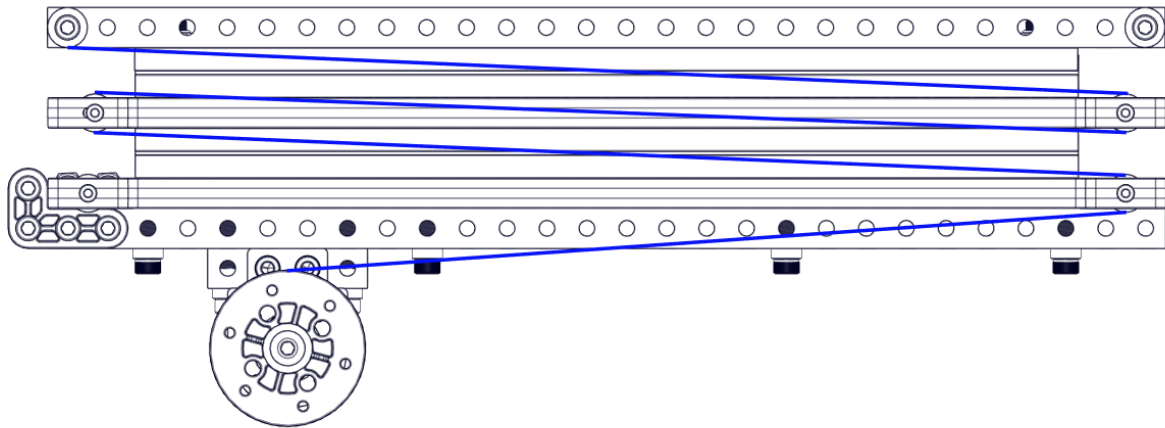
Reattach the channel assembly using the same [3] 8mm M3 Flat Head Cap Screws (am-1723) and [3] M3 Nuts (am-1023) as before, but on the newly added SAR330 slide.



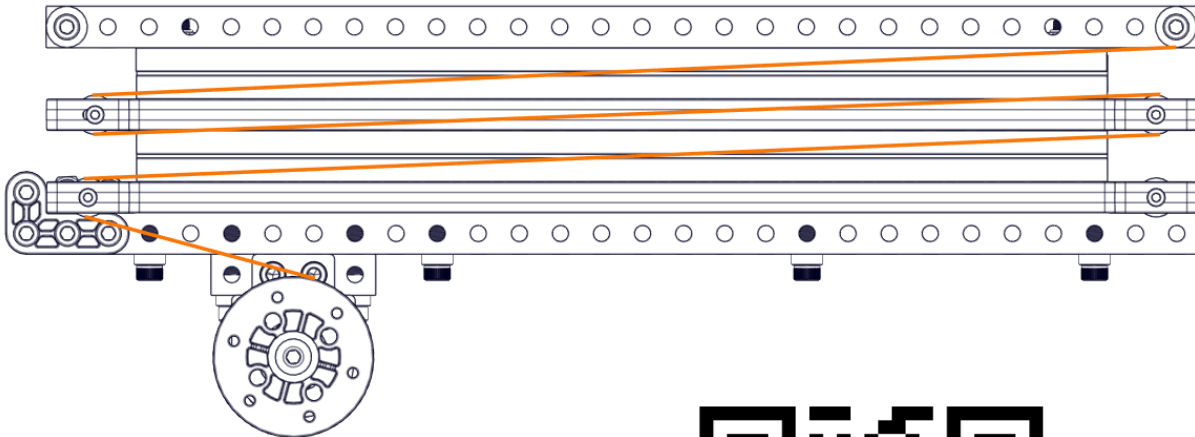
Assembly – Stringing

Use the stringing diagrams below to route the up and down strings through the assembly. Remember – the two strings should not share a pulley at any time!

Power Up String (Strung on Pulleys Nearest Assembly)



Power Down String (Strung on Pulleys Furthest from Assembly)



To see a video about this process, scan the QR code to the right with your phone, or click/tap on it on it.

