Compact Linear Slide

(am-4846a & am-4848a)

Assembly Guide
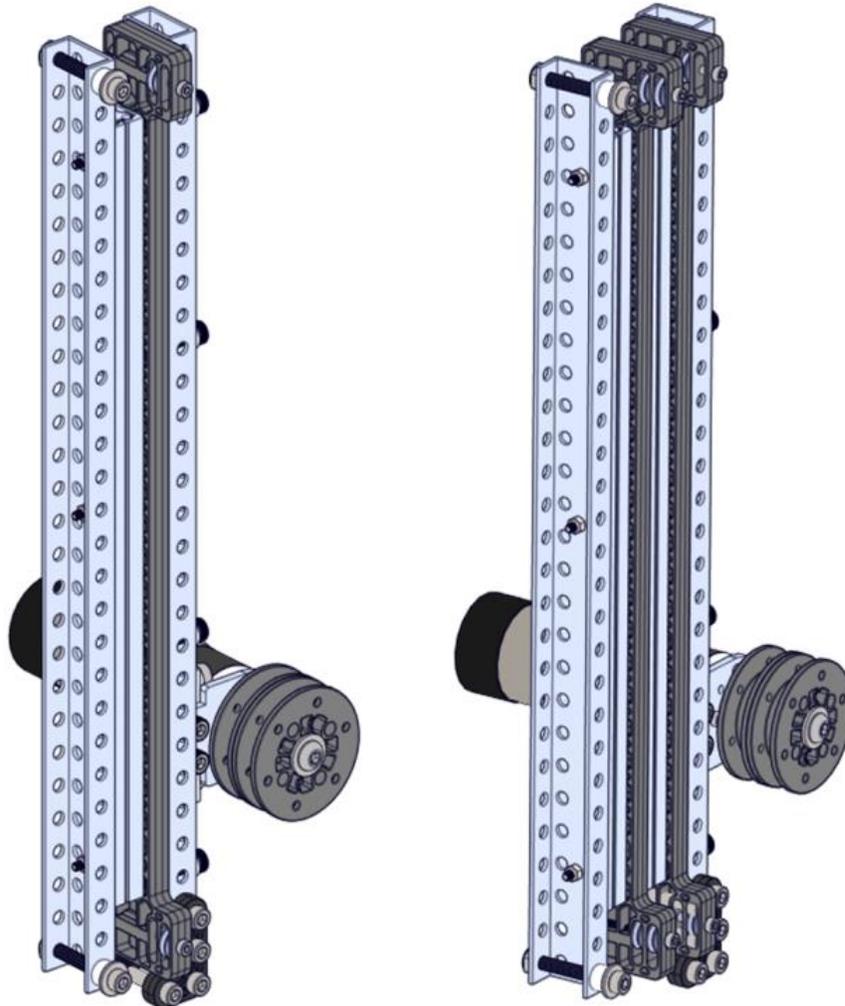
Revision #	Date	Author	Purpose
0	8/21/2024	E. Scime	Original Document

P. Yeung   8/22/24

Reviewer Name   Date Reviewed

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Table of Contents

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-4846a)

Component	Part #	QTY	Photo
ROBITS 1" x 1/2" x 14" Tube	am-5026-1400	1	
ROBITS Pulley Mount, 14"	am-5035	1	
M3 Nylock Nut	am-1023	6	
M3 Hex Standoff	am-1733	2	
8mm M3 Flat Head Cap Screw	am-1723	4	

Component	Part #	QTY	Photo
V-Groove 3mm x 12mm x 4mm Bearing	am-4836	2	
5mm M3 Flat Head Cap Screw	am-1724	2	
SAR330 Linear Slide	am-4837	1	
10-32 Nylock Jam Nut	am-1063	18	
ROBITS 1" x 1/2" x 14" Channel	am-5009-1400	1	
ROBITS 1/2" x 1/2" x 2" Tube	am-5001-0200	1	
ROBITS Motor Mount, Side 2 Hole	am-5012	1	
6mm D to 0.375" Hex Shaft Adapter	am-3444	1	
NeveRest Orbital 14:1	am-4610b	1	
8mm M3 Socket Head Cap Screw	am-1500	4	

Component	Part #	QTY	Photo
0.25" #10 Spacer, Nylon	am-1700	2	
#10 Washer	am-1026	2	
1.5" 10-32 Socket Head Cap Screw	am-1014	4	
0.125" #10 Spacer, Nylon	am-1732	10	
ROBITS Large Spool	am-5036	2	
ROBITS 2x3 L Gusset	am-5004_2x3	2	
1.75" 10-32 Socket Head Cap Screw	am-1048	4	
Power String, 100' Spool	am-3159	1	
35mm M3 Socket Head Cap Screw	am-1671	2	
1" 10-32 Socket Head Cap Screw	am-1056	10	

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	
35mm M3 Socket Head Cap Screw	am-1671	2	
V-Groove 3mm x 12mm x 4mm Bearing	am-4836	4	
5mm M3 Flat Head Cap Screw	am-1724	4	

Step 1

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

(am-1733) M3 Hex Standoff

(am-5035) ROBITS Pully Mount, 14"
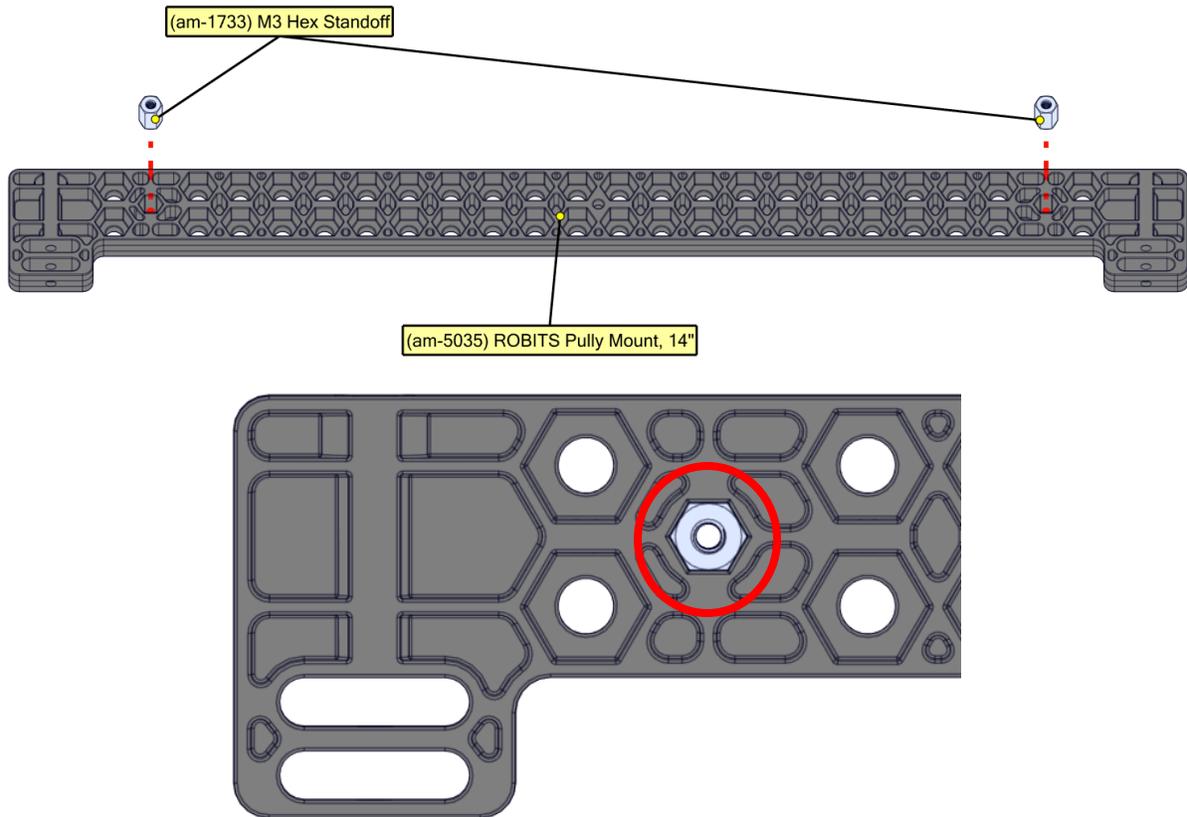
Step 2

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.

(am-4836) V-Groove 3mm x 12mm x 4mm Bearing

(am-1023) M3 Nylock Nut

(am-1671) 35mm M3 SHCS

2X
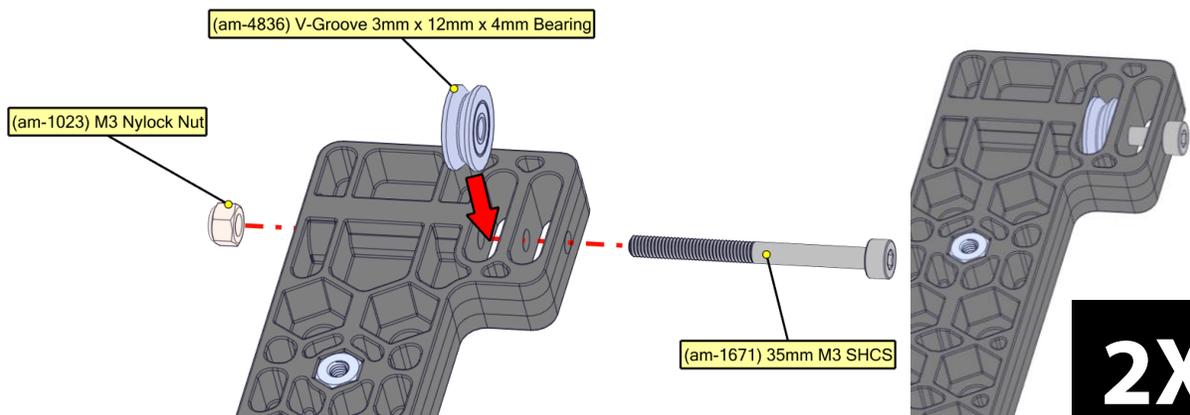
Step 3
Press in [1] M3 Nylock Nut (am-1023) to the center of the Pulley Holder.
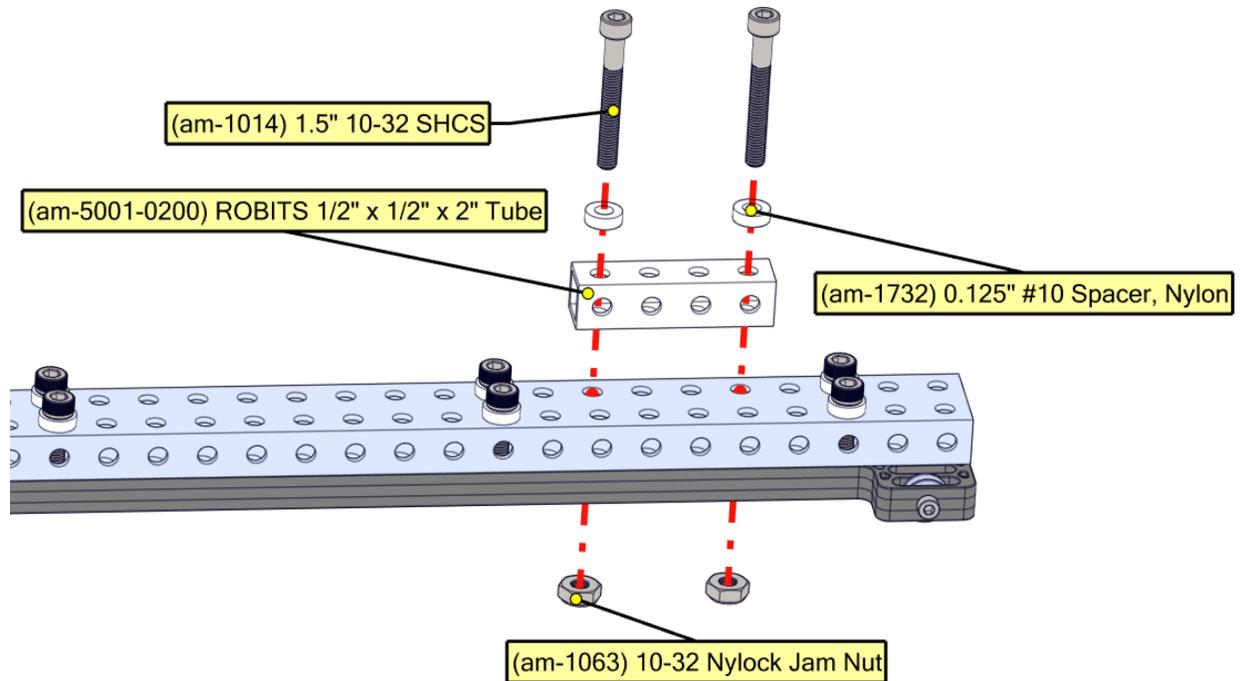
(am-1023) M3 Nylock Nut
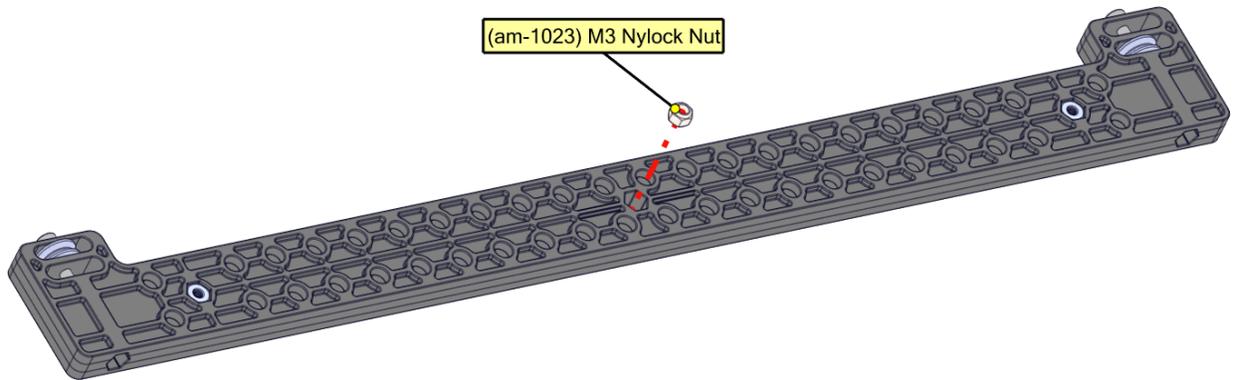
Step 4
Attach the ROBITS 1" x 1/2" x 14" Tube (am-5026-1400) to the assembly using [8] 1" 10-32 Socket Head Cap Screws (am-1056), [8] 10-32 Nylock Jam Nuts (am-1063), and [8] 0.125" #10 Spacers (am-1732).

(am-1732) 0.125" #10 Spacer, Nylon

(am-1056) 1" 10-32 SHCS

(am-5026-1400) ROBITS 1" x 1/2" x 14" Tube

(am-1063) 10-32 Nylock Jam Nut
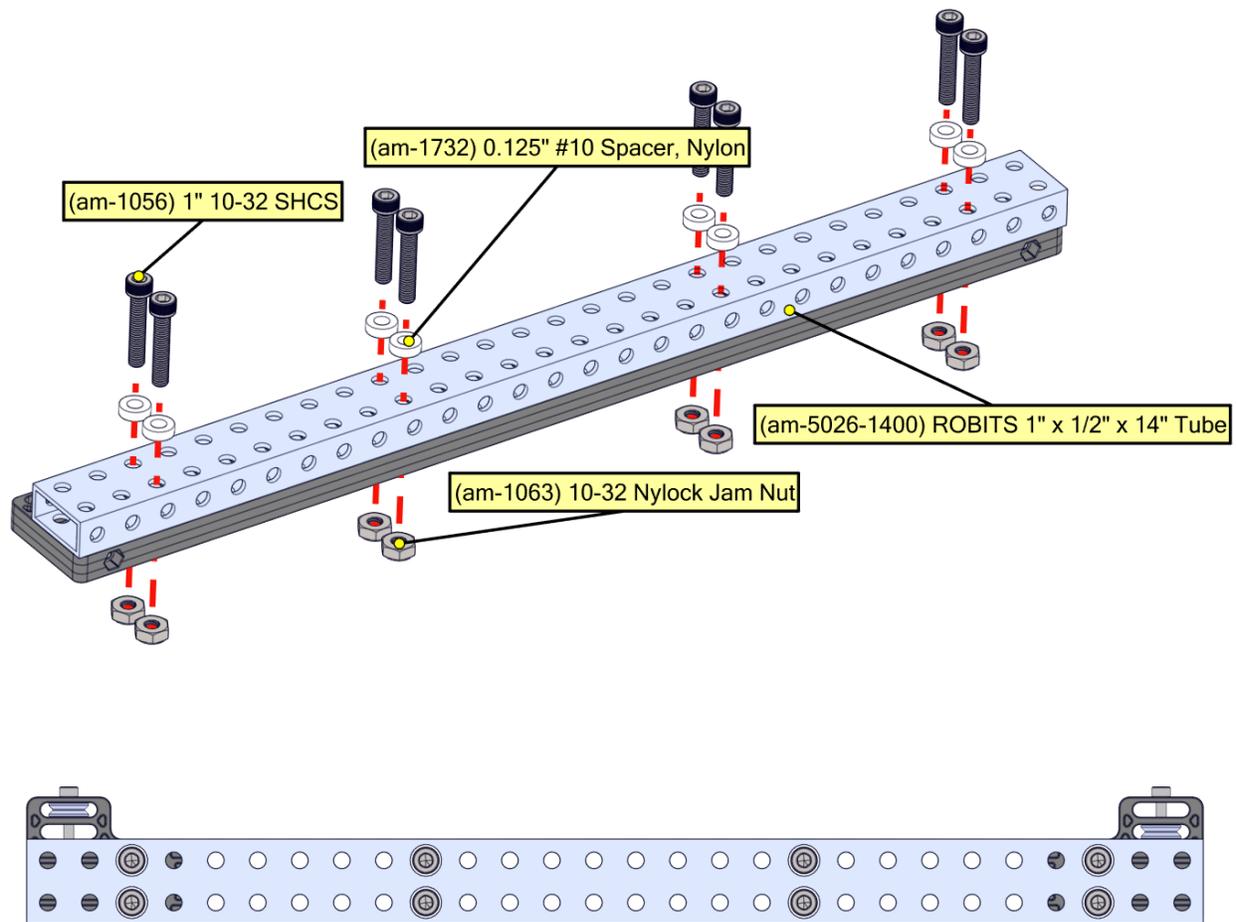
Step 5
Attach the ROBITS 1/2" x 1/2" x 2" Tube (am-5001-0200) to the assembly using [2] 1.5" 10-32 Socket Head Cap Screws (am-1014), [2] 0.125" #10 Spacer (am-1732), and [2] 10-32 Nylock Jam Nuts (am-1063).

(am-1014) 1.5" 10-32 SHCS

(am-5001-0200) ROBITS 1/2" x 1/2" x 2" Tube

(am-1732) 0.125" #10 Spacer, Nylon

(am-1063) 10-32 Nylock Jam Nut

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).

(am-1063) 10-32 Nylock Jam Nut

(am-5012) ROBITS Motor Mount, Side 2 Hole

(am-1056) 1" 10-32 SHCS
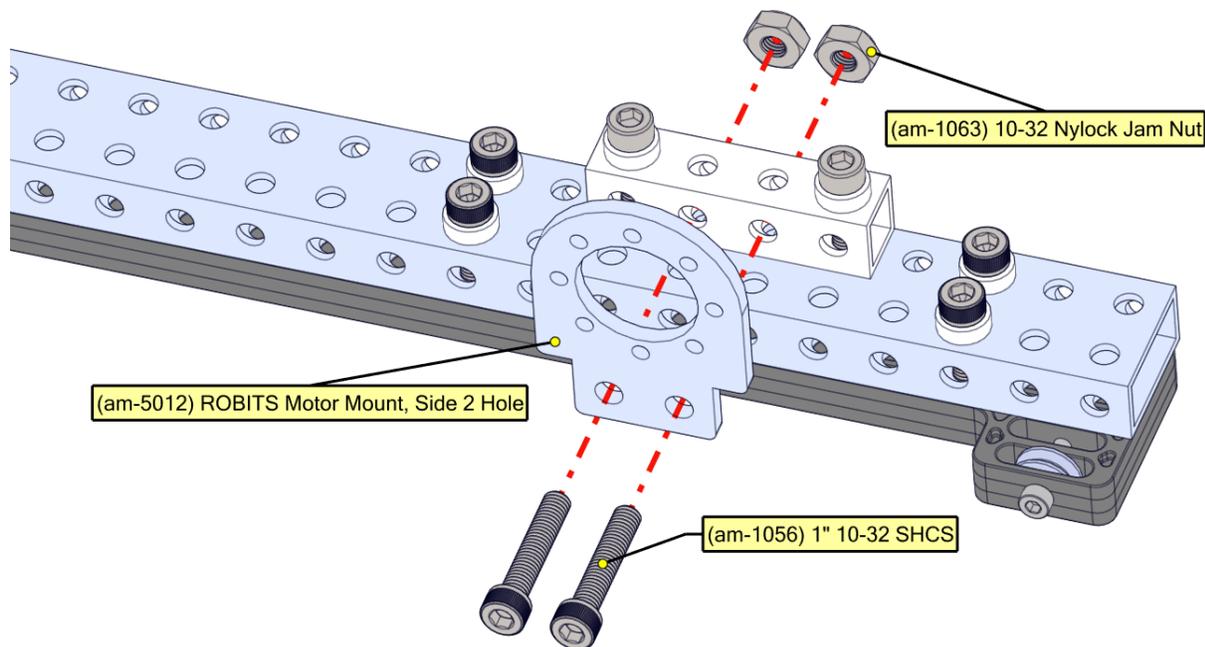
Step 7

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.
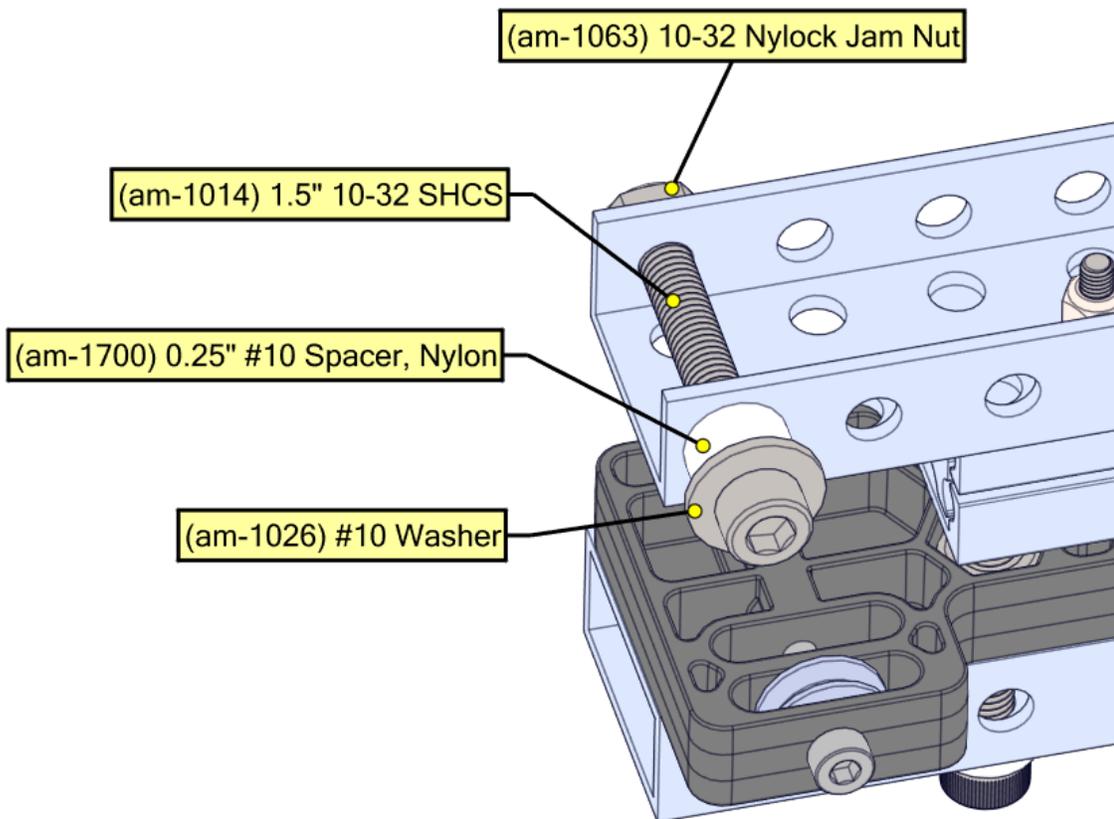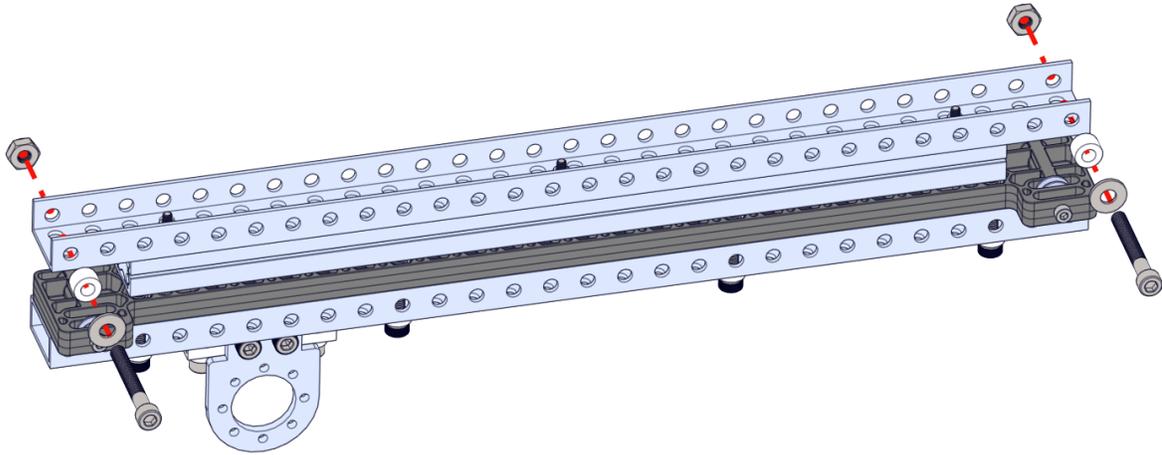
(am-4837) SAR330 Linear Slide

(am-1724) 5mm M3 FHCS

(am-1723) 8mm M3 FHCS
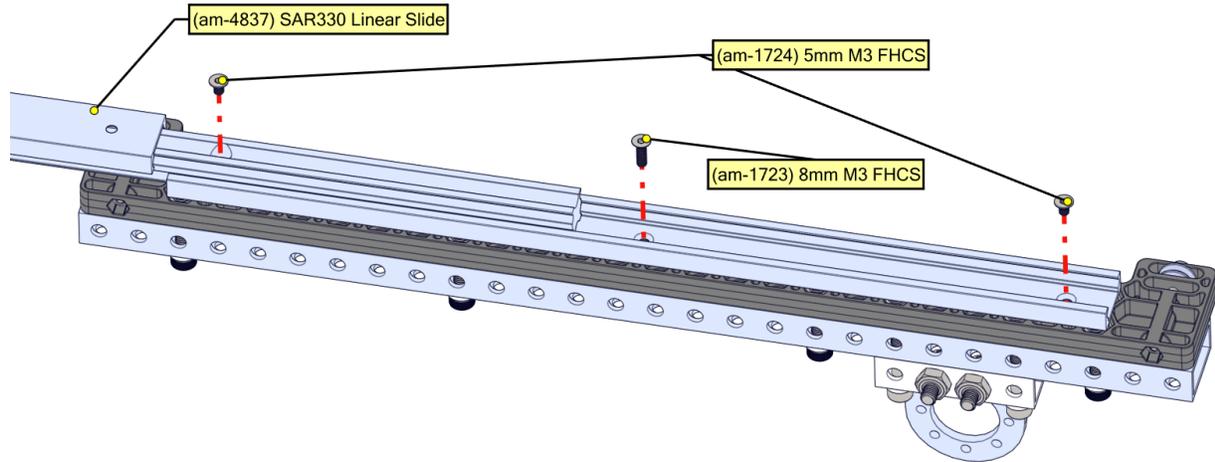
Step 8

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).

(am-1723) 8mm M3 FHCS

(am-5009-1400) ROBITS 1" x 1/2" x 14" Channel

(am-1023) M3 Nylock Nut
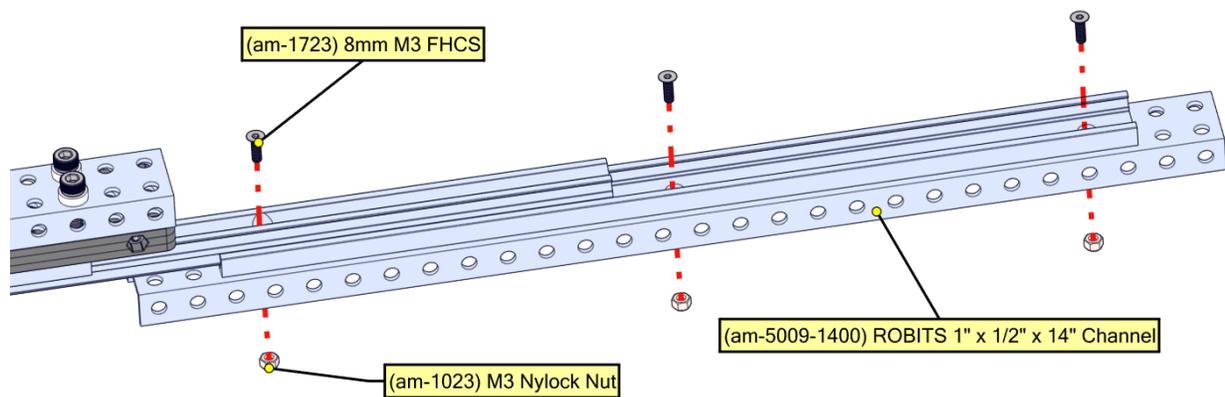
Step 9
On either end of the channel, place [1] 1.5" 10-32 Socket Head Cap Screw (am-1014) outfitted with [1] #10 washer (am-1026) and [1] 0.25" #10 Nylon Spacers (am-1700) and secure them with [2] 10-32 Nylock Jam Nuts (am-1063).


(am-1063) 10-32 Nylock Jam Nut

(am-1014) 1.5" 10-32 SHCS

(am-1700) 0.25" #10 Spacer, Nylon

(am-1026) #10 Washer

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.

(am-1048) 1.75" 10-32 SHCS

(am-5004_2x3) ROBITS 2x3 L Gusset

am-1063 10-32 Nylock Jam Nut
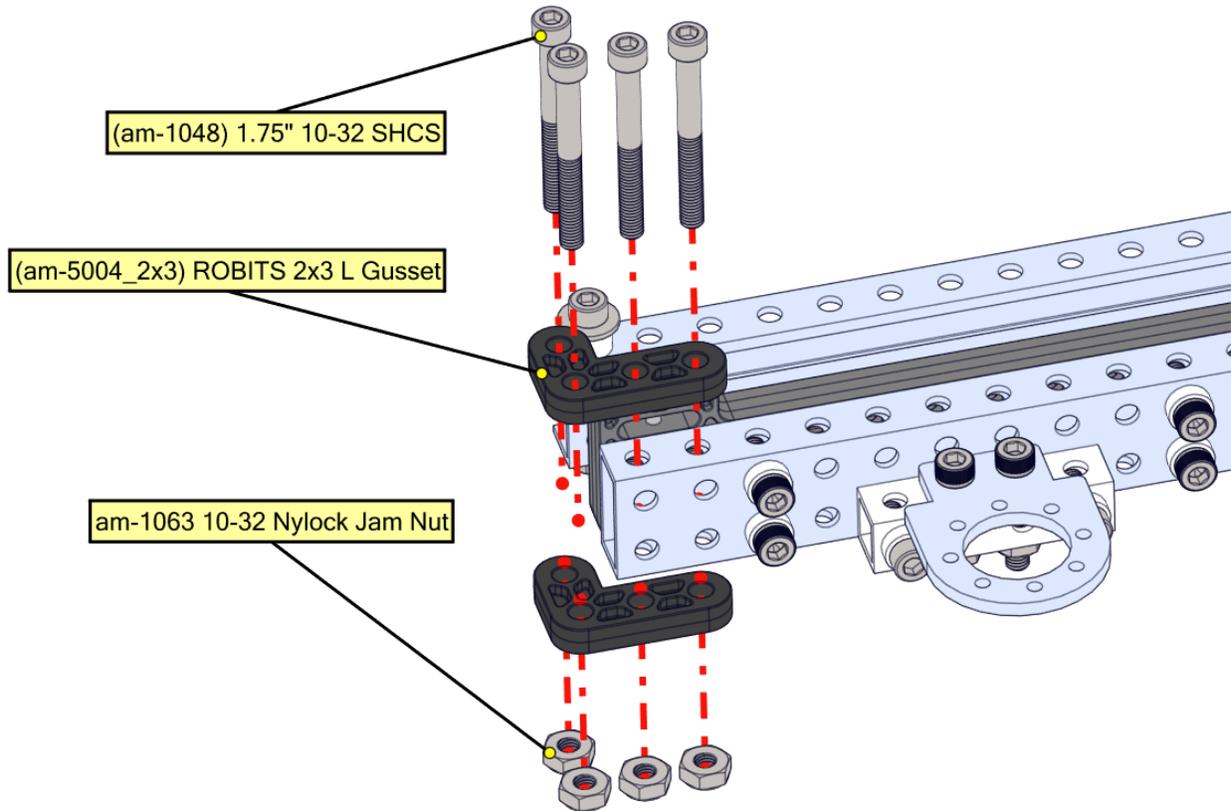
Step 11
Slip the D-Bore to 3/8" Hex shaft adapter (am-3444) onto the provided NeveRest motor and
tighten the set screw to retain it.
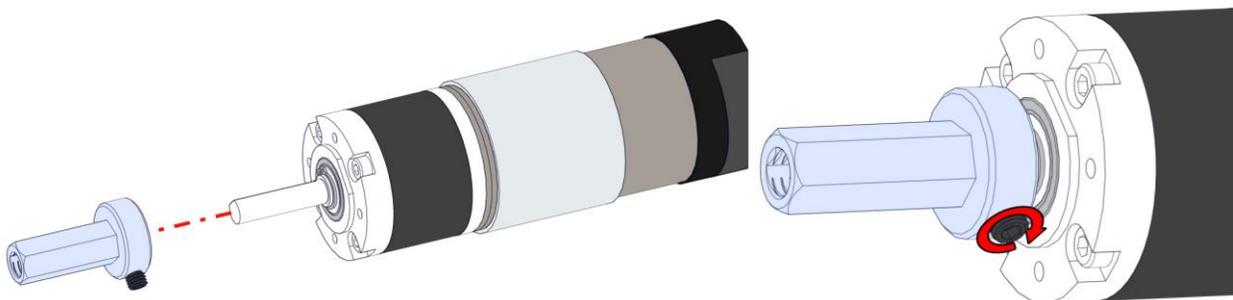
Step 12
Attach the motor to the motor mount using [4] 8mm M3 Socket Head Cap Screws as shown. Ensure the shaft extends towards the V-groove bearings that will function as pulleys for the assembly.

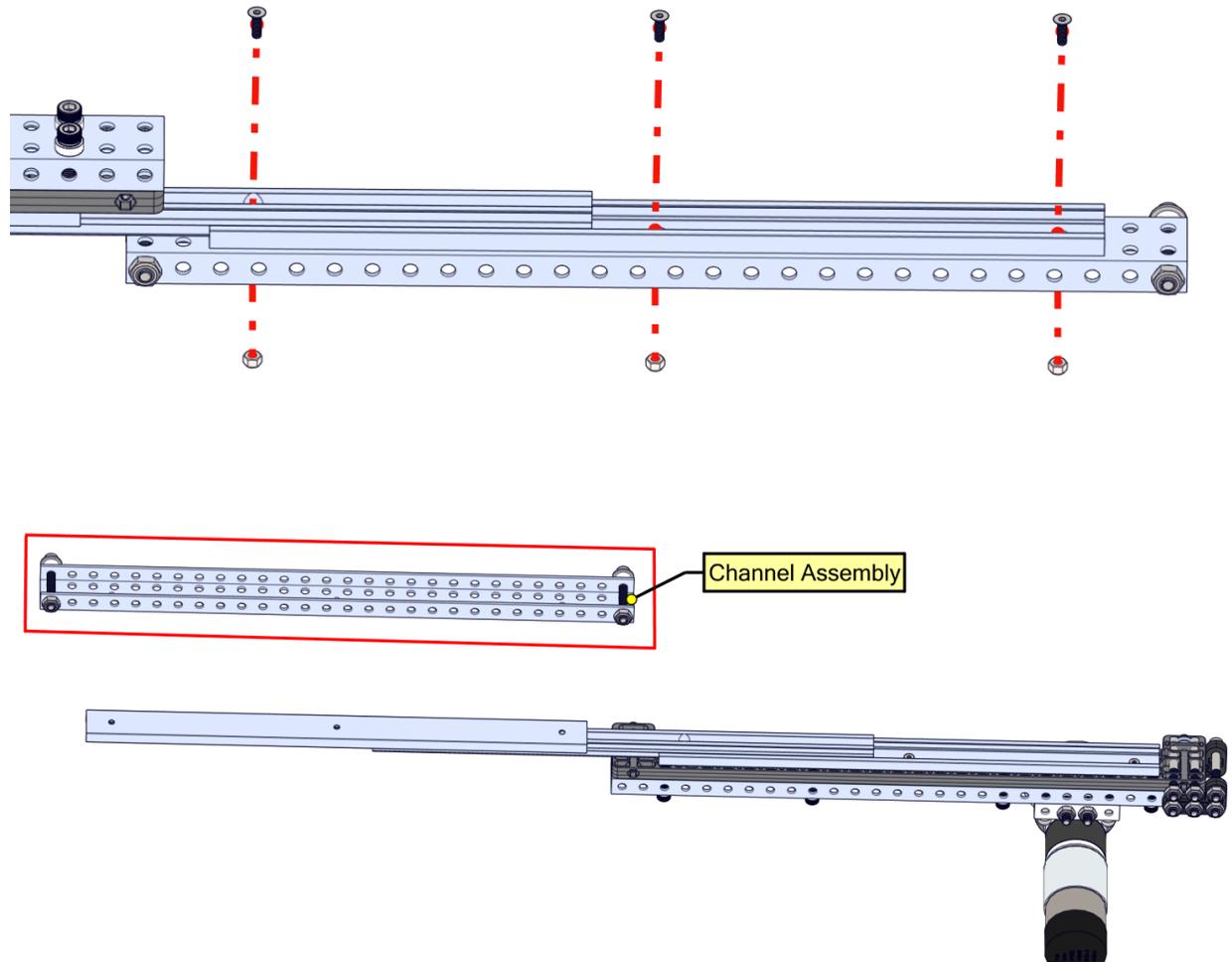(am-1500) 8mm M3 SHCS
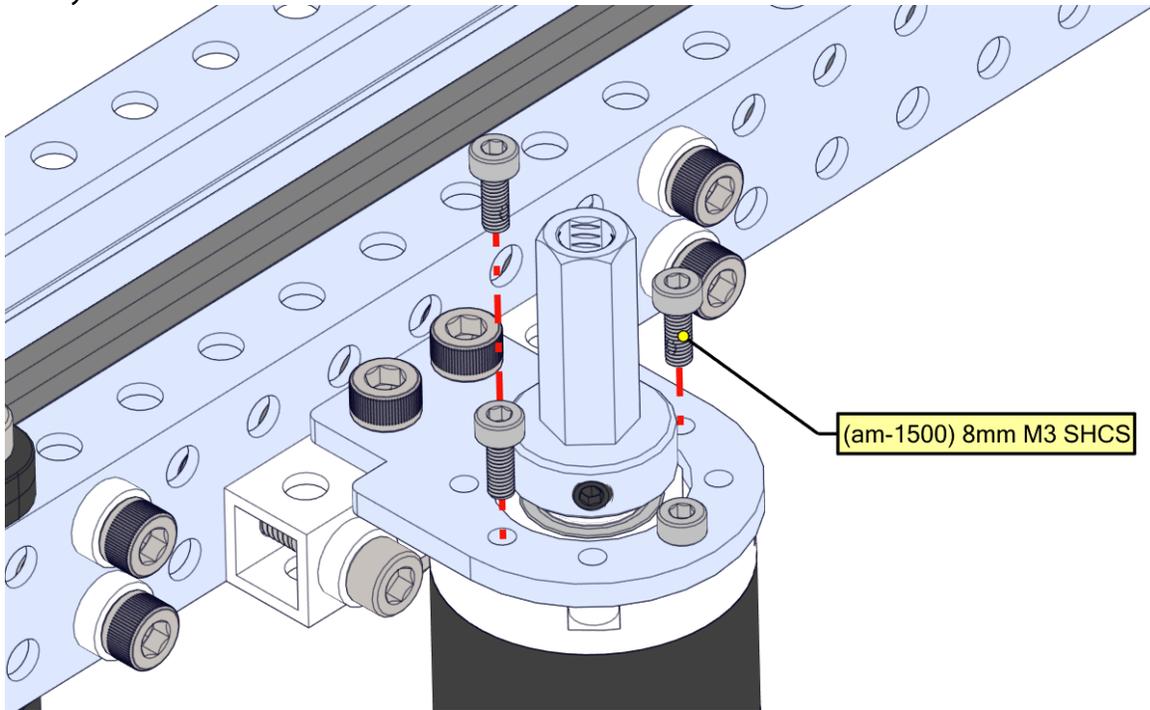
Step 13
Slip [2] ROBITS Large Spools (am-5036) over the motor shaft and secure them to the shaft with the provided 1/4" Washer and 1/4-20 Button Head Cap Screw.
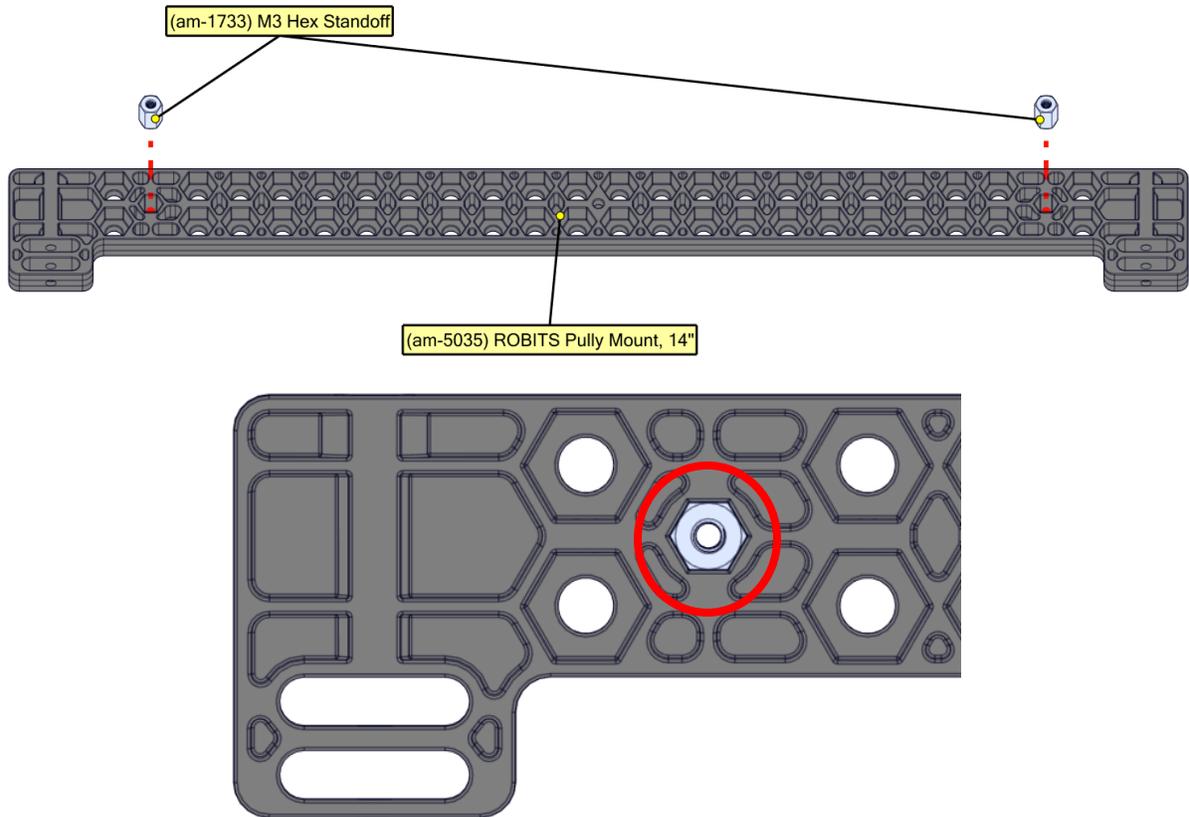
am-5036 ROBITS Large Spool
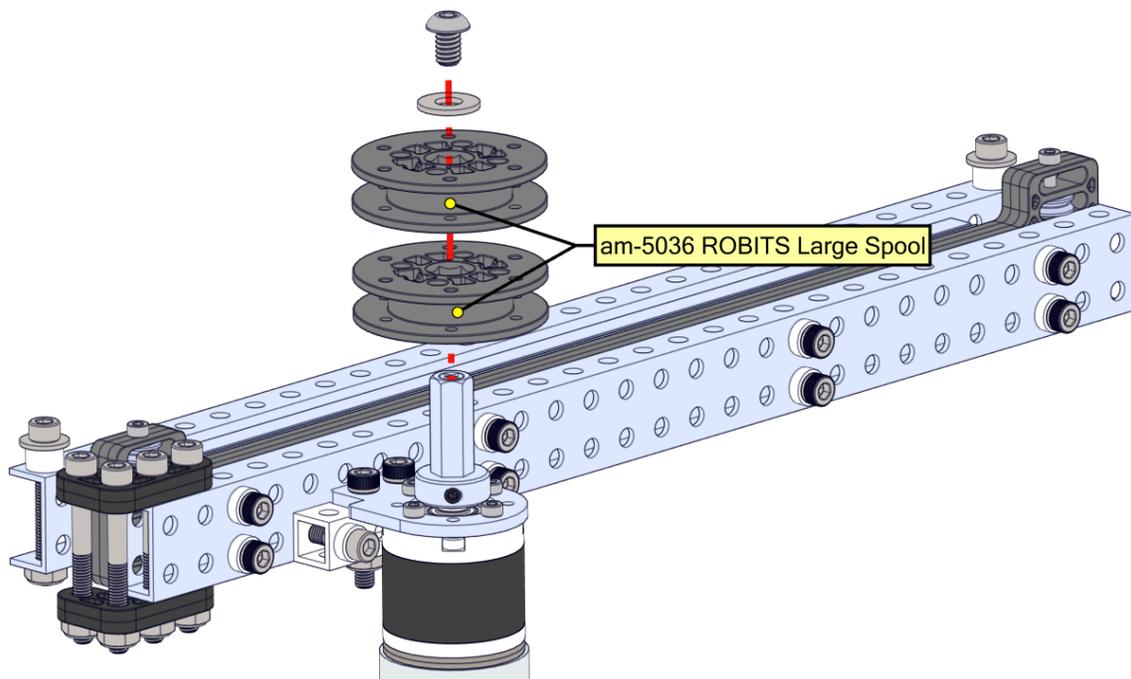
Step 1
Unscrew the [3] 8mm M3 bolts holding the ROBITS Channel to the previous SAR330 slide. Set the channel assembly aside for a moment.

Channel Assembly

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

(am-1733) M3 Hex Standoff

(am-5035) ROBITS Pully Mount, 14"

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.

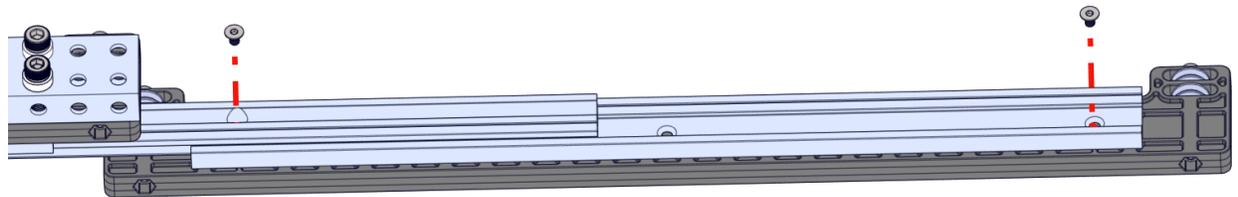(am-4836) V-Groove 3mm x 12mm x 4mm Bearing

(am-1023) M3 Nylock Nut

(am-1671) 35mm M3 SHCS

2X
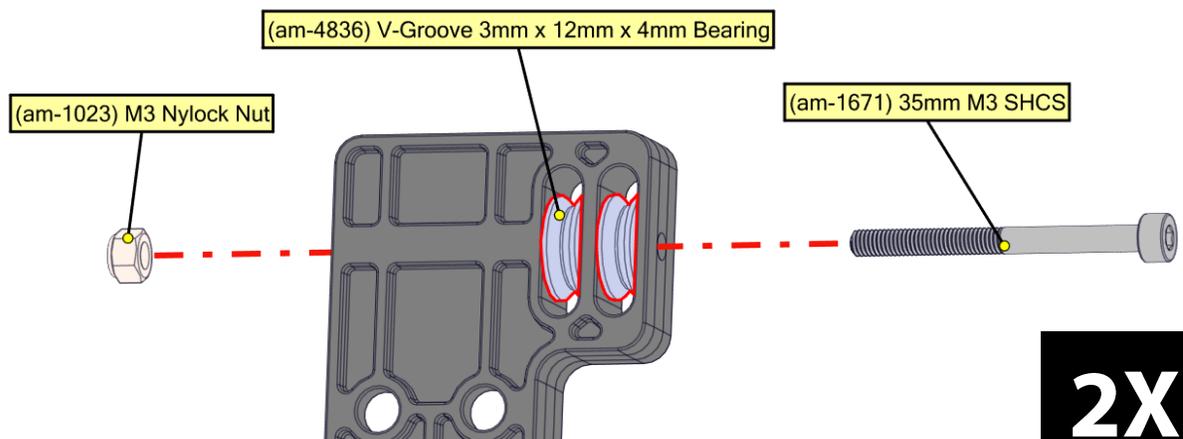
Step 4
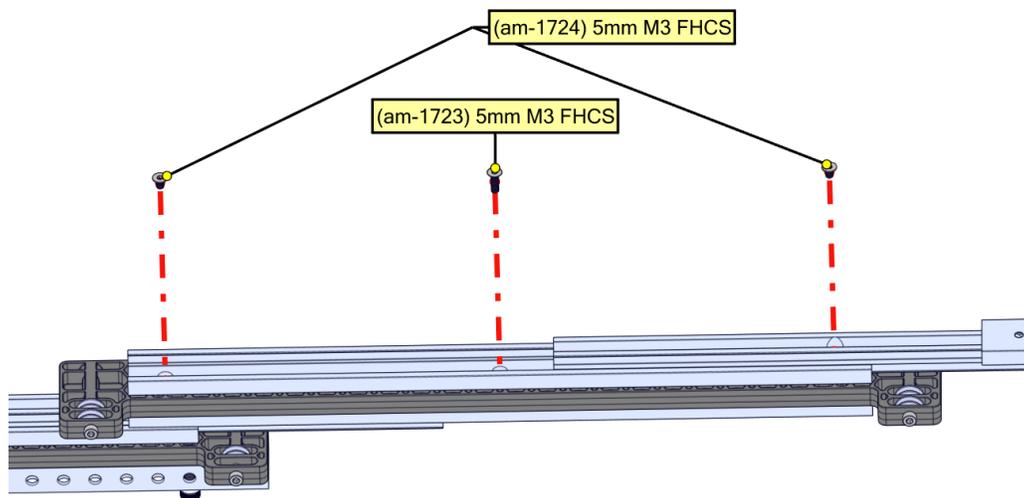Press in one M3 Nylock Nut (am-1023) to the center of the Pulley Mount (am-5035).
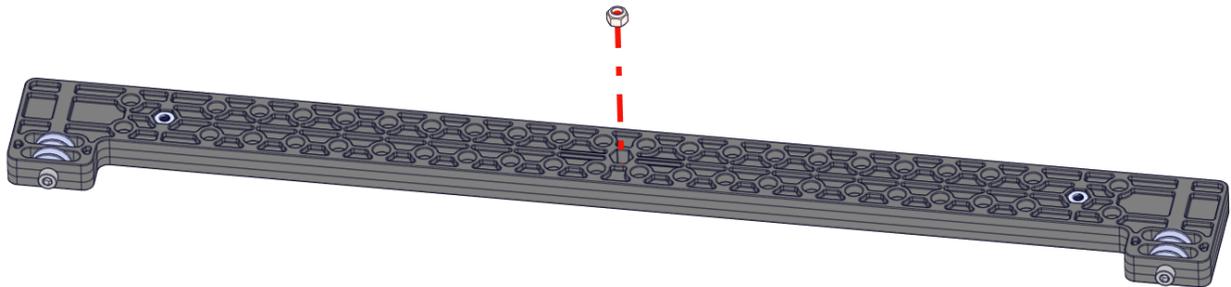
Step 5
Install the new pulley holder assembly on the SAR330 Slide using [2] 5mm M3 Flat Head Cap Screws (am-1724).
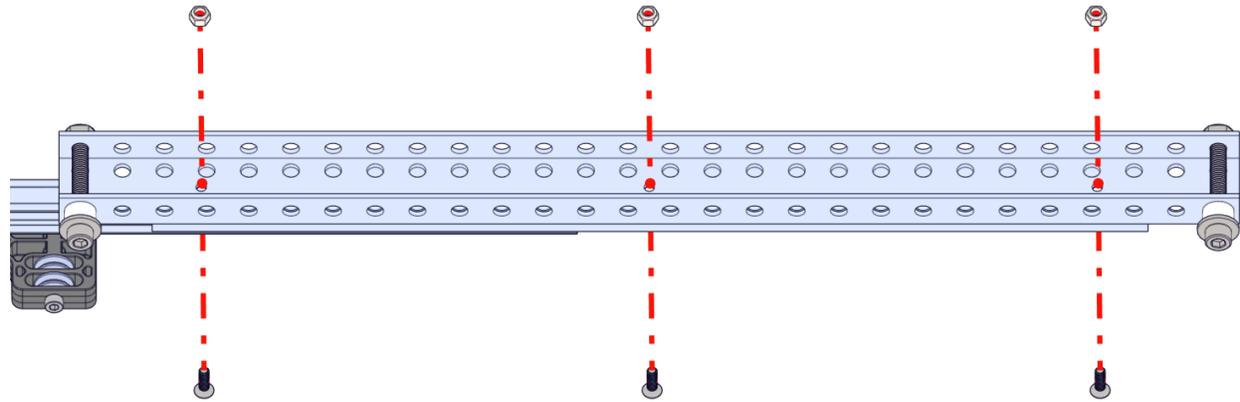

Step 6
Attach the second SAR330 slide from your Add On Kit using [1] 8mm M3 Flat Head Cap Screw (am-1723) and [2] 5mm M3 Flat Head Cap Screws (am-1724).

(am-1724) 5mm M3 FHCS

(am-1723) 5mm M3 FHCS

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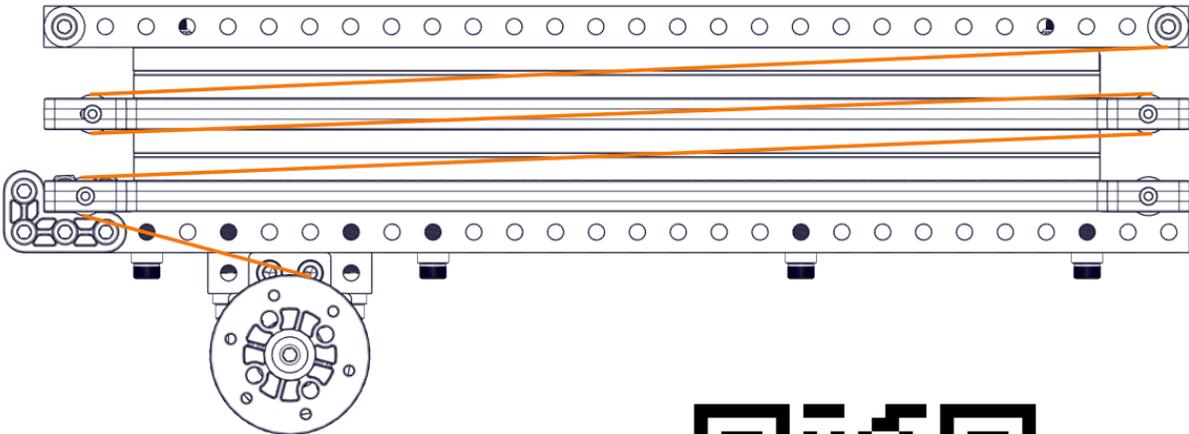
Use the stringing diagrams below to route the up and down strings through the assembly. Remember – the two strings should not share a pulley at any time!

Power Up String (Strung on Pulleys Nearest Assembly)
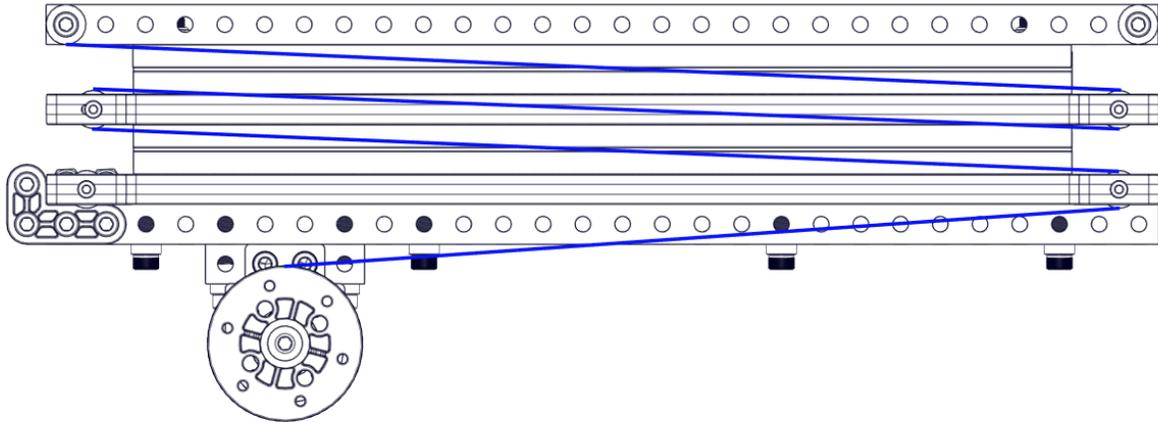
Power Down String (Strung on Pulleys Furthest from Assembly)

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