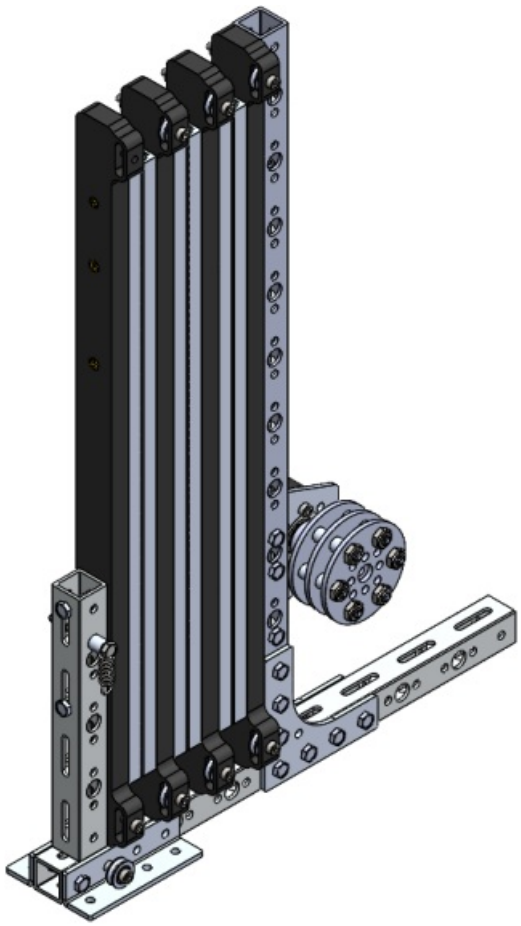
AndyMark am-4846 Compact Linear Slide Installation Guide

Contents

Assembly Guide

Compact Linear Slide

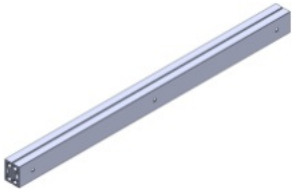
Base Kit (am-4846) and Add-on Stages (am-4848)

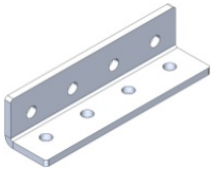


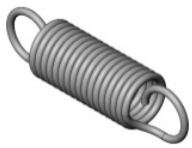
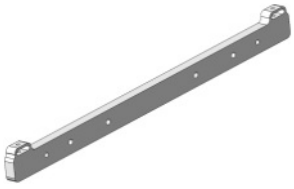
Recommended Tools:

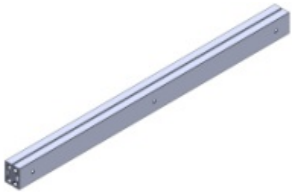
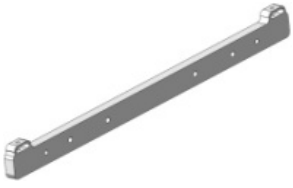
Tool	Product Number	Qty	Product Photo
1/4IN Nut Driver	am-3677	1	
5/16IN Nut Driver	am-1273	1	
Fold Up 12 Set Hex Allen Wrench	am-3864	1	

Parts Used:

Component	Product Number	Qty	Product Photo
Linear Slide Base Kit (am-4846)			
SAR330 Aluminum Slide	am-4837	1	

3mm x 12mm x 4mm V-Groove Bearing	am-4836	3	
M3-0.5 x 35mm Zinc Plated SHCS	am-1671	4	
M3-0.5 x 5mm Steel FHCS	am-1668	4	
M3-0.5 Nylock Nut	am-1023	4	
1.4mm 100′ Spool of Power String	am-3159	1	
0.1875IN OD x 0.115IN ID x 0.1875IN L Nylon Spacer	am-1473	1	
16mm Box Tube | 352mm S3	am-3594-352	1	
16mm Box Tube | 256mm S3	am-3594-256	1	
16mm Box Tube | 128mm S3	am-3594-128	1	
90° Gusset for 53	am-3602	2	
4×1 Angle Gusset for S3	am-4839	2	

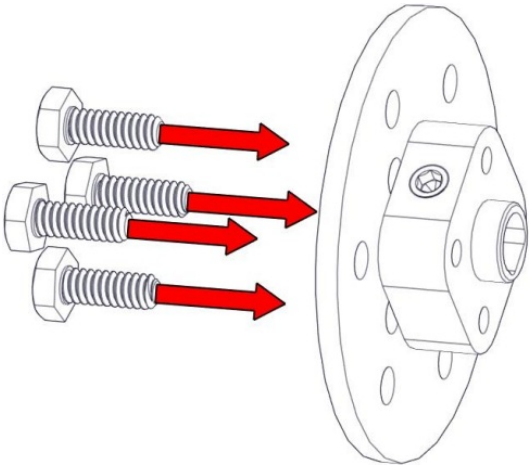
0.141IN ID x 0.250IN OD 0.266IN L Aluminum Spacer	am-1669	1	
NeveRest Orbital and 875 Bearing Mount Plate for S3	am-4642	1	
6-32 x 1IN HHCS	am-1565	15	
6-32 x 1-1/4IN HHCS	am-1566	1	
6-32 Nylock Jam Nut	am-1419	12	
M3-0.5 x 5mm Steel SHCS	am-1443	4	
1IN x 0.25IN x 0.031IN Extension Spring	am-4835	1	
0.257 in. ID 0.625 in. OD 0.500 in. Long Aluminum Spacer	am-3720	1	
NeveRest Orbital 13.7:1 with Encoder	am-4610b	1	
352mm Pulley Mount	am-4838	2	
Double Spool Assembly (am-4849)			
6-32 Nylock Jam Nut	am-1419	6	

Small Pulley Plate	am-4635	3	
6mm D Bore Double Boss Tapped Nub	am-4311	1	
0.141IN ID x 0.250IN OD x 0.266IN L Aluminum Spacer	am-1669	12	
6-32 x 3/8IN HHCS	am-1562	4	
6-32 x 1IN HHCS	am-1565	6	
Add-on Stage Kit (am-4848)			
SAR330 Aluminum Slide	am-4837	1	
3mm x 12mm x 4mm V-Groove Bearing	am-4836	2	
M3-0.5 x 5mm Steel FHCS	am-1668	4	
M3-0.5 x 35mm Zinc Plated SHCS	am-1671	2	
M3-0.5 Nylock Nut	am-1023	2	
352mm Pulley Mount	am-4838	1	

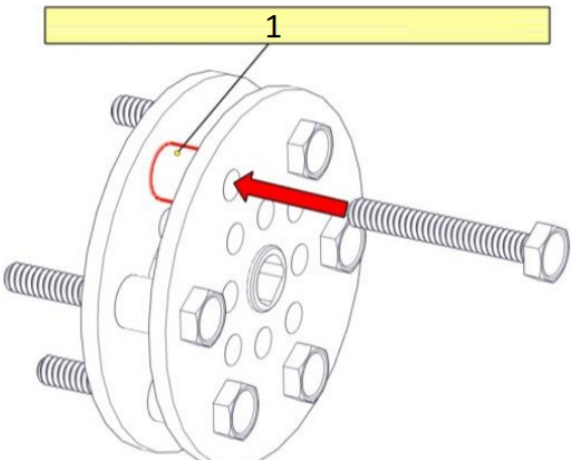
NOTE: STEPS WITH RED BORDERS ARE DIFFERENT WHEN BUILDING WITH ADDITIONAL STAGES. IF YOU INTEND TO CONSTRUCT A LIFT WITH STAGES BEYOND THE BASE KIT'S SINGLE STAGE, PAY CLOSE ATTENTION TO THESE

Assembly

Step 1: Beginning with one of the three small pulley plates (am-4635), attach the 6mm D-bore Nub (am-4311) via four 6-32, 3/8″ long screws (am-1562).

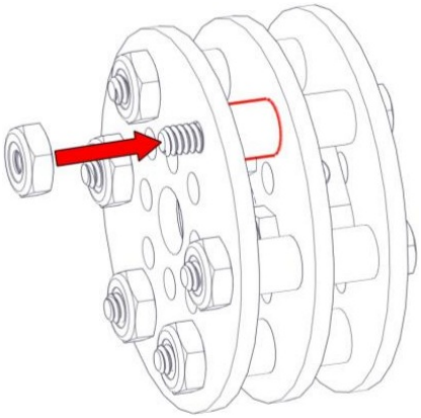


Step 2: Place a second small pulley plate (am-4635) on the other side of the Nub. Between the two plates, place six aluminum spacers (am-1669) and hold them in place with six 1″ long 6-32 screws (am-1565).

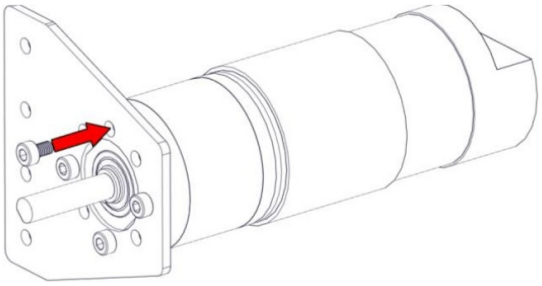


1. am-1669 0.141ID 0.25OD 0.266 Long Aluminum Spacer

Step 3: Place six more spacers (am-1669) on the other side of the first pulley plate (am-4635) on the exposed screws. Place the final pulley plate overtop, then secure with six 6-32 nuts (am-1419).

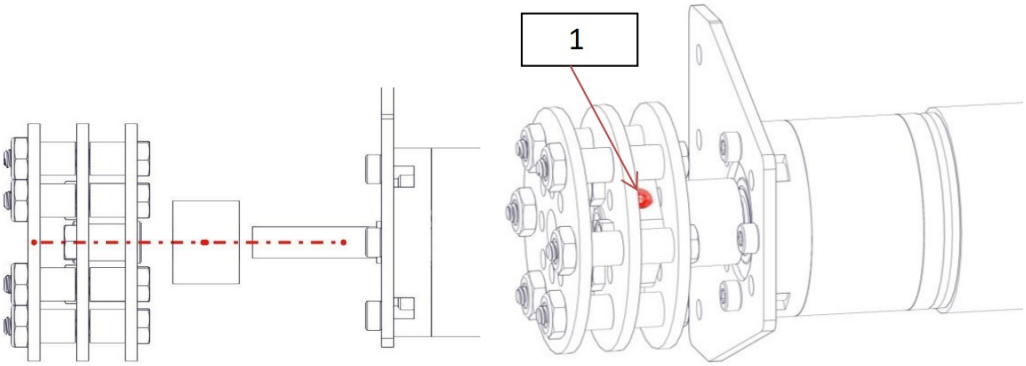


Step 4: Set aside the completed pulley. Connect the NeveRest Orbital Mount Plate (am-4642) to the NeveRest Orbital Gearmotor (am-4610b) using four 5mm M3 screws (am-1443).



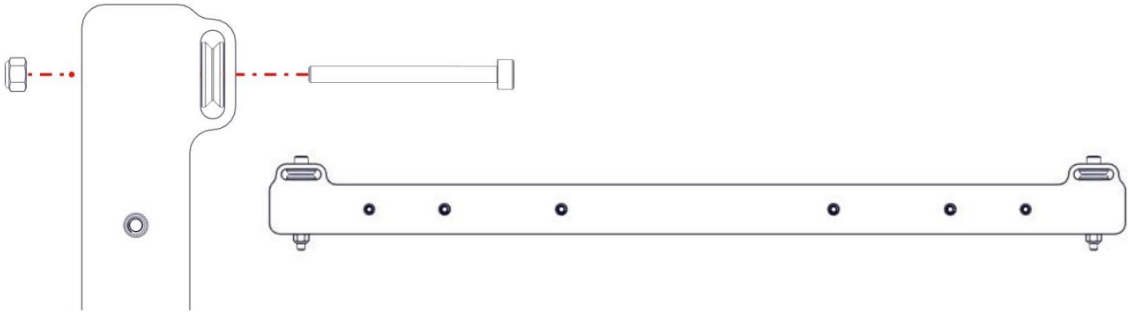
NOTE: AndyMark recommends the use of threadlocker (am-3171) when attaching these screws.

Step 5: Fit the 1/2″ aluminum spacer (am-3720) over the motor shaft. Then place the assembled pulley from step 3 on the motor shaft, and tighten the nub setscrew to secure it.



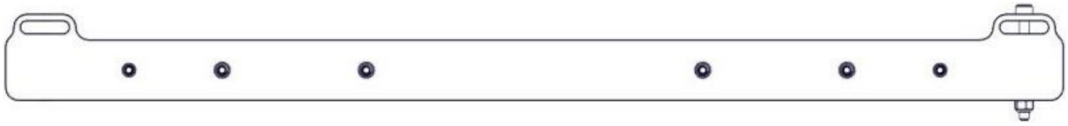
1. Set Screw

Step 6: On **both** ends of a Pulley Mount (am-4838), use a single 35mm M3 screw (am-1671) to hold a V-Groove Bearing (am-4836) in the provided slot. Use an M3 nut (am-1023) to secure it in place.

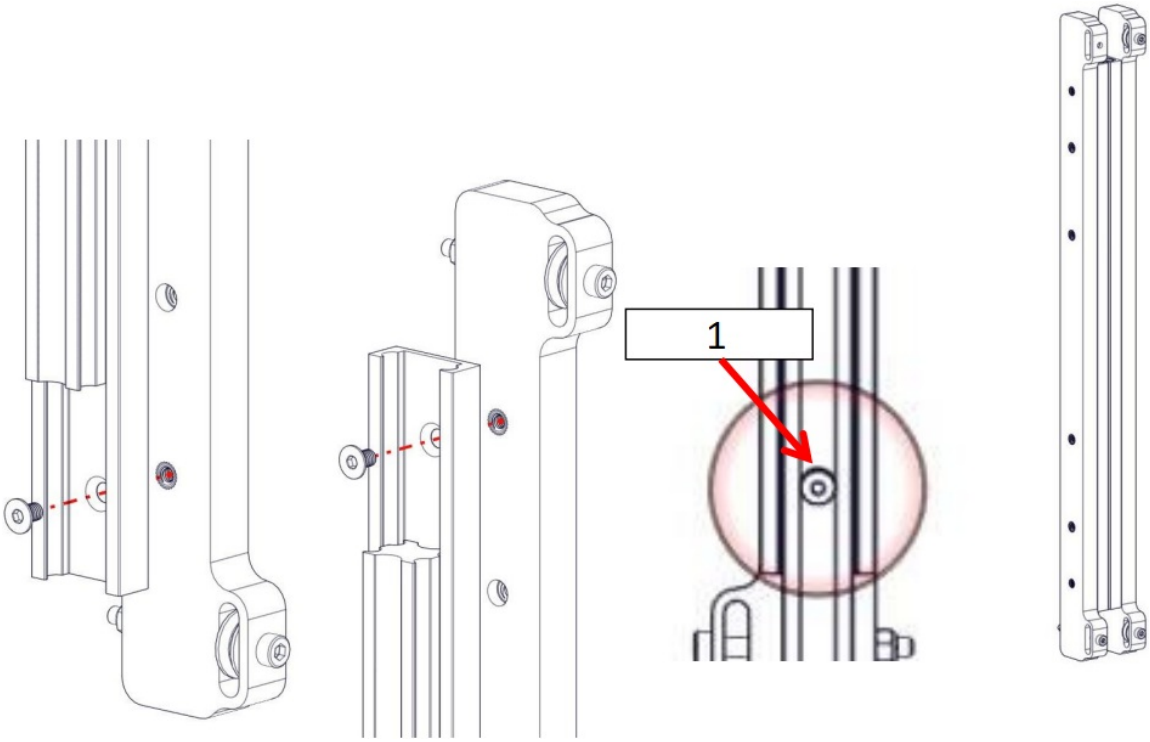


NOTE: If you intend to add more stages, repeat this step for as many stages as you intend to add!

Step 7: On one other Pulley Mount (am-4838), put a 35mm M3 screw (am-1671) through just **one** of the slots and secure it with an M3 nut (am-1023). The second Pulley Mount should match the image below.



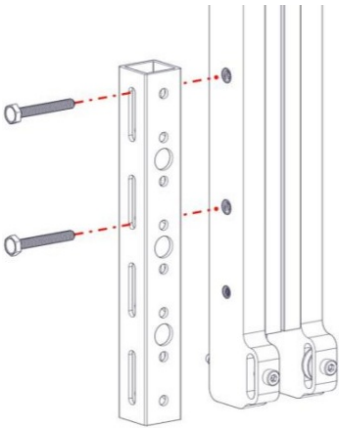
Step 8: Connect the SAR330 slide (am-4837) to the Pulley Mounts from steps 7 & 8 using two 5mm M3 screws (am-1668) **each** by moving the slider slightly to reveal the countersunk holes at either end as shown. One of these screws can only be accessed via a through-hole when fully extended. **Ensure pulleys are all on the same side.**



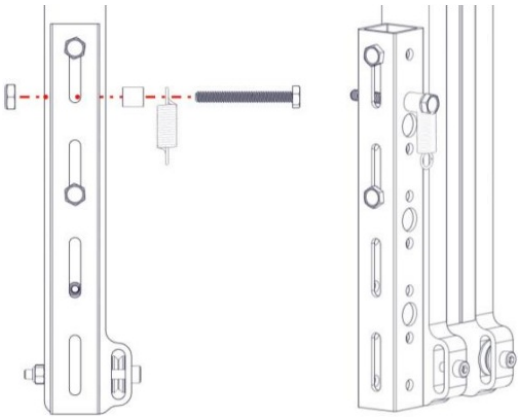
1. Through-Hole

NOTE: AndyMark recommends the use of threadlocker (am-3171) when attaching these screws.

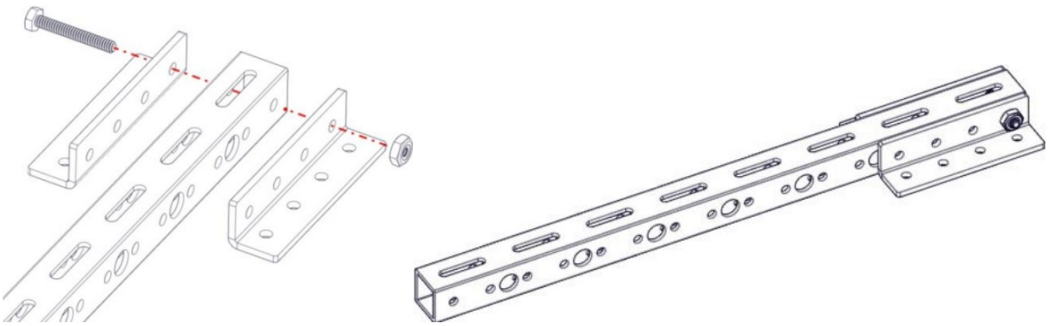
Step 9: Attach the final S3 tube (am-3594-128) to the bottom of the Pulley Mount with no bearings using two 1″ long 6-32 screws (am-1565).



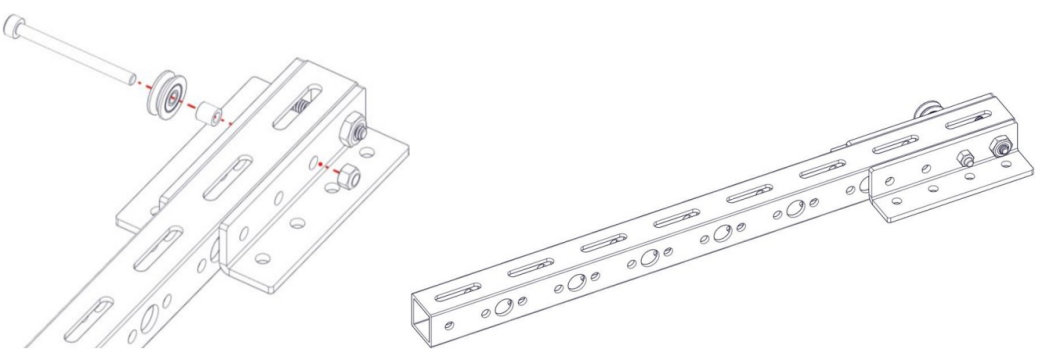
Step 10: Slide the spring (am-4835) and 0.266″ aluminum spacer (ann-1669) over a 1 and 1/4″ 6-32 bolt (am-1566) and slide the assembly through the S3 tube from Step 12. Secure with a 6-32 nut (am-1419).



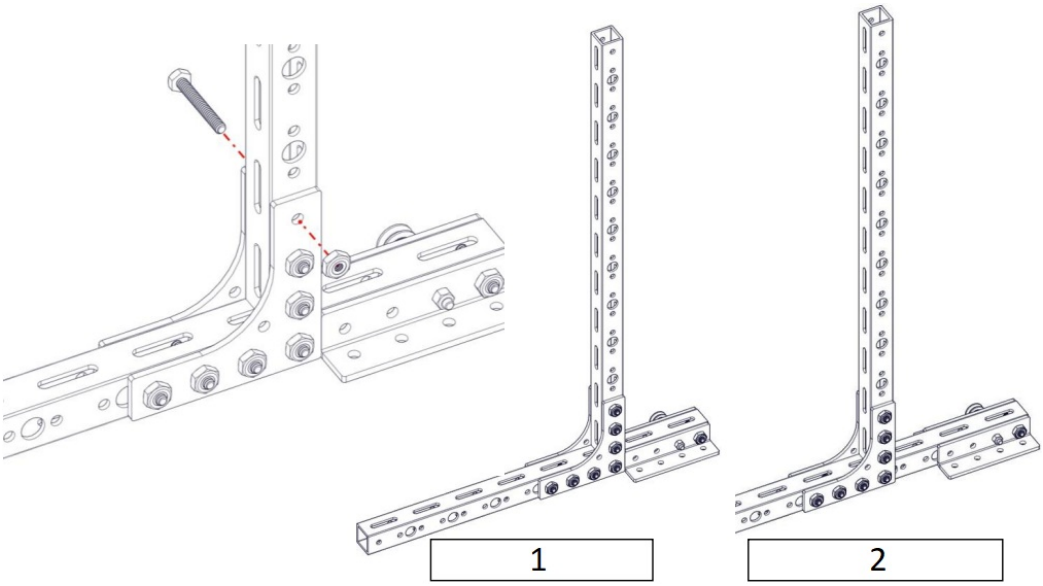
Step 11: Attach the 4×1 Angle Gussets (am-4839) to the 256mnn S3 tube (am-3594-256) using a single 1″ long 6-32 screw (am-1565) and 6-32 nut (am-1419).



Step 12: Slide a V-groove bearing (am-4836) and 0.1875″ nylon spacer (am-1473) over a 35mm M3 screw (am-1671). Slide the screw through the assembled base and secure it with an M3 nut (am-1023). Be sure not to crush the nylon spacer.



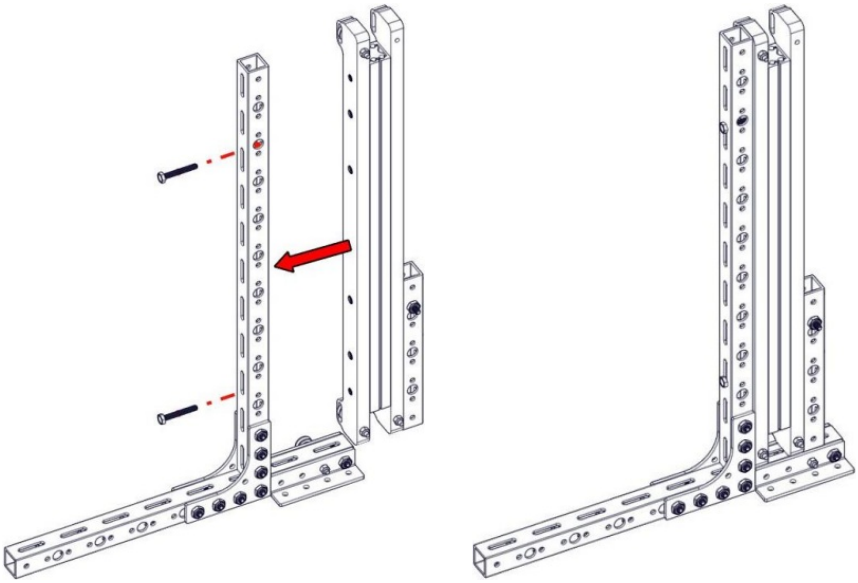
Step 13: Attach the longest 53 tube (am-3594-35A to the base created in step 6 by running seven 1″6-32 screws (am-1565) through the tube and two 90° gusset plates (am-3602) positioned on either side of the base. Secure with two 6-32 nuts (am-1419).



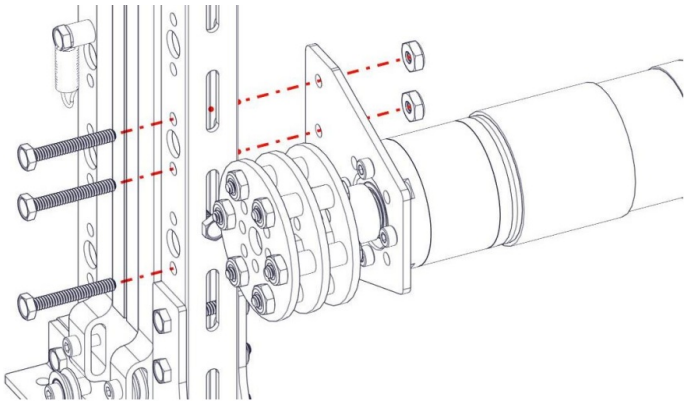
1. Default Configuration
2. Two-Stage Configuration

NOTE: If adding additional stages, shift the upright further away from the angle gusset by 2 holes for each additional stage.

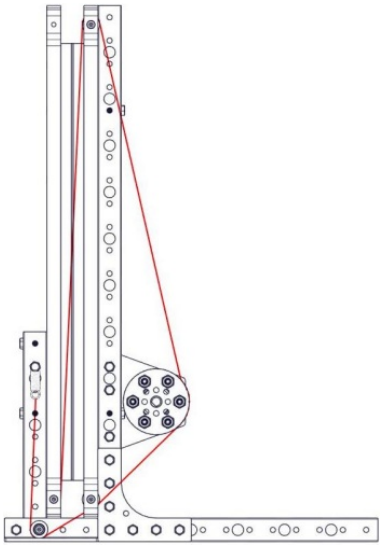
Step 14: Attach the completed slide assembly to the base assembly from step 8 using two 1″ 6-32 screws (am-1565) screwed into the threaded inserts in the first pulley mount as shown.



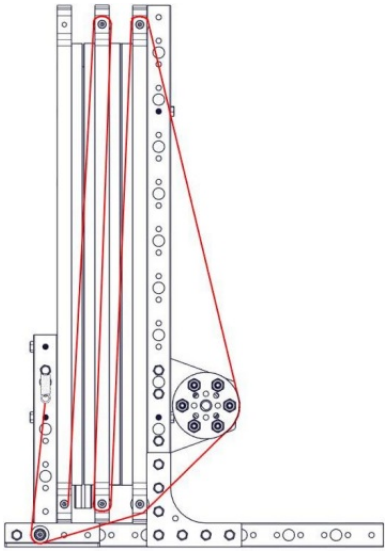
Step 15: Attach the completed motor assembly from step 5 to the main assembly with three 1″6-32 screws (am-1565) and secure with 6-32 nuts (am-1419).



Step 16: To attach the string to the Compact Linear Slide and complete it for use, follow the instructions at the **video available via the QR code below**.



Default Configuration



Multi-Stage Configuration

AndyMark

9-9-2022

Documents / Resources

	**AndyMark am-4846 Compact Linear Slide** [pdf] Installation Guide am-4846 Compact Linear Slide, am-4846, Compact Linear Slide, Linear Slide, Slide