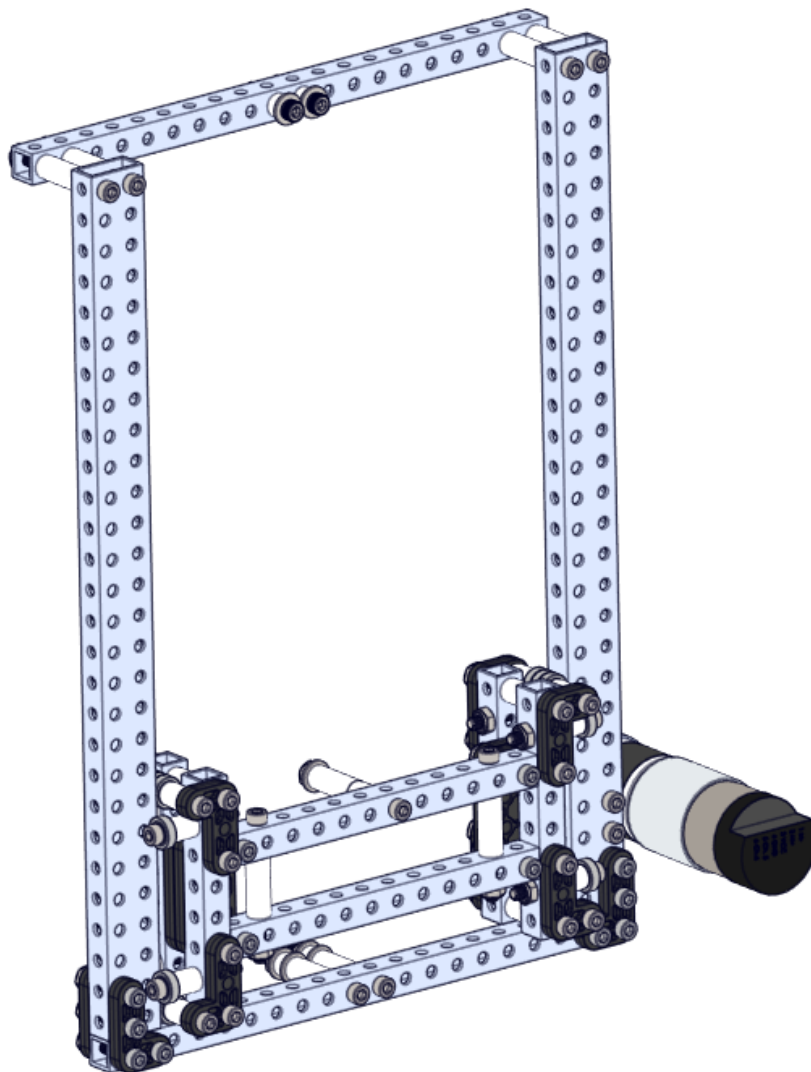


AndyMark[®]

ROBITS 1 Stage Lift

(am-5166)

Assembly Guide



Revision #	Date	Author	Purpose
0	12/16/2024	E. Scime	Original Document

P. Yeung	12/17/24
Reviewer Name	Date Reviewed

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Parts & Tools

Recommended Tools List

Component	Part #	QTY	Photo
5/32" Ball End Hex Driver	am-2751	1	
3/32" Ball End Hex Driver	am-3173	1	
3/8 Combination Wrench	am-4961	1	

Parts List

Component	Part #	QTY	Photo
1.5" 10-32 Socket Head Cap Screw	am-1014	8	
#10 Washer	am-1026	7	
1.25" 10-32 Socket Head Cap Screw	am-1041	12	
1.75" 10-32 Socket Head Cap Screw	am-1048	2	
1" 10-32 Socket Head Cap Screw	am-1056	2	
10-32 Nylock Jam Nut	am-1063	45	
2.25" 10-32 Socket Head Cap Screw	am-1156	21	



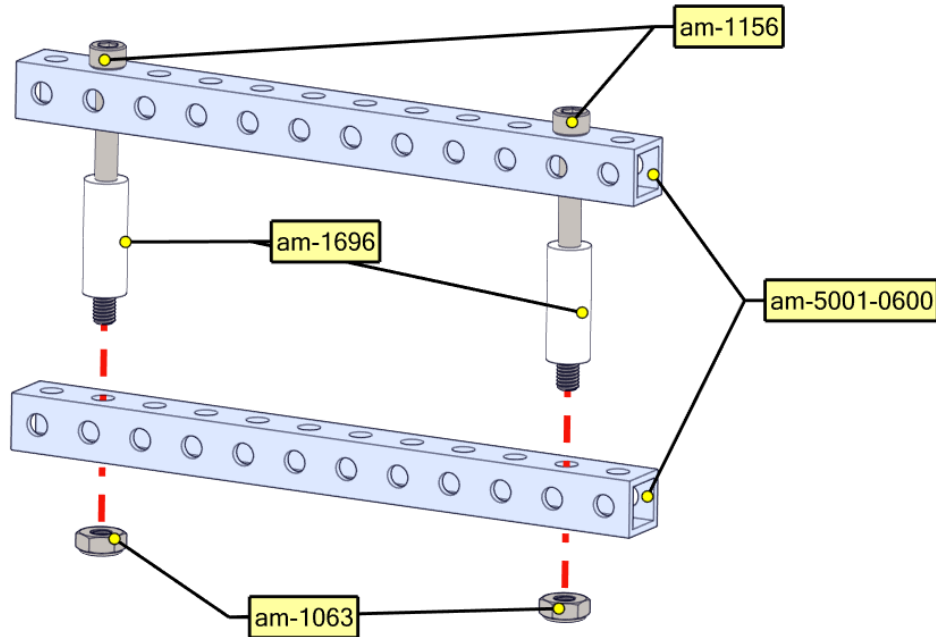
Component	Part #	QTY	Photo
8mm M3 Socket Head Cap Screw	am-1500	4	
0.194 in. ID 0.375 in. OD 1.000 in. Long Nylon Spacer	am-1696	9	
0.194 in. ID 0.375 in. OD 0.500 in. Long Nylon Spacer	am-1697	21	
0.194 in. ID 0.375 in. OD 0.250 in. Long Nylon Spacer	am-1700	4	
Power String, 1.4MM, 100' Spool	am-3159	1	
6 mm D to Hex Adapter	am-3444	1	
0.192 in. ID 0.375 in. OD 0.750 in. Long Nylon Spacer	am-4107	2	
13.7:1 NeveRest Orbital Gearmotor	am-4610b	1	
5mm Unflanged Bearing	am-4724	20	
0.5in. x 0.5in. x 4in. Robits Tubes	am-5001-0400	4	

Component	Part #	QTY	Photo
0.5in. x 0.5in. x 6in. Robits Tubes	am-5001-0600	2	
0.5in. x 0.5in. x 10in. Robits Tubes	am-5001-1000	2	
Robits L Gusset	am-5004_2x3	12	
Robits 2x4 Plate Gusset	am-5006_2x4	4	
Robits Motor Mount	am-5012	1	
1in. x 0.5in. x 14in. Robits Tubes	am-5026-1400	2	
Small Robits Spool	am-5027	2	

Assembly

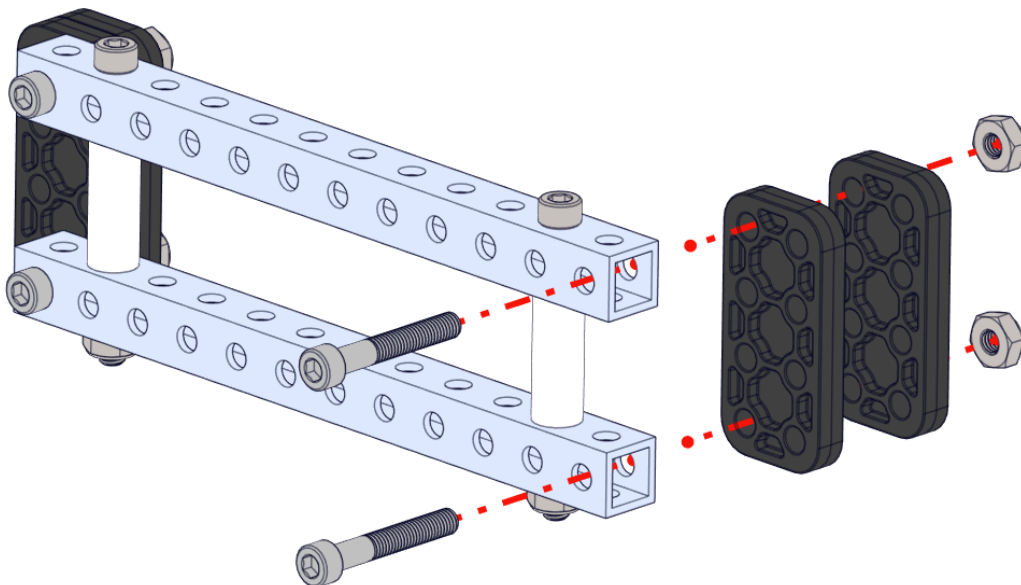
Step 1

Install [2] 1" screw spacers (am-1696) between [2] 0.5" x 0.5" x 6" tubes (am-5001-0600) using [2] 2.25" 10-32 screws (am-1156) and [2] 10-32 nylock nuts (am-1063).



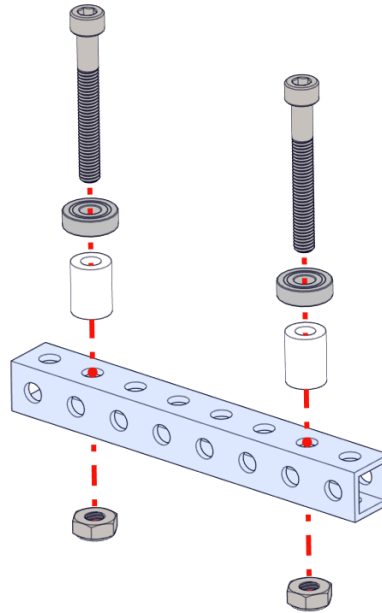
Step 2

Fasten [2] 2x4 plates (am-5006_2x4) with [2] 1.25" 10-32 screws (am-1041) and [2] 10-32 nylock nuts (am-1063) to each side of the assembly as shown.



Step 3

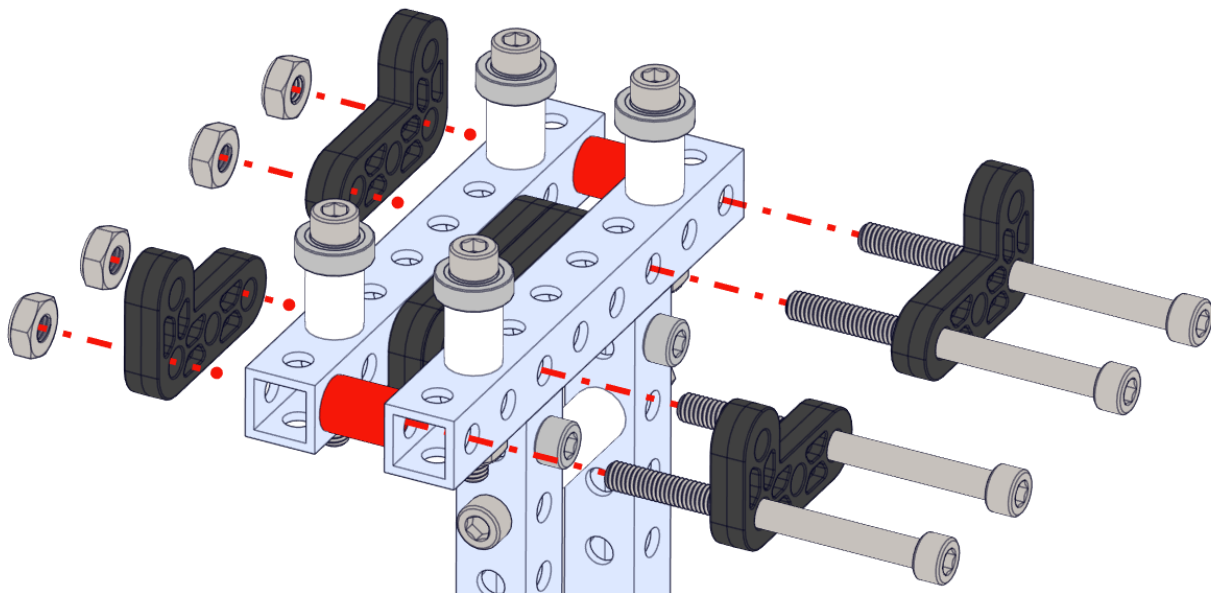
Install [2] bearings (am-4724) and [2] 0.5" screw spacers (am-1697) on a 0.5" x 0.5" x 4" tube (am-5001-0400) with [2] 1.5" 10-32 screws and [2] 10-32 nylock nuts. Do this twice. Do not completely tighten these screws. They will be tightened during the carriage installation later.



2X

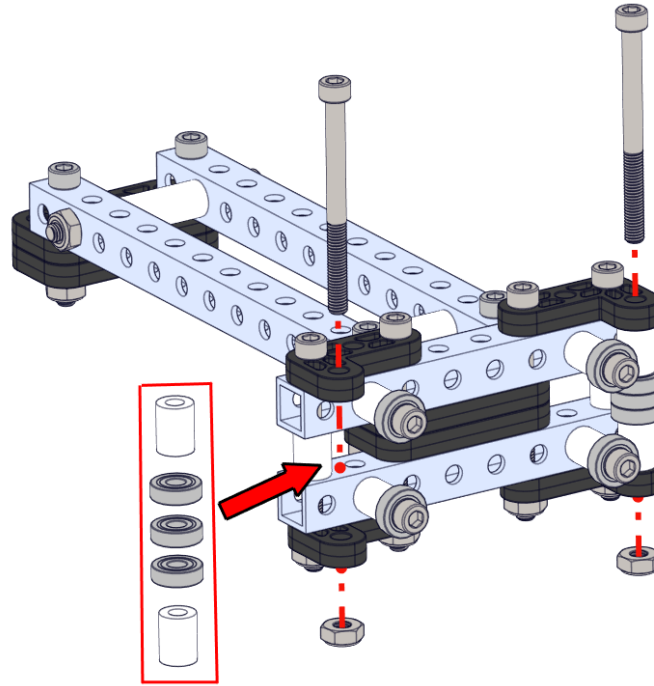
Step 4

Fasten the assemblies created in Step 3 to the assembly from Step 2 by affixing them to the 2x4 plates with [4] 2.25" 10-32 screws (am-1156) and 10-32 nylock nuts (am-1063). Slip on [4] 2x3 L gussets (am-5004_2x3) and [2] 0.5" screw spacers onto the screws as shown.



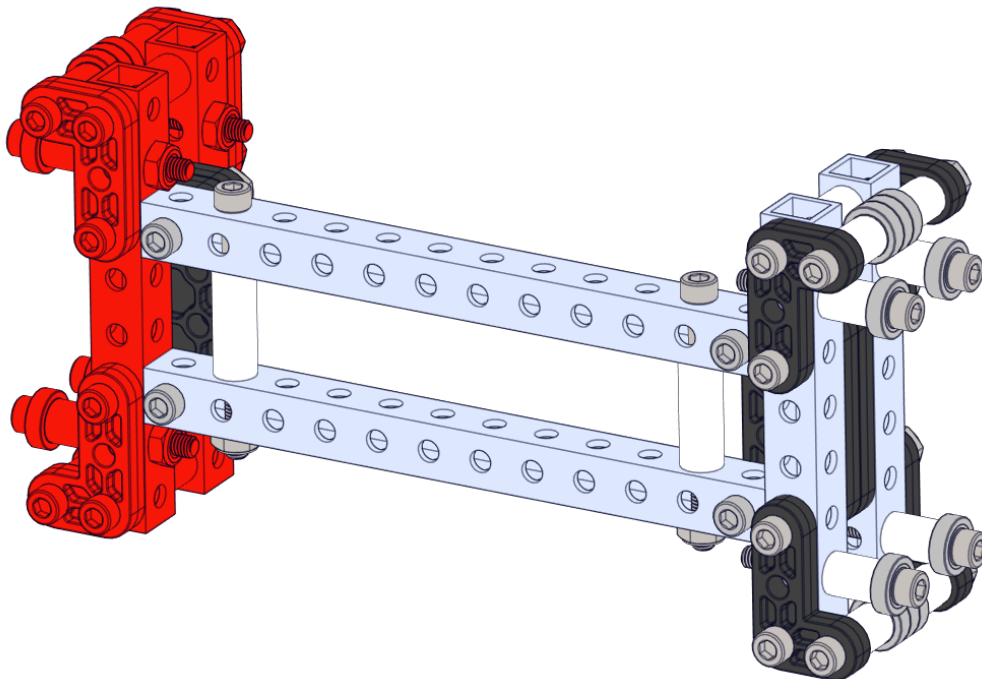
Step 5

Create [2] stacks of [2] 0.5" screw spacers (am-1697) and [3] bearings (am-4724) each. Pin them in place on the assembly using [1] 2.25" 10-32 screw and [1] 10-32 nylock nut (am-1063) each through the remaining holes in the L-gussets as shown. Do not completely tighten these screws. They will be tightened during the carriage installation later



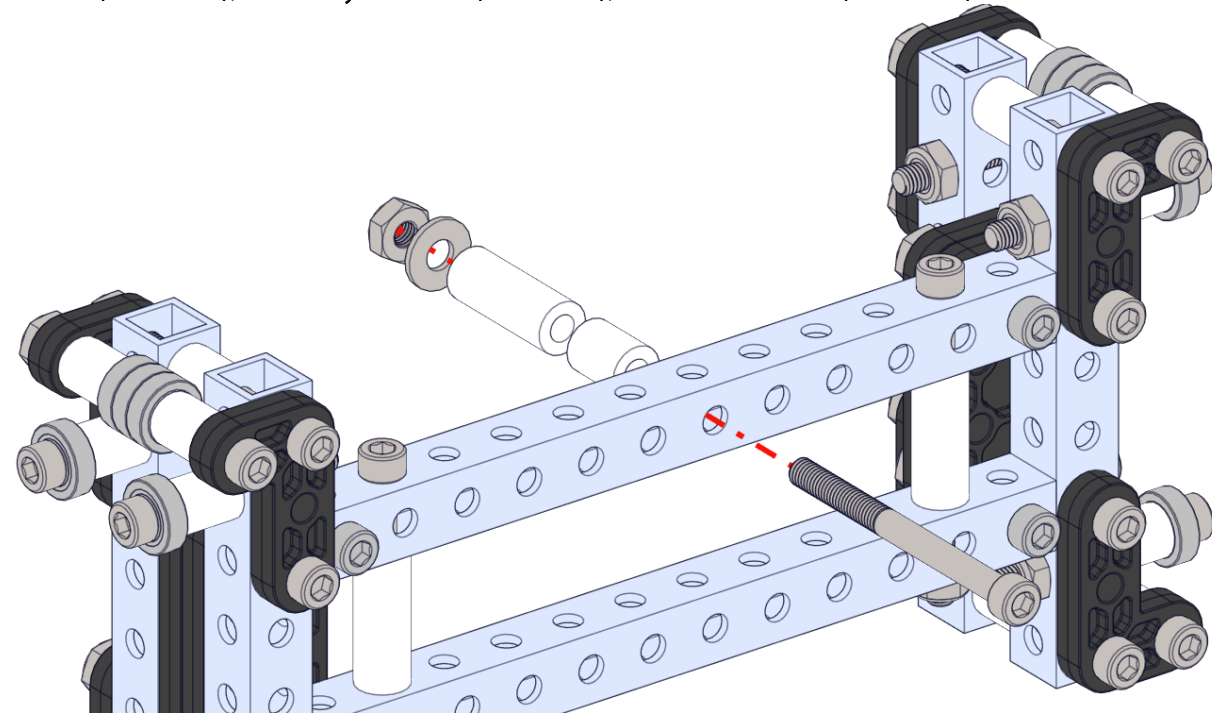
Step 6

Repeat steps 3-5 to construct the other side of the carriage assembly.



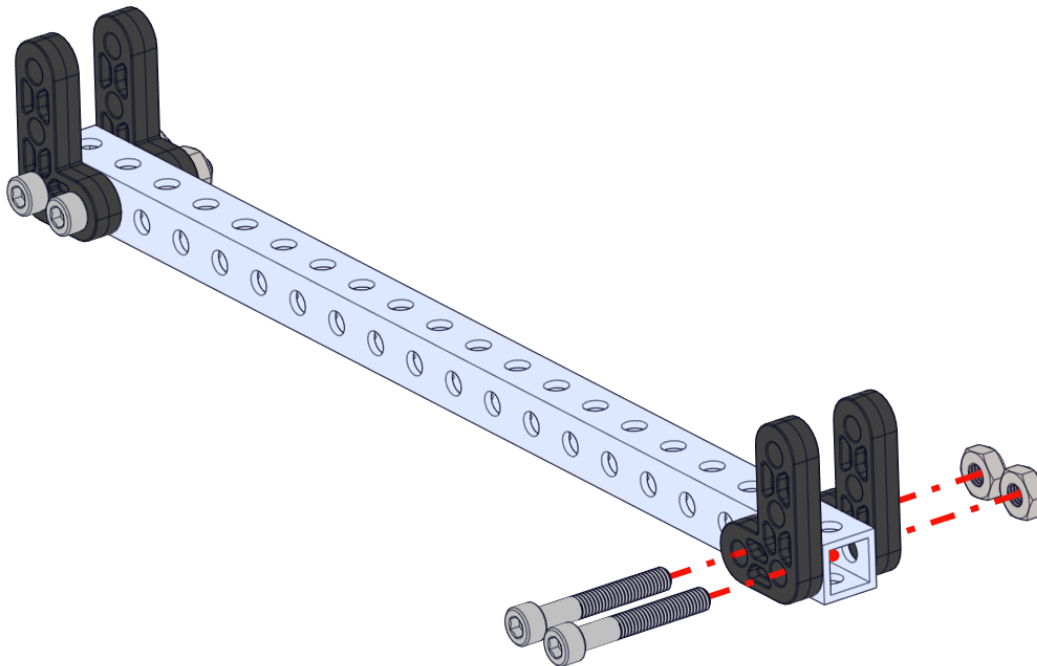
Step 7

Install [1] 0.5" screw spacer (am-1697) and [1] 1" screw spacer (am-1696) using a 2.25" 10-32 screw (am-1156), 10-32 nylock nut (am-1063), and #10 washer (am-1026).



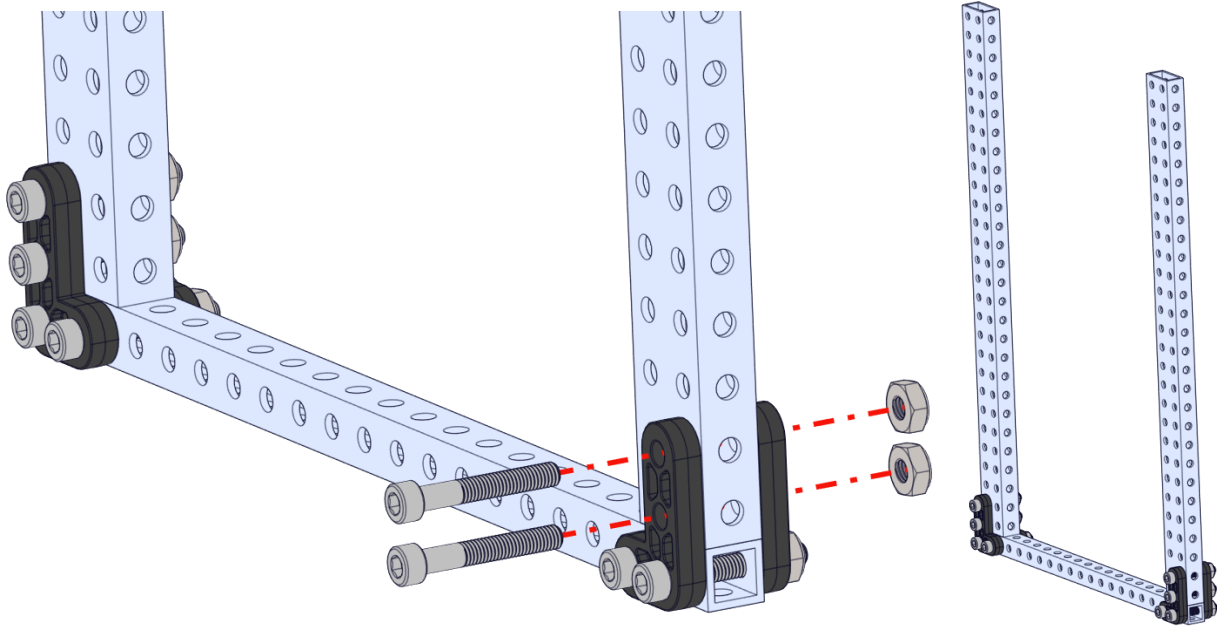
Step 8

Set the carriage assembly aside for now. Attach [4] 2x3 L-gussets (am-5004_2x3) to a 0.5" x 0.5" x 10" tube (am-5001-1000) using [4] 1.25" 10-32 screws (am-1041) and [4] 10-32 nylock nuts (am-1063).



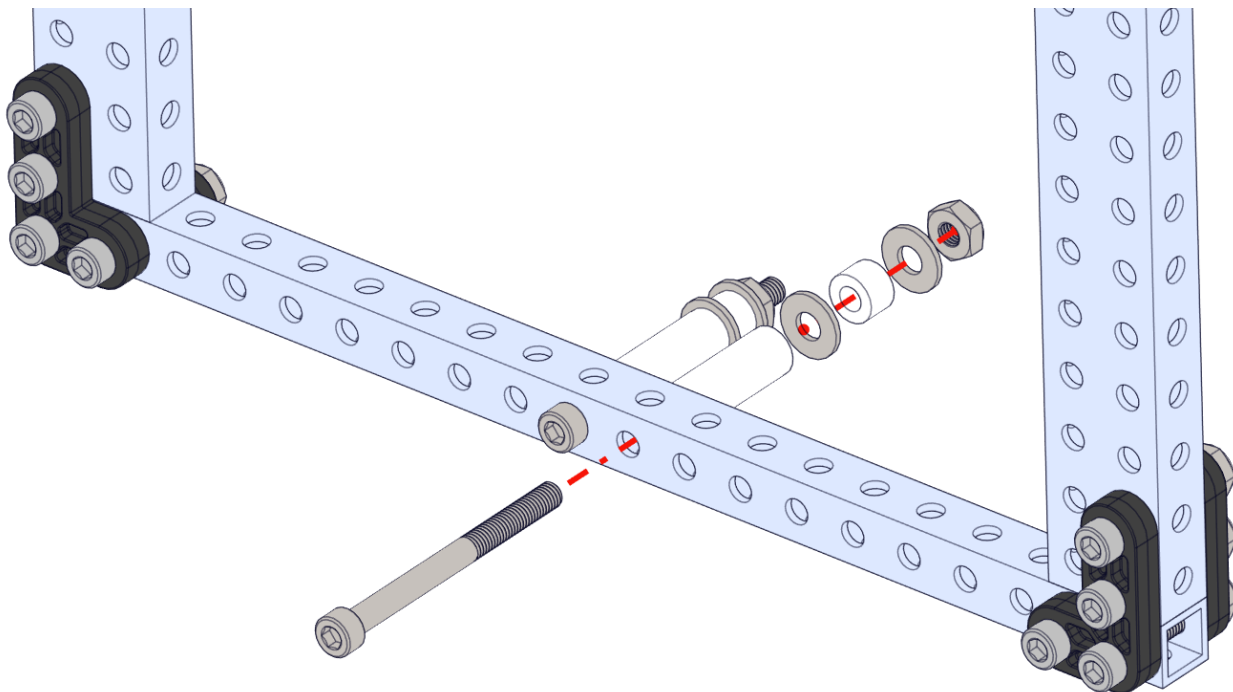
Step 9

Attach [2] 1" x 0.5" x 14" tubes (am-5026-1400) using [4] 1.25" 10-32 screws (am-1041) and [4] 10-32 nylock nuts (am-1063).



Step 10

At the middle two holes of the 10" tube, install [2] stacks of a 1" screw spacer (am-1696), #10 washer (am-1026), 0.25" screw spacer (am-1700), and #10 washer using a 2.25" 10-32 screw (am-1156) and 10-32 nylock nut (am-1063).



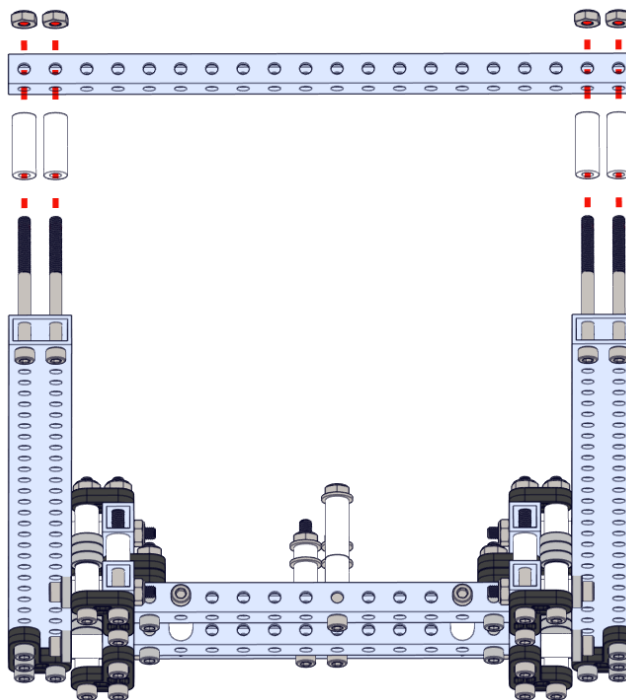
Step 11

Insert the carriage assembly into the frame as shown.



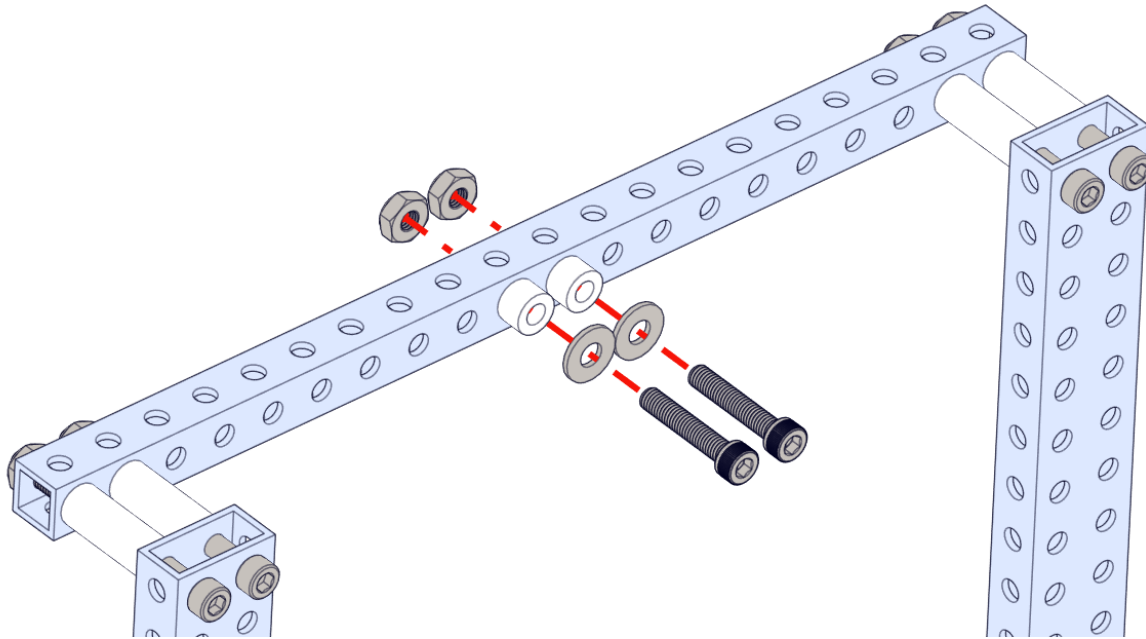
Step 12

Fasten [1] 0.5" x 0.5" x 10" tube (am-5001-1000) to the top of the frame using [4] 2.25" 10-32 screws (am-1156), [4] 1" screw spacers (am-1696), and [4] 10-32 nylock nuts (am-1063).



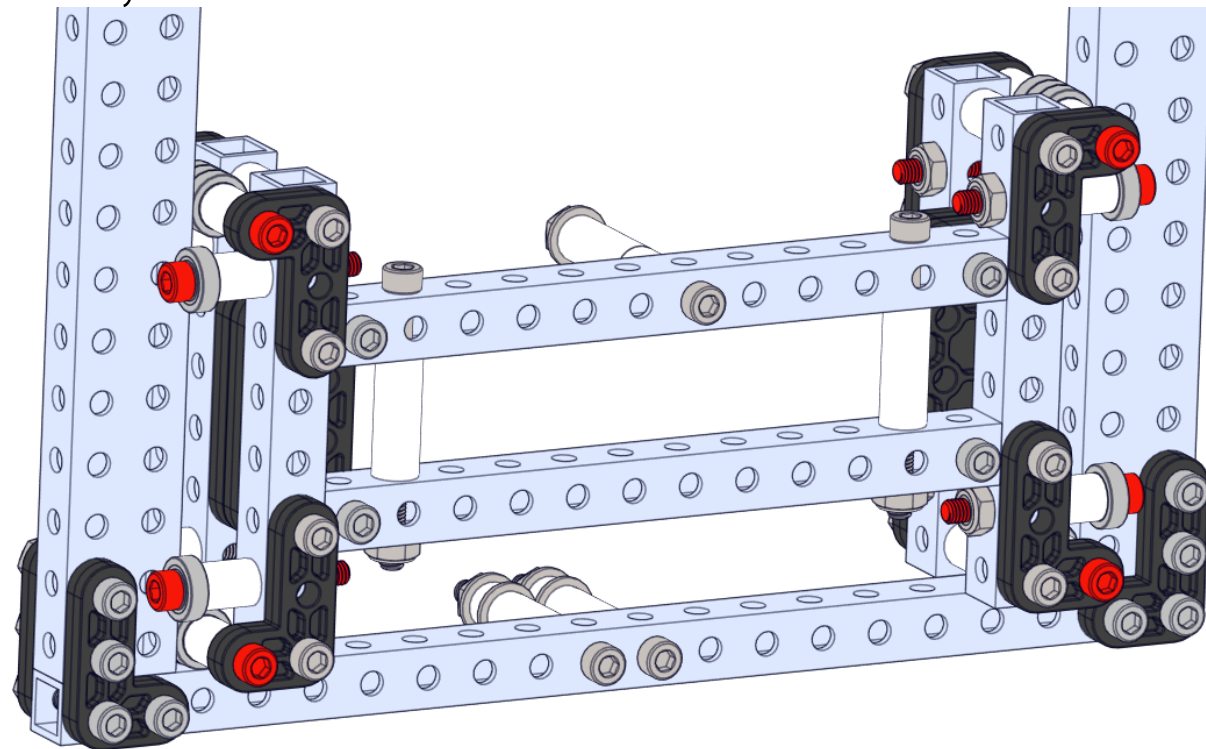
Step 13

Install [2] 0.25" screw spacers (am-1700) to the top of the frame using [2] 1" 10-32 screws (am-1056), [2] #10 washers (am-1026), and [2] 10-32 Nylock nuts (am-1063).



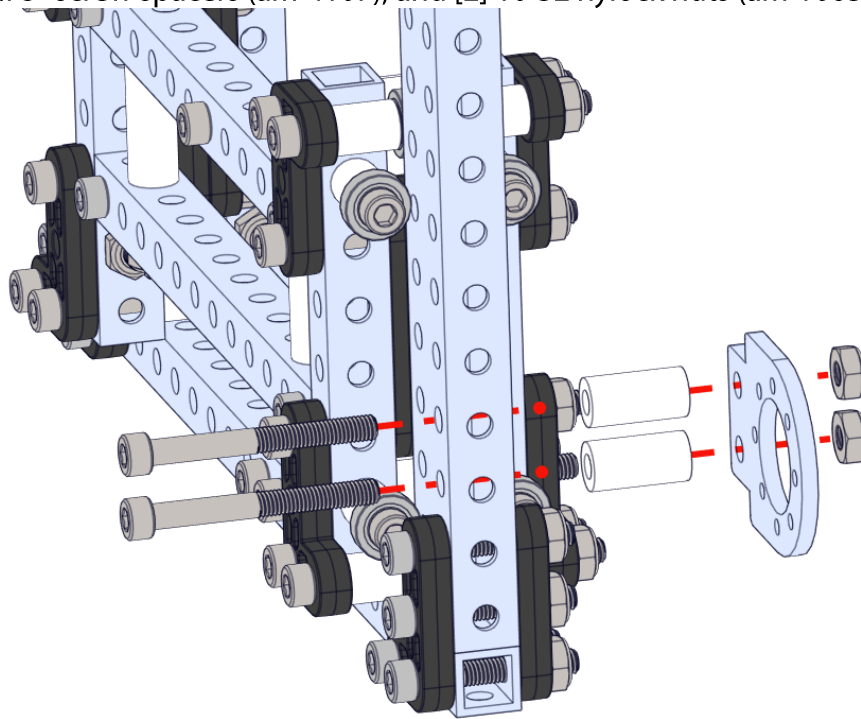
Step 14

Tighten the fasteners pointed out in Steps 3 and 5 and verify the carriage slides up and down smoothly.



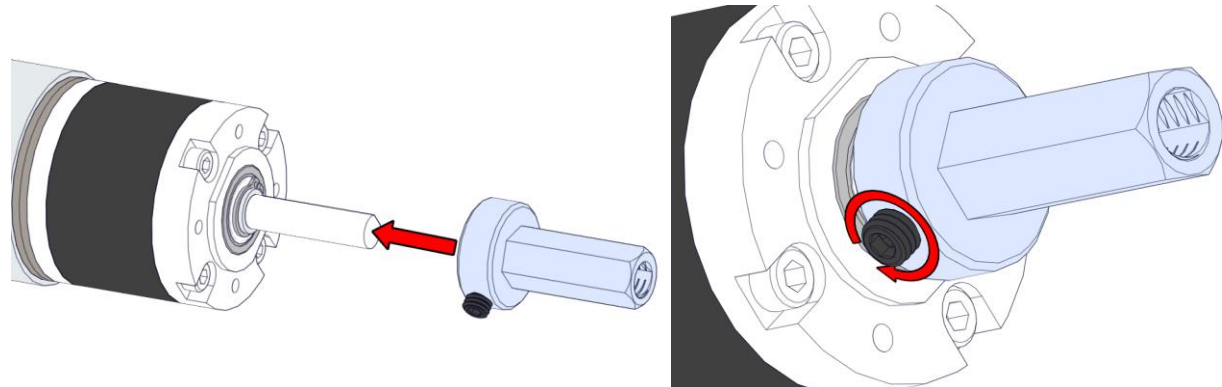
Step 15

Install a motor bracket (am-5012) to the side of the frame using [2] 1.75" 10-32 screws (am-1048), [2] 0.75" screw spacers (am-4107), and [2] 10-32 nylock nuts (am-1063).



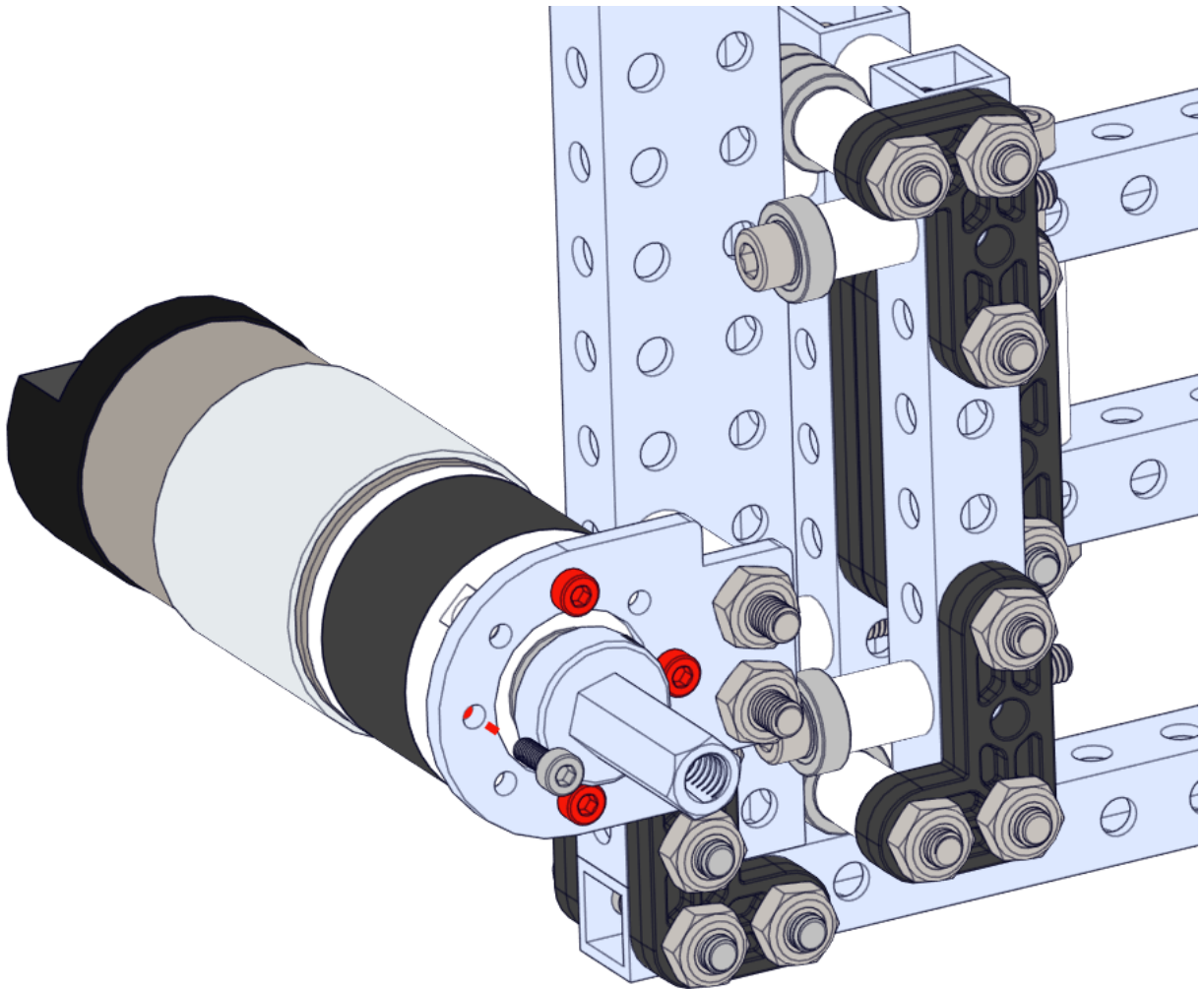
Step 16

Attach the NeveRest to 3/8" hex adapter by slipping it over the shaft and tightening the set screw as shown.



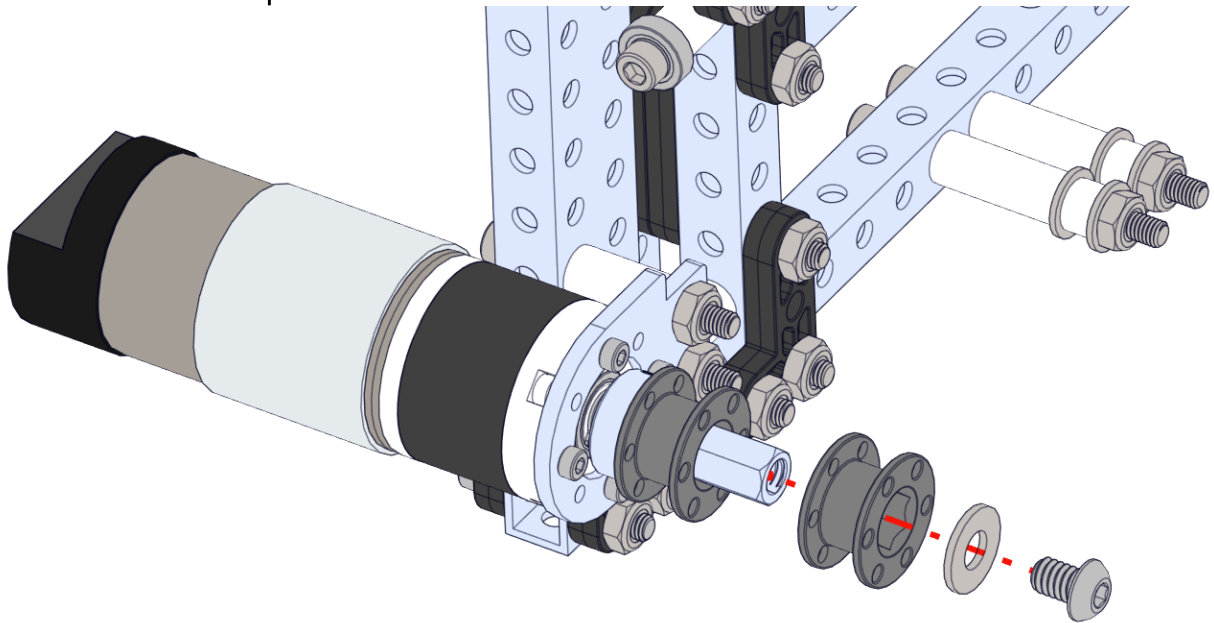
Step 17

Install one NeveRest Orbital gearmotor to the motor mount plate using [4] M3 8mm patched screws (am-1500).



Step 18

Install [2] spools (am-5027) onto the motor shaft and retain with the 0.25" washer and screw provided with the adapter.



Step 19

String the elevator according to [this video guide](#).

