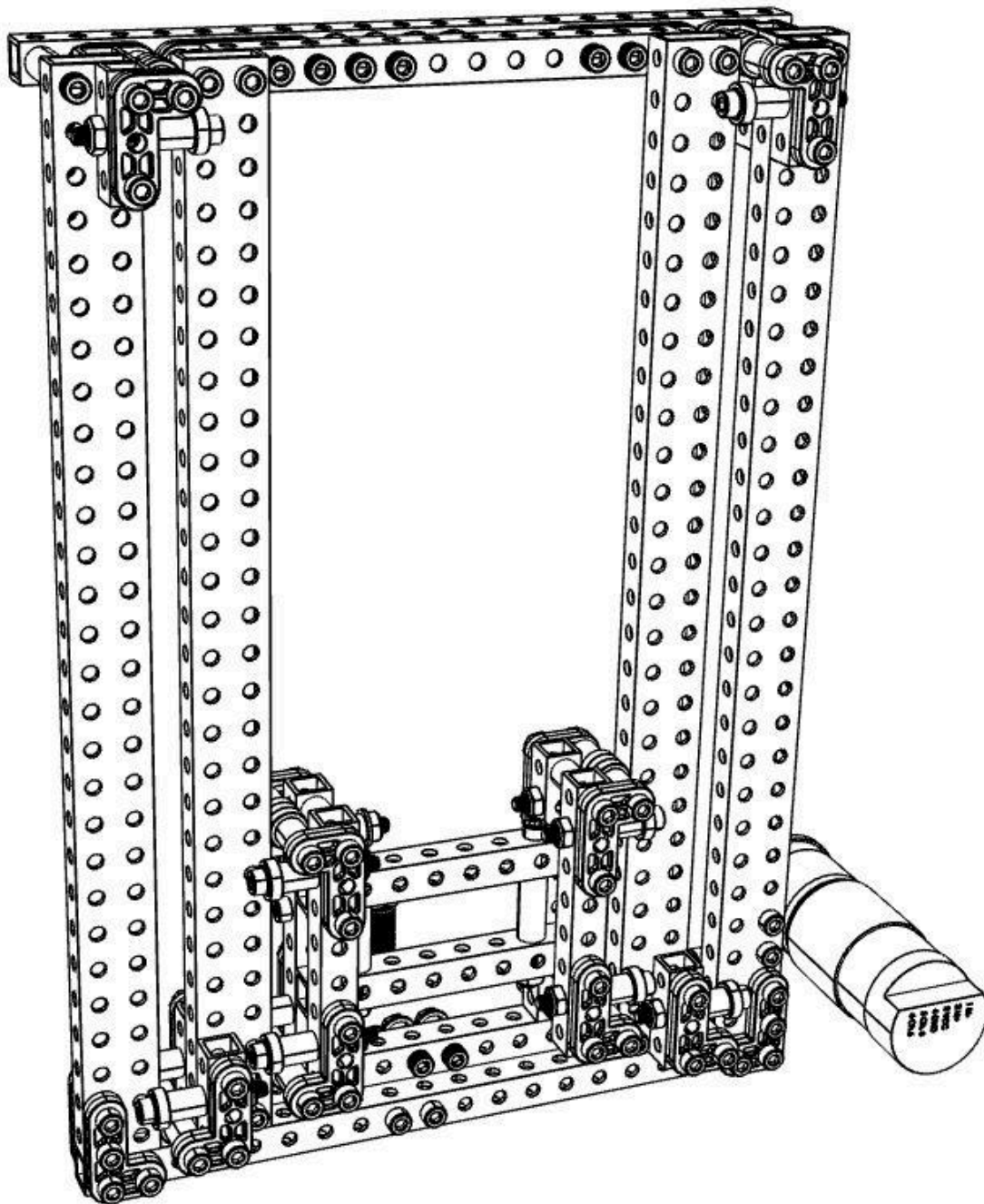
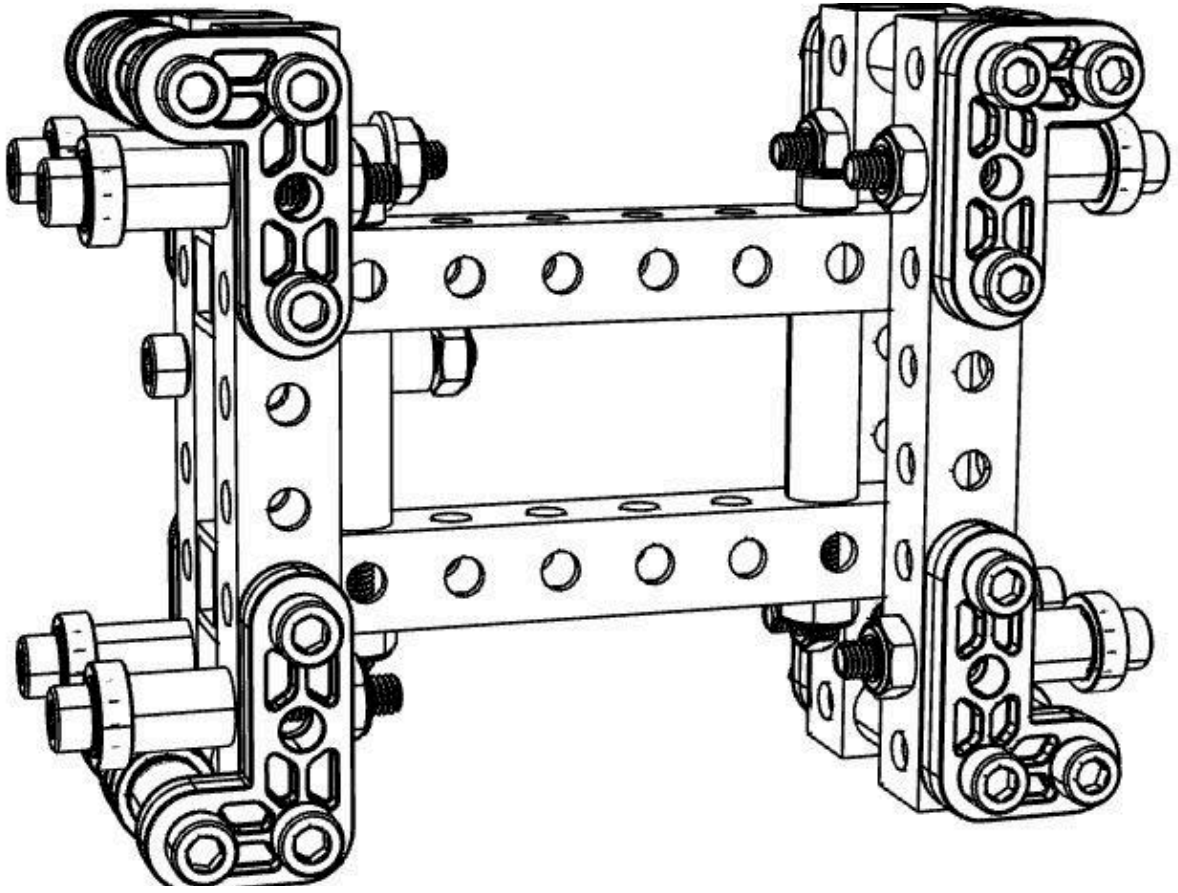


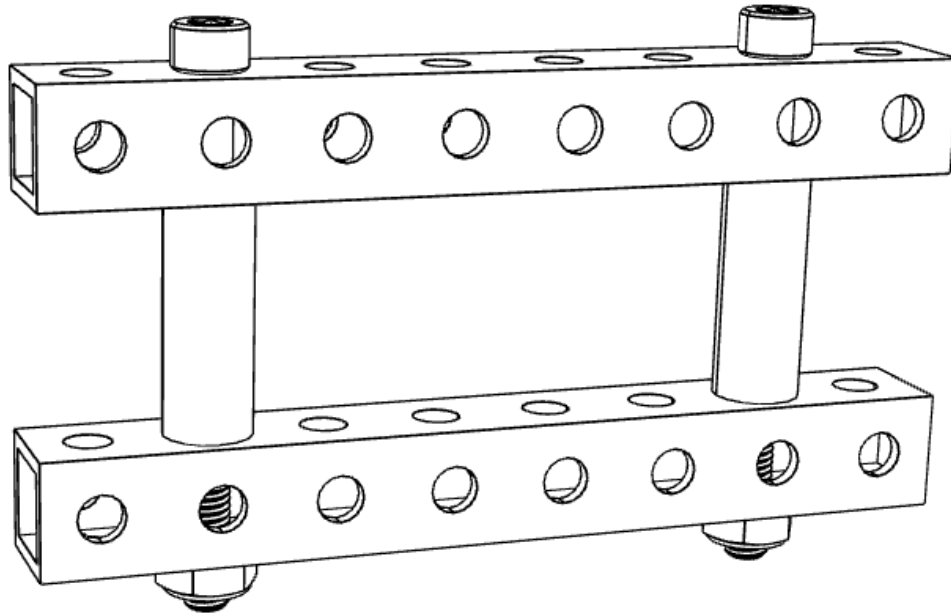
# Robits 2 Stage Lift Assembly Guide



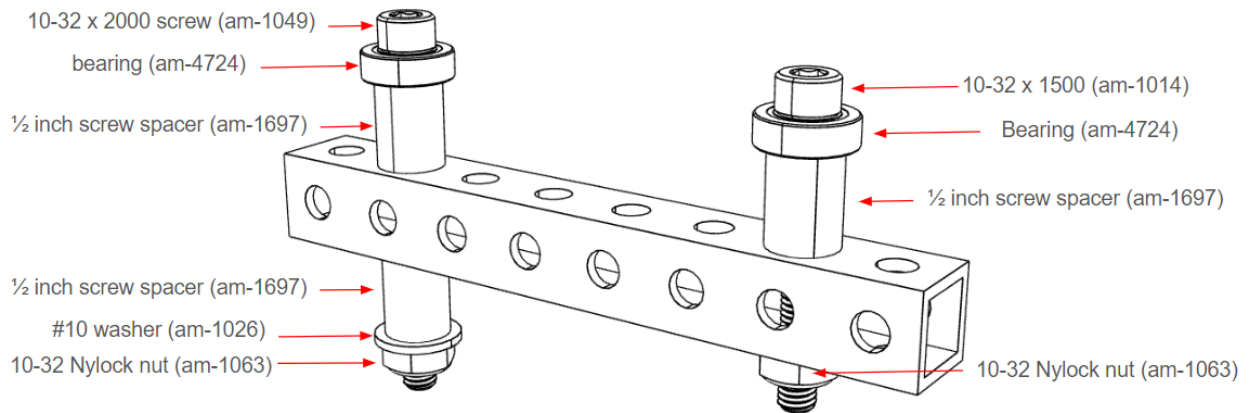
# Carriage Assembly



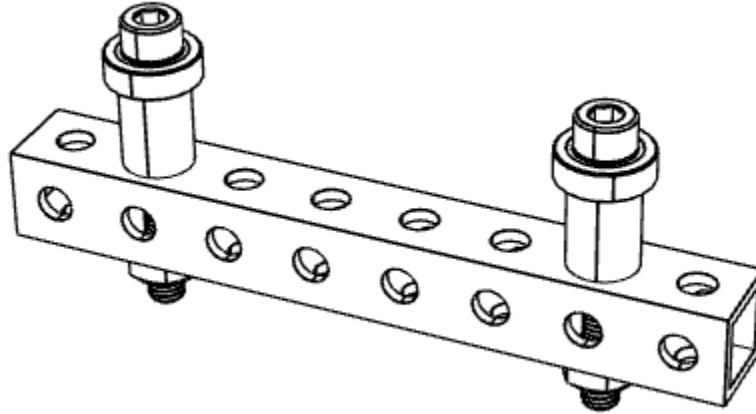
Install two 1 inch spacers (am-1696) between two 0.5 x 0.5 x 4.0 inch tubes (am-5001-0400) using two 10-32 x 2250 screws (am-1156) and two 10-32 Nylock nuts (am-1063).



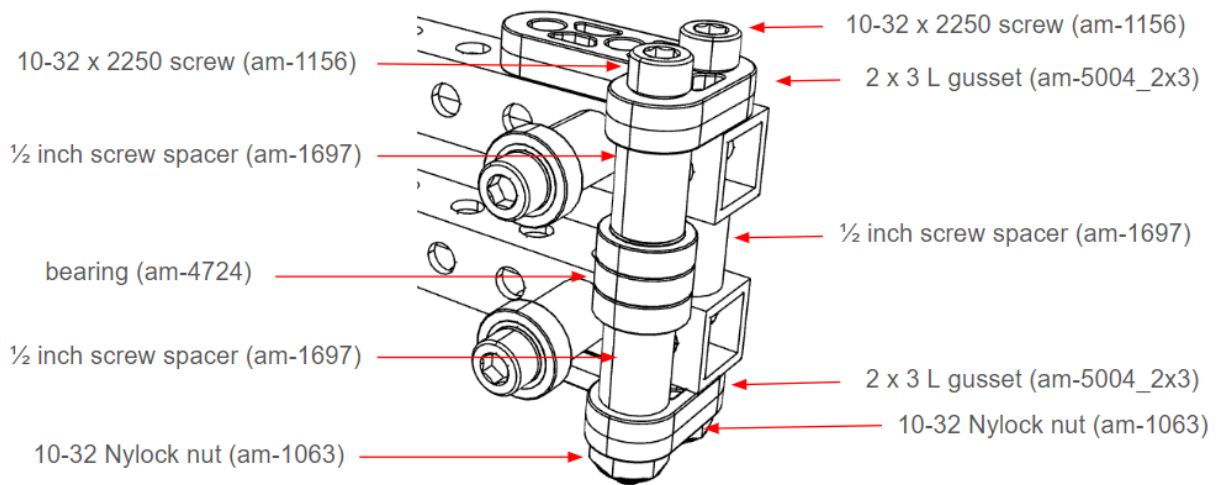
Fasten two bearings (am-4724) to one 0.5 x 0.5 x 6.0 inch tube (am-5001-0600) using the following stackups.



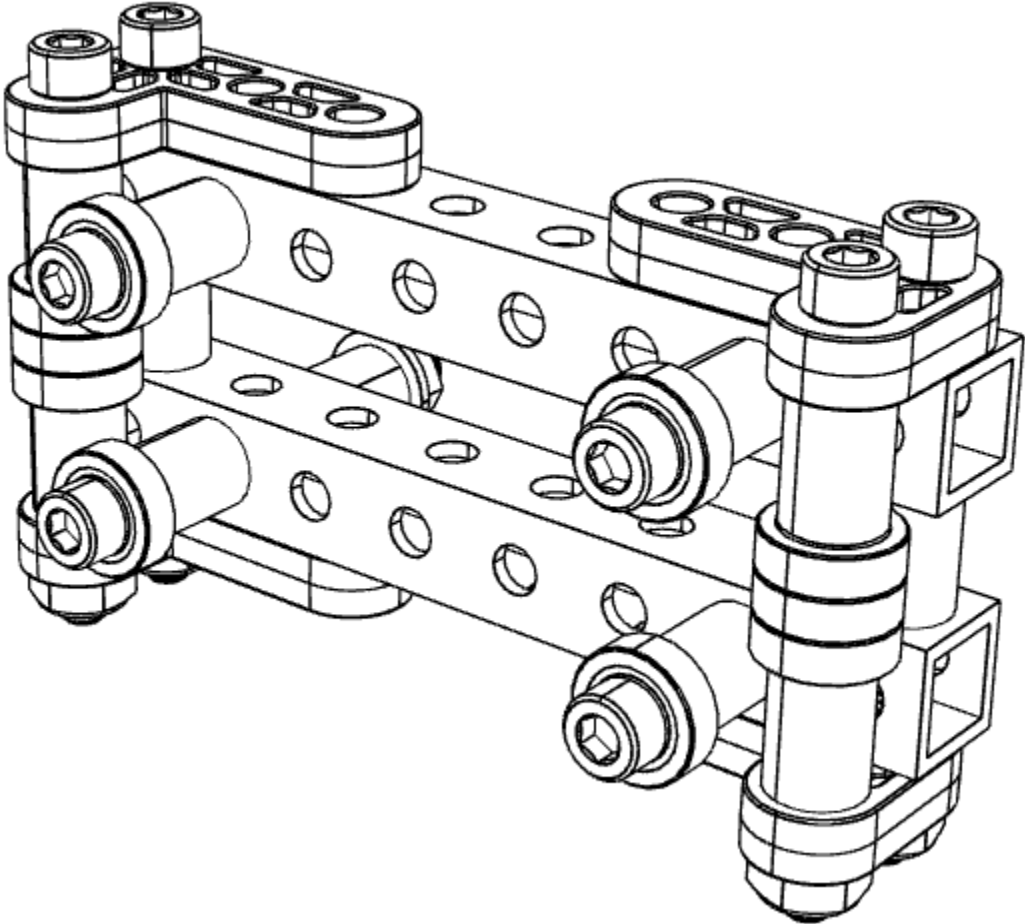
Install two bearings (am-4724) and two ½ inch screw spacers (am-1697) to a 0.5 x 0.5 x 4.0 tube (am-5001-0400) with two 10-32 x 1500 screws and two 10-32 Nylock nuts. Repeat this process to create three bearing assemblies.



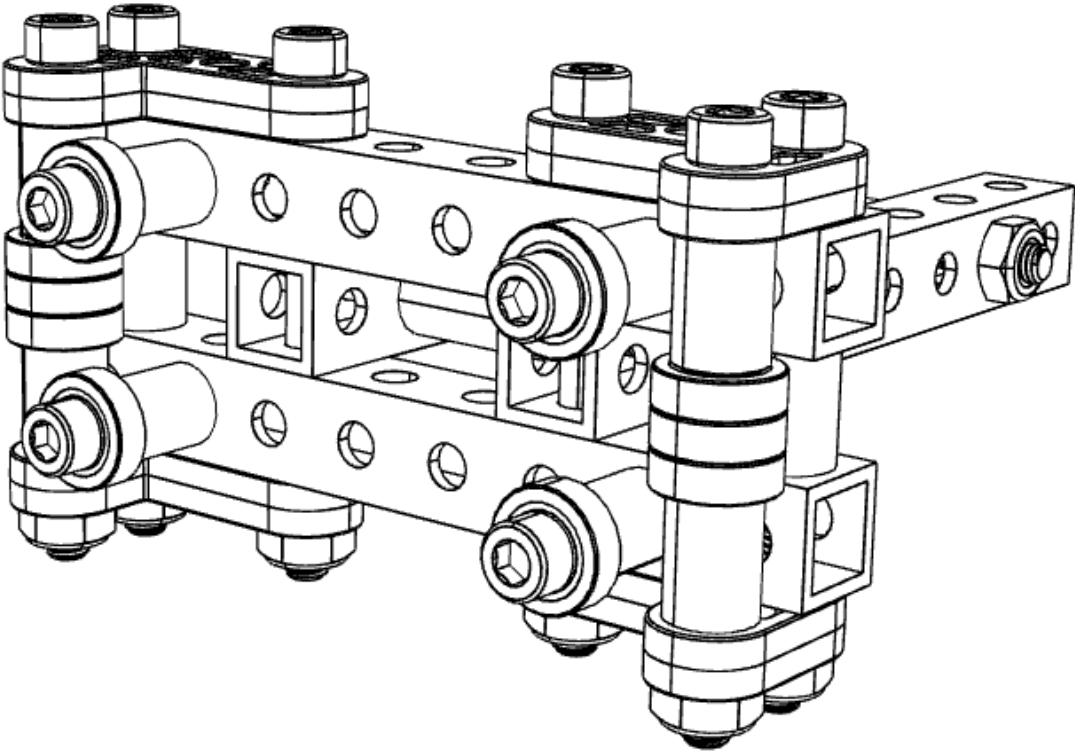
Fasten bearing assemblies together using the following stackups.



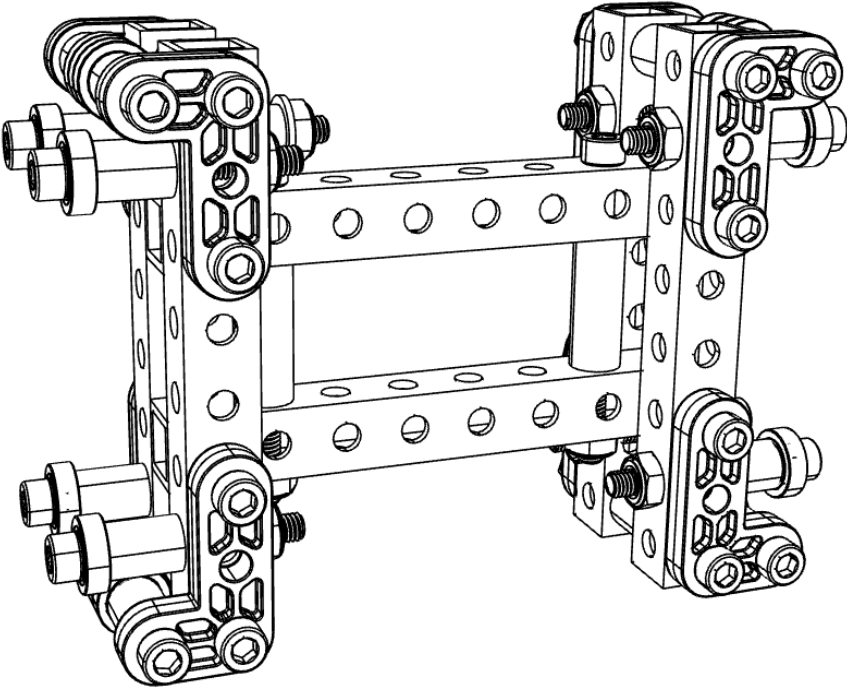
Repeat on the opposite side.



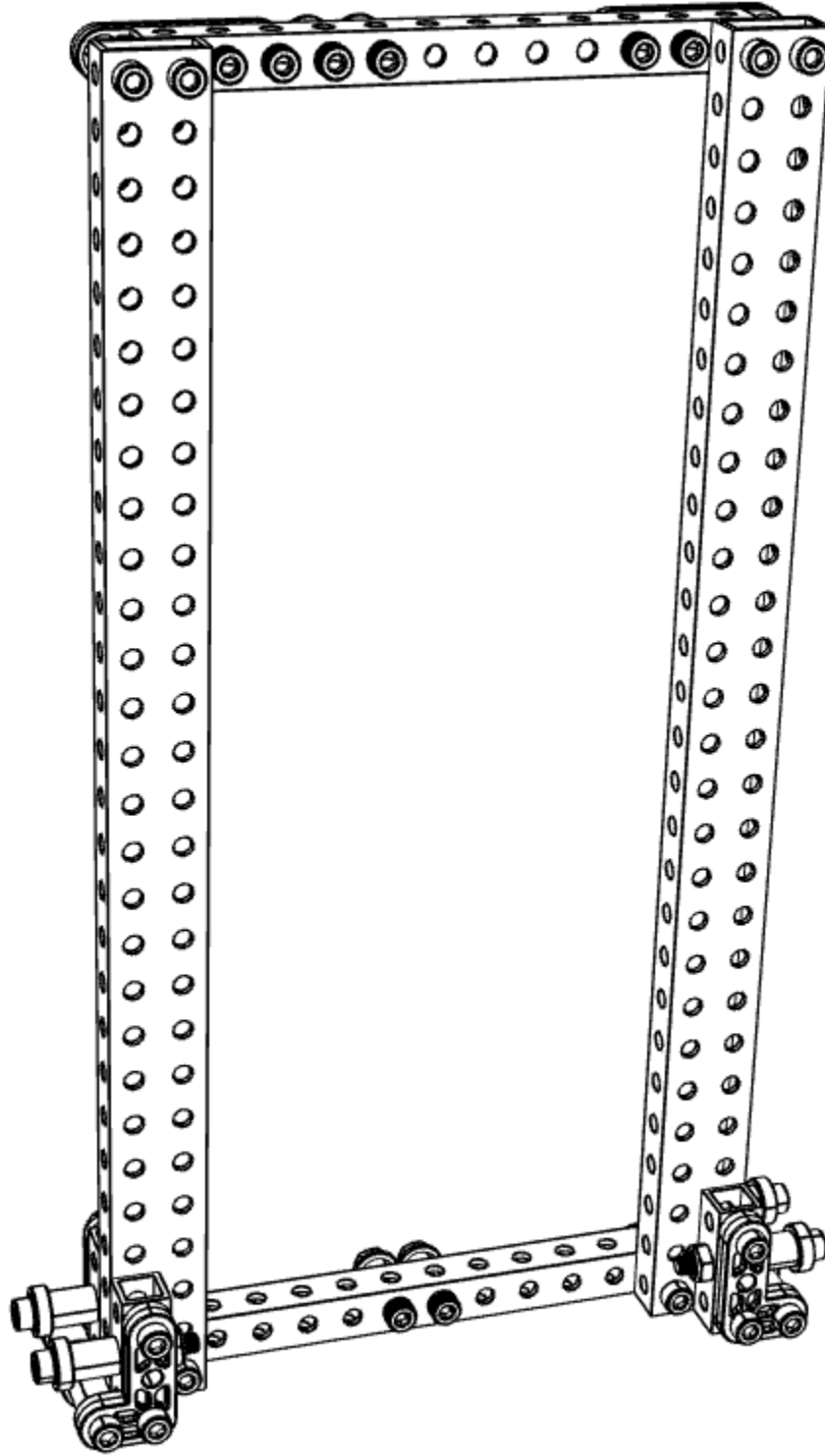
Install carriage half assembly to 0.5 x 0.5 x 6.0 inch tubes previously installed using two 10-32 x 2250 screws (am-1063) and two 10-32 Lock nuts (am-1063).



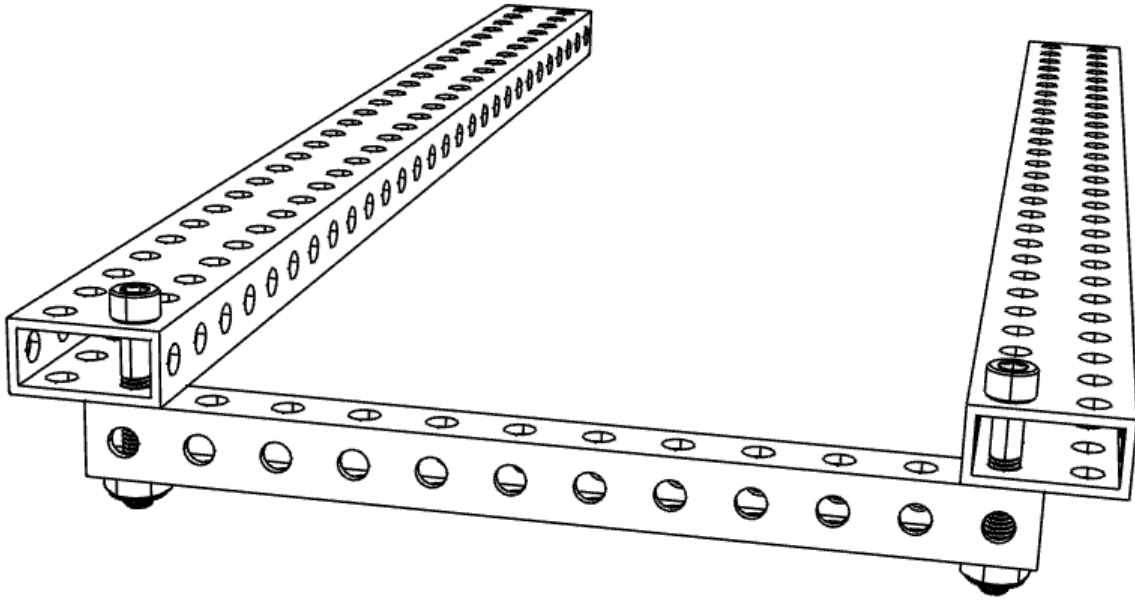
Repeat on the opposite side.



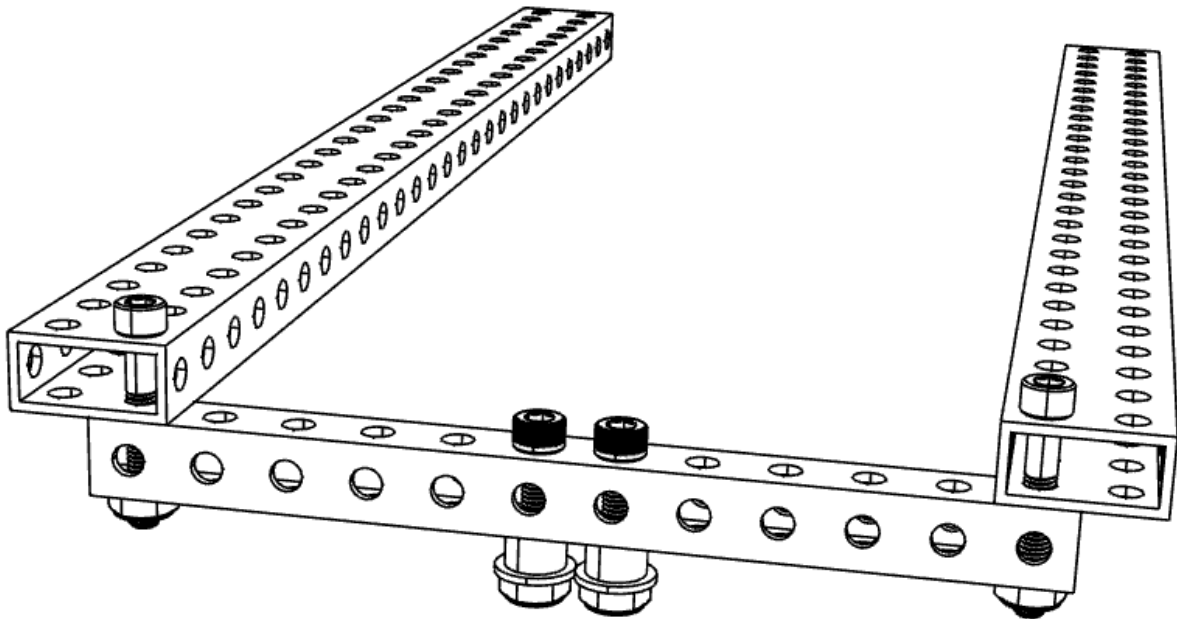
# 1st Stage Assembly



Install two 1.0 x 0.5 x 14.0 tubes (am-5026-1400) to one 0.5 x 0.5 x 6.0 inch tube using two 10-32 x 1250 screws (am-1041) and two 10-32 Lock nuts (am-1063).

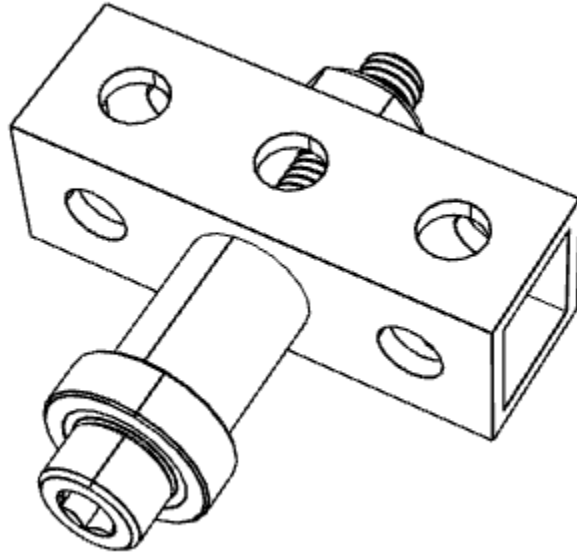


Install two 10-32 x 1000 screws (am-1056) with two ¼ inch screw spacers (am-1700), two #10 washer (am-1026), and two 10-32 Nylock nuts (am-1063).

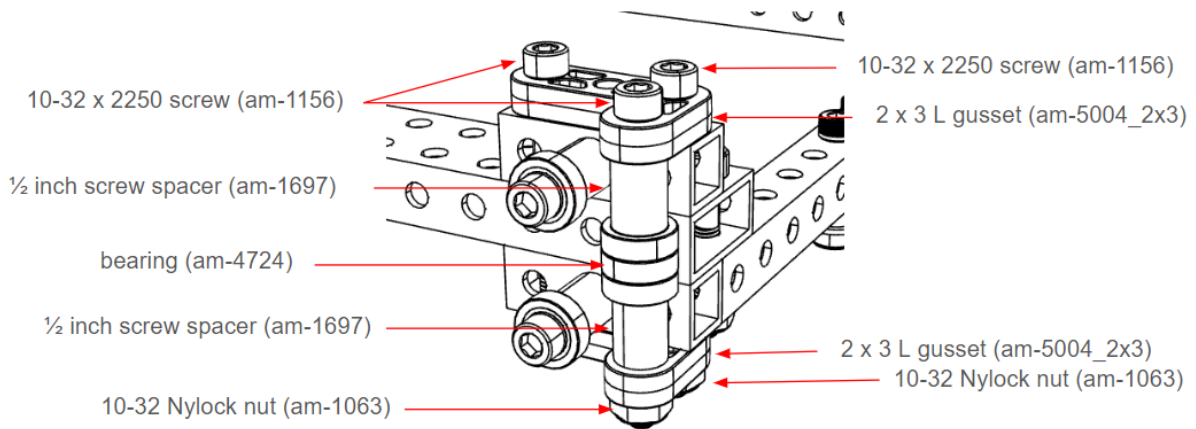




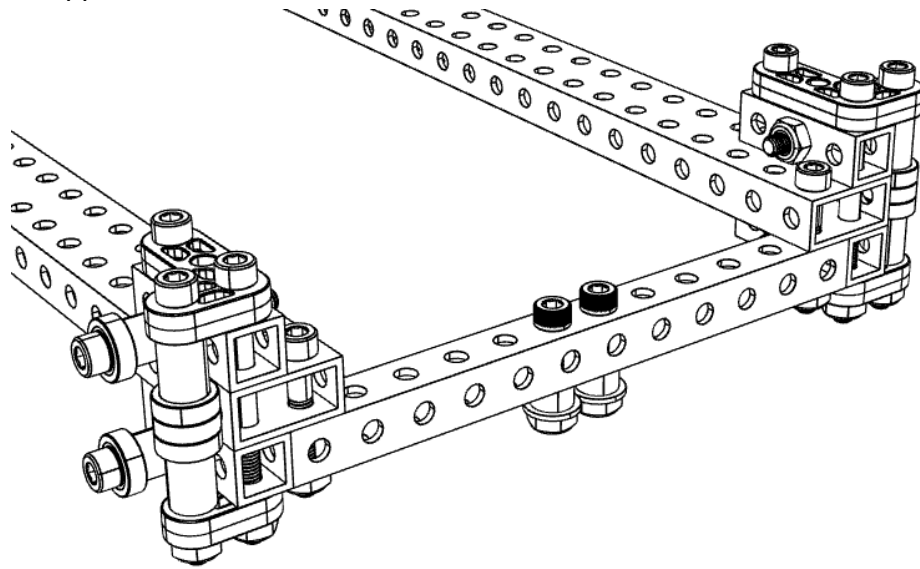
Install one bearing (am-4724) to one 0.5 x 0.5 x 1.5 inch tube (am-5001-0150) using one 10-32 x 1500 screw (am-1014), one 1/2" screw spacer (am-1697), and one 10-32 Lock nut (am-1063). Repeat to make four total corner bearing assemblies.



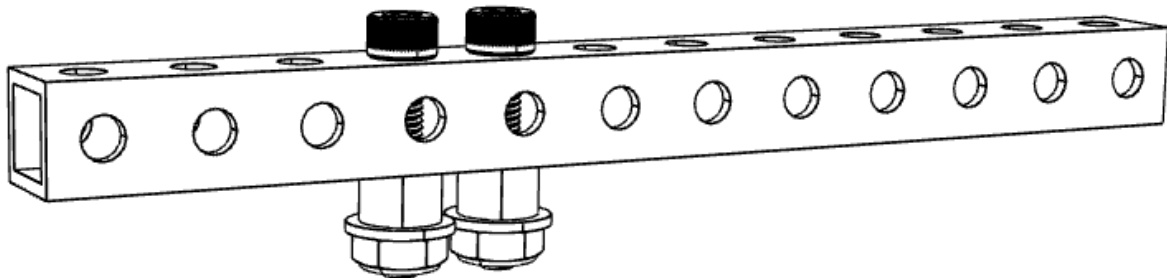
Fasten bearing assemblies together using the following stackups.



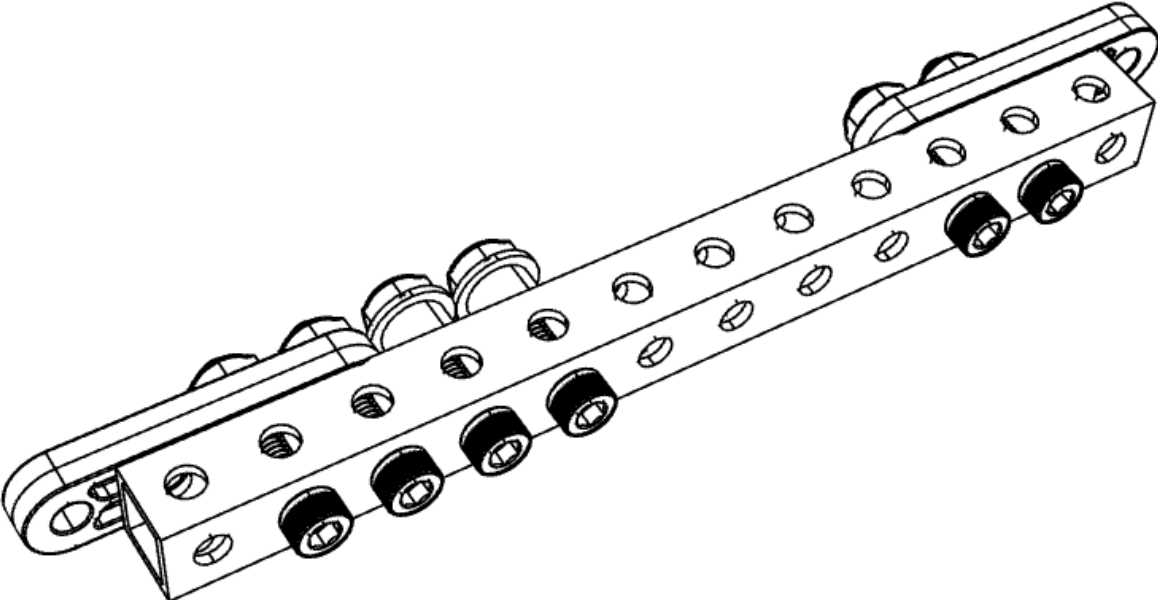
Repeat on the opposite side.



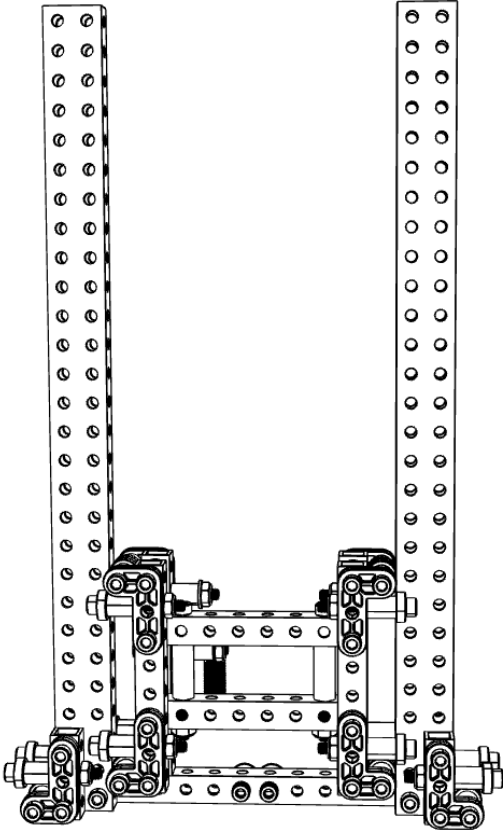
Install two 10-32 x 1000 screws (am-1056) with two ¼ inch screw spacers (am-1700), two #10 washer (am-1026), and two 10-32 Nylock nuts (am-1063) to a 0.5 x 0.5 x 6 inch tube (am-5001-0600).



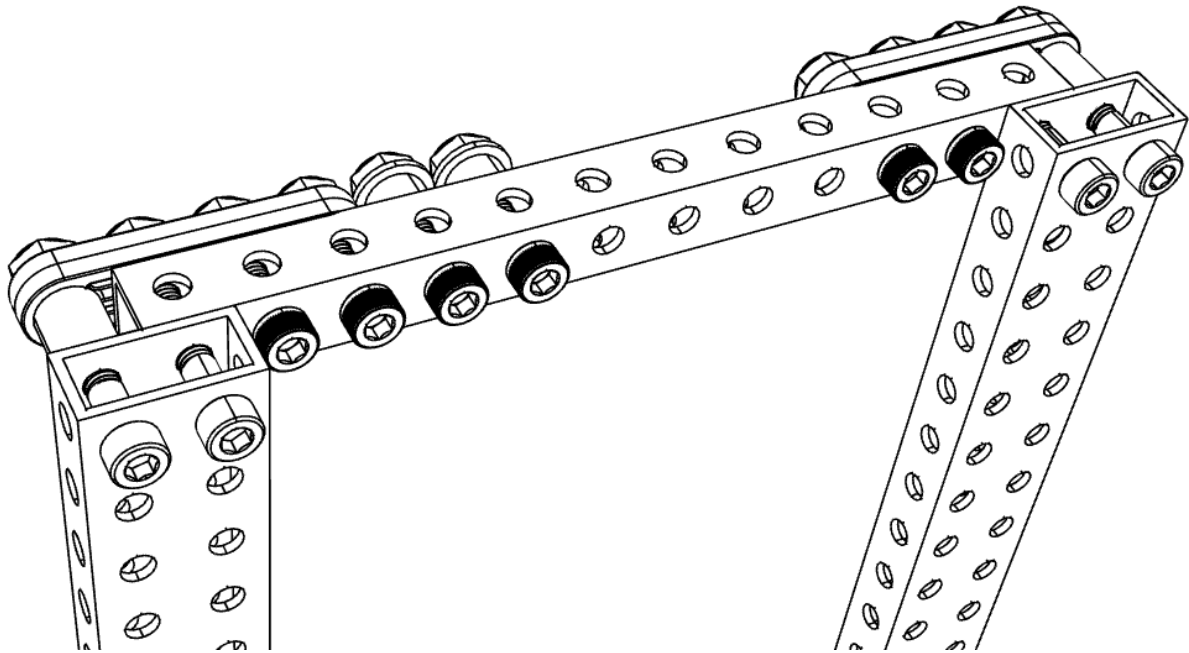
Install one 1 x 4 beam (am-5011\_1x4) to either side of the Robits tube using two 10-32 x 1000 screws (am-1056) and two 10-32 Nylock nuts (am-1063).



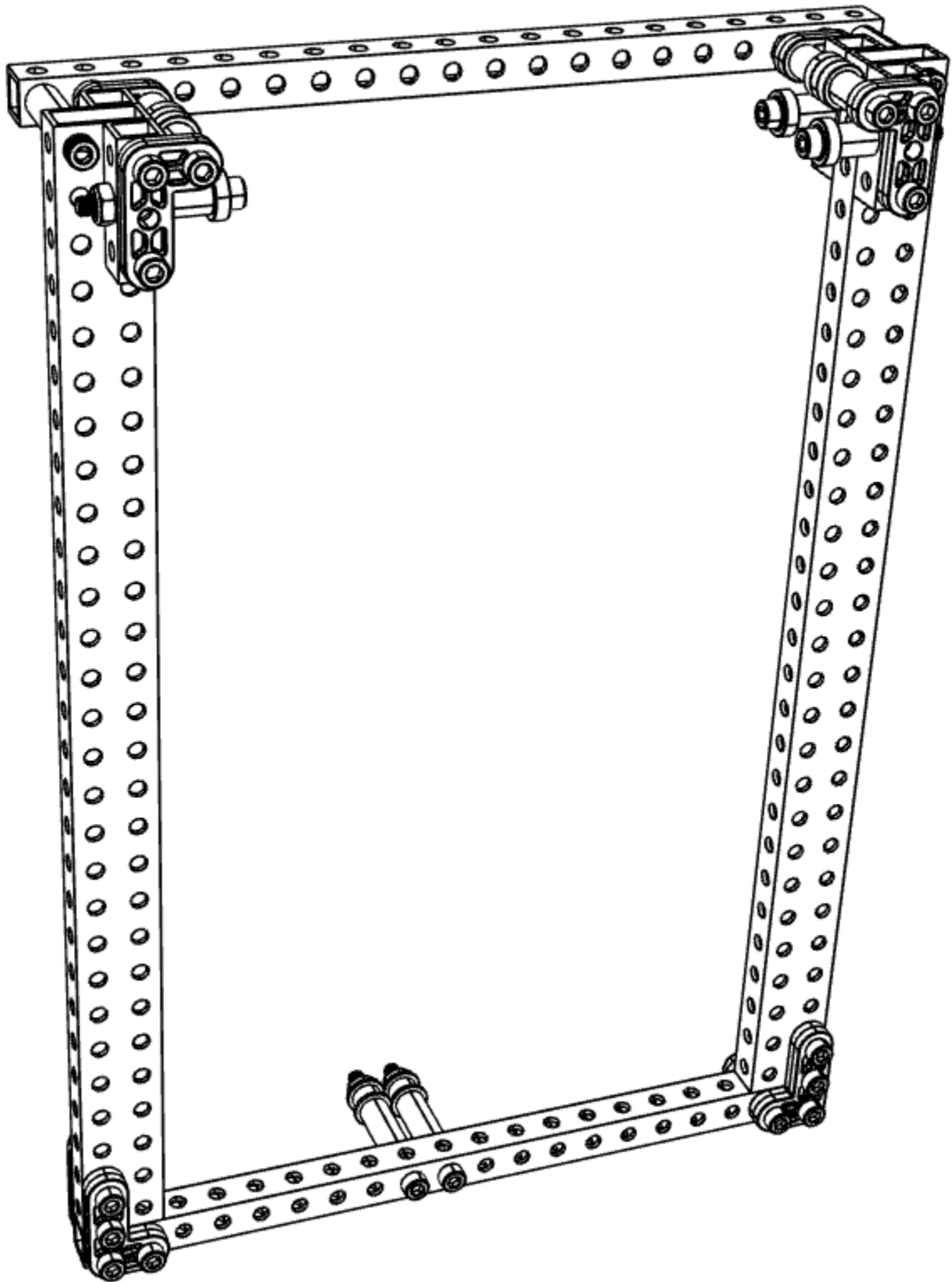
Insert carriage assembly into the 1st stage assembly



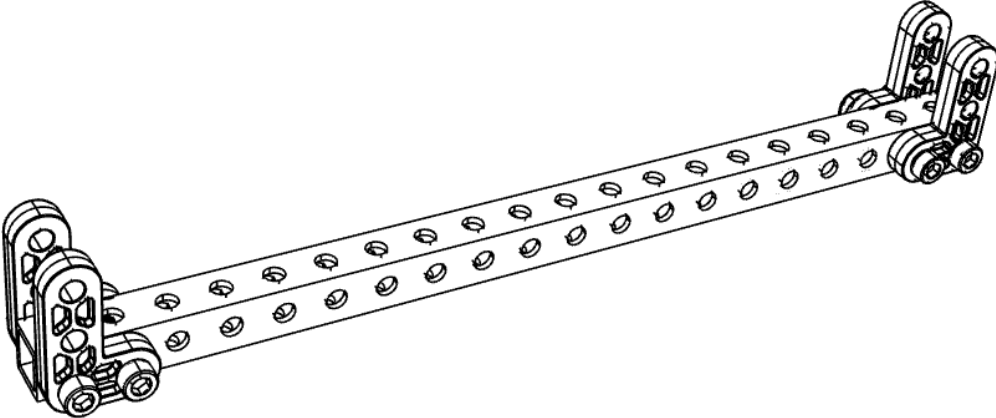
Install the 1st stage crossbar to the top of the 1st stage assembly using two 10-32 x 1500 screws (am-1014) and two 10-32 Nylock nuts (am-1063). On the outermost holes, insert a 1/2" screw spacer (am-1697) between the 1 x 4 beam and the 1.0 x 0.5 tube.



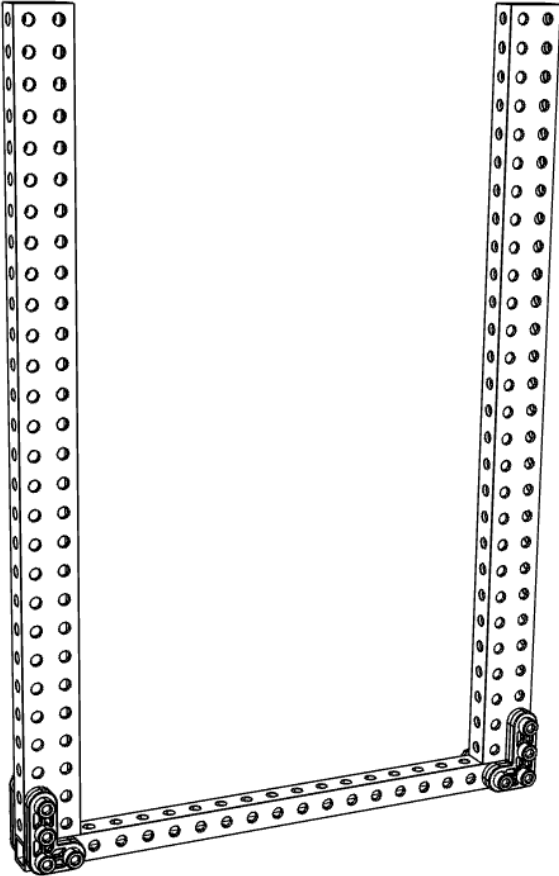
# Frame Assembly



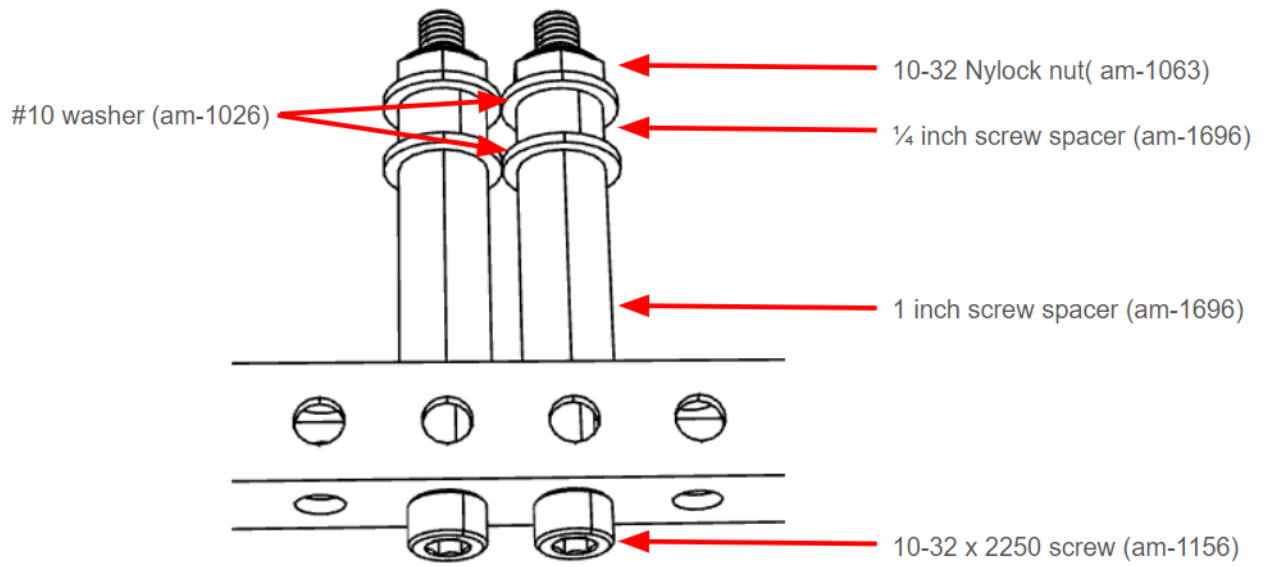
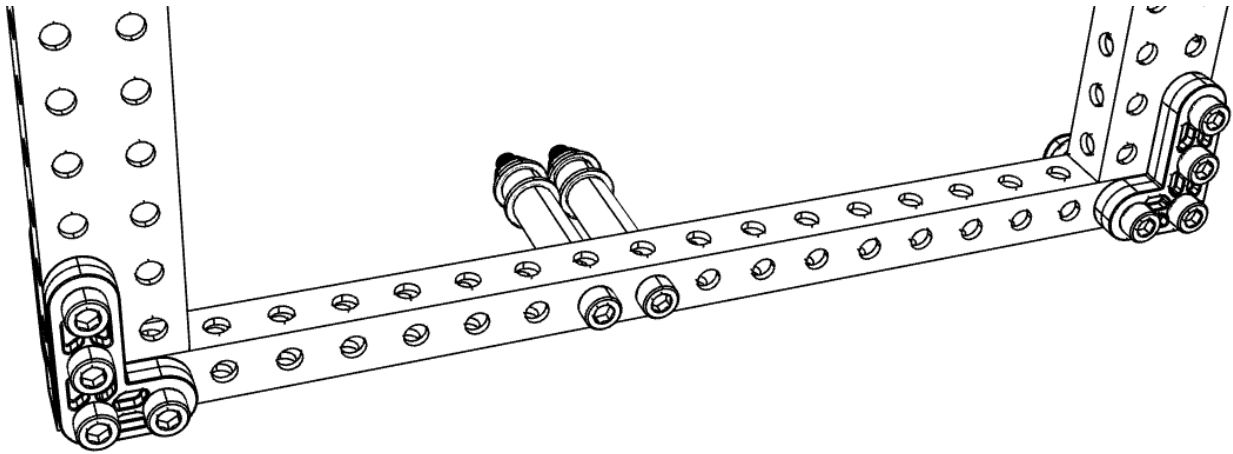
Install a total of four 2 x 3 L gussets (am-5004\_2x3) to a 0.5 x 0.5 x 10.0 tube (am-5001-1000) using four 10-32 x 1250 screws (am-1041) and four 10-32 Nylock nuts (am-1063).



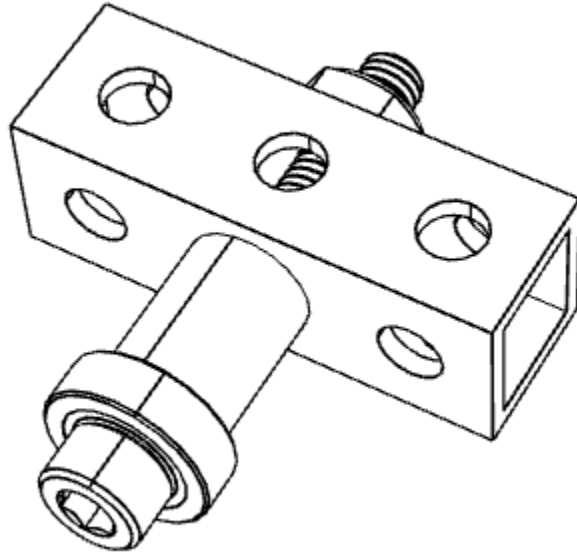
Install two 1.0 x 0.5 x 14.0 tubes (am-5026-1400) to the L gussets using four 10-32 x 1250 screws (am-1041) and four 10-32 Nylock nuts (am-1063).



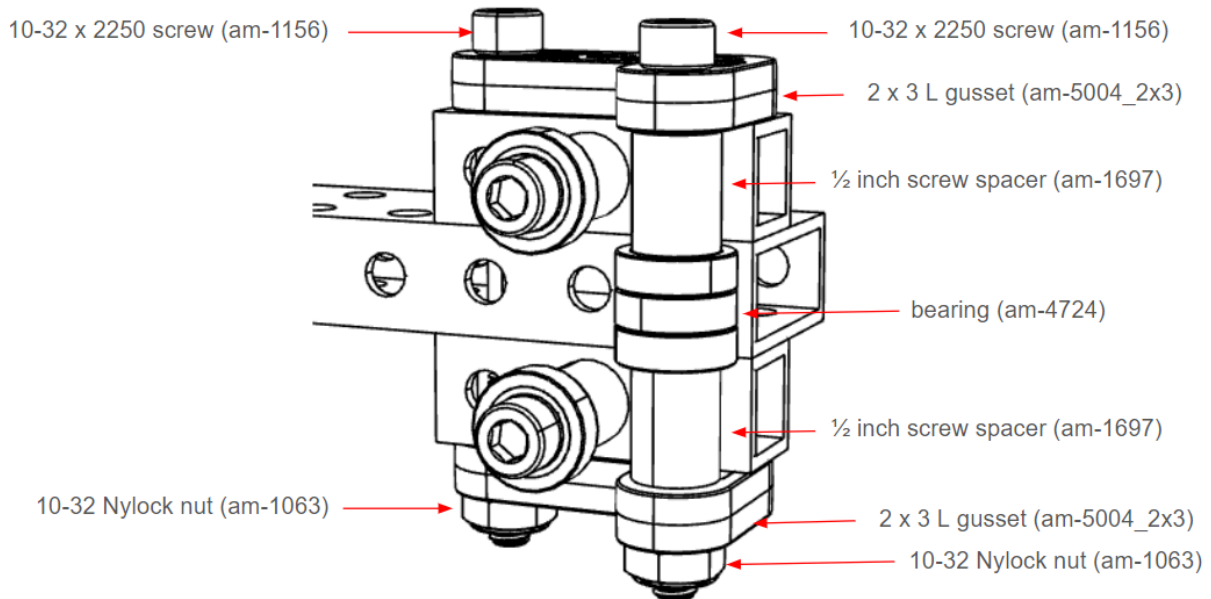
Install two ¼ inch screw spacers with a #10 washer on either side.



Install one bearing (am-4724) to one 0.5 x 0.5 x 1.5 inch tube (am-5001-0150) using one 10-32 x 1500 screw (am-1014), one 1/2" screw spacer (am-1697), and one 10-32 Lock nut (am-1063). Repeat to make four total corner bearing assemblies.

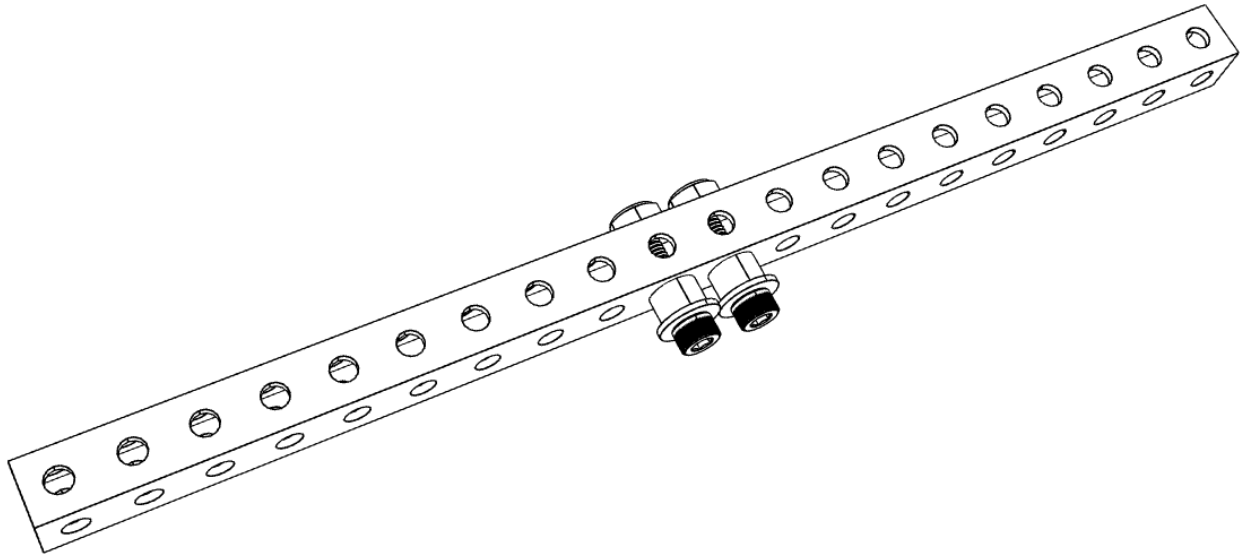


Fasten bearing assemblies together using the following stackups.

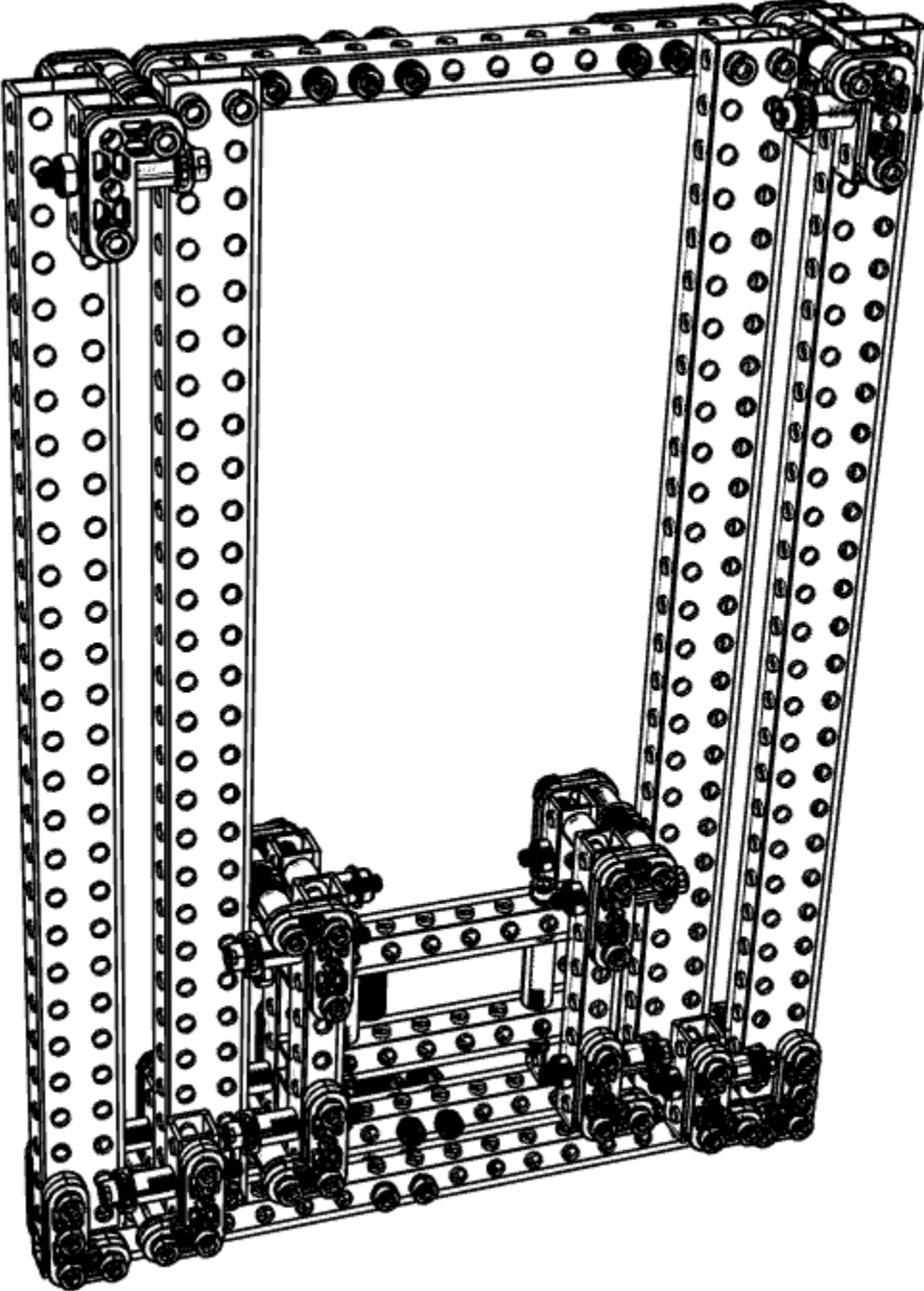




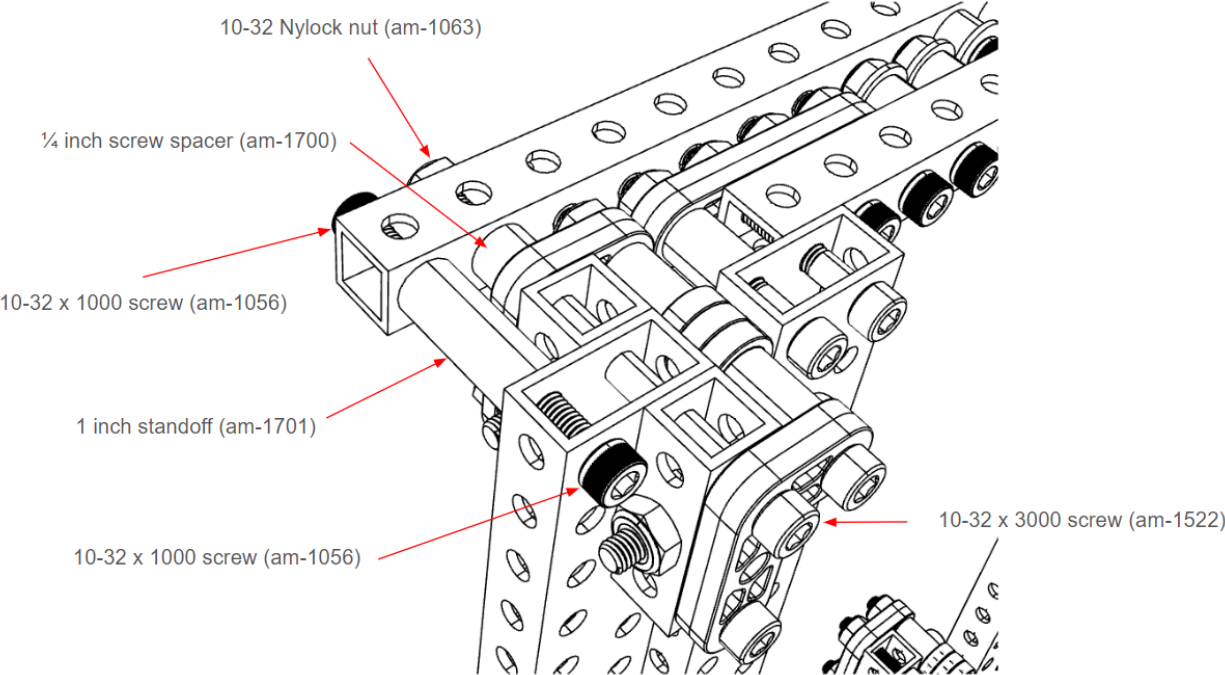
Install two 10-32 x 1000 screws (am-1056) with two ¼ inch screw spacers (am-1700), two #10 washer (am-1026), and two 10-32 Nylock nuts (am-1063) to a 0.5 x 0.5 x 10 inch tube (am-5001-1000).



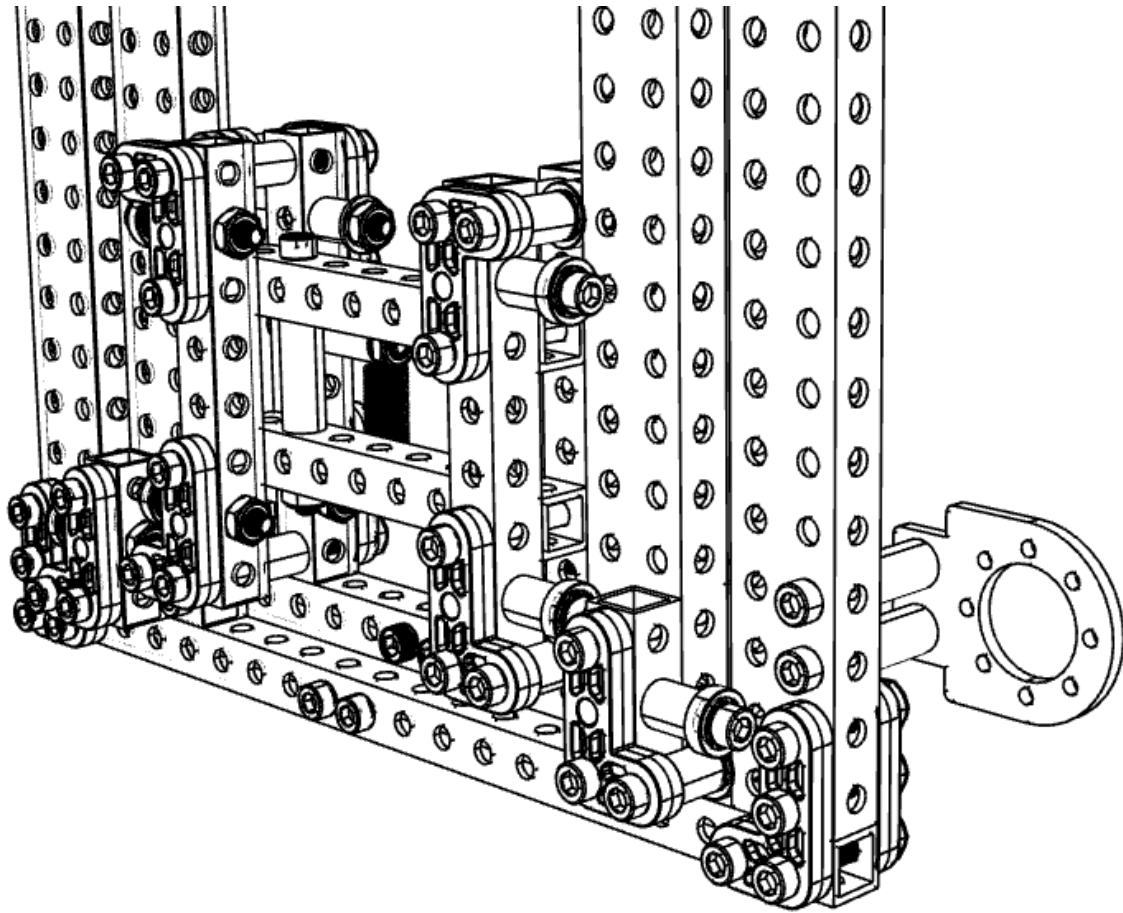
Insert the first stage and carriage into the frame assembly.



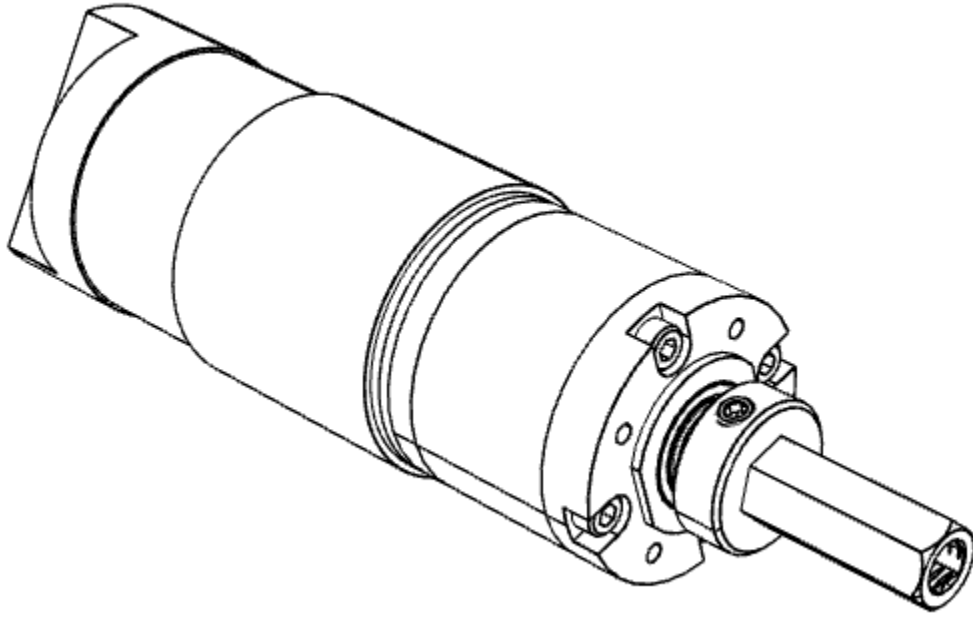
Fasten the top of the frame together using the following hardware stackups. Repeat for the opposite side.



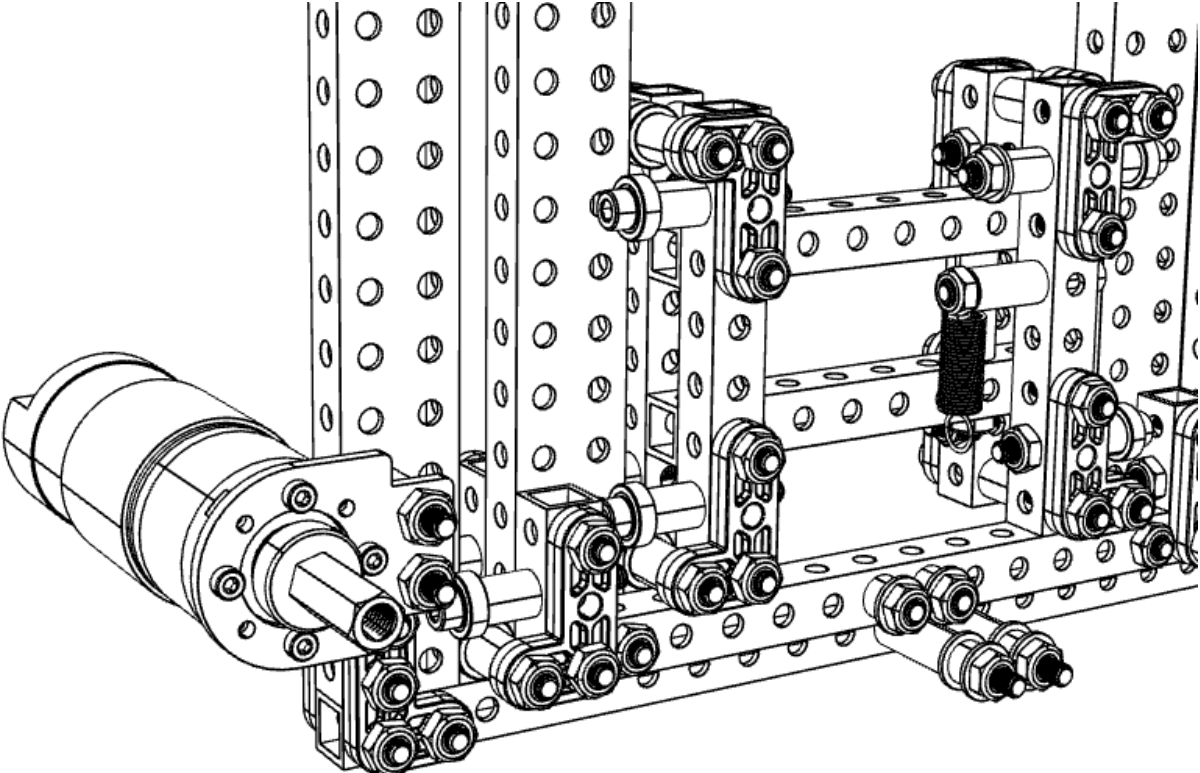
Install the motor bracket (am-5012) to the side of the frame using two 10-32 x 1750 screws, two ¼ inch screw spacers (am-4107), and two 10-32 Nylock nuts (am-1063).



Place one 6mm to 375 Hex adapter (am-3444) on the motor shaft. Make sure to secure by tightening the provided 10-32 set screw.



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



Install two spools (am-5027) onto the motor shaft and retain with the ¼ inch washer and screw provided with the adapter.

