

# Robits Beginner Chassis Assembly Guide

# Parts List

1.0x1.0x15.5 Tube - 2x

0.5x0.5x10.0 Tube - 2x

10-32 x 1750 Screw - 8x

10-32 Nylock Jam Nut - 8x

Motor Mount - 2x

10-32 x 1500 Screw - 4x

10-32 Nylock Jam Nut - 4x

NeveRest Orbital 20 Gearmotor - 2x

M3 x 8mm Screw - 8x

3" Stealth Wheel - 2x

6 mm D to 0.375" Hex-Shaft Adapter Kit - 2x

3" 0.375" Hex Shaft - 2x

Omni Wheel - 2x

0.25" Spacer - 2x

0.50" Spacer - 2x

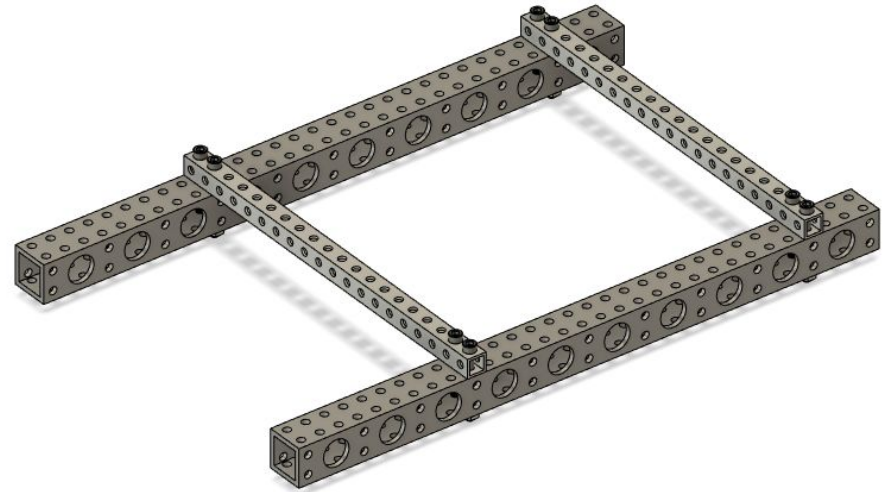
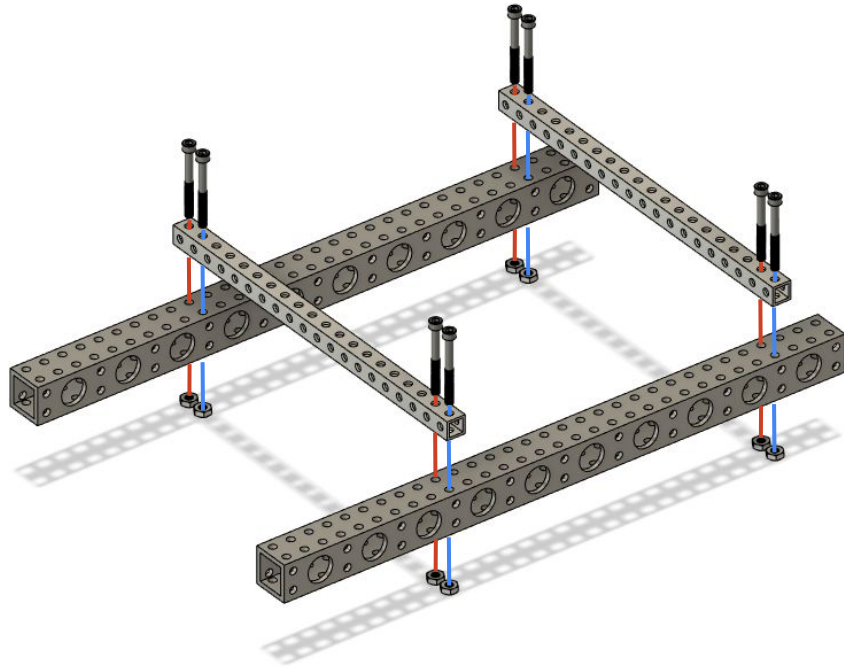
#10 Washer - 4x

10-32 x 500 Screw - 4x

Bushing - 4x

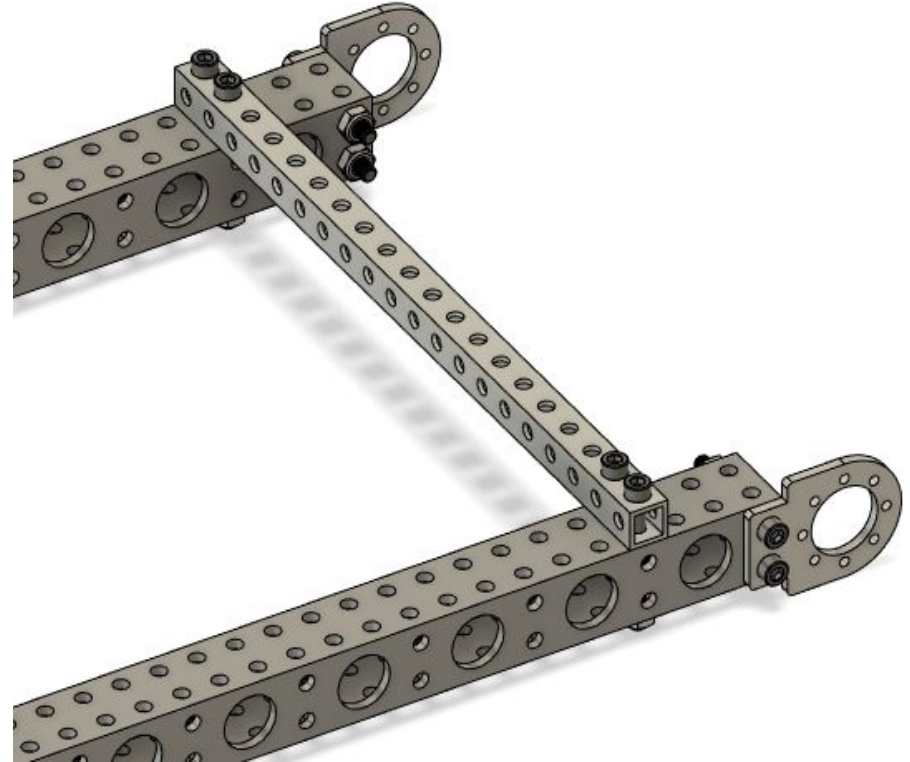
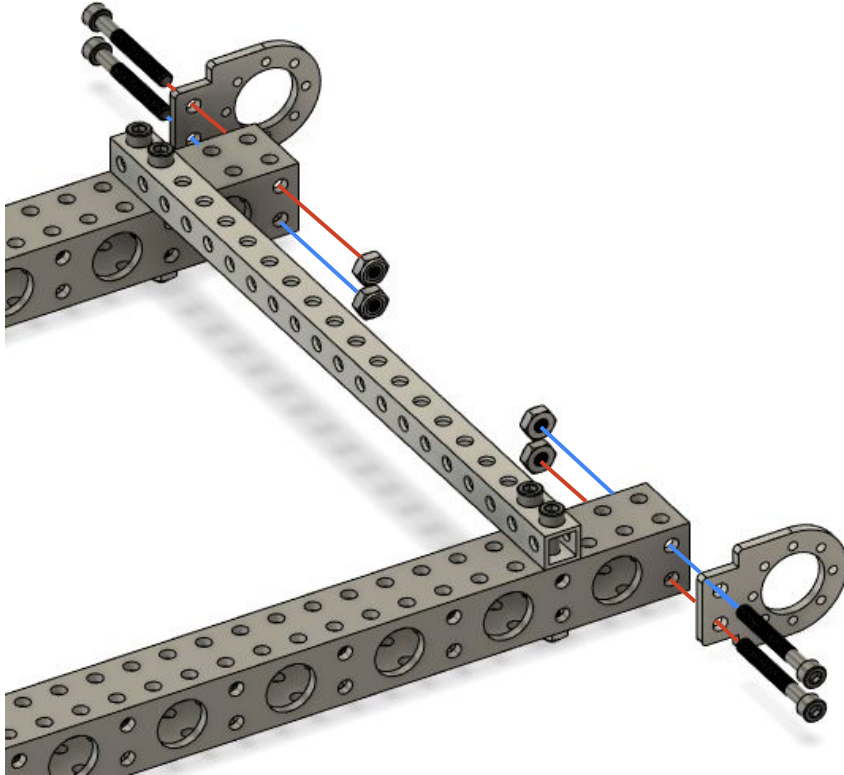
# Step 1: Assemble the frame.

1.0 x 1.0 x 15.5 Tube - 2x    10-32 x 1750 Screw - 8x  
0.5 x 0.5 x 10.0 Tube - 2x    10-32 Nylock Jam Nut - 8x



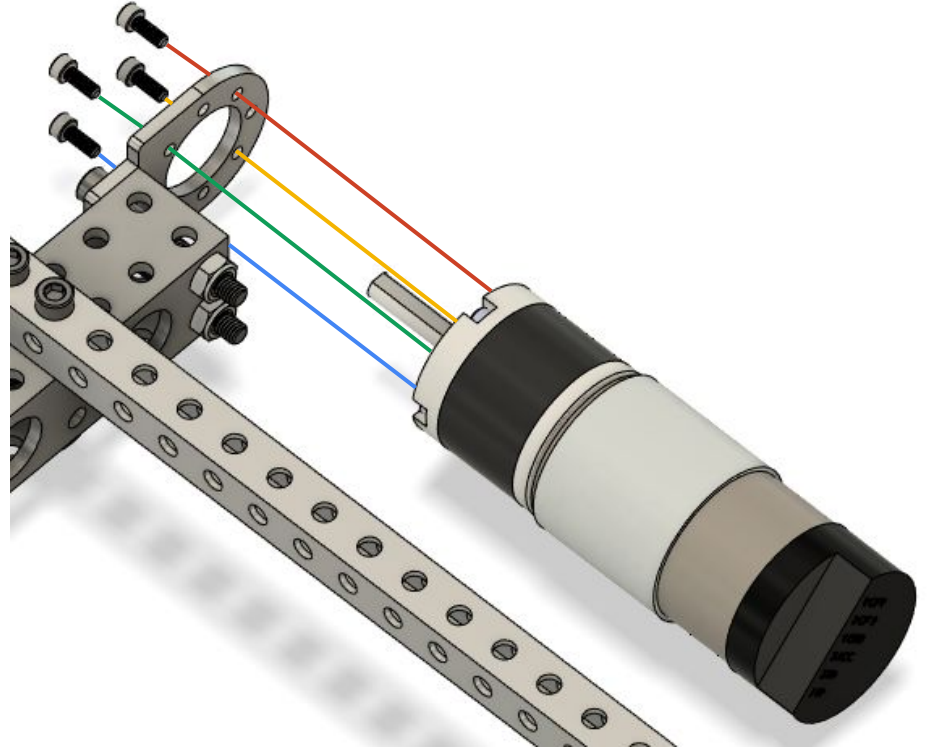
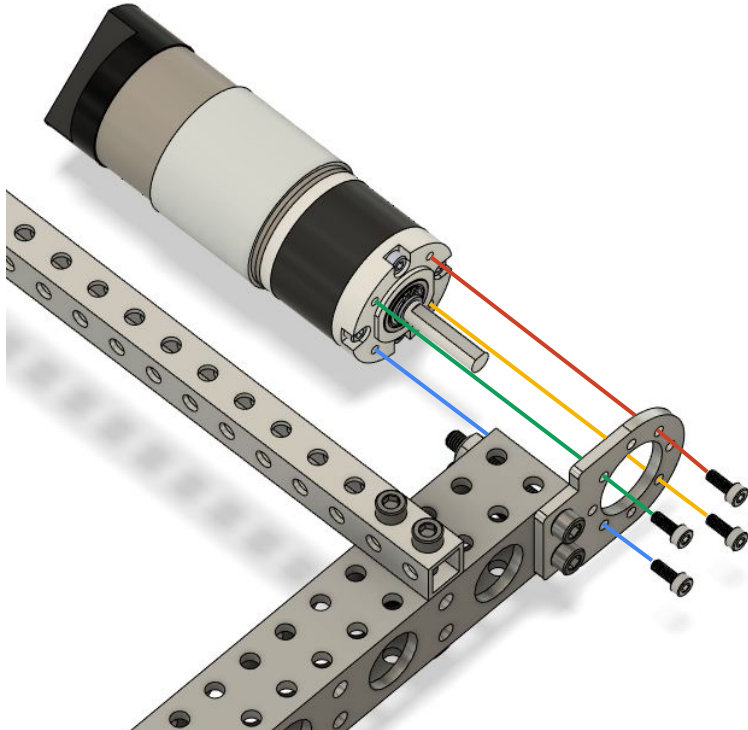
## Step 2: Attach motor mounts to the frame.

10-32 x 1500 Screw - 4x    10-32 Nylock Jam Nut - 4x  
Motor Mount - 2x



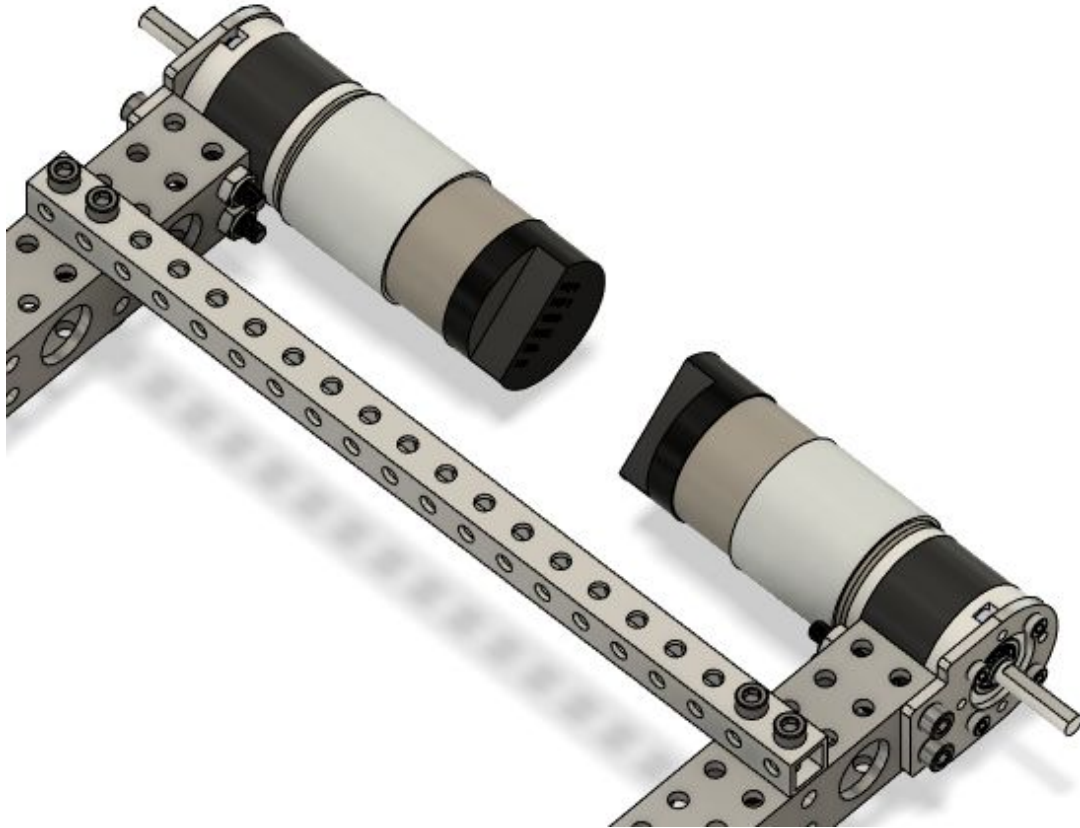
## Step 3: Mount two motors to the frame.

NeveRest Orbital 20 Gearmotor - 2x  
M3 x 8mm Screw - 8x





# Motors after being mounted to the frame.



## Step 4: Attach a stealth wheel to each motor.

3" Stealth Wheel - 2x  
6 mm D to 0.375" Hex-Shaft Adapter Kit - 2x



Make sure to loosen the set screws in the Hex-Shaft Adapters before attaching them to the motors. Then retighten them once they're firmly in place.

# Motors with stealth wheels attached.



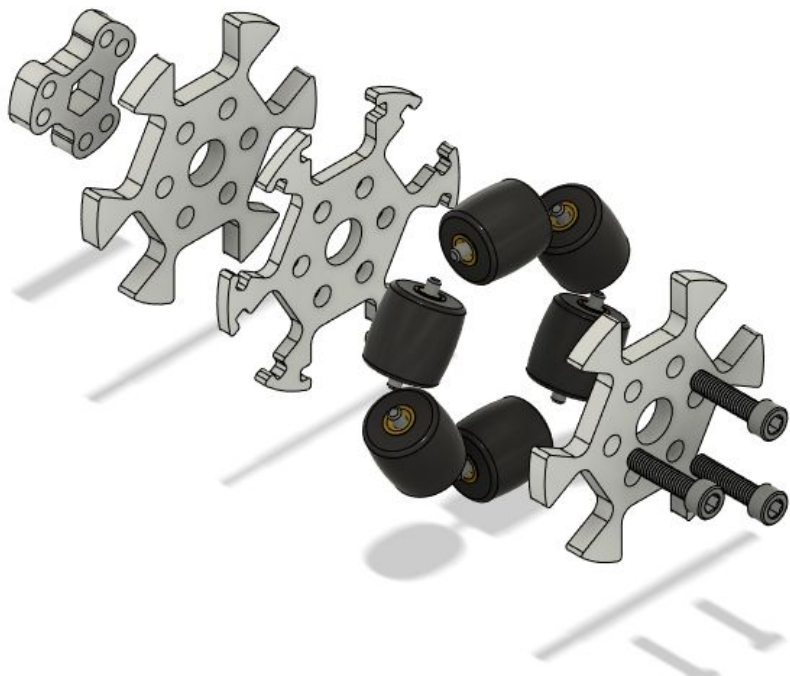


**Step 5: Assemble the rollers for your omni wheels. If your omni wheels are already assembled, skip to step 7. For more thorough omni wheel assembly instructions, refer to the Robits Starter Drive Base Assembly Guide.**



**Step 6: Completely assemble both omni wheels. If your omni wheels are already assembled, skip this step. For more thorough omni wheel assembly instructions, refer to the Robits Starter Drive Base Assembly Guide.**

Tip: Use a hex shaft to help line up your components while you're assembling them.



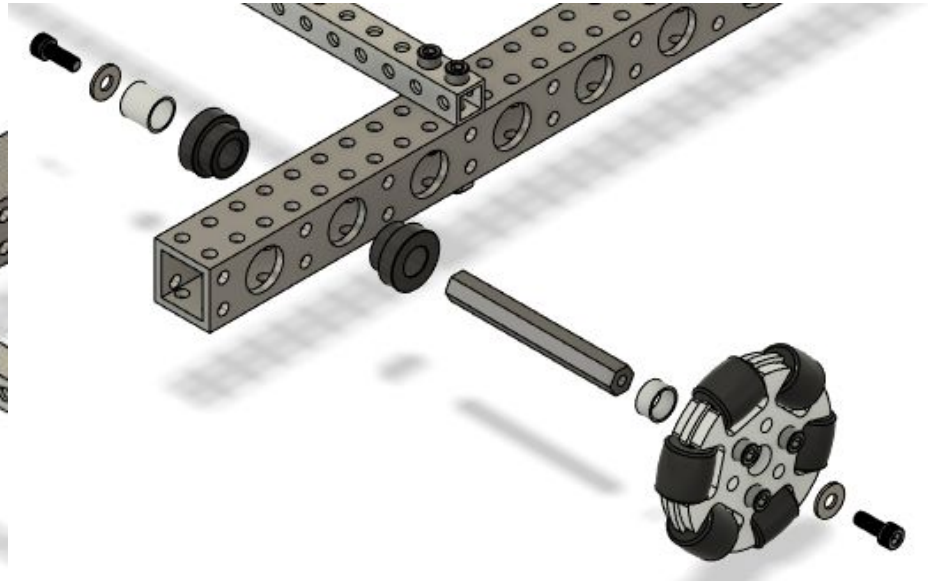
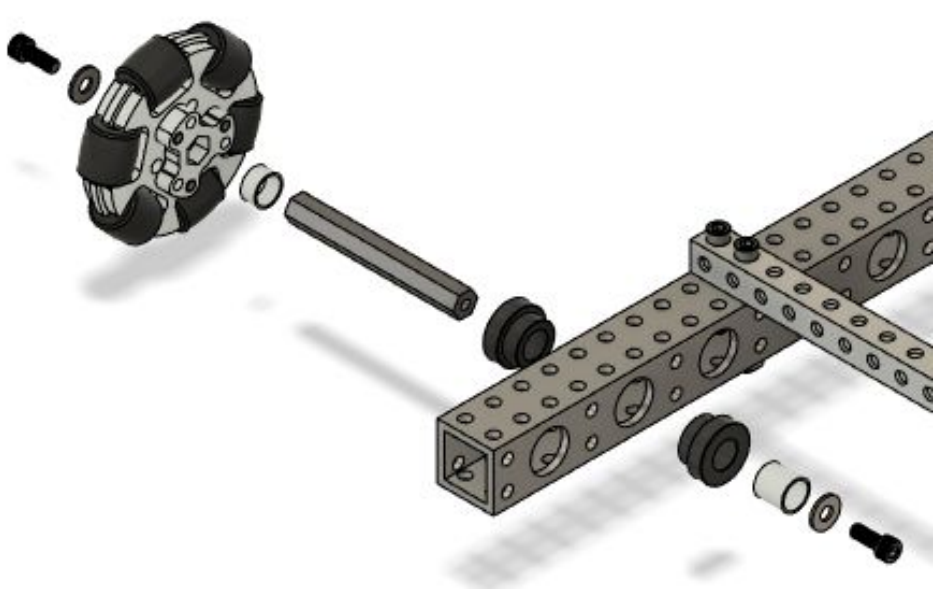
**X2**

## Step 7: Attach both omni wheels to the front of your robot.

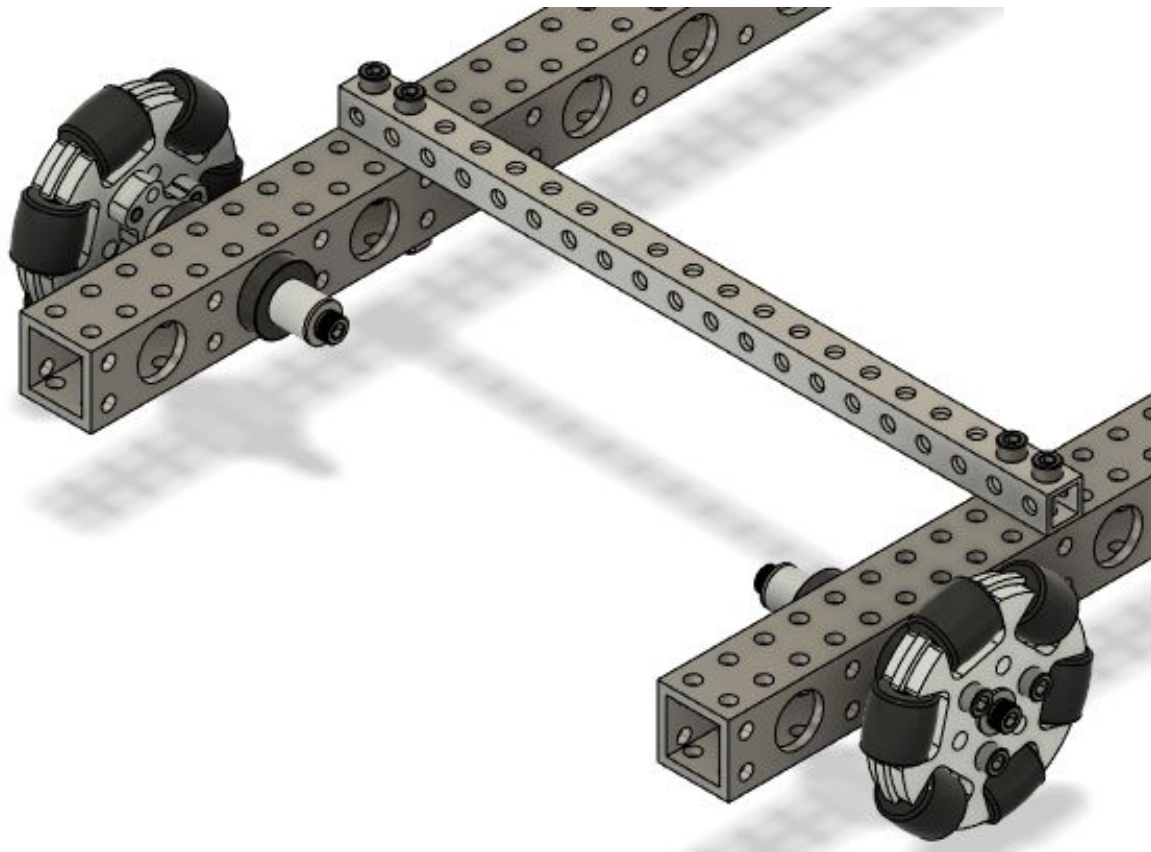
#10 Washer - 4x  
10-32 x 500 Screw - 4x  
Bushing for 0.375" Hex - 4x

3" 0.375" Hex Shaft - 2x  
Omni Wheel - 2x

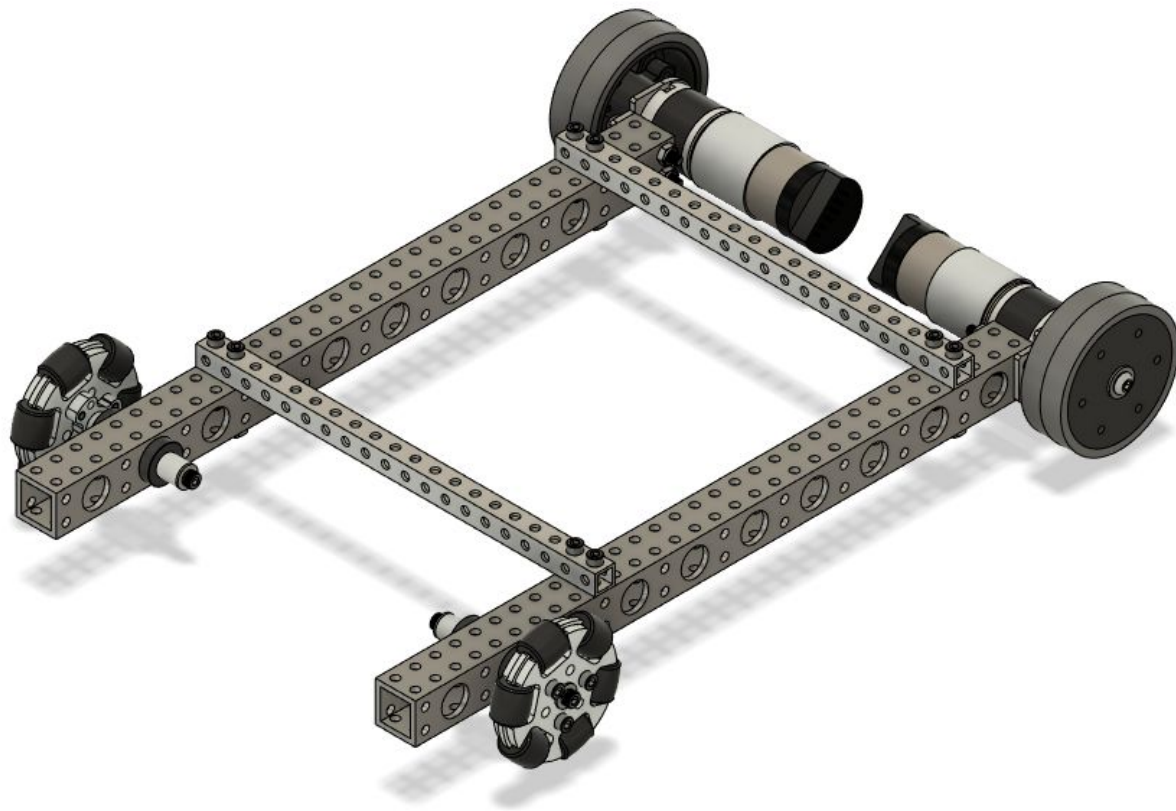
0.25" Shaft Spacer - 2x  
0.50" Shaft Spacer - 2x



**Front of the chassis with omni wheels attached.**



# Finished Chassis





The background is a solid blue color with a repeating pattern of white mechanical and electronic icons. These icons include gears, wrenches, pliers, screwdrivers, hammers, stars, circuit boards, and other tools, creating a technical or engineering theme.

**That's it!**  
**Your Basic Bot chassis is completely assembled!**