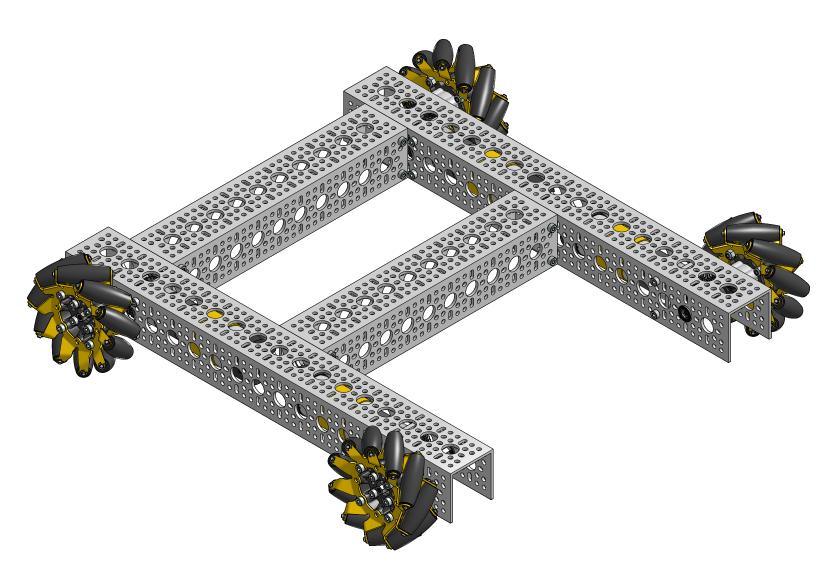
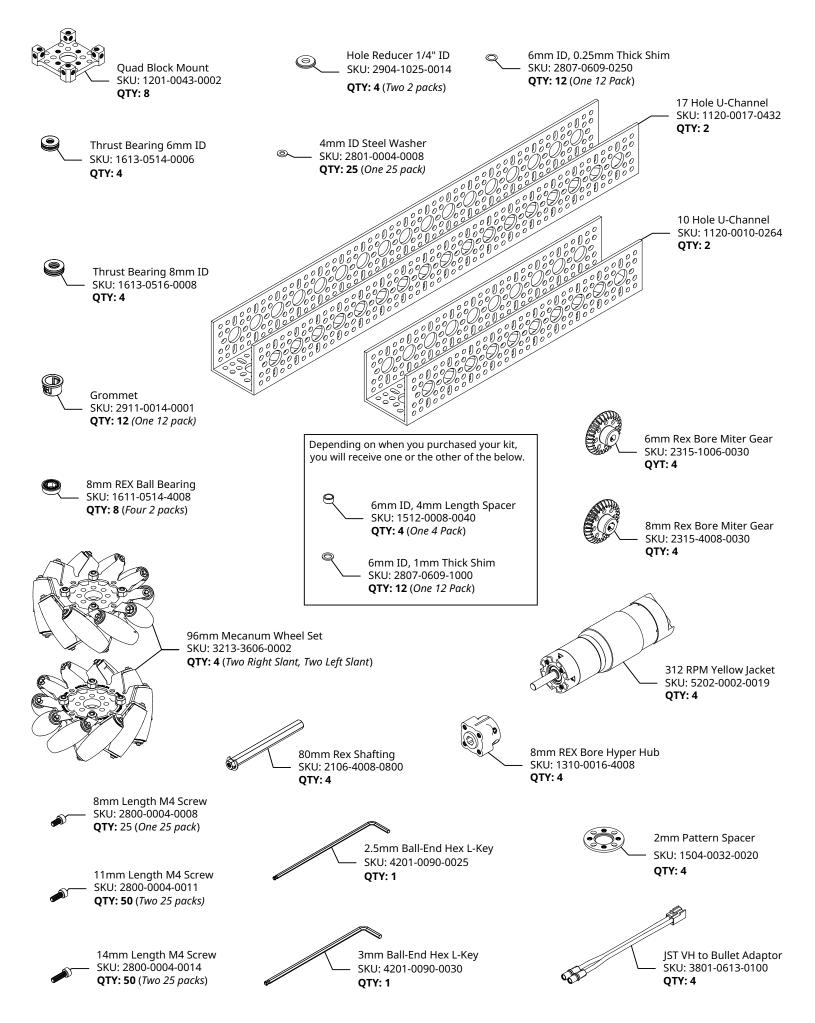
# Assembly Instructions for **Strafer Chassis Kit**

SKU: 3209-0001-0003

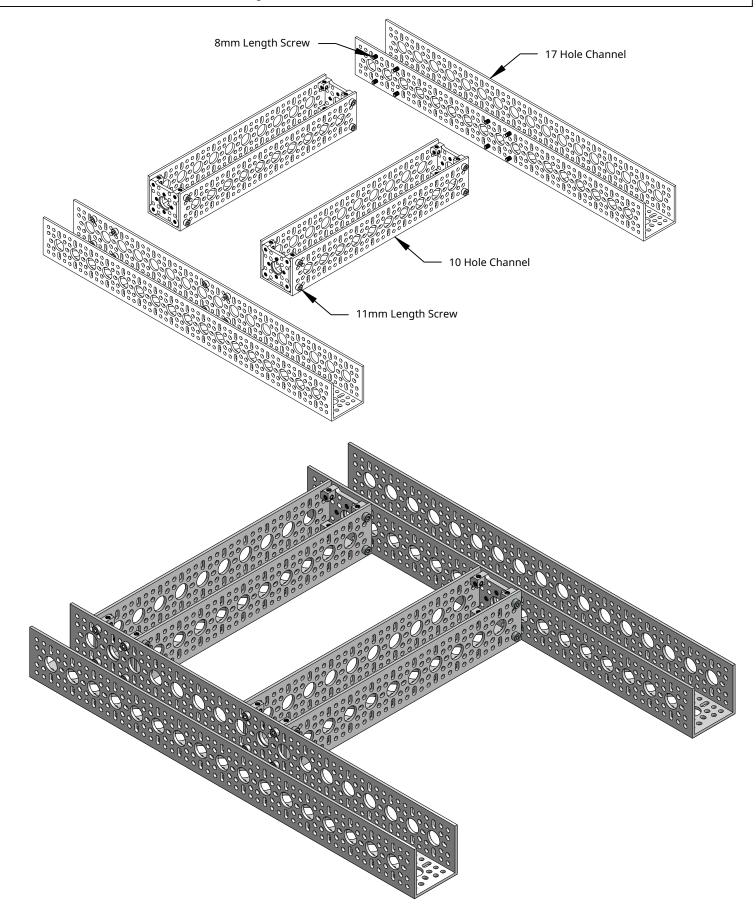


## **Kit Contents:**



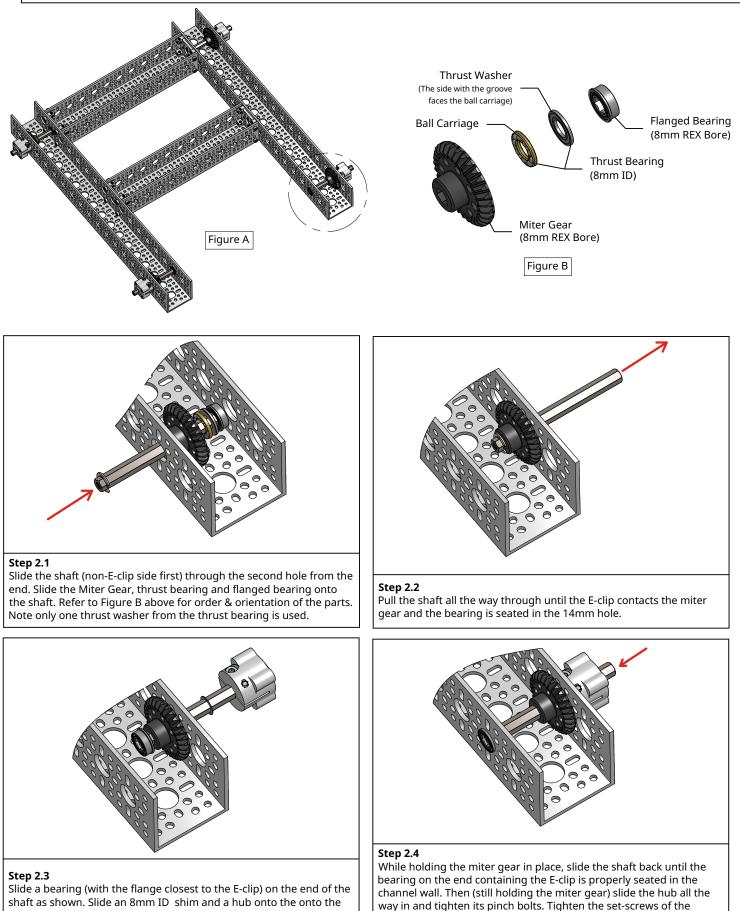
### **STEP 1 - Chassis Frame Assembly**

Use sixteen 11mm length screws to attach four Quad Block Mounts to the ends of the two 10 Hole channels as shown. These channels will be the "crossbars" of the chassis. Then use sixteen 8mm length screws to fasten the crossbars to the 17 hole channels as shown.



### **STEP 2 - Output Shaft Assemblies**

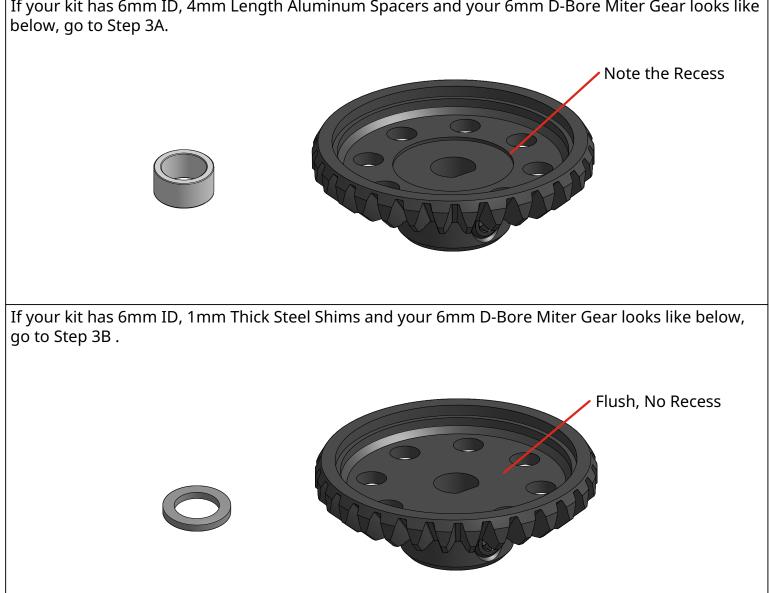
When this page is complete, your chassis will look like Figure A. The sub-steps on this page show the process of assembling one output shaft in the circled area within figure A. Once you complete one output shaft assembly, repeat the process for the other three corners of the chassis.



miter gear. Ensure both bearings are properly seated in their

respective holes.

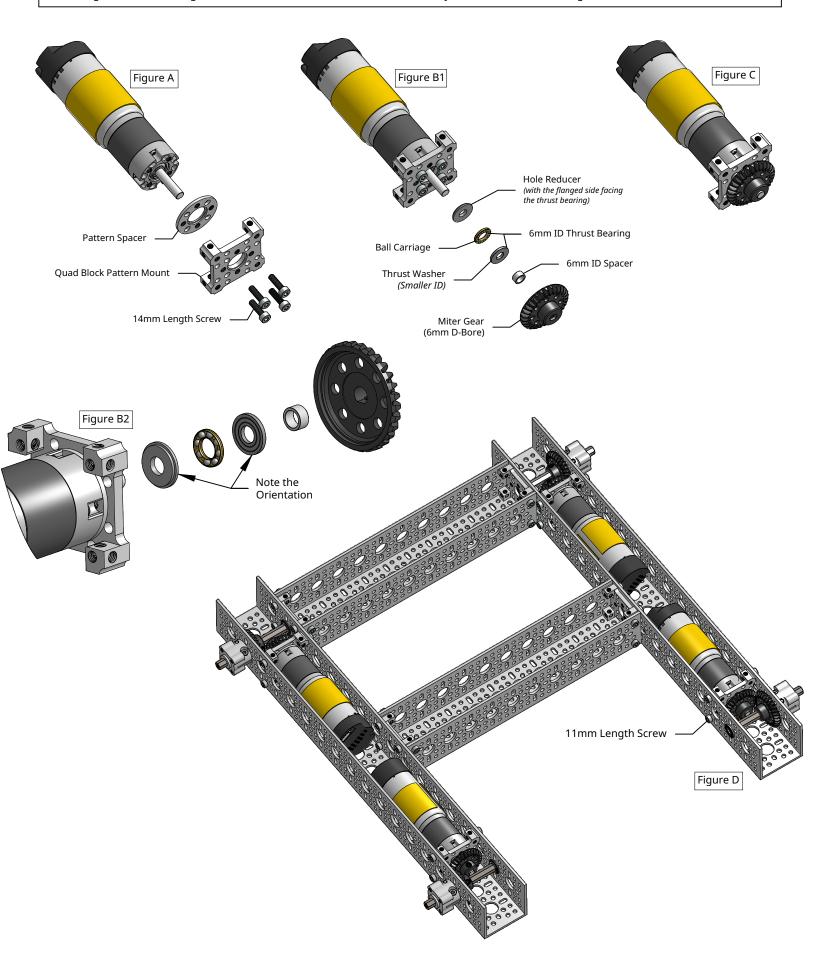
shaft as shown. Slide an 8mm ID shim and a hub onto the onto the other end of the shaft as shown.



If your kit has 6mm ID, 4mm Length Aluminum Spacers and your 6mm D-Bore Miter Gear looks like

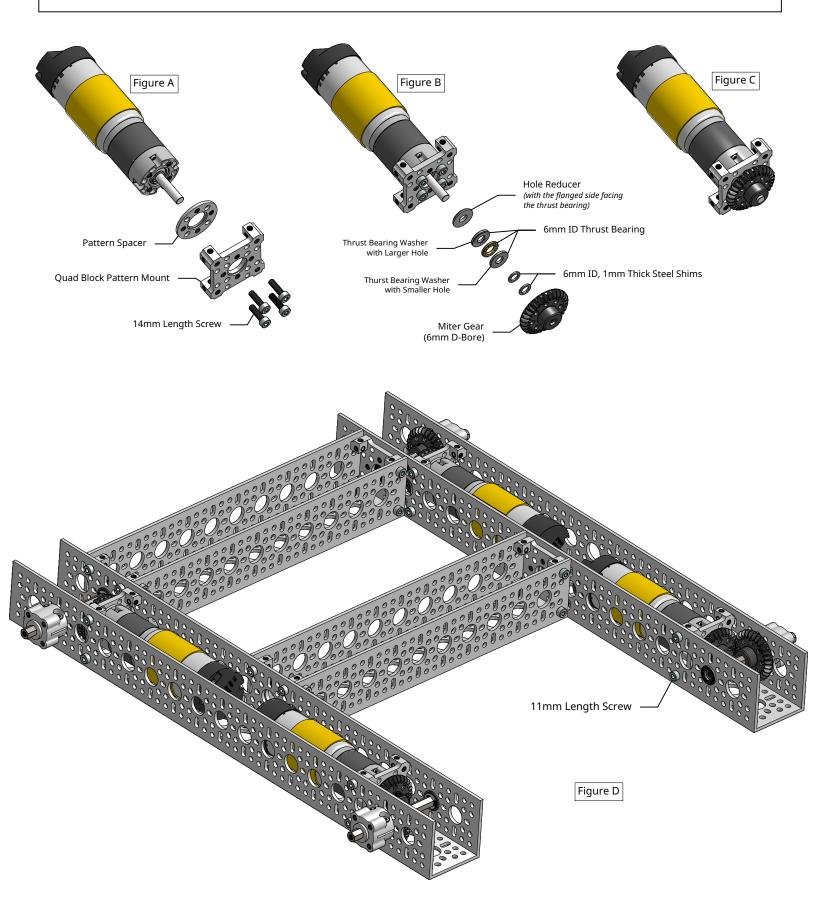
#### **STEP 3A - Drive Motor Assemblies**

When this page is complete, your chassis will look like Figure D. Create four drive motor assemlies as illustrated in Figures A-C below. Note that while the thrust bearings each come with 2 washers, we are only using one washer for each thrust bearing (the one with the slightly smaller ID). Next, using sixteen 11mm length screws, mount the drive motor assemblies into your chassis as shown in Figure C.



#### **STEP 3B - Drive Motor Assemblies**

When this page is complete, your chassis will look like Figure D. Create four drive motor assemblies as illustrated in Figures A-C below. Next, using sixteen 11mm length screws, mount the drive motor assemblies into your chassis as shown in Figure C.



#### **STEP 4 - Wheels**

The final step is to use sixteen 14mm length screws (each with a washer) to fasten the wheels to the Hyper Hubs. Note that each side of the robot gets one left slant wheel and one right slant wheel. Also note that each wheel's core has a shallow side and a deep side - the deep side will be towards the outside of the chassis (see Figure B). For ease-of-assembly and visibility, we have been looking at this chassis upside-down. Once you flip your chassis right-side-up and look down from above (Figure C), the rollers of the wheels should "point" towards the center of the chassis.

