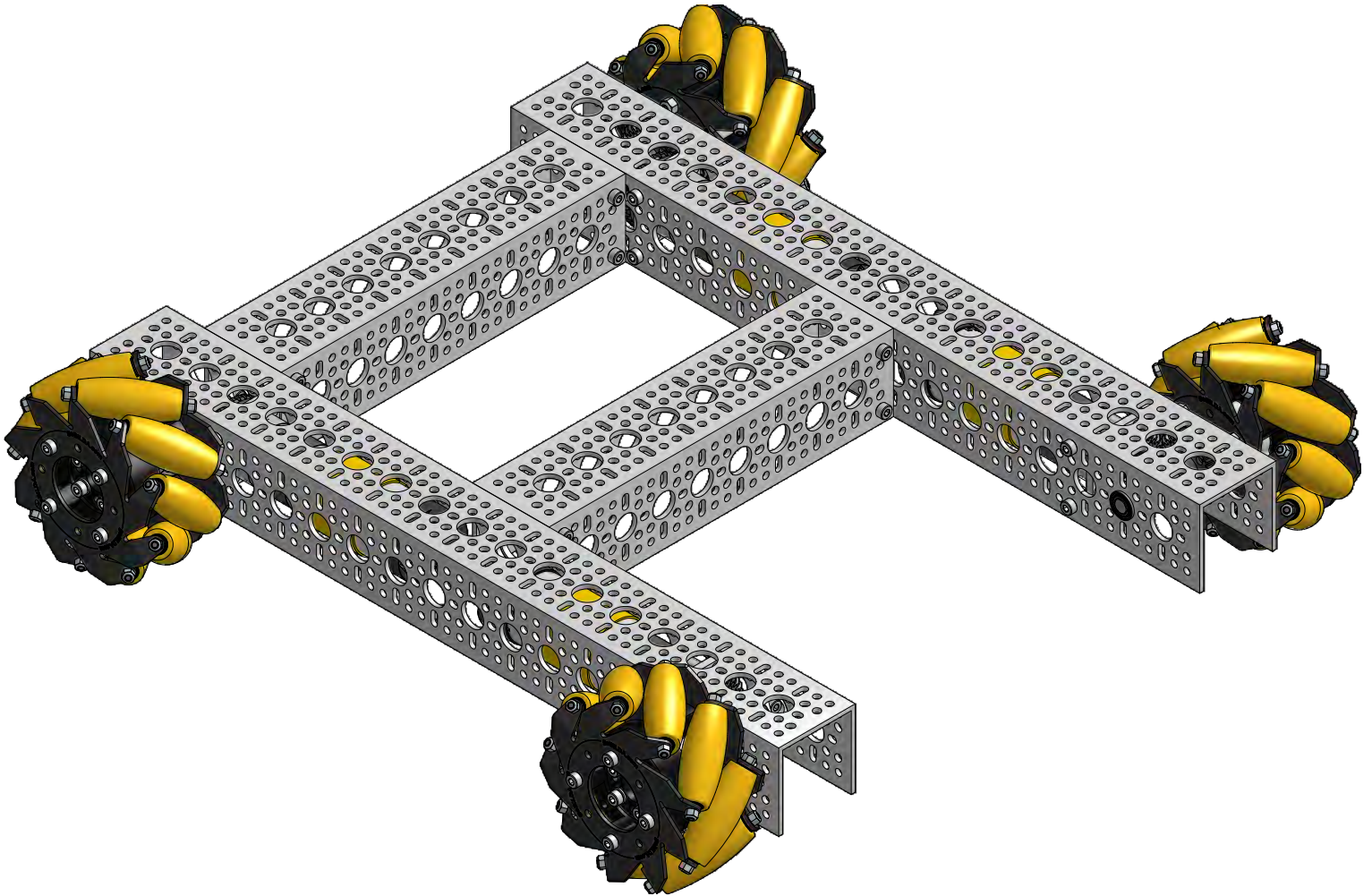
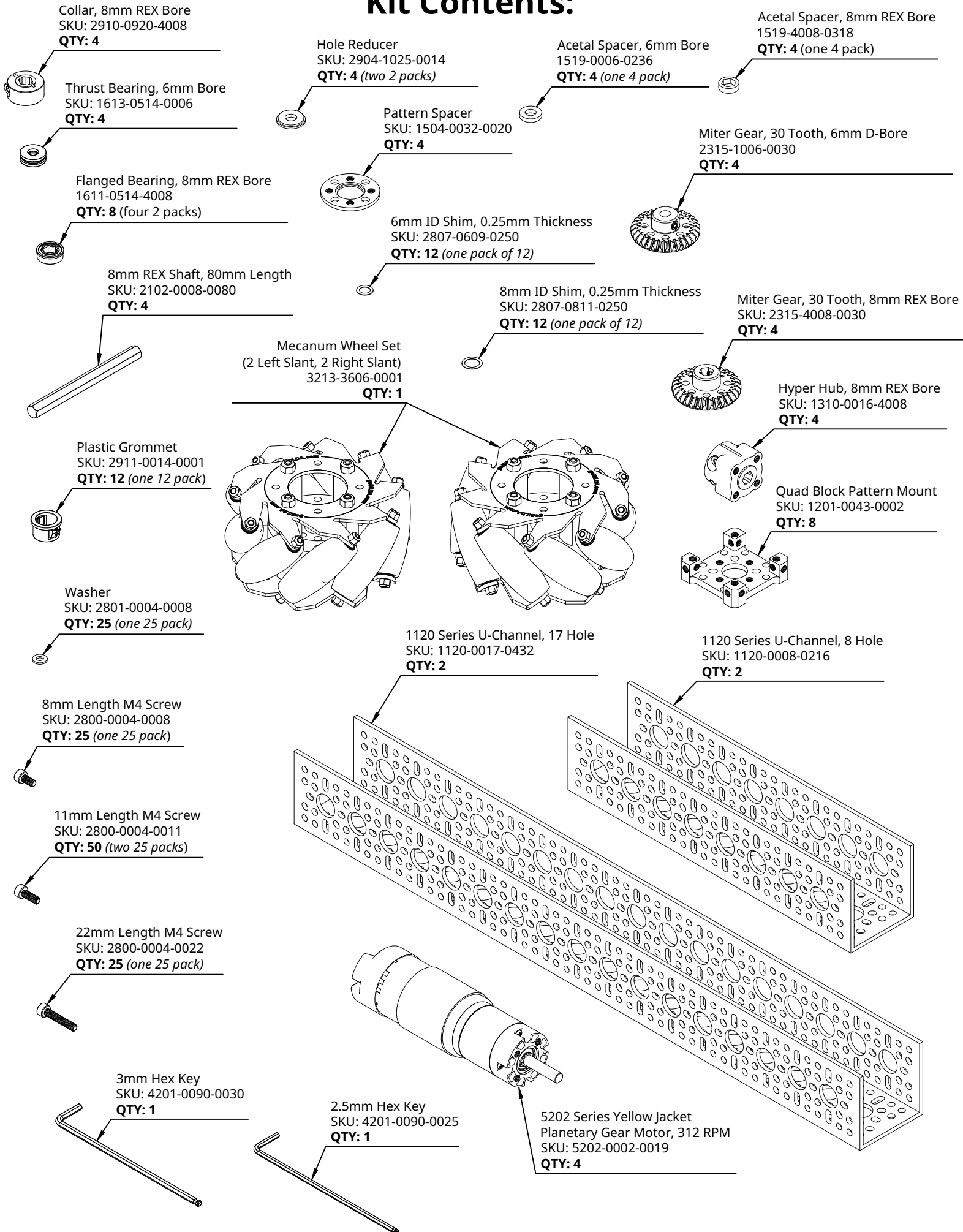


# Assembly Instructions for **Strafer Chassis Kit (V2)**

SKU: 3209-0001-0002



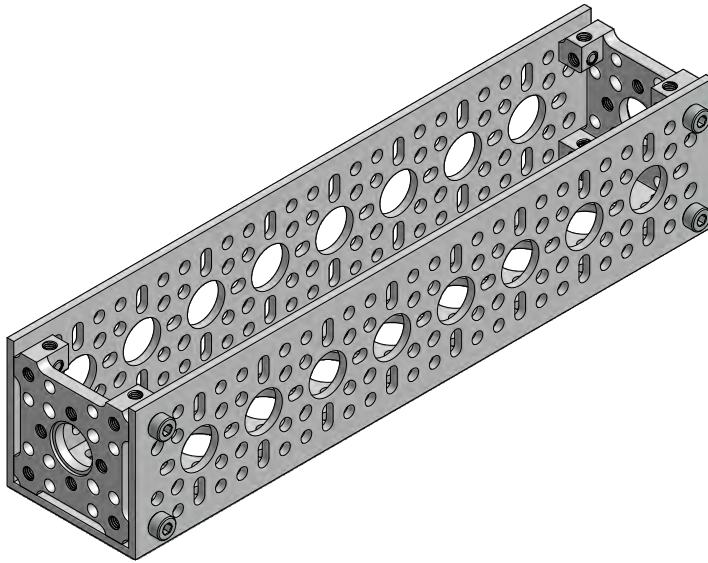
# Kit Contents:



## STEP 1

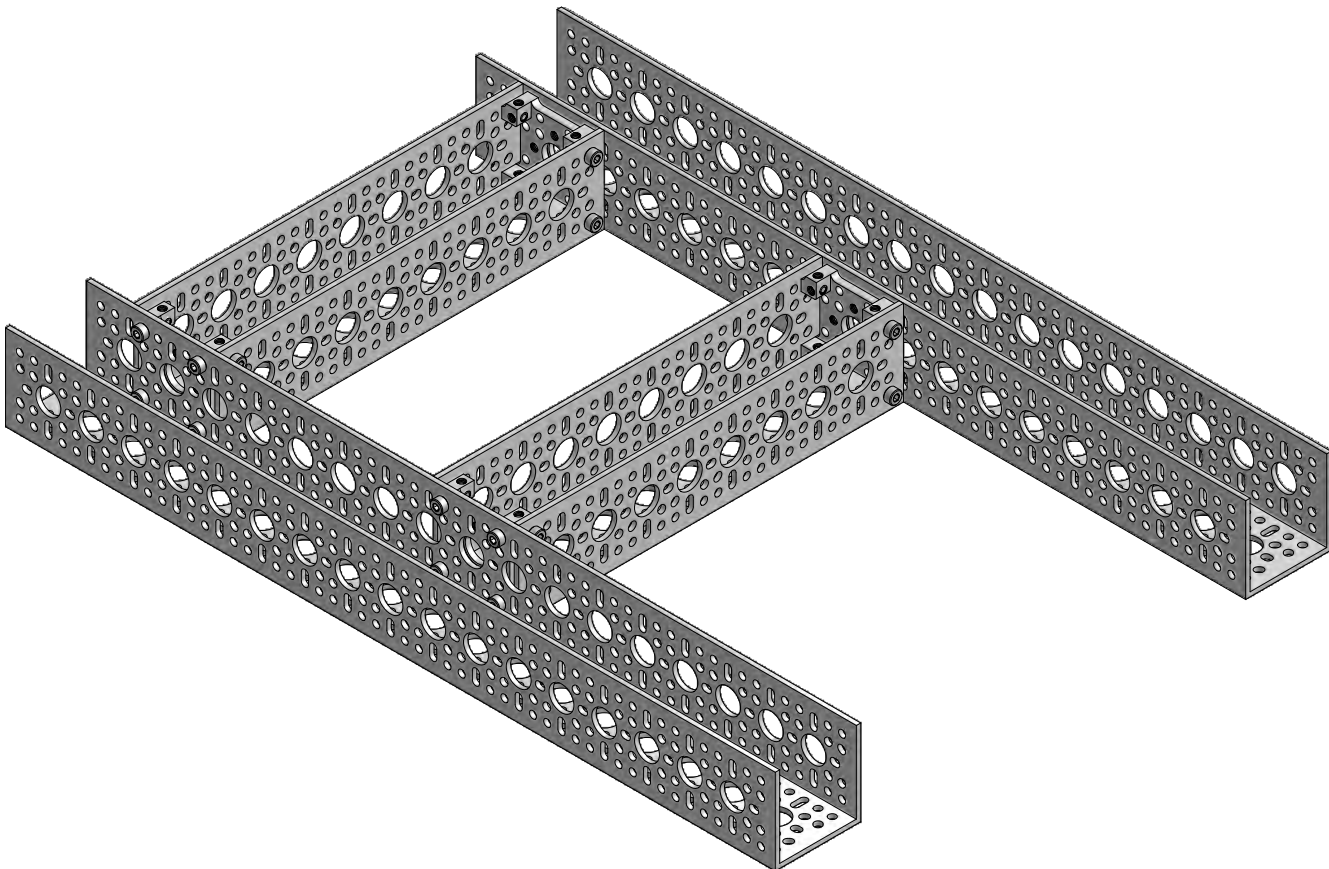
Using eight of the 11mm long screws, fasten a Quad Block Mount to each end of an Eight Hole U-Channel as shown.

*Repeat this process on the other eight hole U-Channel.*



## STEP 2

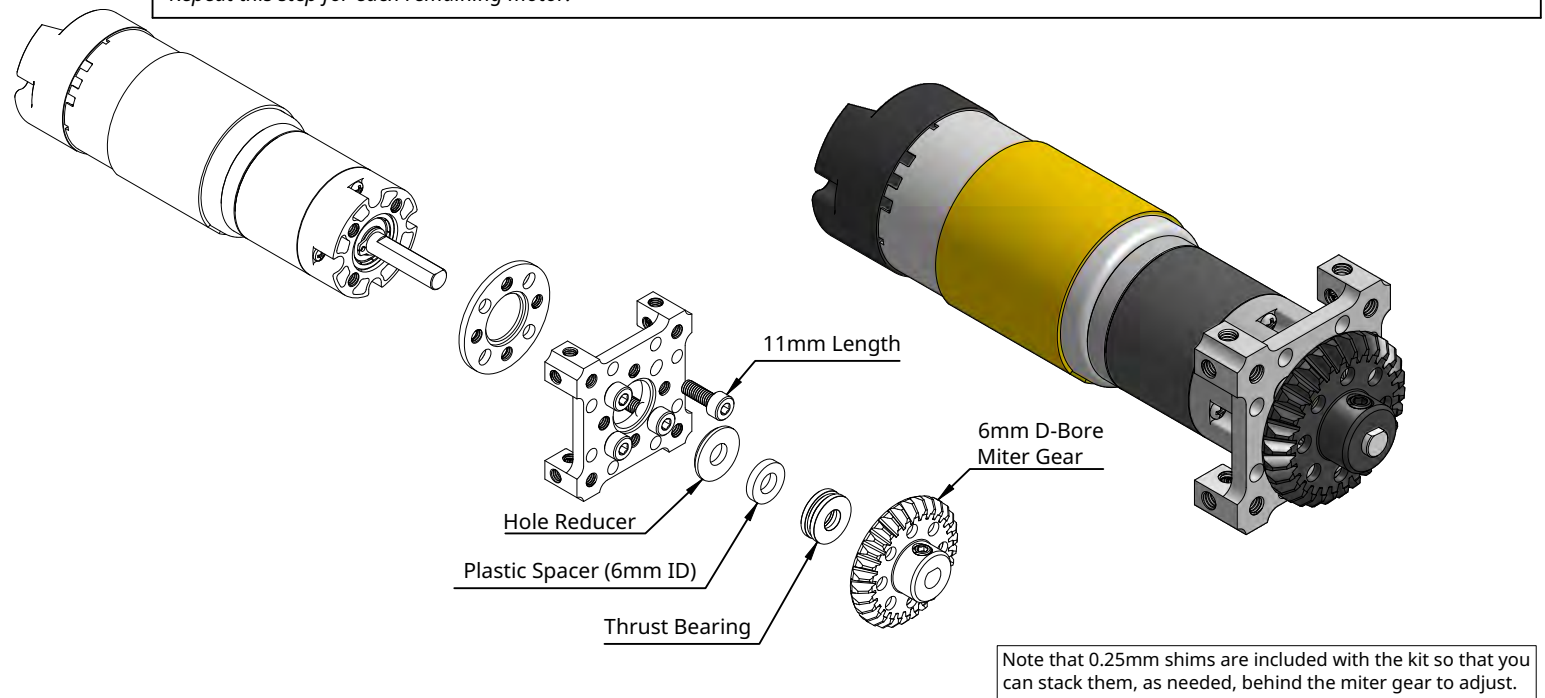
Using sixteen of the 8mm long screws, fasten the Eight Hole U-Channels to the Seventeen Hole U-Channels as shown. A recommended location is shown but the location you choose could be different based on your needs.



### STEP 3

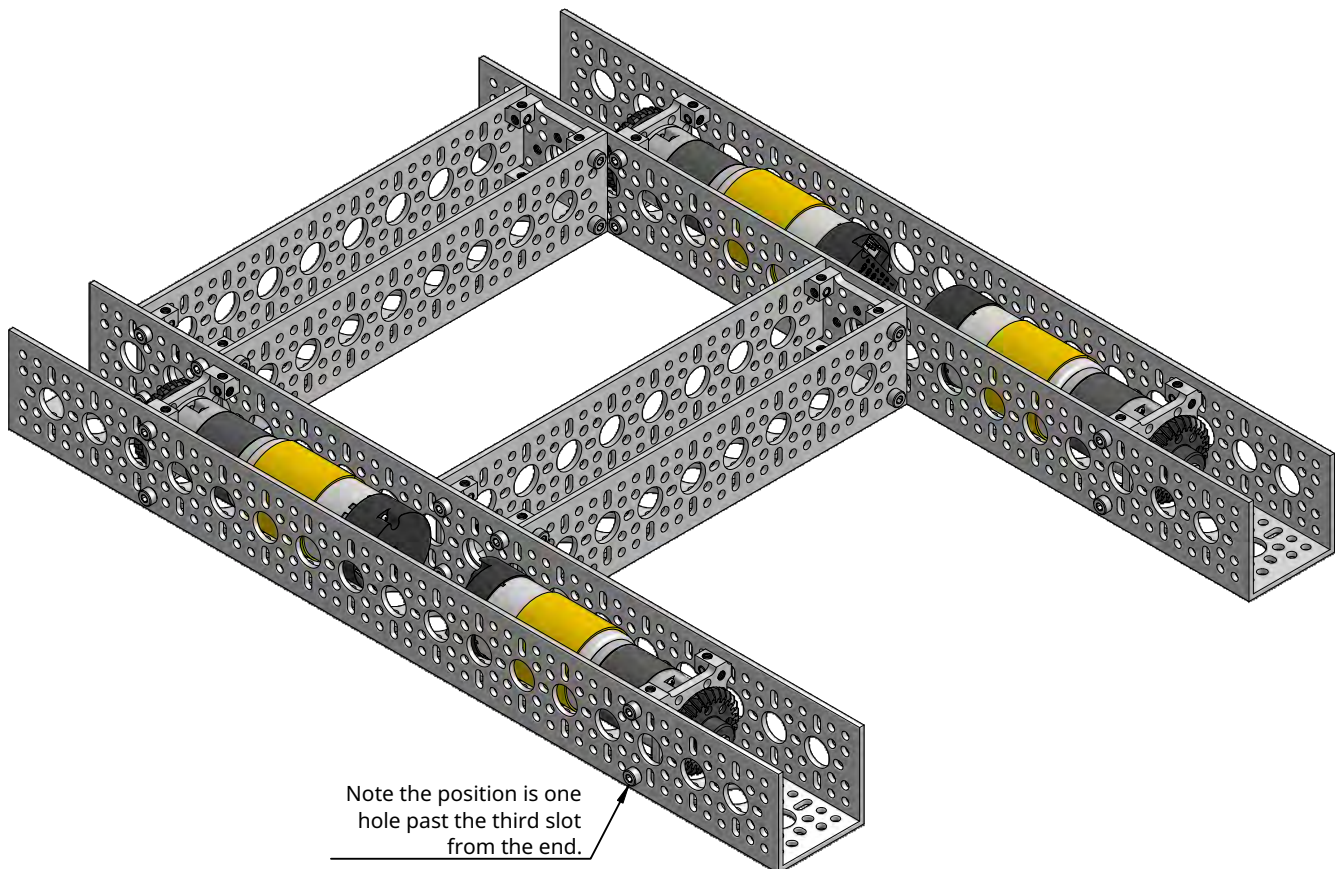
Using four 11mm long screws, fasten a Quad Block Pattern Mount and a motor together with a Pattern Spacer between as shown. Next, place a hole reducer in the 14mm hole of the Quad Block Pattern Mount, and slide a plastic spacer and thrust bearing onto the motor shaft. Finally slide a 6mm D-bore miter gear all the way onto the shaft and tighten the set-screw.

*Repeat this step for each remaining motor.*



### STEP 4

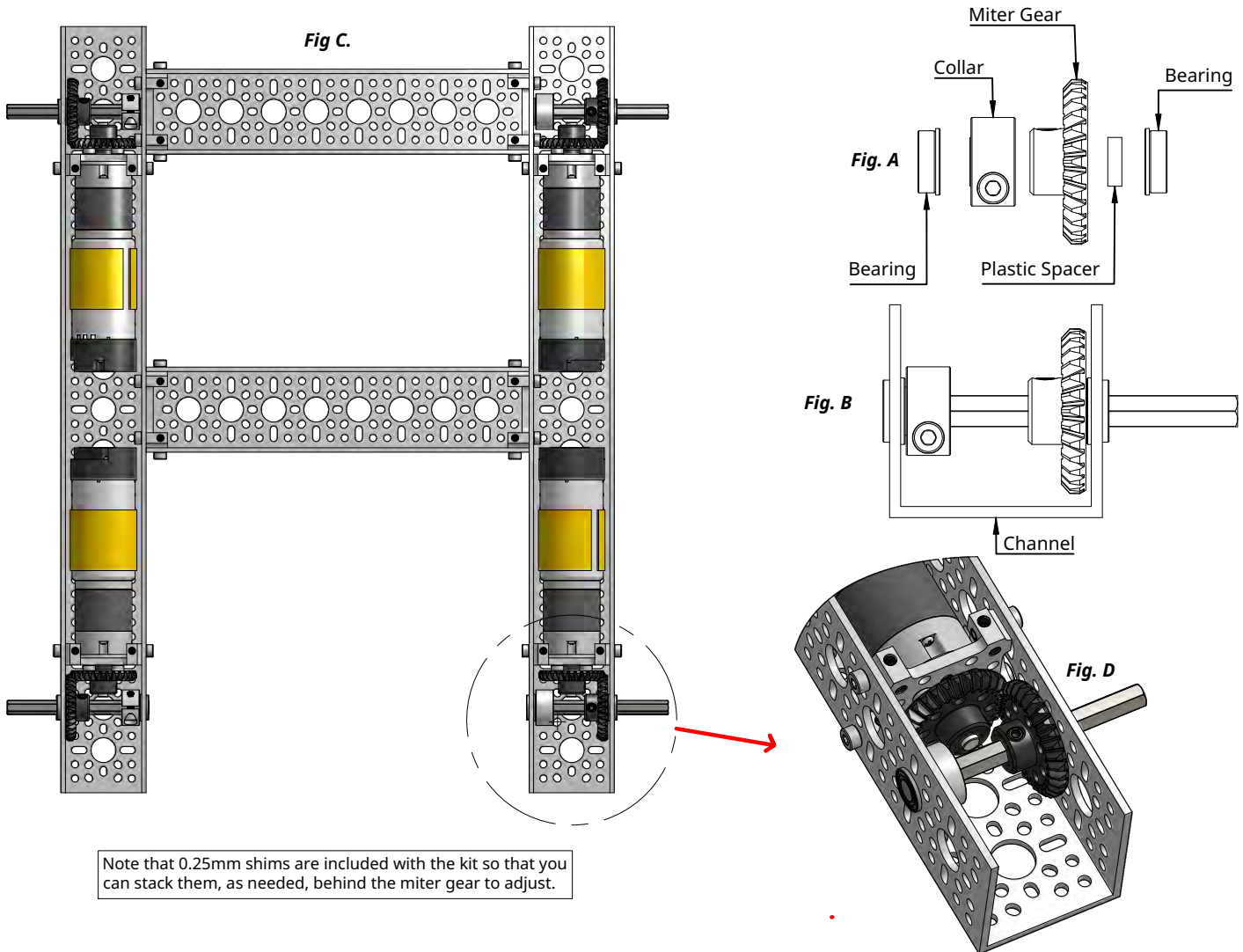
Using sixteen 11mm long screws, mount the motor assemblies from Step 3 into the chassis frame as shown.



## STEP 5

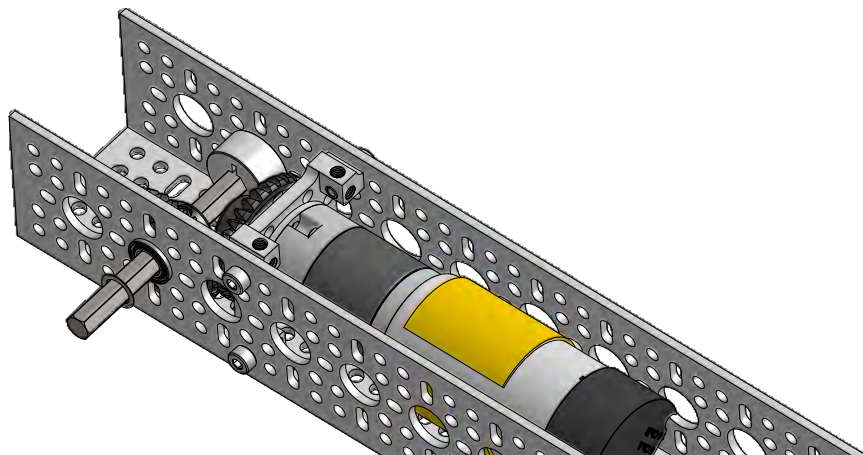
Now we are ready to get the wheel shafts installed. Grab an 8mm REX shaft and choose which motor it will be driven by. Begin to insert it into the nearest possible 14mm hole (see figure D below for an example). Then, *on the inside of the channel*, slide each of the components shown in figure A onto the shaft in the order shown. The Miter Gear will be towards the outside of the chassis (see Figure C for overall miter gear orientation). The flanges of the bearings are on the *inside* of the channel - the non-flanged side of the bearings will protrude through the 14mm holes. The end of the shaft on the collar side (see the left side of Figure B) should be flush with the outside edge of the bearing. Now tighten down the pinch bolt of the collar and the set-screws of the miter gear. Note that the collar does not need a shim between it and the bearing given it has a built-in shim.

Repeat this step for each remaining 8mm REX shaft. When you are done, your chassis should look like Figure C.



## STEP 6

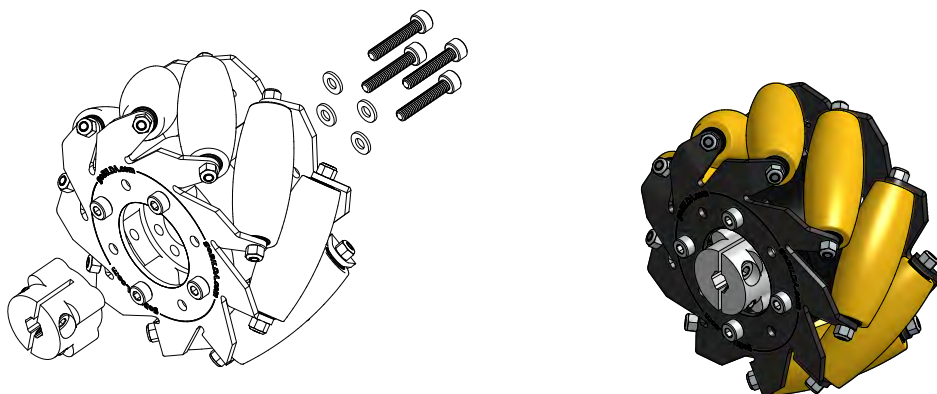
Slide one 0.25mm steel shim all the way onto each of the wheel shafts.



## STEP 7

Using four 22mm long screws (each with a washer), fasten a Hyper Hub to one of the mecanum wheels. The hub goes on the side with the more shallow offset of the wheel core.

*Repeat this step for each remaining wheel.*

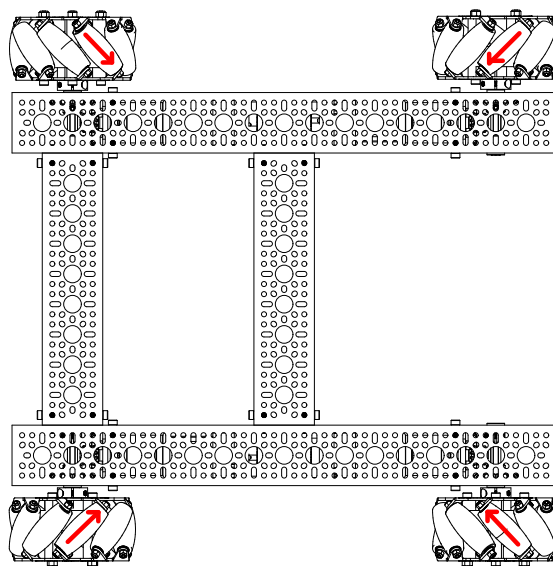
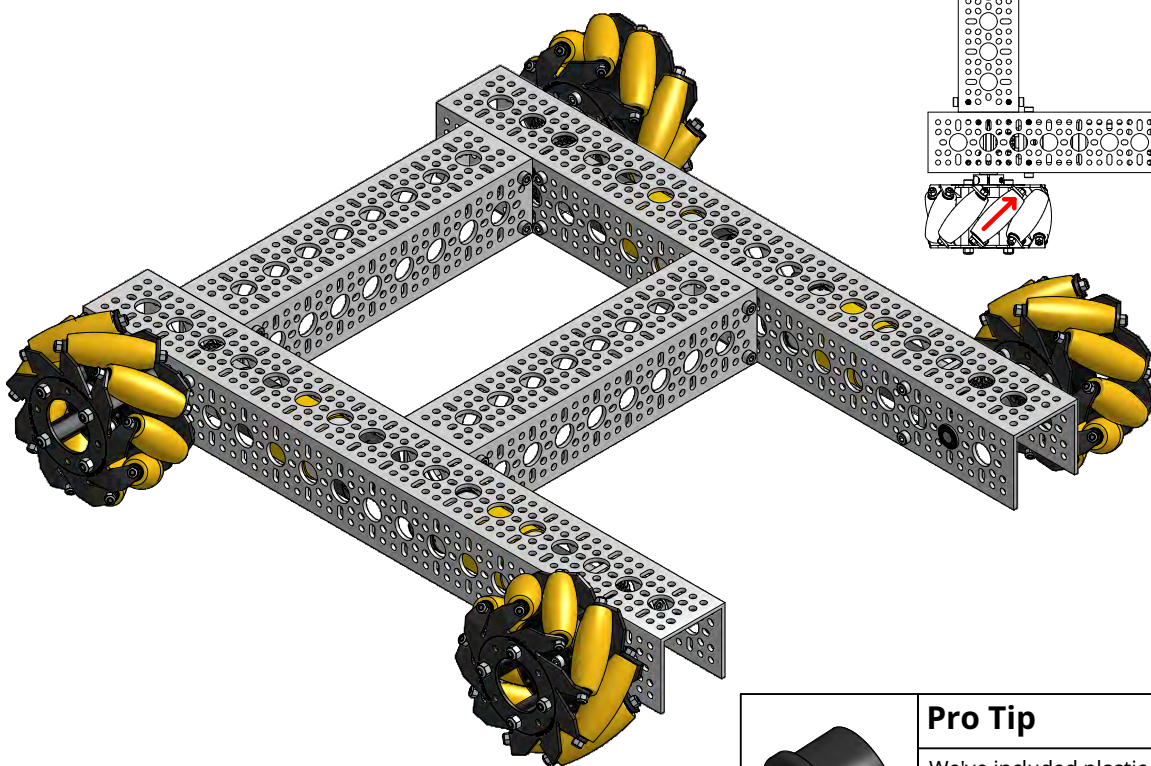


## STEP 8

Attach your wheel/hub assemblies from Step 7 to your chassis by simply sliding each one onto a wheel shaft all the way and then tightening the pinch bolts of the hub. When seen from a top-down view, the rollers on the wheels should appear to point towards the middle of the chassis.

## CONGRATULATIONS!

Your Strafer Chassis Kit is now assembled and ready to be wired up!



### Pro Tip

We've included plastic grommets that easily snap into the 14mm holes of U-Channel. Use these anywhere you are routing wiring through the channel. This prevents the wire jackets from chaffing against the metal edge of the channel and adds a polished look to your chassis.