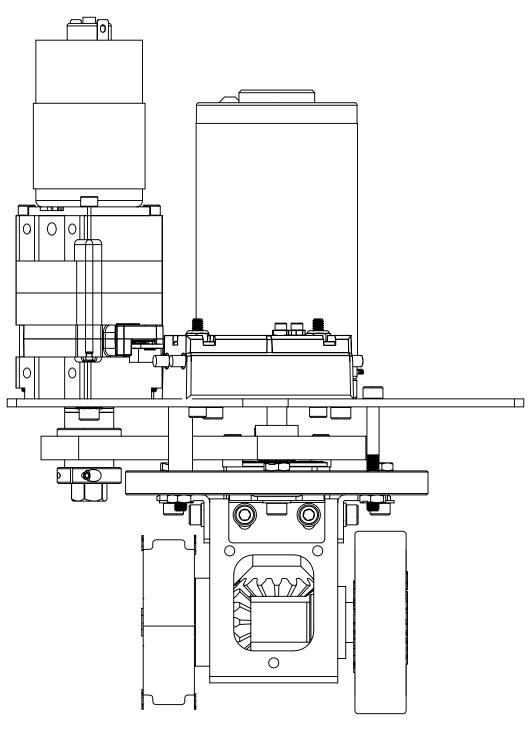
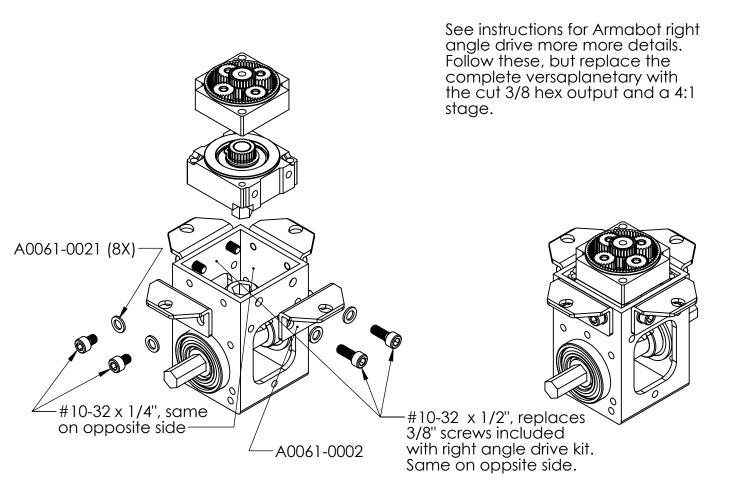
# ARMABOT

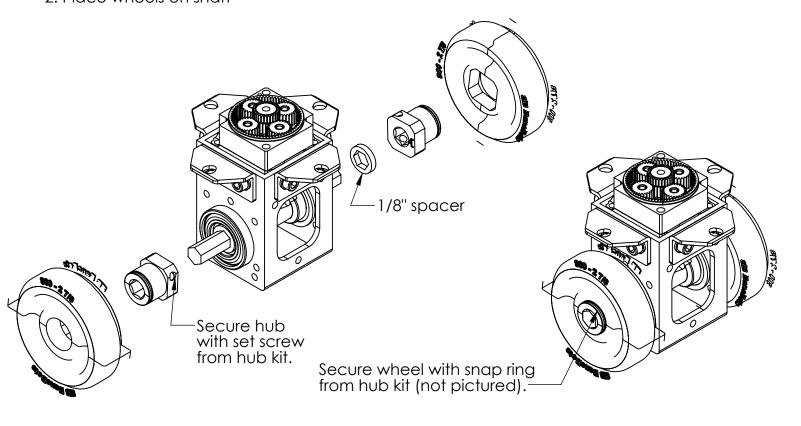
# Simple Swerve P/N A0061 Assembly Instructions



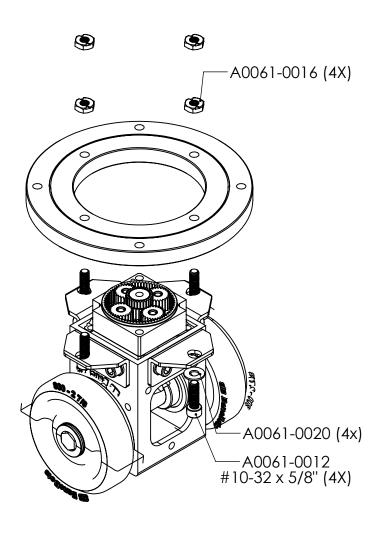
## 1. Assemble Right angle drive

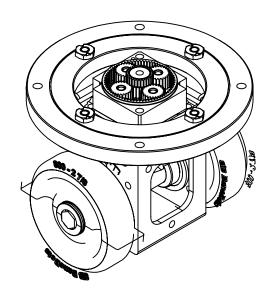


### 2. Place wheels on shaft

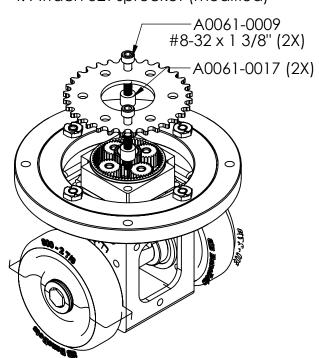


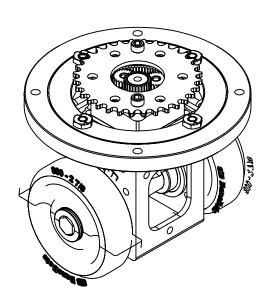
## 3. Attach bearing to wheel module.

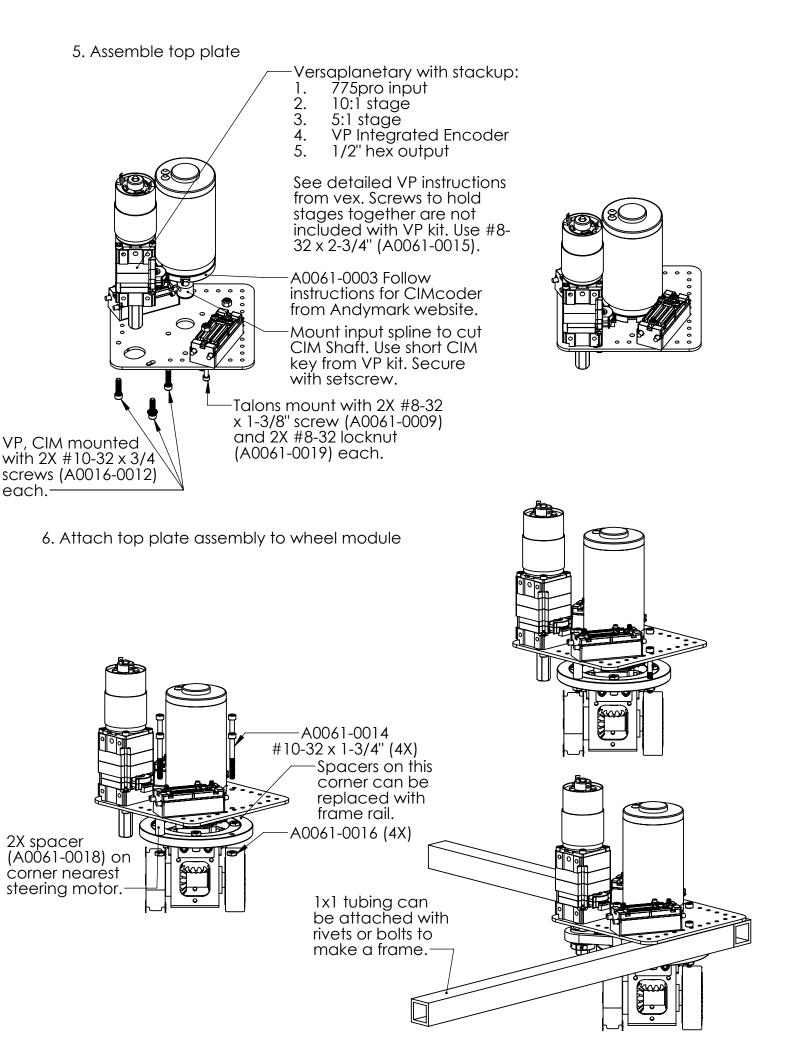


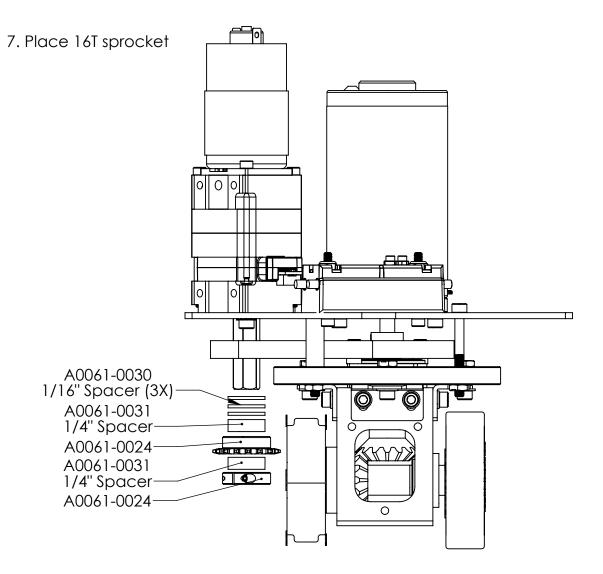


## 4. Attach 32T sprocket (modified)









### 8. Place chain

Use the master link that comes with the chain. You can use the sprocket to align the 2 ends. Then loosen the VP mounting screw in the slotted hole and twist the module to tension, and re-tighten the screw. The wheels should spin with even resisance throughout the full range of rotation. If this does not hapen, the axes of the vertical wheel drive shaft and the lazy susan bearing may be misaligned. This can be fixed by loosening the screws mounting the wheel module to the bearing and rotating the module to center it before re-tightening.

### 9. Wire components

Use the encoder breakout board (A0061-0034) to connect the CIMcoder to the Talon SRX that controls the drive. Use a Talon SRX Data Cable (A0061-0033) to do this. Use another one to connect the VP Integrated Encoder to the other Talon SRX (the one that controls the steering). This allows control loops to be run directly on the Talon, saving roboRIO power and allowing a faster frequency.