

## Drive Wheel Replacement Instructions

### Disconnect #35 chain connecting Motor and Transmission Shaft

1. Loosen 5/16-inch hex nuts holding the motor in place.
2. Slide motor towards the transmission shaft to add slack to the #35 chain.

### Disconnect #50 chain connecting Drive Wheel and Transmission Shaft

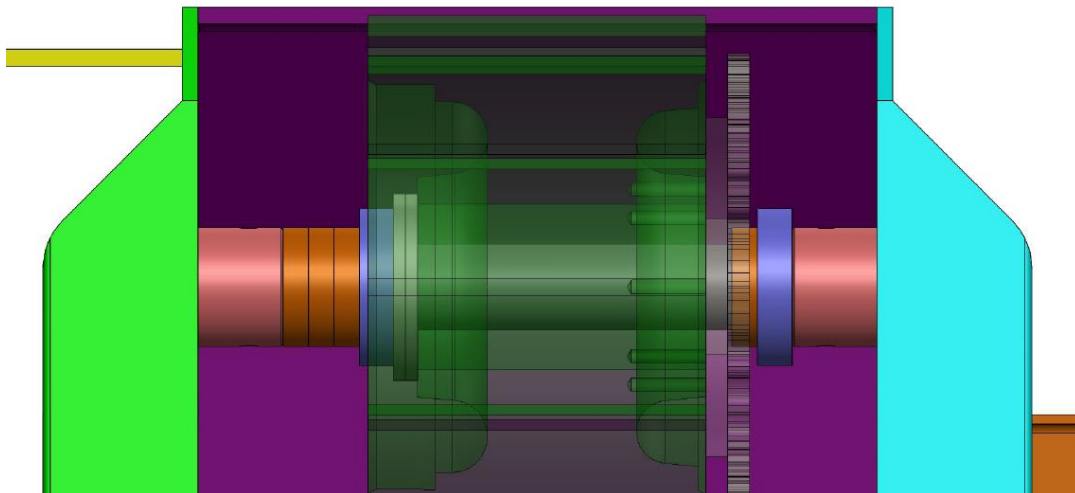
1. Loosen 3/8-inch nylock nuts holding the transmission shaft flange bearings in place.
2. Slide transmission shaft towards the drive wheel axle to add slack to the #50 chain.
3. Find and remove the roller chain clip on the #50 chain using a needle nose pliers.
4. Remove #50 chain link and the #50 chain along with it.

### Remove Old Drive Wheel

1. Make note of the spacer/washer configuration on the drive wheel axle (you will put them back on the same way when replacing the wheel).
2. Remove the 1/4-inch bolts going through the drive wheel axle.
3. Remove pump cover and remove bolts securing the pump.
4. Without disconnecting any wires, lift the pump and slide a rod underneath it and begin pounding out the drive wheel axle.
5. Slowly pound the axle out, removing all components as you go (careful, drive wheel is quite heavy).

### Install Drive Wheel Axle, Drive Wheel and Spacers

1. Apply grease to the insides of the drive wheel axle collars and all spacers/spacers/washers before installation.
2. Insert Drive Wheel Axle starting from the right side (opposite of pump) along with spacers, Drive Wheel and washers in the same configuration as before.



*Viewed from bottom - your spacer configuration may be different*

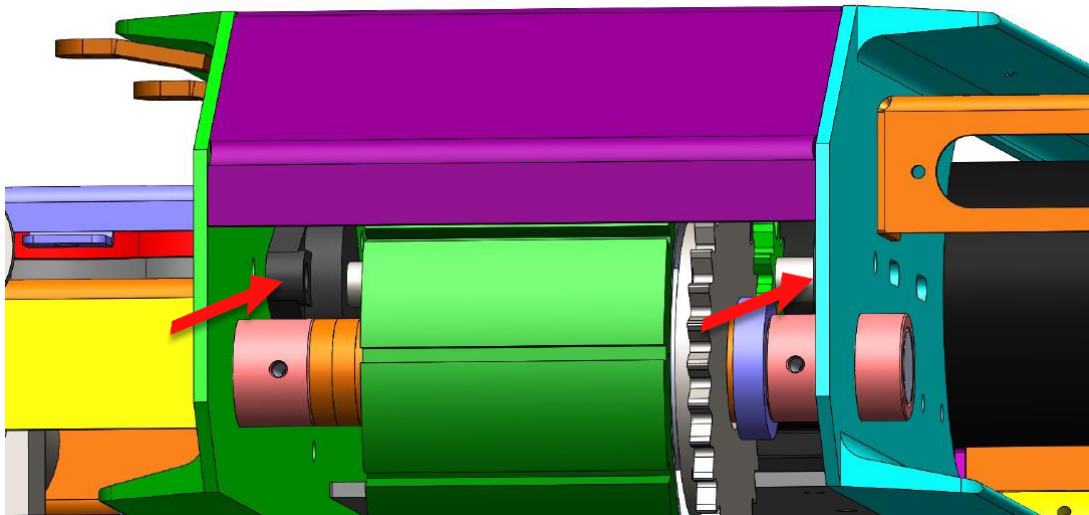
3. Use additional shims as necessary to ensure a snug fit.
4. Ensure that thru holes in the drive wheel collar and drive wheel axle for the 1/4-inch bolts are aligned before pounding axle all the way in.
5. Use dead blow to pound the drive wheel axle all the way in until flush with collar.
6. Replace bolts for the pump.
7. Find grease zerk on the left side of drive wheel and use grease gun to thoroughly grease wheel bearing until grease just begins to extrude from behind the large flat washers.

#### Fasten Drive Wheel Axle to Drive Wheel Axle Collars

1. Insert bolts pointing towards the front of the unit.
2. Use lock washers and nuts to secure the axle into place.

#### Tension #50 Chain

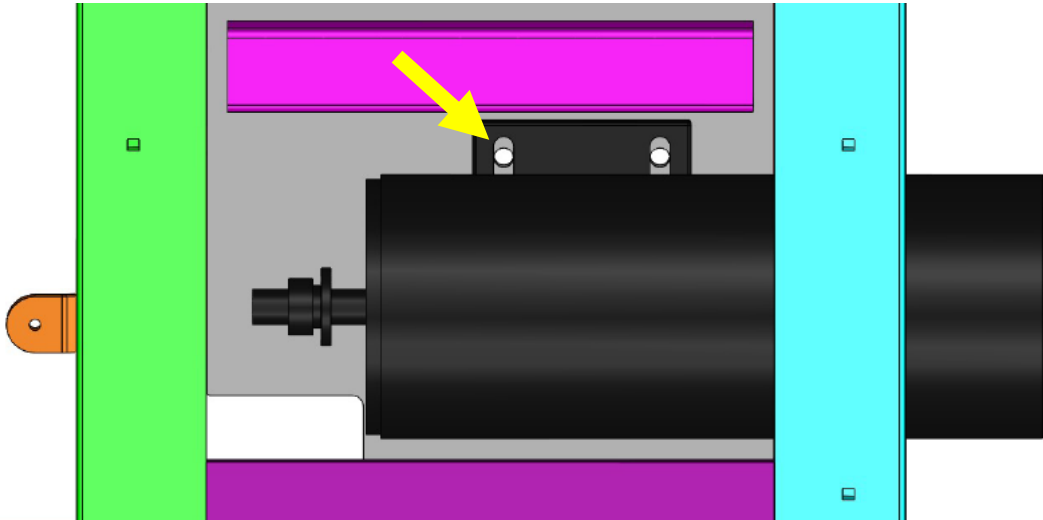
1. Tighten 3/8-inch nylock nuts holding flange bearings in place just snug enough where flange bearings can be pounded to tighten chain but will not “bounce” back.
2. Pound each flange bearing a little bit at time using a long metal rod, tensioning the #50.



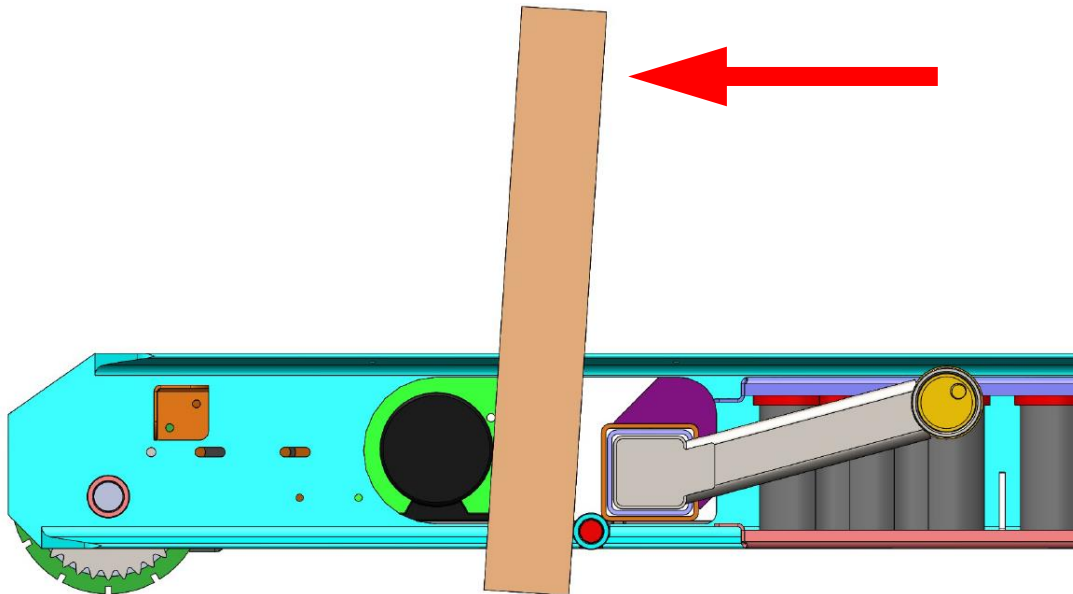
3. Transmission shaft should be square to the frame, chain should be taut, but drive wheel should still spin without too much resistance.
4. Once properly in place, torque the 3/8-inch nylock nuts securing the flange bearings to 40 ft-lb.

### Tension #35 Chain

1. Slide motor back with motor end cap (opposite of motor shaft end) rotated ever so slightly away from the drive wheel.
2. Torque rear left 5/16 hex nut to 22 ft-lb



3. Use a 2x4 piece of lumber (or something similar) as a lever to rotate motor end cap towards the drive wheel, thus tensioning chain.



4. Motor should be square to frame, chain should be taut, but drive wheel should still spin without too much resistance.
5. Once properly in place, torque the three remaining 5/16-inch hex nuts to 22 ft-lb.