

5.7 Drive Shaft Bearing Replacement

Note: This section goes into detail about how to replace a faulty or broken drive shaft bearing.

1. Power-Off the Olympus O-Frame by disconnecting the AC supply power to the SSIU. Follow your site “Lock-Out” procedure to ensure the power is not restored until this procedure is completed.
2. Using a standard Philips head screwdriver, open the panels covering the housing station for the drive motor on the Olympus O-Frame (see Figure 5.1.1).

Figure 5.1.1 is on page 13

3. Adjust tension of the carriage belt, closest to the bearing in which you are trying to remove, so that you can pull the belt over the drive shaft pulley above the drive shaft bearing (see Figure 5.7.1).
4. Use a 5/8” socket to remove the bolts holding the drive shaft bearing (see Figure 5.7.2).

Figure 5.7.1

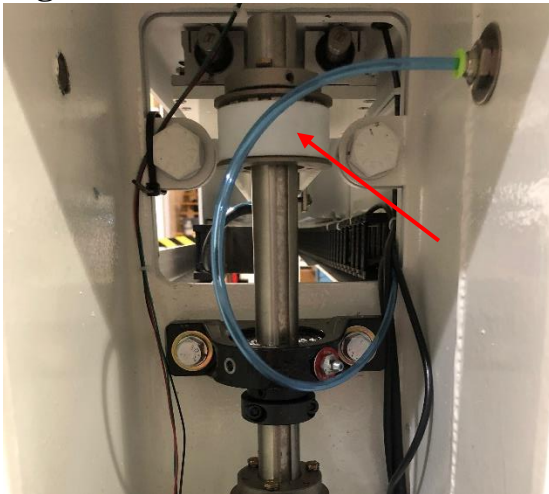
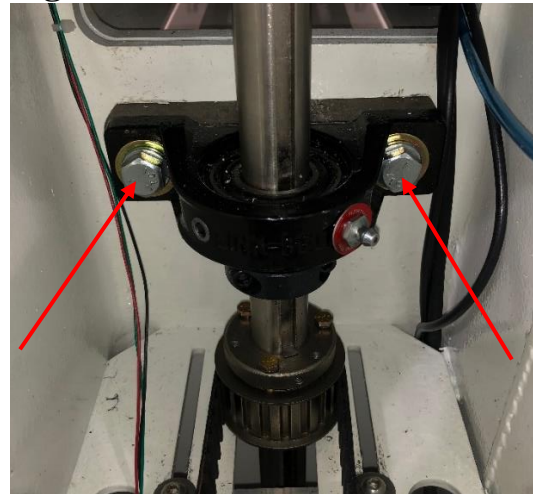


Figure 5.7.2



5. Remove the drive shaft pulley: Using a 5/16” wrench, remove the three bolts that secure the split-taper bushing to the pulley (see Figure 5.7.3).

Figure 5.7.3

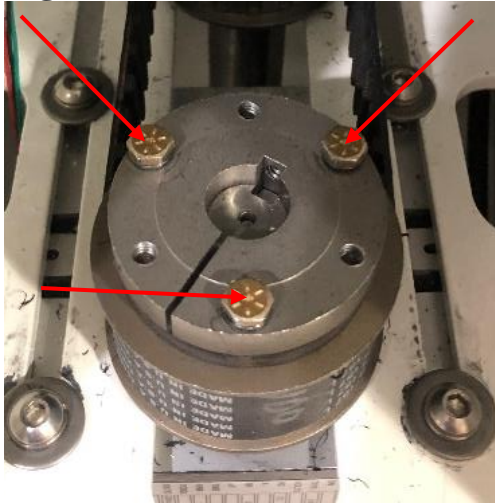
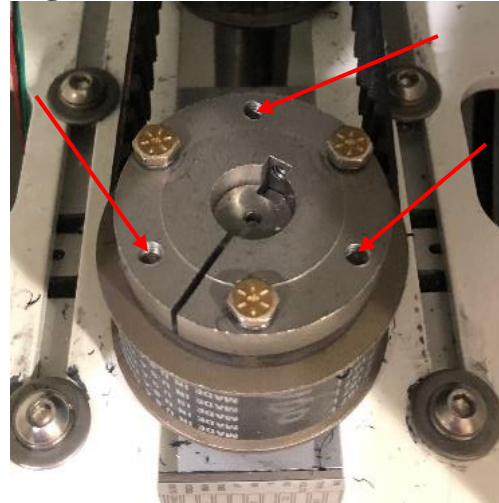
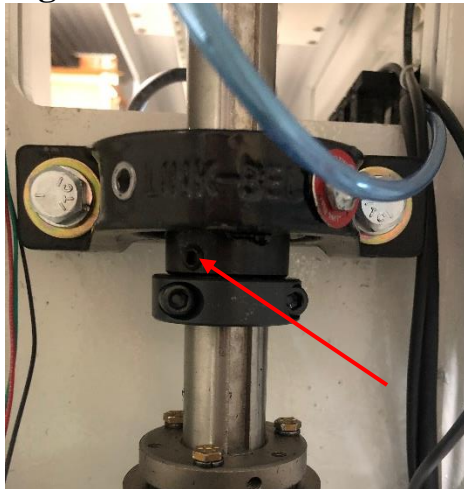


Figure 5.7.4



6. Once the bolts have been removed, thread the bolts into the other two holes within the split-taper bushing. Using the 5/16” wrench alternate tightening the bolts until the split-taper bushing and the pulley separate (see Figure 5.7.4). Pull the pulley off of the drive shaft.
7. Using a 1/8” Allen Wrench, loosen the key underneath of the drive shaft bearing (see Figure 5.7.5). Then pull the bearing up and off of the drive shaft.

Figure 5.7.5



8. Place the replacement bearing on the drive shaft, and reverse the procedure in order to reinstall the drive shaft bearing.
9. Once the unit has passed a visual inspection, reinstall and secure all panels on the Olympus O-Frame.
10. Return power to the unit and follow the system restart procedure found in Section 3.0.