

SERVICE BULLETIN

Measuring Endplay on PreSet® Wheel Ends

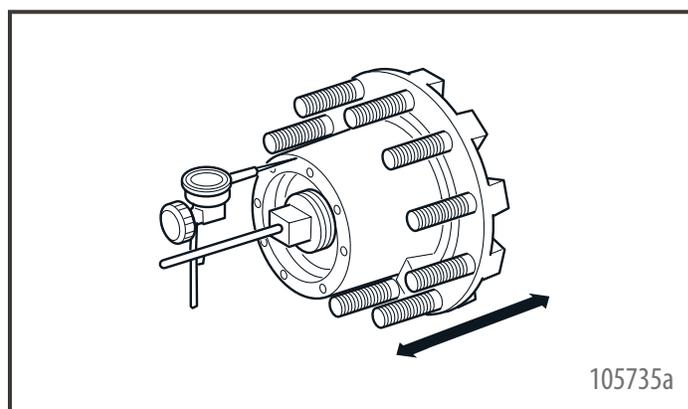
Field measurement of bearing endplay is not necessary on PreSet and PreSet Plus hubs. The bearing endplay is controlled at the factory by the precision components and assembly processes. PreSet and PreSet Plus wheel ends are designed to operate between $-.001$ " and $+.006$ " endplay. There is no need to measure endplay on new wheel ends or wheel ends serviced using ConMet components. If you do measure endplay keep in mind that it can be difficult to do so accurately when the wheel end is installed on a vehicle.

Measurement procedure:

1. Remove the hubcap or drive axle shaft. Use an appropriate container to catch the lubricant. Clean off any gasket material on the hubcap surface.
2. Attach the magnetic base of the dial indicator to the spindle. Touch the dial indicator stem to the hubcap mounting surface.
3. Grasp two wheel studs across from each other. Pull and push while oscillating the hub.
4. Measure the end play by calculating the difference between the minimum and maximum dial indicator readings. Unless the end play measurement exceeds 0.006 ", no additional service is necessary. If the spindle nut is correctly locked, do not adjust or retighten the spindle nut.

Note: A measurement of 0.000 " can occur and does not indicate an issue as long as the hub can still rotate freely.

5. Replace any lubricant lost during the inspection process with fresh lubricant to the appropriate level.



If endplay exceeds 0.006 -inch (0.15 mm), service the hub.

ConMet recommends the following indicators to determine when hub service is required:

1. The hub is getting hot during operation. The maximum safe operating temperature measured at the hub barrel is 150° F (66° C) above ambient. This can be measured during an in-route stop or after a normal run.
2. Tight or rough rotation. With the axle lifted and supported check that the wheel rotates freely and smoothly. Listen and feel for any signs of rough bearing operation or vibration.
3. Contamination or metal particles in the lubricant. Place a magnet (or inspect the magnetic fill plug if equipped) in the lubricant and check for signs of large metallic particles.

The information in this bulletin is intended as a reference source only. Consolidated Metco does not assume any liability in the event of improper use or mis-match of components. For additional information, visit our web site at conmet.com or call 800.547.9473.