



Trailer Suspensions

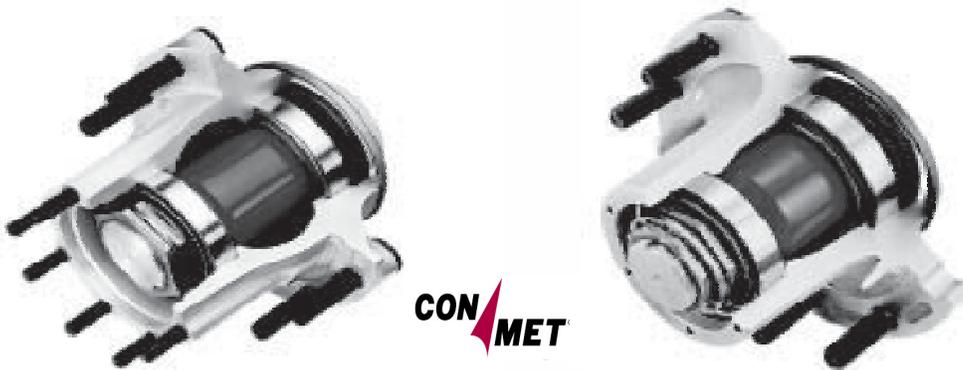
H TECHNICAL BULLETIN

No: 97117-136

Subject: Preset Hub Installation

Date: April 2007

Revision: C



PreSet Hub Installation Procedures

CAUTION! Failure to fill the hub with the correct quality and amount of lubricant can cause premature failure of the PreSet hub assembly.

IMPORTANT! Use the Correct hubcap for the type lubricant you intend to use.

1. Use only clean parts for service. If light corrosion has formed on the spindle, it is important that you remove it and thoroughly clean the spindle before beginning installation.
2. Lubricate the bearings using the same lubricant that is used in the wheel end. Lubricate the inner lip of the seal. Apply a light coat of grease to the spindle to prevent corrosion. Be sure to cover both the bearing and seal journals.
3. If this is a re-installation, the seal must be replaced. Be sure to follow all manufacturer's instructions, including use of the correct seal installation tool. Lubricate the seal bore in the hub and outside diameter of the seal before installation.
4. Lubricate the inside diameter of the seal with a light film of oil and install the PreSet hub all the way onto the spindle. Allow the temporary plastic alignment sleeve, if present, to be pushed out of the PreSet hub as it is installed onto the spindle. If an alignment sleeve was pushed out, it can be discarded. Once the hub is on the spindle, **Do not remove the outer bearing.** Removing the outer bearing may cause the seal to become miss-aligned, resulting in premature seal failure. If the outer bearing must be removed, the hub must be supported to prevent seal misalignment.
5. Remove the temporary outer bearing retainer and install the spindle nut. Torque the spindle nut to 300 ft. lbs. (405Nm) **Do not back off the spindle nut.** Engage any locking device that is part of the spindle nut system. If the locking system cannot be engaged when the nut is at 300 ft-lb. (405Nm), **advance** the nut until engagement takes place and the nut is locked. If a double nut or jam nut system is being used, install the second nut with 200ft. lbs. Torque. (*Be sure to engage any locking device.*)

6. Install the hubcap. A ConMet PreSet[®] hubcap, or approved equivalent, is required to aid in identification of the assembly in the field, and to ensure adequate venting. The hubcap bolt holes must be free of debris, such as silicon gasket sealer, to ensure that the bolts will tighten properly to avoid leaks. Always lubricate the bolt threads, Use new hub cap gaskets and flat washers only. Do not use split, star or any type of locking washer.

7. Fill the hub with the correct amount of "Semi-Fluid" grease at room temperature (86^oF / 20^oC). This must be a measured amount as listed in the table below. Use the fill hole in the Hub assembly. The fill hole facilitates addition of semi fluid grease so that both bearings are lubricated at start up. Ensure that the filler hole O' Ring is clean and undamaged before fitting. Tighten the filler plug to 20ft.Lbs (27Nm).

8. Lubricants.

CONMET[®] HUBS WITH PRESET BEARINGS

HUB TYPE	HUB MATERIAL	CASTING NUMBERS*	VOLUME (FL OZ)	VOLUME (ML)
HN	Aluminium	102035 102610	18.8	555
HN	Aluminium	100164 101143	22.6	668
HN	Iron	10003636	33.0	975
HP	Aluminium	100510 101259 10001216	41.4	1224
HP	Iron	10003654	55.0	1626

* The Hub Casting Number can be found cast into the flange of the hub

These lubricants have been tested and found to be compatible with the bearings and seals used in ConMet PreSet[®] Hubs.

These lubricants are not endorsed by Hendrickson or ConMet but are provided as a service to show lubricants that have been tested and found to be compatible with the factory installed components.

Mobil Mobilith SHC 007

Mobil Part No
98FE89 = 1 x 220 litre
988441 = 1 x 16.5 kg

Mobil Mobilith 220

Mobil Part No
987671 = 1 x 450g
98H699 = 4 x 2.5kg

Shell Alvania RL3

Shell Part No
300001447 = 12 x 450g
300001455 = 1 X 20kg
300001479 = 1 x 180kg

Repairers are reminded not to mix the different types of lubricant and to obtain the relevant Safety Data Sheets for each product.

NOTE:

THIS INFORMATION IS INTENDED AS A REFERENCE SOURCE ONLY. HENDRICKSON NOR CONMET DOES NOT ASSUME ANY LIABILITY IN THE EVENT OF IMPROPER USE OR MIS-MATCH OF COMPONENTS OR LUBRICANTS.