Unitized pinion seal installation instructions

Warning: To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

1. Remove old seal, taking care to avoid damaging the bearing cage seal surface area. Do not touch or allow dirt or grease to contaminate the sealing surface areas or the adjacent bearings.
2. Inspect the bearing cage seal area for scratches, nicks or burrs that may promote lubricant leakage after seal installation. Correct only minor damage using emery paper or equivalent.
3. Inspect the axle breather. If the axle breather appears to be restricted by a build-up of purged axle lubrication, accumulated oil/road debris or dirt, remove the axle breather and clean the inside and outside with a safe cleaning solvent. A restricted axle breather will allow pressure build-up inside the axle which will result in premature seal lip wear and seal damage.
4. Remove the replacement unitized seal from package. Avoid particle contamination to the seal surfaces. Handle the seal by the outside edges only. Take care and avoid touching the inside area of the seal with dirty rags or hands.
5. With clean hands, lightly lubricate the seal ID and OD, position SKF unitized pinion seal into pinion seal bore. Place the SKF universal pinion seal installation tool PT6000 over the seal. Use the pinion nut washer if available and hand tighten pinion nut until the tool rests against the seal. See Figure 1.

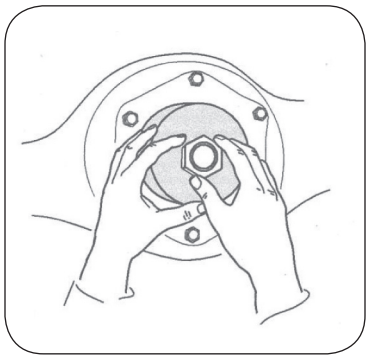

Figure 1

Note: On the forward tandem axle output location, the PT6000 will not completely seat the seal into the bearing cage retainer unless the bearing cage retainer bolts are removed first. See Figure 2.

Input pinion bearing retainer cage bolts do not have to be removed.

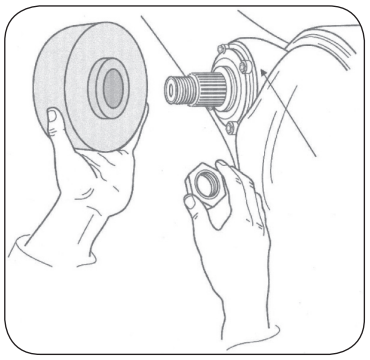

Figure 2-Remove bearing cage bolts to ensure seal is installed completely.

6. Use a torque wrench and appropriate socket, set the torque wrench break-out value at 50 ft. lbs. Tighten pinion nut until torque break-out value is indicated. See Figure 3.

Caution: Do not use a hard head hammer to install seal. Using a hard head hammer can damage the seal and installation tool.

An impact wrench is an acceptable tool with the pressure torque lowered to 50 ft. lbs. and a pinion nut washer, where available, between the pinion nut and installation tool to prevent damage to the tool.

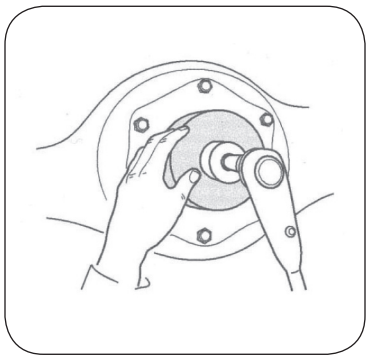

Figure 3

7. Check to make sure seal is completely seated, seal flange should be in full contact with bearing retainer. Then follow proper yoke installation instructions according to manufacturers recommendations.