**Installation procedure for CR Scotseal Classic**

1. Place the hub (wheel) assembly against a solid surface or bench at a 45° angle for seal installation. This aids in centering the bearing and seal in the hub bore. Clean bore of any particles, rust or grease.
2. Pre-lube the inner bearing cone with the lubricant that is being retained and place it into the hub.
3. Hold the tool handle firmly and straight, and drive the seal with firm hammer strokes until the seal is squarely seated. Continue driving the seal into the hub until the sound of impact changes.
4. After the seal is bottomed in the bore, check for freedom of movement by manually moving the packing of the seal up and down. Ensure that the inner bearing rotates freely.

**Caution:** Do not install the CR Scotseal directly onto the spindle.

**Caution:** Install a new seal if the seal is cocked or damaged during or after installation.
### Manual wheel bearing adjustment procedure* 3), 4)

**Step 1:** Lubricate the wheel bearing with clean axle lubricant of the same type used in the axle sump or hub assembly.  
*Note: Never use an impact wrench when tightening or loosening lug nuts or bolts during the procedure.*

<table>
<thead>
<tr>
<th>Initial adjusting nut torque</th>
<th>Initial back off</th>
<th>Final adjusting nut torque</th>
<th>Axle type</th>
<th>Threads per inch</th>
<th>Final back off</th>
<th>Nut size</th>
<th>Torque specifications</th>
<th>Acceptable end play</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial adjusting nut torque</strong></td>
<td><strong>Initial back off</strong></td>
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<td><strong>Nut size</strong></td>
<td><strong>Torque specifications</strong></td>
<td><strong>Acceptable end play</strong></td>
</tr>
<tr>
<td>200 lb-ft (271 N·m)</td>
<td>One full turn</td>
<td>50 lb-ft (68 N·m)</td>
<td>While rotating wheels</td>
<td>12</td>
<td>1/4 Turn</td>
<td>Install cotter pin to lock axle nut in position</td>
<td>0.001 in – 0.005 in (0.025 mm– 0.127 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>1/4 Turn</td>
<td>Less than 2 1/4 in (66.7 mm)</td>
<td>200–300 lb-ft (271–407 N·m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive</td>
<td>12</td>
<td>1/4 Turn</td>
<td>Dowel type washer</td>
<td>300–400 lb-ft (407–542 N·m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>1/4 Turn</td>
<td>Tang type washer</td>
<td>200–275 lb-ft (271–373 N·m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>1/4 Turn</td>
<td>Less than 2 1/4 in (66.7 mm)</td>
<td>200–300 lb-ft (271–407 N·m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trailer</td>
<td>12</td>
<td>1/4 Turn</td>
<td>Less than 2 1/4 in (66.7 mm)</td>
<td>200–300 lb-ft (271–407 N·m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>1/4 Turn</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

1) If dowel pin and washer (or washer tang and nut flat) are not aligned, remove the washer, turn it over, and reinstall. If required, loosen the inner (adjusting) nut just enough for alignment.  
2) Bendable type washer lock only: Secure nuts by bending one wheel nut washer tang over the inner and outer nut. Bend the tangs over the closest flat perpendicular to the tang.  
3) See “Wheel bearing lock nut system installation & adjustment procedures” in the 457975 SKF TFO Guide (12-2017)  
4) See “PreSet/PreSet Plus wheel bearing adjustment procedure” in the 457975 SKF TFO Guide (12-2017)  
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### Pre-adjusted wheel bearing adjustment procedure

This refers to torque specifications and bearing adjustments. Please refer to original equipment manufacturer’s recommended procedures for complete installation details.

**One piece spindle nuts** - Torque a one piece spindle nut to 300 ft. lbs. while rotating the hub. **Do not back off the spindle nut.** Engage any locking device that is a part of the spindle nut system. If the locking device can not be engaged, advance the spindle nut until the lock can be engaged.

**Double jam nut systems** - Torque the inner spindle nut to 300 ft. lbs. while rotating the hub. Advance the inner nut as necessary to engage the locking ring. **Do not back off the spindle nut.** Install the outer spindle nut and torque it to 200 ft. lbs. Be sure to engage any locking device.

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