

Wheel Bearing Replacement

Proper wheel bearing removal and installation helps avoid premature damage to bearings and surrounding components. Below are the steps for replacing tapered single-row wheel bearings in passenger cars and light trucks.

1. Wheel End Disassembly

Follow the vehicle manufacturer's recommended procedure to remove the



tire and wheel assembly, disk brake caliper, dust cap, cotter pin, adjusting nut and washers. Pull the rotor/hub assembly toward you to loosen the outer bearing cone assembly. Remove the outer bearing cone assembly. Pull the rotor/hub assembly off the spindle - the inner bearing cone assembly, inner cup, outer cup and seal will come with it. Use a seal puller to remove the seal, then remove the inner bearing cone assembly from the rotor/hub. Discard the seal after removal. Use a cup driver or mild steel bar to remove the inner cup and the outer cup from the hub assembly.

2. Clean and Inspect Hubs and Spindles

Remove all old lubricant from the rotor/ hub assembly and spindle.

Clean the rotor/hub assembly and spindle with kerosene or



mineral spirits. Inspect the spindle for wear. Use a fine file, wire brush, emery cloth or honing stone to remove any debris, nicks or burrs. Follow the vehicle manufacturer's recommendation for permissible spindle wear. Apply a light grease coating on the cone seats to ease installation and prevent fretting.

3. Install cups

Use a cup driver or mild steel bar to drive the new inner



cup and outer cup into the hub/ rotor assembly until solidly seated against the hub shoulders. Be careful not to damage the cup surfaces. Never use a bearing cone assembly to drive a cup.

4. Lubricate

Use a mechanical grease packer to pack the inner



bearing cone assembly with grease. Place the bearing cone assembly, small end down, into the grease packer funnel. Plug the bore of the large end of the bearing cone assembly with the conical retainer. Firmly press down on the conical retainer. This forces the grease between the rollers, cage and cone. Smear excess grease on the outside of the bearing cone assembly. Pack grease between the inner and outer cups in the hub cavity. Also, liberally coat the hub cap inner wall. This layer combats moisture and retains the grease in the inner and outer bearing cone assemblies.

5. Install Grease Seal

Replace the grease seal when it leaks or when bearings are being

Skill Level: Intermediate | Special Tools: Cup Driver, Mild Steel Bar, Mechanical Grease Packer, Dial Indicator

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