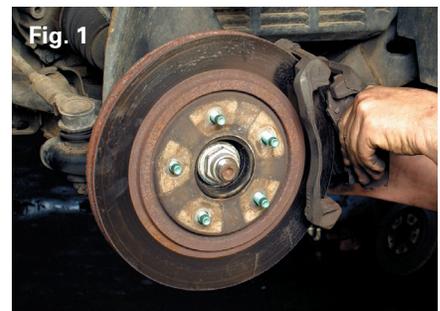


Removing and Installing a Hub Unit Bearing

Proper hub removal and installation procedures can enhance the performance and life of hubs, axles, wheels, brakes and other components.

Hub Unit Bearing Removal

1. Raise vehicle and remove lug nuts and wheel.
2. Remove the brake caliper and rotor. Support the brake caliper with an "S" hook or a piece of wire. (Fig. 1)
3. Remove the axle nut, using an axle nut socket. Follow the manufacturer's instructions for nut replacement.
4. Before removing hub unit, make a note of the proper orientation and positioning of the sensor wire and bearing. Disconnect the ABS sensor wire from its mating connector point and positioning clips. (Fig. 2)
5. Remove the steering knuckle attachment bolts. You may need a puller to remove the hub assembly. Do not damage the knuckle or axle shaft.
6. Clean and inspect the steering knuckle. Remove any debris, nicks or burrs using a fine file, wire brush, emery cloth or honing stone.



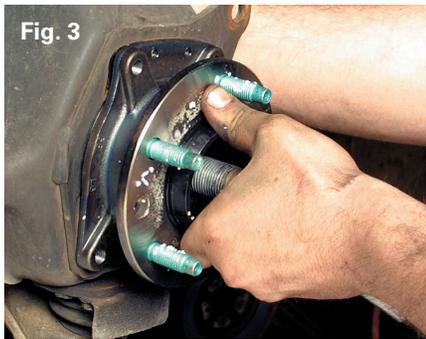


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Hub Unit Bearing Installation

1. Insert the new hub assembly into the steering knuckle. Check the positioning of the splines on the axle shaft while inserting the hub assembly. Never force the hub assembly on the shaft or strike with a hammer. (Fig. 3)



2. Torque the knuckle-bearing mounting bolts to the vehicle manufacturer's specification using a torque wrench. Do not use an impact wrench.

3. Connect the new ABS sensor that comes already attached to the new bearing to its mating connection point and clips in the wheel well and frame area.

4. Install the axle nut. Tighten the nut to the vehicle manufacturer's torque specification using a torque wrench. Do not use an impact wrench. (Fig. 4)



5. Replace the brake rotor and brake caliper. All components should be clean from debris and burrs. (Fig. 5)



6. Replace the wheel and torque the lug nuts. Follow the vehicle manufacturer's recommendations regarding torque specification and re-torque requirements.

WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Do not attempt to disassemble and reassemble unitized wheel end hubs and bearing assemblies. Improper reassembly could lead to failure.

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Tensile stresses can be very high in tightly fitted bearing components. Attempting to remove such components by cutting the cone (inner race) may result in a sudden shattering of the component causing fragments of metal to be forcefully expelled. Always use properly guarded presses or bearing pullers to remove bearings from shafts, and always use suitable personal protective equipment, including safety glasses.

CAUTION

Failure to follow these cautions may result in property damage.

The products cataloged are application specific. Any use in applications other than those intended could lead to equipment failure or to reduced equipment life.

Use of improper bearing fits may cause damage to equipment.

Do not use damaged bearings. The use of a damaged bearing can result in equipment damage.

TechTips is not intended to substitute for the specific recommendations of your equipment suppliers.

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

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