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Service Tips and Best Practices

Best Practices: 2004-1999 Ford Super Duty 4WD Front Wheel Hub Install

Brand	Supreme Hubs	Product	Wheel Hub Assemblies	Date	July 2021
Part Number(s)	H515020/H515056/H515057				

When replacing a front wheel hub on 2004-1999 Ford Super Duty 4WD trucks with the DANA 60 front axle, follow the steps below for a successful repair:

- Discard old nuts and bolts. Do not reuse old hardware.
- Inspect all mating surfaces, including axle splines. Replace if damaged or out of specification.
- Remove all rust burrs and other contaminants from the knuckle bore and other mating surfaces.
- Only use a calibrated torque wrench for all fastening procedures.



Installation

- Note that the correct order of the washers (located behind the snap ring on the stub axle shaft) is circular -> hex -> circular. During reassembly, ensure the snap ring is correctly secured in the groove.
- After removing the wheel hub from the steering knuckle, inspect the large brown O-ring located in the knuckle and replace if damaged or worn. Lightly lubricate the O-ring with an NLGI #2 certified wheel bearing grease before reassembly.
- The replacement wheel hub assembly includes a yellow O-ring. Lightly lubricate it with an NLGI #2 certified wheel bearing grease, and place it into the groove on the new wheel hub.
- Thoroughly lubricate the needle bearing assembly located inside the replacement wheel hub assembly with an NLGI #2 certified wheel bearing grease before installation. **See Figure 1**.



Figure 1. Needle bearings must be lubricated before installation

- Inspect the O-ring on the 4WD locking hub, and replace if damaged or worn. O-ring damage or failure will cause incorrect function or non-engagement of the 4WD locking system. Lightly lubricate the O-ring with an NLGI #2 certified wheel bearing grease before reassembly.

Always reference the original factory service manual for proper diagnostic, removal and replacement procedures and for all related specifications and values.

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