Hub Assemblies: Frequently Asked Questions

1. Why Are More Vehicles Using Hub Assemblies Today?

Hub assemblies are maintenance free, non-serviceable units that are pre-set, pre-greased and pre-sealed. Plus, they are easier and faster to install.

2. What Kinds of Hub Assemblies Does Timken Offer?

Timken is a leader in hub technology for the automotive aftermarket. We have a complete line of hub assemblies for ABS and non-ABS vehicles, with or without SENSOR-PAC™ bearings, UNIPAC™ bearings or UNIPAC-PLUS™ bearings.

3. Are All Aftermarket Hub Assemblies the Same?

Timken hub assemblies meet or exceed original equipment specifications, other hub assembly suppliers only meet the dimensional requirements for original equipment specifications.

4. Can I Use an Impact Wrench to Install a Hub Assembly?

No. Use a certified, calibrated torque wrench. Impact wrenches can damage the axle nut, threads and components. They can over- or under-torque nuts.



Torque Wrench



SENSOR-PAC™ bearing cutaway

Skill Level: Easy | Special Tools: Torque wrench

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5. Do I Need to Torque the Axle Nut and the Lug Nut?

Yes. You must follow the manufacturer's specifications and instruction manual to assure correct installation. Failure to do so can cause equipment failure, creating a risk of serious bodily harm.

6. Can I Replace the Bearings or Seals in My Hub Assembly?

No. Most hub assemblies utilize a non-replaceable, unitized bearing or flange that is specific to the hub and bearing housing.

7. Do Wheel Studs Come with All Hub Assemblies?

Most hub assemblies do include the wheel studs, but some do not. Timken does not recommend reusing the old studs with the new hub assembly.





Roll-Formed Hub Assemblies

⚠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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The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, belts, chain and related mechanical power transmission products and services.

www.timken.com/aftermarket

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