

WHAT DO YOU NEED TO KNOW ABOUT HUB ASSEMBLIES?



WJB AUTOMOTIVE

The performances of hub assemblies are essential to the performance of a vehicle's wheel. They contain different wheel end components, which allow the wheels on your vehicle to turn on its axle with low friction. Hub assemblies contain the wheel bearing, which supports the weight of the vehicle. The wheel bearing is pre-greased and protected by a wheel seal, which keeps harmful contaminants out of the bearing and help prevent a pre-mature hub failure. Some hub assemblies also contain an ABS sensor, which measures the speed the wheel is traveling at. Hub assemblies hold the wheel parts together and secure the position of the tires when your vehicle accelerates to different speeds. Hub assemblies may need to be replaced earlier than other components in your vehicle because they support not only the weight of the vehicle, but also endure the heat and friction from typical driving conditions.



IT IS IMPORTANT TO REPLACE WORN OR DAMAGED HUB ASSEMBLIES IMMEDIATELY!

Hub assemblies are safety-critical components on any vehicle. When it's time to replace them, you'll want hub assembly replacements that provide similar performance and quality as the originals your vehicle left the factory with. Failure from hub assemblies can be dangerous because it may cause the wheels to separate from the vehicle and/or cause a loss of steering control. Hub assemblies from WJB are tested 100% according to OE specifications to keep your vehicle moving safely and efficiently at an affordable cost.

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SIGNS IF YOU HAVE HUB ASSEMBLIES THAT NEED TO BE REPLACED

There are many warning signs to alert you of an impending hub assembly failure. Immediate action must always be taken to ensure no secondary damage occurs to other components and systems in your vehicle.

The following symptoms can develop from a worn/damaged hub assembly:

- Snapping, clicking or popping noises when cornering or making sharp turns
- Grinding noise when the vehicle is moving
- Knocking or clunking sensation from the vehicle
- Wheel vibration and/or wobble
- Poor steering control
- Shudder, shimmy or vibration at a constant speed
- Vehicle pulling to one side, regardless of the breaks being applied
- Uneven rotor or brake pad wear
- Abnormal or uneven tire wear
- ABS operation may be affected or even fail due to damage caused to the wheel speed sensors
- Humming, rumbling or growling. The noise or vibration intensifies when turning the steering wheel slightly to the left or right. In general, the side opposite the noise or vibration is the defective side.

CHECK A HUB ASSEMBLY FOR SIGNS OF DAMAGE

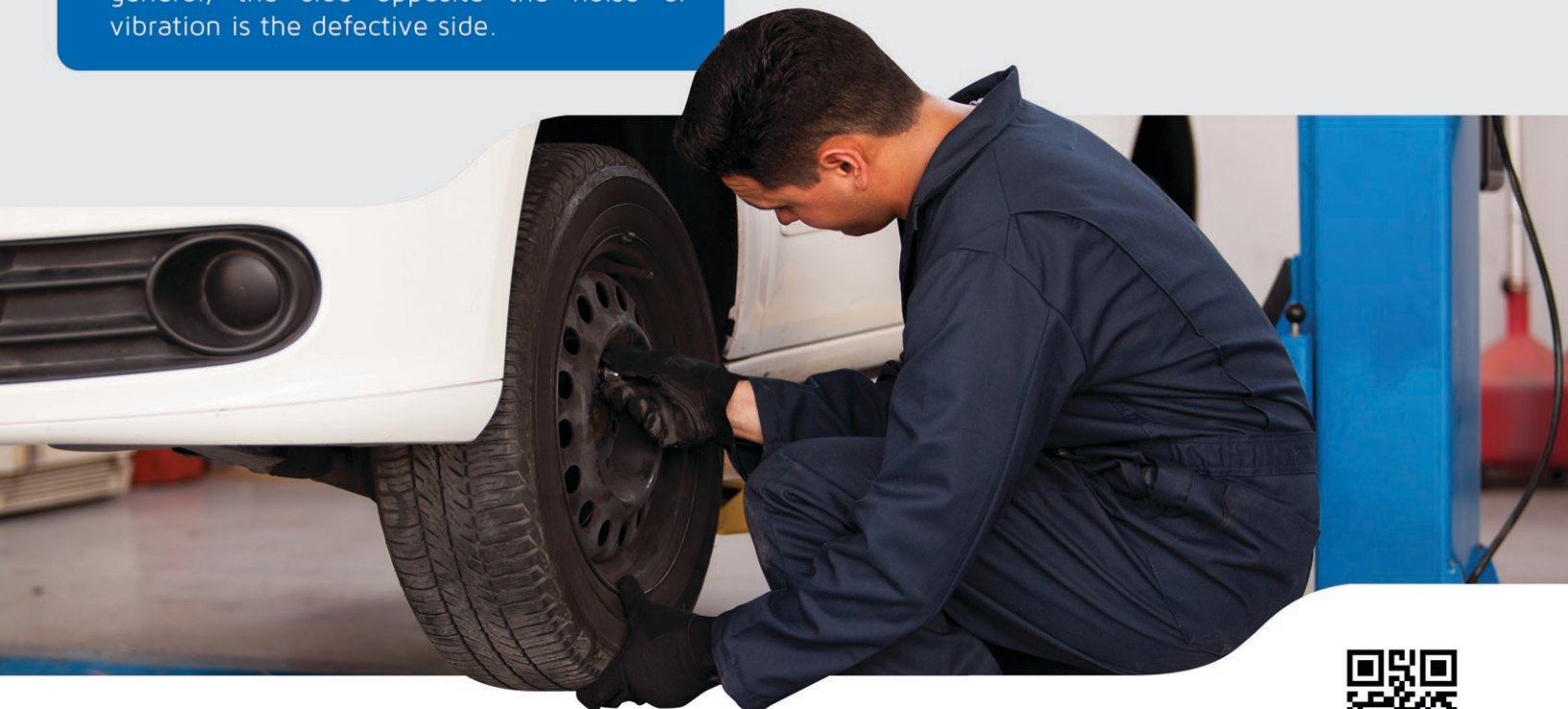
Sometimes, a damaged hub assembly may not be accompanied by mechanical noises or vibrations. To be absolutely sure of whether a hub assembly needs to be replaced or not, a manual inspection of the hub assembly is always recommended. A wheel that has a noticeable amount of '**PLAY**' likely has a hub assembly that needs to be replaced.

WHAT IS PLAY?

'**PLAY**' is the degree of wiggle the wheel shows when being shaken. A properly functioning wheel should have either little or no play.

HOW TO INSPECT?

- When the suspected wheel is elevated off the ground, grip the wheel at the top and bottom, and apply a strong lateral force perpendicular to the wheel's plane of rotation. In other words, try to pull the top of the wheel towards you, while pushing the bottom away.
- There should be no noticeable movement. Any free play is a sign of damaged wheel bearings, and the hub assembly should be replaced without delay to prevent further damage to the other components like the bearing, tire or brake on that wheel.



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