

Why Wheel Hub Prep is Critical for Braking Performance



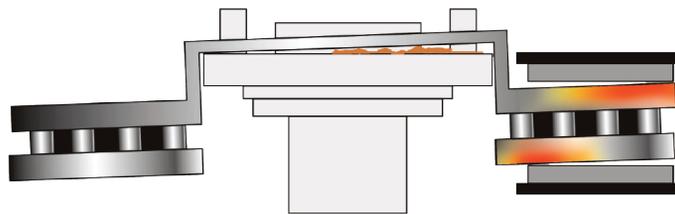
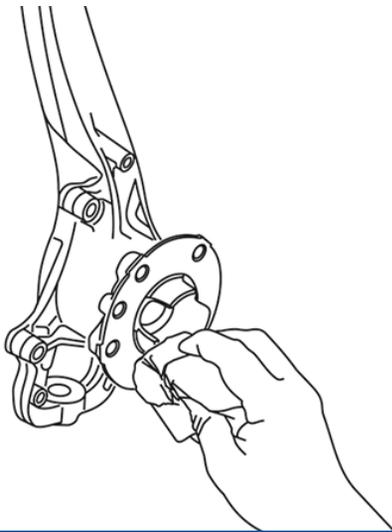
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Understanding Brake Judder

Brake judder is a vibration felt through the steering wheel and suspension when the brakes are applied at different speeds and / or pressures.

Generally, this brake judder can be categorised into two kinds: hot brake judder and cold brake judder.

While hot brake judder typically occurs when the brake disc has become warped due to excessive heat, cold brake judder is almost always the result of a fitting issue between the brake disc and the wheel hub.



Top Tips for Preparing Wheel Hubs:

- Use a wire brush or a low-speed impact wrench or power drill fitted with a hub cleaning tool to remove any rust or debris from the hub and wheel studs
- Wipe the wheel hub surface clean with brake cleaner and a lint-free cloth
- Check that the wheel hub surface is flat and smooth before installing the replacement disc

The Benefits of Wheel Hub Cleaning

Brake discs are manufactured to strict tolerances; therefore, it is essential that any rust or other debris is removed from the wheel hub before installing replacement discs to avoid issues with their performance, safety and longevity.

Cleaning the wheel hub will:

Ensure proper seating of the brake disc

The presence of rust, dirt or debris on the wheel hub means the disc may not sit flush against it.

Promote even pad wear

A misaligned brake disc can result in uneven contact with the brake pads. This means one part of the brake pad may wear faster than another, reducing braking efficiency and lifespan.

Prevent noise and vibration

Improper contact between the brake disc and wheel hub can cause judder under braking.

Help avoid premature future repairs

Poorly seated discs can cause further issues that may result in them needing to be replaced prematurely, costing more time and money.