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Technical Tip: September 2016

Advice on how to avoid damaging wheel bearings

## Wheel bearings 701849: “Always measure before applying pressure”

Failing to properly press in wheel bearings may cause damage to the bearing inner rings in the Renault Master, Opel/Vauxhall Movano, Nissan Interstar and other vehicle models. OPTIMAL's Technical Tip explains how to avoid this damage from occurring.

### Problem:

Bearing inner rings may become damaged when pressing in wheel hubs in the Renault Master, Opel/Vauxhall Movano, Nissan Interstar and other vehicle models. The photo on the right shows a cracked bearing shell.

### Cause:



This damage is caused by the oval distortion of the wheel hub, which leads to greater pressure being applied to the bearing inner ring (see photo on the left). As a result, a precise fit can no longer be guaranteed when pressing in the wheel bearing. This generates pressure spikes that may eventually break the wheel bearing (see photo on the right).



### Technical tip:

Before fitting wheel bearings, we therefore recommend using precision measuring tools to check all the surrounding parts, such as wheel hubs and stub axles, for signs of possible “ovality”.

### Other signs to watch out for:

When fitting wheel bearings, we also recommend checking stub axles and drive shafts for damage, wear and accuracy of fit. In particular, dirt and corrosive particles frequently cause damage and must be removed. Please always follow all instructions from the manufacturer during disassembly and assembly work. Above all, ensure that you observe the specified torques and use the recommended special tools.

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