



TECH TIP: REPLACING BEARINGS & RACES

When it comes to replacing bearings and races, NTN has a couple of recommendations we make to installers to ensure that our products meet their maximum life expectancy. When replacing the bearing and race, NTN encourages installers to: 1) replace both components as a set and 2) ensure both components come from the same manufacturer.

REPLACE THE BEARING AND RACE AS A SET

When the time comes that your bearings have reached the end of their life expectancy and need replacement, NTN cannot stress enough the importance of using both a new bearing and a new race. In fact, we only sell our products in sets to ensure that you have both components on hand. While you may encounter difficulty removing the old race during replacement, you should never match it with a new bearing as doing so creates mismatched raceway wear patterns and can lead to early failure.

NEVER MIX MANUFACTURERS

In addition to replacing your bearing and race as a set, we must insist that you never mix and match bearings and races from different manufacturers. The primary reason for this insistence is due to differences in internal geometries and surface finishes. Pairing components with mismatched internal profiles and surface finish variations can lead to reductions in expected life due to components being seated incorrectly, thus not leading to full engagement.

Another reason for the never mixing and matching components is that not all manufacturers case harden the parts. If a case-hardened part is mated with one that is not, it may not see its full life potential due to the component that is not case-carburized being unable to handle the same levels of loads as the case-carburized component, thus leading to potential bearing failure and unscheduled downtime.

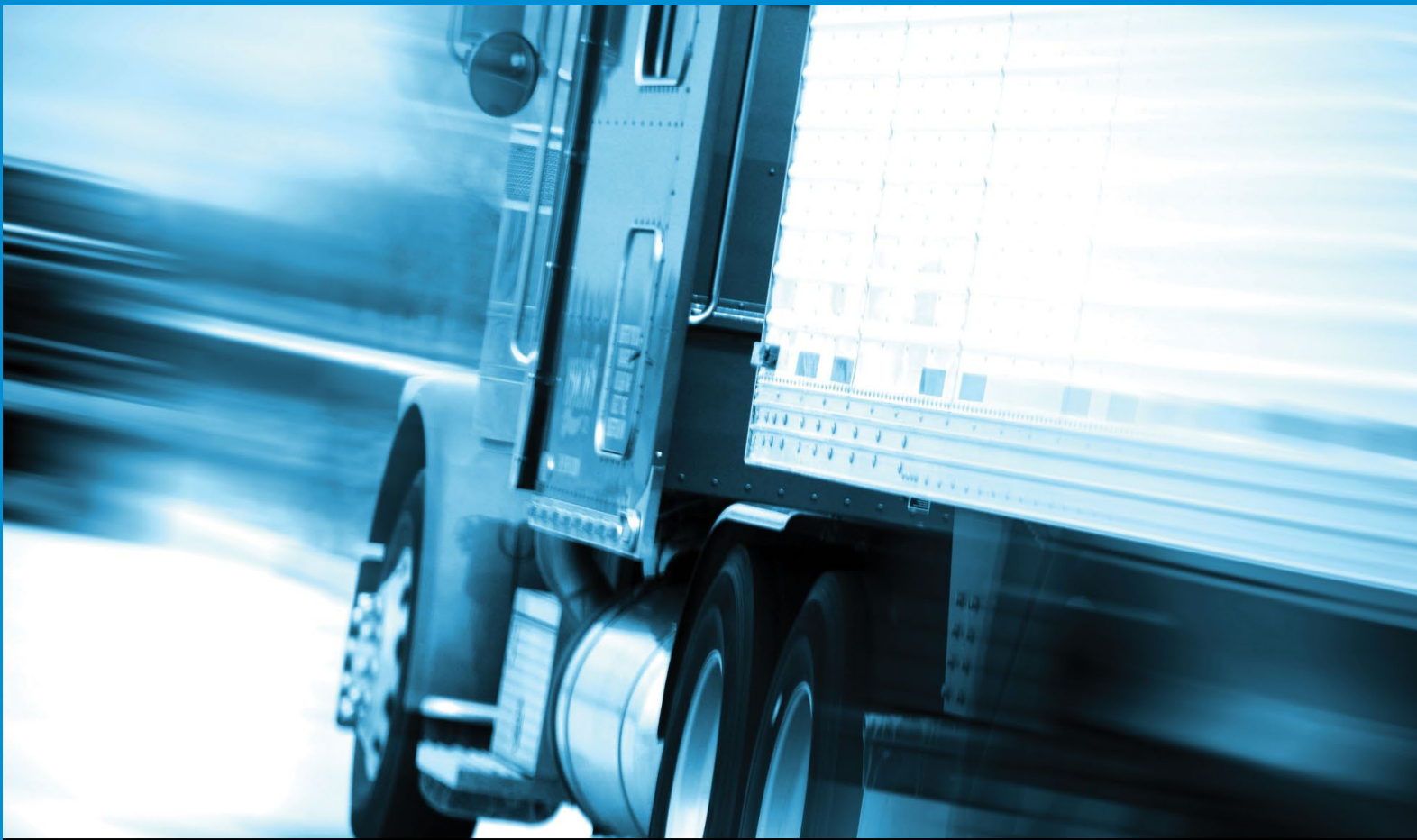
CHOOSE BOWER BEARING SETS

When you choose a Bower bearing set for your replacement, you will avoid the above pitfalls. All Bower sets are manufactured together in one of our US-based plants, ensuring that their internal geometries, surface finishes, tolerances and load ratings are all matched. Additionally, all Bower bearing sets are case hardened for optimal performance.

FOR MORE INFORMATION ON PROPER INSTALLATION, PLEASE CONTACT YOUR BOWER SALES REPRESENTATIVE

COMMON PROBLEMS CAUSED BY MIXING BEARINGS & RACES

- Incompatible internal bearing profile
- Overall bearing width inconsistencies due to tolerance differences
- Bearing load rating differences
- Surface finish variations due to different manufacturing processes
- Steel quality & cleanliness variations due to variances in bearing manufacturing quality



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When it comes to OE quality and rugged reliability, the power of Bower is second to none.

Bower OE and after-market bearings are recognized as among the very best in the industry, with a list of quality product innovations and firsts that is long, distinguished and growing. Bower products are shipped from Bower plants located in Macomb, Illinois and Hamilton, Alabama, and enjoy a reputation for reliability and high performance in the no-nonsense world of big rigs and other hard working vehicles.

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