

WINNARD

TECHNICAL BULLETIN

INSTALLATION REMINDER FOR TAPERED ROLLER BEARINGS (TRB)

It is vital that **all** tapered roller bearings are coated with grease when being installed*. Fitting without grease or simply dipping in oil is NOT sufficient to ensure the bearings perform effectively.

The application of a high quality compatible grease will help to ensure that the bearings do not overheat.

As from December 2025 all Winnard Hubs & Hub Kits which use Tapered Roller Bearings will be supplied with a suitable High Temperature Complex Lithium Grease.



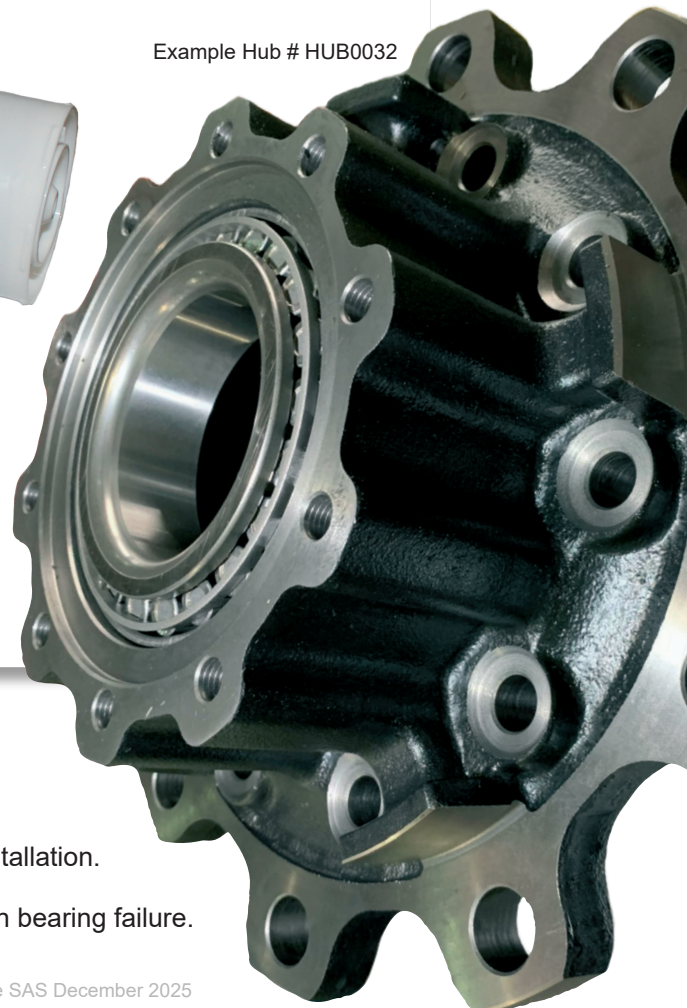
Grease # AP0096

FAG

Example Bearing # KHM218248.218210



Example Hub # HUB0032



For further information see overleaf.

*Please follow the vehicle manufacturers guidance on bearing installation.

Failure to apply grease or correctly set the bearings could result in bearing failure.

Tapered roller bearing (TRB)

Product description:

Tapered roller bearings support high loads with a small mounting space, and demonstrate good cornering behaviour. They have established themselves as being conventional wheel bearings for commercial vehicles for over 100 years. Standard tapered roller bearings (TRBs) consist of an outer ring, an inner ring with rolling elements and a cage. The outer ring and the inner ring are removed and installed separately. In general single-row tapered roller bearings are supplied neither greased nor sealed.

Therefore before installing, the bearings must be lubricated with grease specifically approved for the application.

How do I grease a wheel bearing?

Standard tapered roller bearings and insert units must be filled / coated with grease before installation.

However, it is not only the quantity that matters but the correct greasing procedure.

The grease must be completely pushed from one side of the bearing through to the other side and all around (see images on the right).

The excess grease is then removed and the outside of the bearing is coated with a thin film.



Summary

- To avoid damage, the prescribed quantity of grease must be within the wheel hub after installation.
- Insufficient grease can lead to hot-running wheel bearings.
- Excessive grease can lead to increased pressure and possible brake contamination.
- Please follow the vehicle manufacturers guidance on bearing installation.