

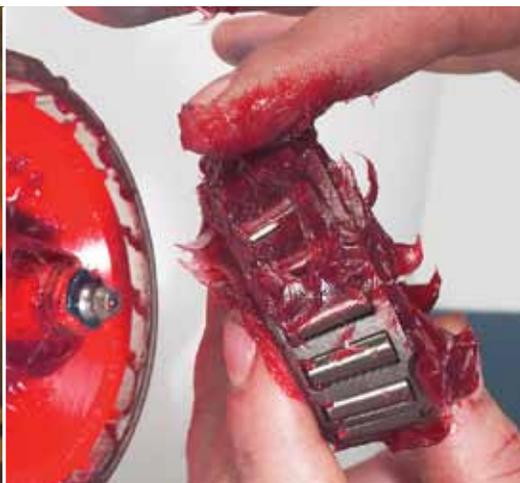
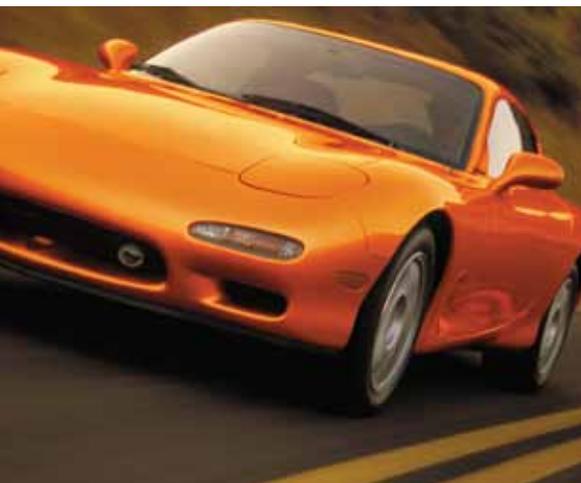
# Automotive TechTips

**TIMKEN**  
Where You Turn

Volume 2 • Issue 3

Maximizing bearing performance and life remains an objective throughout The Timken Company, from design teams and manufacturing associates to our field sales team and distributors. TechTips help you install and maintain Timken® bearings, seals and components to maximize their life and performance and the systems in which they operate. For more information regarding Timken automotive products and services, visit [www.timken.com](http://www.timken.com) or contact your local Timken distributor.

## PROCEDURE FOR PACKING A TAPERED ROLLER BEARING WITH GREASE



The useful life of a Timken® bearing depends to a great extent on the proper lubrication of the bearing. This is especially true in wheel bearings where operating conditions include dirt, moisture and high and low temperatures.

Lubricants aid in carrying away heat, protecting bearing surfaces from corrosion and reducing friction.

### By Hand

- 1) Thoroughly clean your hands or put on a new pair of latex gloves.

- 2) Place grease, approximately the size of a golf ball, into the palm of one of your hands.
- 3) Using your opposite hand, push the large end of the bearing cone assembly into the grease. This enables the grease to be forced between the rollers, cage and cone.
- 4) Continue pushing grease into the large end, rotating the entire cone assembly, until the grease is forced out evenly around the entire small end.
- 5) Smear excess grease on the outside of the bearing cone assembly.





### Using A Mechanical Grease Packer

- 1) Thoroughly clean your hands or put on a new pair of latex gloves.
- 2) Place the bearing cone assembly, small end down, into the grease packer funnel.
- 3) Plug the bore of the large end of the bearing cone assembly with the conical retainer.
- 4) Firmly press down on the conical retainer. This enables the grease to be forced between the rollers, cage and cone.
- 5) Smear excess grease on the outside of the bearing cone assembly.

#### NOTE:

**For best results, ample space is essential in the housing to allow room for excess grease to be thrown from the bearing and for heat dissipation. It is equally important to retain the grease around the bearing. Normally, the housing should be 1/3 to no more than 1/2 full of grease during bearing assembly. Too**

**much grease in the housing may cause excess churning of the grease and high temperatures.**

### Timken Automotive Wheel Bearing Grease -

#### One Grease Formula does it all for both Disc and Drum Applications

Finally – there’s no need to guess which grease is appropriate for your disc and drum bearing applications. Timken automotive wheel bearing grease is a premium, red, hi-temp grease specifically formulated to handle the rigors of both.

This multi-application grease provides the needed lubrication to meet the demands of everyday commute driving as well as those of harsh, off-highway conditions.

Timken understands the importance of friction management. Timken automotive wheel bearing grease was developed by leveraging our knowledge of anti-friction bearings and tribology (the study of friction, lubrication and interacting surfaces). This hi-temp grease contains

corrosion inhibitors and anti-wear and water-resistant additives, offering superior protection in challenging environments.

#### Features/Benefits

- For disc and drum applications
- NLGI GC-LB certified
- NLGI No. 2 lithium complex
- Timken OK Load – 55 pounds
- Extreme pressure (EP) additives
- Corrosion inhibitors
- Water-resistant additives
- Tub: Reusable, high-impact container with screw-top lid
- Wide operating temperature range –40° F to 300° F (–40° C to 149° C)



**⚠ WARNING Failure to observe the following warnings could create a risk of serious injury.**

Proper maintenance and handling procedures are critical. Always follow installation instructions and maintain proper lubrication.

Never spin a bearing with compressed air. The rollers may be forcefully expelled.

*This information is not intended to substitute for the specific recommendations of your equipment suppliers. Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.*

# TIMKEN

Where You Turn

Bearings • Steel • Precision Components • Lubrication • Seals • Remanufacture and Repair • Industrial Services

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1-10 Order No. 7577