

TIMKEN SET932

Timken SET932 Wheel Bearing and Race Set Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the Timken SET932 Tapered Roller Bearing Assembly. The Timken SET932 is designed for heavy-duty applications, ensuring reliable performance in various automotive and commercial vehicle equipment.

Proper installation and maintenance are crucial for the longevity and safe operation of this component. Please read all instructions carefully before proceeding.

2. PRODUCT OVERVIEW



Image 1: The Timken SET932 Tapered Roller Bearing Assembly, showing both the cone (bearing) and the cup (race) components.

The Timken SET932 is a tapered roller bearing assembly, consisting of a cone (inner ring with rollers and cage) and a cup (outer ring). This design allows the bearing to accommodate both radial and axial loads, making it suitable for wheel applications.

2.1 What's in the Box

- 1 x Tapered Bearing Assembly (includes cone and cup)

2.2 Key Features

- Product Type: Auto Part
- Designed for multiple makes and models
- Durable construction for heavy-duty applications

3. SETUP AND INSTALLATION

Important Safety Notice: Wheel bearing installation requires specialized tools, knowledge, and adherence to vehicle-specific service procedures. Improper installation can lead to component failure, vehicle damage, and serious injury. It is highly recommended that installation be performed by a qualified professional.

3.1 General Installation Guidelines (Professional Installation Recommended)

1. **Preparation:** Ensure the work area is clean and free of debris. Gather all necessary tools, including a bearing press or appropriate installation tools, torque wrench, and suitable grease.
2. **Component Inspection:** Before installation, carefully inspect the new Timken SET932 bearing and race for any signs of damage or manufacturing defects. Also, inspect the hub or spindle for any damage, wear, or burrs that could affect bearing seating.
3. **Cleaning:** Thoroughly clean the bearing housing and spindle surfaces where the bearing and race will be seated. Remove any old grease, rust, or contaminants.
4. **Race Installation:** Using a bearing press or a suitable driver, carefully press the outer race (cup) into the hub or housing. Ensure it is seated squarely and fully against its shoulder. Do not use a hammer directly on the race.
5. **Lubrication:** Pack the tapered roller bearing (cone) with high-quality wheel bearing grease. Ensure grease is worked thoroughly into all roller and cage areas. Apply a thin layer of grease to the race surface.
6. **Bearing Installation:** Carefully slide the greased bearing onto the spindle or into the hub, ensuring proper orientation.
7. **Adjustment and Torque:** Follow the vehicle manufacturer's specific torque and adjustment procedures for wheel bearings. This typically involves tightening the retaining nut to a specified torque, rotating the wheel to seat the bearing, backing off the nut, and then re-torquing to a final specification. Incorrect torque can lead to premature bearing failure or excessive play.
8. **Final Checks:** After installation, check for proper wheel rotation, absence of excessive play, and any unusual noises.

4. OPERATING PRINCIPLES

The Timken SET932 Tapered Roller Bearing Assembly is designed to support the rotating wheel on a stationary axle or spindle. Its tapered design allows it to manage both radial loads (forces perpendicular to the axle) and axial loads (forces parallel to the axle), which are common in vehicle wheel applications during cornering and braking.

The rollers and raceways are designed to distribute loads evenly, reducing stress and friction, and ensuring smooth, efficient rotation of the wheel. Proper lubrication is essential for minimizing friction and heat generation during operation.

5. MAINTENANCE

Regular inspection and maintenance are vital for extending the life of your Timken SET932 wheel bearing and ensuring vehicle safety.

- **Inspection:** Periodically inspect wheel bearings for signs of wear, such as excessive play, noise, or heat generation. This should be done during routine vehicle service.
- **Lubrication:** Tapered roller bearings require proper lubrication. If the bearing is designed to be re-greased, use a high-quality, compatible wheel bearing grease as specified by the vehicle manufacturer. Over-greasing or under-greasing can both lead to issues.
- **Replacement:** Bearings are wear items. Replace bearings if they show signs of significant wear, damage, or if recommended by the vehicle manufacturer's service schedule. Always replace bearings in sets (e.g., both front wheel bearings) for balanced performance.
- **Seal Integrity:** Ensure that the wheel seals are in good condition to prevent contamination of the bearing grease by dirt, water, or other foreign matter.

6. TROUBLESHOOTING

Common symptoms of a failing wheel bearing include:

- **Noise:** A humming, grinding, or growling noise that increases with vehicle speed. This noise may change when turning.
- **Vibration:** Excessive vibration felt through the steering wheel or floorboard.
- **Loose Steering/Wandering:** A feeling of looseness or play in the steering, or the vehicle pulling to one side.
- **Uneven Tire Wear:** Can be an indirect symptom of wheel bearing issues affecting wheel alignment.
- **Heat:** The wheel hub feeling excessively hot to the touch after driving.

If you experience any of these symptoms, have your vehicle inspected by a qualified mechanic immediately. Continuing to drive with a failing wheel bearing can lead to catastrophic failure and loss of vehicle control.

7. SPECIFICATIONS

Timken SET932 Tapered Roller Bearing Assembly Specifications





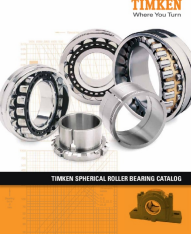

Brand	TIMKEN
Model Number	SET932
Product Type	Auto Part
Bearing Type	Tapered Roller Bearing
Material	Rubber (likely referring to seals, main bearing is metal)
Compatible Lubricant	Grease
Item Weight	1.7 Pounds (0.77 kg)
Product Dimensions (L x W x H)	4.1 x 4.1 x 1.4 inches (10.4 x 10.4 x 3.6 cm)
Exterior Finish	Machined
UPC	085706027629

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Timken SET932 Wheel Bearing and Race Set, please refer to the documentation provided at the time of purchase or contact Timken directly through their official website. Warranty terms and conditions may vary.

For technical support or further assistance, please contact your authorized Timken dealer or visit the official Timken support portal.

[Visit Timken Official Website](#)

	<p>Timken Engineering Manual: Comprehensive Guide to Bearing Selection and Application</p> <p>This Timken Engineering Manual provides in-depth information on bearing types, selection processes, fitting practices, operating conditions, lubrication, and storage. Essential resource for engineers and professionals in mechanical power transmission.</p>
	<p>Timken® SNT Plummer Block Catalog: Industrial Bearing Solutions</p> <p>Explore the Timken® SNT Plummer Block Catalog, featuring robust industrial bearing solutions. Discover detailed specifications, installation guides, and application information for high-performance bearings designed for demanding environments.</p>
	<p>Timken SAF Split-Block Housed Units Catalog and Technical Guide</p> <p>Explore the Timken SAF Split-Block Housed Units Catalog, featuring detailed specifications, engineering data, mounting instructions, and lubrication guides for high-capacity spherical roller bearings. Essential for industrial applications.</p>
	<p>Timken® SAF Split-Block Mounted Spherical Roller Bearing Catalog</p> <p>Comprehensive catalog detailing Timken® SAF Split-Block Mounted Spherical Roller Bearings, including engineering specifications, mounting instructions, lubrication guidelines, and product dimensions for various series and applications.</p>
	<p>Timken Spherical Roller Bearing Catalog: Engineering, Applications, and Specifications</p> <p>This Timken Spherical Roller Bearing Catalog provides detailed engineering information, product specifications, typical applications, and handling guidelines for industrial bearings. Discover solutions for heavy loads and harsh environments, including bearing types, installation practices, and lubrication advice.</p>
	<p>Timken Bearing Interchange Guide</p> <p>Comprehensive guide from Timken providing bearing interchange information, including manufacturer part numbers and corresponding Timken part numbers. Available in English, French, and Spanish.</p>