

SKF FW40

SKF Wheel Bearing FW40 Instruction Manual

Model: FW40

Brand: SKF

1. PRODUCT OVERVIEW

SKF invented the first self-aligning ball bearing in 1907, and is now a market leader in bearing technologies. Ball bearings rely on sphere-shaped elements arranged in rows to carry loads and conduct motion. They are ideally suited for applications requiring low frictional resistance, high speed capabilities, low maintenance and long life. For more than 100 years, the world's engineers, technicians and mechanics have turned to SKF for the best possible solutions. Available for a wide range of applications and needs, SKF bearings and seals are designed and manufactured to the highest quality standards, ensuring long life and safety.

Key Features:

- Sealed For Life Design Ensures Problem Free Operation
- Angular Bearing Contact Allows For Outstanding Durability While Supporting Both Radial And Axial Loads
- Available In Wide Variety Of Types, Designs, Sizes, And Materials
- Quality You Can Count On. SKF Has Been Making Ball Bearings For Over 100 Years
- Optimized operating clearances
- Glass fiber reinforced polyamide cages
- Premium grease
- Fit type: Vehicle Specific

2. WHAT'S IN THE BOX

The package contains one SKF Wheel Bearing FW40.

3. SPECIFICATIONS

Attribute	Value
Brand	SKF

Model	FW40
Material	Glass
Dimensions (L x W x H)	3.13 x 3.13 x 1.97 inches
Item Weight	1.4 Pounds
Bearing Number	FW40
Specification Met	ABEC 1
Bearing Type	Ball Bearing
Compatible Lubricant	Grease
UPC	085311377188
Manufacturer	SKF USA, Inc.
Exterior	Machined

4. INSTALLATION GUIDELINES

The SKF Wheel Bearing FW40 is an aftermarket replacement part designed for specific vehicle models (Hyundai 2001-2008, Kia 2004-2009). Proper installation is critical for vehicle safety and performance.

General Recommendations:

- **Professional Installation Recommended:** Due to the critical safety function of wheel bearings, installation should ideally be performed by a qualified mechanic or automotive technician.
- **Consult Vehicle Service Manual:** Always refer to your specific vehicle's service manual for detailed, model-specific installation procedures, torque specifications, and special tool requirements.
- **Safety First:** Ensure the vehicle is properly supported on jack stands and the wheels are chocked. Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- **Cleanliness:** Maintain a clean work environment. Contaminants can significantly reduce the lifespan of the new bearing.
- **Inspect Surrounding Components:** Before installation, inspect related components such as the hub, knuckle, and axle for wear, damage, or corrosion. Replace any compromised parts.
- **Lubrication:** Apply compatible grease as specified by the vehicle manufacturer or bearing instructions to mating surfaces, if required, to prevent corrosion and aid assembly.
- **Torque Specifications:** Adhere strictly to the manufacturer's torque specifications for all fasteners, especially the axle nut and hub bolts. Incorrect torque can lead to premature bearing failure or unsafe operation.

5. OPERATING CONSIDERATIONS

Once installed, the wheel bearing operates as an integral part of your vehicle's suspension and drivetrain. While designed for durability, certain operating conditions can affect its lifespan.

- **Normal Operation:** The bearing is designed to provide smooth, low-friction rotation of the wheel under various driving conditions.
- **Avoid Overloading:** Operating the vehicle beyond its specified load capacity can put excessive stress on wheel bearings, leading to premature wear.

- **Impacts:** Hitting potholes, curbs, or other road hazards can cause sudden, high-impact loads on the bearing, potentially damaging it.
- **Off-Road Use:** Frequent off-road driving or exposure to excessive dirt, water, or mud can accelerate wear, especially if seals are compromised.

6. MAINTENANCE

The SKF Wheel Bearing FW40 features a "Sealed For Life" design, meaning it does not require periodic lubrication or maintenance under normal operating conditions. However, regular vehicle inspections are important for early detection of potential issues.

Inspection Recommendations:

- **Regular Vehicle Inspections:** Include wheel bearings in your routine vehicle maintenance checks. Listen for unusual noises and check for excessive play.
- **Noise Detection:** Pay attention to humming, grinding, or growling noises that increase with vehicle speed, as these can indicate bearing wear.
- **Wheel Play:** With the vehicle safely lifted, check for excessive play in the wheel by grasping it at the 12 and 6 o'clock positions, then 3 and 9 o'clock positions, and attempting to rock it. Any significant movement could indicate a worn bearing.
- **Heat Check:** After driving, carefully check the temperature of the wheel hub. Excessive heat can be a sign of a failing bearing.

7. TROUBLESHOOTING

If you experience symptoms that suggest a wheel bearing issue, it is important to address them promptly to prevent further damage or safety hazards.

Symptom	Possible Cause	Action
Humming, grinding, or growling noise from wheel area (increases with speed)	Worn or damaged wheel bearing	Inspect the wheel bearing for play and noise. Replace if necessary.
Loose steering or excessive wheel play	Worn wheel bearing, loose fasteners, or other suspension component issues	Have a qualified mechanic diagnose the source of play. Tighten fasteners to spec or replace worn components.
Vibration in steering wheel or vehicle body	Damaged wheel bearing, unbalanced tire, or bent wheel	Check wheel balance and alignment. Inspect bearing for damage.
ABS light illuminated (if applicable)	Faulty ABS sensor (often integrated with wheel bearing) or wiring issue	Scan vehicle for diagnostic trouble codes. Inspect ABS sensor and wiring.

Important: If you suspect a wheel bearing failure, it is crucial to have your vehicle inspected by a professional immediately. Driving with a severely worn wheel bearing can lead to catastrophic failure, loss of wheel control, and serious accidents.

8. PRODUCT MEDIA



Image 1: Top view of the SKF Wheel Bearing FW40, showcasing its robust metal construction and sealed design.



Image 2: Angled view of the SKF Wheel Bearing FW40, highlighting its compact form factor and precision engineering.



Image 3: A person holding an SKF product box in an automotive setting, emphasizing the brand's presence in the vehicle aftermarket.

Official Product Video:

Your browser does not support the video tag.

Video: A brief animation showcasing the internal components and function of an SKF wheel bearing within a vehicle's wheel assembly. This video provides a visual understanding of how the bearing integrates and operates.

9. WARRANTY AND SUPPORT

SKF products are manufactured to high-quality standards. For specific warranty information regarding your SKF Wheel Bearing FW40, please refer to the documentation provided with your purchase or visit the official SKF website.

For technical support, installation inquiries, or to verify product fitment for your vehicle, you may contact SKF customer service or consult with a certified automotive professional.

SKF Customer Support: Please refer to the contact information available on the official SKF website or your product packaging for the most current support channels.

FAQs from SKF:


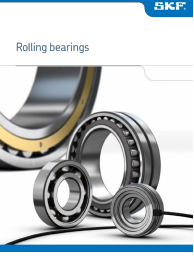
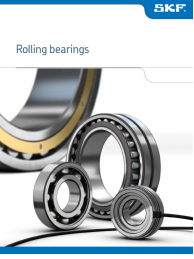
- **Which Product Fits my Vehicle?** Please enter your vehicle information into the site search function for product offer suggestion.
- **Can You Check if the Product Fits My Vehicle?** Please Send Us a Message and we Can Check for You.
- **Are SKF Products Equivalent to OEM?** Yes, SKF products are equivalent to OE quality.


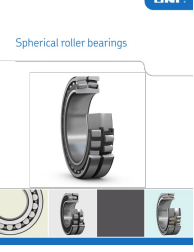



© 2023 SKF. All rights reserved.

This manual is for informational purposes only. Always consult a qualified professional for vehicle maintenance and repairs.

Related Documents - FW40

	<p>SKF Изделия для Технического Обслуживания и Смазочные Материалы</p> <p>Каталог SKF, посвященный изделиям и материалам для технического обслуживания подшипников. Охватывает монтаж, демонтаж, смазывание, выверку и мониторинг состояния для продления срока службы подшипников.</p>
	<p>SKF Rolling Bearings Catalogue and Selection Guide</p> <p>Comprehensive guide from SKF detailing rolling bearings, their selection process, technical specifications, and applications. Covers various bearing types, lubrication, mounting, and performance data.</p>
	<p>SKF Rolling Bearings Catalog: Selection Guide and Technical Data</p> <p>Comprehensive catalog from SKF detailing rolling bearings for industrial applications. Covers bearing selection processes, types, technical specifications, and performance data to help engineers and designers choose the optimal bearing solution.</p>

 <p>SKF Automatic Lubricators</p>	<p>SKF Automatic Lubricators: LAGD, TLSD, TLMR, TLMP Series - Product Guide</p> <p>Comprehensive guide to SKF Automatic Lubricators, including LAGD, TLSD, TLMR, and TLMP series. Learn about features, benefits, applications, technical specifications, and accessories for improved safety, reliability, and maintenance.</p>
 <p>Spherical roller bearings</p>	<p>SKF Spherical Roller Bearings: Comprehensive Catalog and Technical Guide</p> <p>Explore the SKF range of spherical roller bearings, detailing designs (CC, CA, E), sealed variants, technical specifications, load capacities, misalignment accommodation, and product tables for demanding industrial applications.</p>
 <p>SKF TKBA 40</p> <p>Instructions for use Mode d'emploi Bedienungsanleitung Instrucciones de uso</p> <p>Manualul de utilizare Instrucciones de uso 說明書 Инструкция по эксплуатации</p>	<p>SKF TKBA 40 Belt Alignment Tool User Manual</p> <p>This user manual provides comprehensive instructions for operating the SKF TKBA 40 Belt Alignment Tool, detailing its technical specifications, application range, troubleshooting, and maintenance procedures.</p>