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SKF BK6

SKF BK6 Cylindrical Roller Bearings Instruction Manual

Model: BK6

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SKF BK6 Cylindrical Roller Bearings. Please read this manual thoroughly before use to ensure safe and efficient performance. These bearings are designed for applications requiring high radial load capacity and moderate speeds.



Image 1.1: Components of the SKF BK6 Cylindrical Roller Bearing kit, including the needle bearing and two seals.

2. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the SKF BK6 bearings. Ensure all components are clean and free from debris before installation.

2.1 Pre-Installation Checks

- Inspect the bearing and seals for any visible damage or manufacturing defects.
- Ensure the housing and shaft surfaces are clean, smooth, and free of burrs or rust.
- Confirm that the dimensions of the shaft and housing bore match the bearing specifications.

2.2 Installation Procedure

1. Apply a thin layer of compatible lubricant (grease) to the bearing surfaces and the shaft.
2. Carefully press the bearing onto the shaft or into the housing using appropriate tools. **Do not use a hammer**

directly on the bearing. Use a press or a sleeve that applies force evenly to the bearing ring.

3. Install the seals, ensuring they are seated correctly and provide a proper seal against contaminants.
4. Verify that the bearing rotates smoothly without binding after installation.

3. OPERATING GUIDELINES

Once installed, the SKF BK6 Cylindrical Roller Bearings are designed for reliable operation. Adhere to the following guidelines for optimal performance.

- **Load Capacity:** Do not exceed the specified radial load capacity for the bearing. Overloading can lead to premature failure.
- **Speed Limits:** Operate within the recommended speed limits to prevent excessive heat generation and wear.
- **Temperature:** Monitor operating temperature. Prolonged exposure to high temperatures can degrade lubricant and bearing material.
- **Vibration:** Minimize vibration and shock loads, as these can significantly reduce bearing life.

4. MAINTENANCE

Regular maintenance extends the life of your SKF BK6 Cylindrical Roller Bearings and ensures continued performance.

4.1 Lubrication

The SKF BK6 bearing requires lubrication with compatible grease. The frequency of relubrication depends on operating conditions such as speed, temperature, and environment.

- Use only high-quality, compatible grease as specified in the product specifications.
- Avoid over-lubrication, which can lead to excessive heat and seal damage.
- Ensure seals are intact to prevent lubricant leakage and contaminant ingress.

4.2 Inspection

Periodically inspect the bearings and seals for signs of wear, corrosion, or damage. Look for:

- Unusual noise or vibration during operation.
- Excessive heat generation.
- Visible damage to the bearing rings or rollers.
- Degradation or damage to the seals.

5. TROUBLESHOOTING

This section provides guidance for common issues that may arise with cylindrical roller bearings.

Problem	Possible Cause	Solution
Excessive Noise	Insufficient lubrication, contamination, improper installation, bearing damage.	Check lubrication, clean/replace if contaminated, re-install correctly, replace bearing.
Overheating	Over-lubrication, insufficient lubrication, excessive load/speed, misalignment.	Adjust lubrication, reduce load/speed, check alignment.

Problem	Possible Cause	Solution
Premature Failure	Contamination, improper installation, overloading, material fatigue.	Ensure clean environment, follow installation guide, operate within limits, replace bearing.

6. SPECIFICATIONS

Detailed technical specifications for the SKF BK6 Cylindrical Roller Bearings.

Attribute	Value
Brand	SKF
Model Number	BK6
Bearing Number	BK6
Bearing Type	Roller Bearing
Material	Rubber (for seals)
Item Dimensions (L x W x H)	3.25 x 3.25 x 2.5 inches
Item Weight	5.8 ounces
Compatible Lubricant	Grease
UPC	085311252799
ASIN	B000ETUJBC
Manufacturer	SKF
Date First Available	January 1, 2006

7. WARRANTY INFORMATION

Specific warranty details for SKF products are typically provided at the point of purchase or on the official SKF website. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the official SKF warranty policy or contact SKF customer support directly.

8. SUPPORT AND CONTACT

For technical assistance, product inquiries, or support, please contact SKF customer service. You can find contact information on the official SKF website or through your authorized SKF distributor.

SKF Official Website: www.skf.com

SKF Store on Amazon: [Visit the SKF Store](#)

