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### Dodge P2B-S2-203RE

# Dodge P2B-S2-203RE Pillow Block Bearing Instruction Manual

Model: P2B-S2-203RE

## 1. PRODUCT OVERVIEW

The Dodge P2B-S2-203RE is a heavy-duty, relubricatable pillow block bearing designed for supporting rotating shafts. This unit features a robust cast iron housing, a 2-3/16 inch bore diameter, and a spherical roller bearing insert with a Springlok collar for secure shaft attachment. It is engineered for expansion applications and includes triple lip contact seals for enhanced protection against contaminants.



Figure 1: The Dodge P2B-S2-203RE Pillow Block bearing, showing its robust cast iron housing, relubrication point, and bore opening.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the Dodge P2B-S2-203RE pillow block bearing.

- **Mounting Surface Preparation:** Ensure the mounting surface is clean, flat, and rigid to prevent housing distortion and misalignment.

- **Bolt Hole Alignment:** This unit features 2 bolt holes. Align the bearing housing with the pre-drilled holes on the mounting surface. The minimum bolt spacing is 6-9/16 inches, and the maximum is 6-15/16 inches.
- **Shaft Insertion:** Carefully slide the shaft through the bearing bore. The 2-3/16 inch bore is designed for precise fitment.
- **Concentric Collar Mount:** Secure the bearing to the shaft using the Springlok concentric collar. Follow manufacturer guidelines for proper tightening to ensure a firm grip without over-stressing the bearing.
- **Tightening Bolts:** Gradually tighten the mounting bolts in an alternating pattern to ensure even pressure and prevent housing distortion. Do not overtighten.
- **Alignment Check:** After installation, verify shaft and bearing alignment to minimize stress and ensure smooth operation. Misalignment can lead to premature wear and failure.

### 3. OPERATING PRINCIPLES

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The Dodge P2B-S2-203RE pillow block bearing is designed to provide reliable support for rotating shafts in various industrial applications. Its spherical roller bearing design allows for angular misalignment, while the relubricatable feature ensures consistent performance under demanding conditions.

- **Load Capacity:** Ensure the applied radial and axial loads do not exceed the bearing's rated capacity. Refer to Dodge engineering specifications for detailed load ratings.
- **Operating Temperature:** Monitor the bearing's operating temperature. Excessive heat can indicate lubrication issues, misalignment, or overloading.
- **Relubrication:** The bearing is designed to be relubricated. Follow the maintenance schedule for proper grease application to maintain optimal performance and extend service life.

### 4. MAINTENANCE

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Regular maintenance is essential for maximizing the lifespan and efficiency of your Dodge P2B-S2-203RE pillow block bearing.

- **Lubrication:** This bearing is relubricatable. Periodically apply appropriate grease through the grease fitting (visible on the housing). The frequency of lubrication depends on operating conditions such as speed, load, temperature, and environment. Consult a lubrication chart or Dodge's recommendations for specific intervals. Avoid over-greasing, which can lead to overheating.
- **Inspection:** Regularly inspect the bearing for signs of wear, damage, corrosion, or contamination. Check for unusual noises, vibrations, or excessive heat.
- **Seal Integrity:** Verify the integrity of the triple lip contact seals. Damaged seals can allow contaminants to enter the bearing, leading to premature failure.
- **Mounting Bolt Torque:** Periodically check and re-torque mounting bolts to ensure they remain secure.
- **Cleaning:** Keep the exterior of the bearing and surrounding area clean to prevent dirt and debris from entering the seals.

### 5. TROUBLESHOOTING

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This section provides guidance on common issues that may arise with the Dodge P2B-S2-203RE pillow block bearing.

Symptom	Possible Cause	Corrective Action
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Symptom	Possible Cause	Corrective Action
Excessive Noise / Vibration	Misalignment, insufficient lubrication, worn bearing, contamination, loose mounting bolts.	Check alignment, add proper lubricant, inspect for wear/damage, clean, tighten bolts.
Overheating	Insufficient or incorrect lubrication, over-greasing, misalignment, excessive load, damaged seals.	Verify lubrication type and quantity, check alignment, reduce load if possible, inspect seals.
Premature Wear	Contamination, improper lubrication, misalignment, overloading, vibration.	Improve sealing, ensure proper lubrication, correct alignment, verify load, address vibration sources.
Grease Leakage	Over-greasing, damaged seals, incorrect grease type.	Reduce grease quantity, replace seals, use recommended grease.

## 6. SPECIFICATIONS

Key technical specifications for the Dodge P2B-S2-203RE Pillow Block bearing:



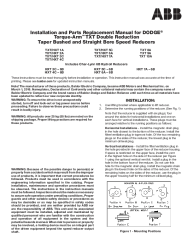



- **Model Number:** P2B-S2-203RE
- **Bearing Number:** P2B S2203RE
- **Bearing Type:** Ball Bearing (Spherical Roller Bearing as per description)
- **Bore Diameter:** 2-3/16 inches
- **Housing Material:** Cast Iron
- **Mounting:** 2 Bolt Holes
- **Base to Center Height:** 2-1/2 inches
- **Collar Type:** Concentric Collar (Springlok)
- **Seal Type:** Triple Lip Contact
- **Lubrication:** Relubricatable
- **Expansion Type:** Yes
- **Minimum Bolt Spacing:** 6-9/16 inches
- **Maximum Bolt Spacing:** 6-15/16 inches
- **Item Weight:** 12.91 Pounds
- **Manufacturer:** Dodge
- **UPC:** 782475306114

## 7. WARRANTY AND SUPPORT

For detailed warranty information and technical support regarding the Dodge P2B-S2-203RE Pillow Block bearing, please contact Dodge directly or refer to the official documentation provided at the time of purchase. Warranty terms typically cover manufacturing defects under normal operating conditions.

It is recommended to register your product with Dodge, if applicable, to ensure you receive important updates and support.

Related Documents - P2B-S2-203RE

	<p><a href="#">DODGE SLEEVOIL RXT Pillow Block Installation and Operation Manual</a></p> <p>Comprehensive installation and operation manual for DODGE SLEEVOIL RXT Pillow Blocks. Learn about proper assembly, lubrication, and maintenance for optimal performance and longevity.</p>
	<p><a href="#">2024 Dodge Hornet Owner's Manual</a></p> <p>Comprehensive owner's manual for the 2024 Dodge Hornet, covering operation, maintenance, safety features, and troubleshooting. Learn about your vehicle's systems, controls, and how to ensure a safe and enjoyable driving experience.</p>
	<p><a href="#">Dodge Torque-Arm TXT Double Reduction Speed Reducers: Installation and Parts Manual</a></p> <p>Comprehensive installation and parts replacement manual for Dodge Torque-Arm TXT Double Reduction Taper Bushed and Straight Bore Speed Reducers. Covers installation, lubrication, storage, motor mount setup, and detailed parts lists with identification numbers. Includes technical specifications and safety warnings.</p>
	<p><a href="#">2016 Dodge Durango, Journey, and Grand Caravan Brochure   Features &amp; Specs</a></p> <p>Explore the 2016 Dodge Durango, Journey, and Grand Caravan. Discover detailed features, specifications, interior and exterior options, and buyer's guides for Dodge's SUV and minivan lineup.</p>
	<p><a href="#">2011 Dodge Charger User Guide</a></p> <p>Comprehensive user guide for the 2011 Dodge Charger, covering vehicle features, operation, safety, maintenance, and electronics. Provided by Chrysler Group LLC.</p>
	<p><a href="#">2024 Dodge Durango Owner's Manual</a></p> <p>Comprehensive owner's manual for the 2024 Dodge Durango, including SRT models. This guide covers vehicle features, operation, maintenance, safety, and troubleshooting.</p>