

Dodge P2B-GTM-100

DODGE P2B-GTM-100 Two-Bolt Pillow Block Instruction Manual

Model: P2B-GTM-100

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the DODGE P2B-GTM-100 Two-Bolt Pillow Block. This non-expansion bearing unit features a cast iron housing and is designed for a 1-inch bore diameter shaft. Proper adherence to these instructions will ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. Failure to follow safety precautions can result in serious injury or equipment damage.

- **Read the entire manual:** Understand all instructions before proceeding.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective footwear.
- **Lockout/Tagout:** Ensure all power sources are disconnected and locked out before working on machinery.
- **Proper Tools:** Use only the correct tools for the task.
- **Qualified Personnel:** Installation and maintenance should only be performed by trained and qualified personnel.
- **Heavy Component:** The pillow block may be heavy. Use proper lifting techniques or equipment to prevent injury.

3. SETUP AND INSTALLATION

Careful installation is crucial for the proper function and lifespan of the pillow block bearing.

1. **Inspect Components:** Before installation, inspect the pillow block for any signs of damage during shipping. Ensure the bore is clean and free of debris.
2. **Prepare Mounting Surface:** The mounting surface must be clean, flat, and rigid to prevent

misalignment and vibration.

3. **Position the Pillow Block:** Place the pillow block on the prepared mounting surface.
4. **Insert Shaft:** Carefully slide the 1-inch diameter shaft through the bearing bore. Ensure the shaft is clean and free of burrs.
5. **Secure Mounting Bolts:** Insert the two mounting bolts through the base of the pillow block and into the mounting surface. Hand-tighten the bolts initially.
6. **Align Shaft:** Ensure proper shaft alignment. Misalignment can lead to premature bearing failure. Use appropriate alignment tools if necessary.
7. **Torque Mounting Bolts:** Gradually tighten the mounting bolts to the manufacturer's recommended torque specifications (refer to specific engineering drawings or Dodge technical data for precise values). Tighten bolts in an alternating pattern to ensure even pressure.
8. **Lubricate:** Apply appropriate lubricant as specified in the Maintenance section.



Figure 1: DODGE P2B-GTM-100 Two-Bolt Pillow Block. This image shows the cast iron housing with two mounting bolt holes and the central bore for the shaft.

4. OPERATING INSTRUCTIONS

Once installed, the DODGE P2B-GTM-100 pillow block is designed for continuous operation within its

specified load and speed limits. Ensure the operating environment is free from excessive dust, moisture, or corrosive agents that could compromise bearing integrity.

- **Initial Run-in:** During the initial hours of operation, monitor the bearing for unusual noise, vibration, or excessive heat.
- **Temperature Monitoring:** Periodically check the bearing temperature. Excessive heat can indicate lubrication issues or overload.
- **Vibration Monitoring:** Excessive vibration can indicate misalignment or damage.

5. MAINTENANCE

Regular maintenance is essential to maximize the service life of your DODGE P2B-GTM-100 pillow block.

- **Lubrication:** The bearing requires periodic lubrication. Consult the specific bearing insert documentation or Dodge lubrication guidelines for the recommended lubricant type and frequency. Over-lubrication can be as detrimental as under-lubrication.
- **Inspection:** Regularly inspect the pillow block for signs of wear, corrosion, or damage. Check for loose mounting bolts.
- **Cleaning:** Keep the area around the bearing clean to prevent contaminants from entering the seal.
- **Seal Integrity:** Inspect the bearing seals for damage or deterioration. Damaged seals can allow contaminants to enter the bearing.

6. TROUBLESHOOTING

This section outlines common issues and potential solutions.

Symptom	Possible Cause	Solution
Excessive Noise	Lack of lubrication, contamination, misalignment, worn bearing.	Check lubrication, clean, verify alignment, replace bearing if worn.
Overheating	Insufficient lubrication, over-lubrication, excessive load, misalignment, tight fit.	Adjust lubrication, reduce load, check alignment, verify shaft fit.
Vibration	Misalignment, unbalanced shaft, loose mounting bolts, worn bearing.	Check alignment, balance shaft, tighten bolts, replace bearing.
Premature Failure	Improper installation, inadequate lubrication, overloading, contamination.	Review installation steps, ensure proper lubrication, verify load, maintain clean environment.

7. SPECIFICATIONS

Key specifications for the DODGE P2B-GTM-100 Two-Bolt Pillow Block are listed below.

Specification	Value
Brand	Dodge
Model Number	P2B-GTM-100

Specification	Value
Material	Cast Iron
Bore Diameter	1 inch
Bearing Type	Two-Bolt Pillow Block, Non-Expansion
Bearing Number	129217
UPC	782475879588

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Dodge customer service or visit the official Dodge website. Keep your purchase receipt and product model number (P2B-GTM-100) readily available when seeking support.

Dodge Official Website: [Visit the Dodge Store on Amazon](#)