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Huarntwo 6204-2RS

Huarntwo 6204-2RS Replacement Ball Bearing User Manual

Model: 6204-2RS

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Huarntwo 6204-2RS Replacement Ball Bearings. These deep groove ball bearings are designed for stable performance and cost-effectiveness, featuring a double seal to protect against impurities and retain lubrication.

Product Overview

The Huarntwo 6204-2RS ball bearings are precision-engineered components made from alloy steel, offering high load-carrying capacity, corrosion resistance, good fatigue resistance, and excellent dimensional stability. They are pre-lubricated and feature a double-seal design to ensure long-lasting performance by preventing contaminants from entering and grease from escaping.



Image: Two Huarntwo 6204-2RS ball bearings, showcasing their standard design with black seals.



Image: Diagram highlighting the benefits of chrome steel, including high load-carrying capacity, corrosion resistance, good fatigue resistance, and excellent dimensional stability.

SPECIFICATIONS

Bearing Number	6204-2RS
Outer Diameter (OD)	1.85 inches (47 mm)
Inner Diameter (ID)	0.787 inches (20 mm)
Height / Thickness	0.56 inches (14.28 mm)
Material	Alloy Steel
Seal Type	Double Seal (2RS)
Lubrication	Pre-Lubricated
Quantity per Pack	2 Pieces



Image: Detailed dimensional diagram of the 6204-2RS bearing, showing outer diameter, inner diameter, and height measurements.

Compatibility

These 6204-2RS replacement ball bearings are compatible with various equipment and replace the following original bearing numbers:

- **Craftsman, Poulan, Husqvarna:** 129895, 532129895, 738220419
- **MTD, Cub Cadet:** 741-0919, 941-0919, 741-0919A, 941-0919A, 741-0919B, 941-0919B
- **Toro:** 251-297, 251-318
- **Ariens:** 54123, 05412300

Always verify the required bearing dimensions and part numbers for your specific equipment before installation.

Installation Guidelines

Proper installation is crucial for the longevity and performance of the bearing. While specific steps vary by application, general guidelines include:

1. **Safety First:** Ensure the equipment is powered off, disconnected, and secured to prevent accidental movement. Wear appropriate personal protective equipment (PPE).
2. **Preparation:** Clean the housing and shaft thoroughly, removing any old grease, dirt, or debris. Inspect for damage or wear.
3. **Bearing Handling:** Handle bearings with clean hands or gloves. Avoid dropping or impacting the bearing.
4. **Mounting:**
    - For press-fit applications, apply even pressure to the inner or outer ring as appropriate, using a bearing press or a suitable sleeve and hammer. Never strike the outer ring when pressing onto a shaft, or the inner ring when pressing into a housing.
    - Ensure the bearing is seated squarely and fully.
5. **Lubrication:** These bearings are pre-lubricated and sealed. No additional lubrication is typically required upon installation.
6. **Reassembly:** Reassemble the equipment according to the manufacturer's instructions.
7. **Testing:** After reassembly, manually rotate the shaft or component to ensure smooth movement without binding. Perform a low-speed test run if applicable.

Refer to your equipment's specific service manual for detailed installation procedures.

Operating Principles

The 6204-2RS deep groove ball bearing is designed to support radial and axial loads in both directions. Its optimized internal design contributes to low friction and reduced noise during operation, even under prolonged use. The double seals (2RS) ensure that the internal lubrication is retained and external contaminants are excluded, which is vital for maintaining performance in various environments.



Image: A Huarntwo 6204-2RS bearing shown within a complex gear mechanism, illustrating its role in various machinery applications.

Maintenance

Huarntwo 6204-2RS bearings are pre-lubricated and sealed for life under normal operating conditions, requiring minimal maintenance. However, regular inspection of the surrounding components and operating environment is recommended.

- **Visual Inspection:** Periodically check for signs of external damage, excessive vibration, or unusual noise from the bearing area.
- **Environmental Protection:** Ensure that seals and shields of the equipment are intact to protect the bearing from harsh environmental conditions, even though the bearing itself is double-sealed.
- **Cleaning:** Keep the area around the bearing clean to prevent accumulation of dirt and debris that could compromise the seals over time.

If a bearing exhibits signs of failure (e.g., excessive noise, heat, or play), it should be replaced immediately to prevent further damage to the equipment.

Troubleshooting

While ball bearings are generally reliable, issues can arise. Here are common symptoms and potential causes:

Symptom	Potential Cause	Action
Excessive Noise (Grinding, Squealing)	Contamination, lack of lubrication (unlikely for sealed bearings unless seals are compromised), improper installation, bearing wear.	Inspect for contamination. If seals are intact, bearing wear is likely. Replace the bearing. Ensure correct installation.
Excessive Heat	Over-tightening during installation, insufficient clearance, excessive load, lack of lubrication, bearing damage.	Check installation torque. Verify proper fit. Reduce load if possible. Replace damaged bearing.
Vibration	Bearing wear, imbalance in rotating components, improper seating.	Inspect bearing for wear or damage. Ensure proper seating. Check for balance of associated components. Replace bearing if worn.
Bearing Seizes	Severe contamination, complete loss of lubrication, catastrophic failure due to overload or impact.	Immediate replacement is required. Investigate cause to prevent recurrence.

For persistent issues, consult a qualified technician or the equipment manufacturer's service manual.

Warranty and Support

Huarntwo products are manufactured to high standards. For specific warranty information or technical support, please refer to the official Huarntwo website or contact their customer service department. Keep your purchase receipt as proof of purchase.

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