

WJB MI-21-N

WJB MI-21-N Nrb Guiderol-Cagerol Inner Ring Instruction Manual

Model: MI-21-N

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of the WJB MI-21-N Nrb Guiderol-Cagerol Inner Ring. Adhering to these guidelines will ensure optimal performance and longevity of the component. Please read this manual thoroughly before proceeding with any procedures.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in personal injury or damage to equipment.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling or installing the inner ring.
- Ensure that all machinery is de-energized and locked out before beginning any installation or maintenance work.
- Handle the inner ring with care to prevent damage to its precision surfaces. Avoid dropping or subjecting it to impact.
- Use only recommended tools and procedures for installation and removal.
- Consult a qualified professional if you are unsure about any installation or maintenance steps.

3. PRODUCT OVERVIEW

The WJB MI-21-N is an Nrb Guiderol-Cagerol Inner Ring, designed as a critical component within a larger bearing assembly. This inner ring provides a hardened and ground raceway for the rolling elements, facilitating smooth and efficient rotational motion in various industrial applications. It is engineered for durability and precision performance.



Image: The WJB MI-21-N Nrb Guiderol-Cagerol Inner Ring, a precision-engineered component for bearing assemblies.

4. SETUP AND INSTALLATION

1. **Preparation:** Ensure the shaft and housing bores are clean, free from burrs, and within specified tolerances. Check for any existing damage or contamination.
2. **Heating (Optional):** For interference fits, the inner ring may be heated to a maximum of 120°C (248°F) using an induction heater or oil bath. Do not use an open flame.
3. **Mounting:** Carefully slide or press the inner ring onto the shaft. Apply even pressure to the face of the inner ring using a suitable mounting tool. Never strike the inner ring directly with a hammer.
4. **Alignment:** Ensure the inner ring is seated squarely against the shaft shoulder or spacer. Verify proper alignment to prevent premature wear.
5. **Final Inspection:** After installation, visually inspect the inner ring for any signs of damage or improper seating.

5. OPERATING PRINCIPLES

The MI-21-N inner ring functions as the stationary or rotating raceway for the rolling elements (needles or rollers) within a Guiderol-Cagerol bearing. Its precision-ground surface ensures minimal friction and wear, allowing for efficient power transmission and support of radial loads. Proper lubrication and operating conditions are crucial for maintaining its performance and extending its service life.

6. MAINTENANCE

- **Lubrication:** Follow the lubrication schedule and specifications for the complete bearing assembly. Ensure the inner ring raceway receives adequate lubrication to prevent metal-to-metal contact.
- **Inspection:** Periodically inspect the inner ring for signs of wear, pitting, corrosion, or discoloration. Pay close attention to the raceway surface.
- **Cleaning:** If the bearing assembly requires cleaning, use appropriate solvents and ensure all residues are removed before

re-lubrication. Avoid harsh chemicals that could damage the material.

- **Replacement:** Replace the inner ring if significant wear, damage, or signs of fatigue are observed. Early replacement can prevent catastrophic failure of the entire bearing system.

7. TROUBLESHOOTING

Symptom	Possible Cause	Solution
Excessive Noise/Vibration	Improper installation, insufficient lubrication, contamination, wear.	Check alignment, verify lubrication, inspect for contamination, replace if worn.
Overheating	Insufficient lubrication, excessive load, improper fit.	Ensure proper lubrication, reduce load if possible, verify fit tolerances.
Premature Wear	Contamination, inadequate lubrication, misalignment, excessive load.	Improve sealing, review lubrication schedule, correct alignment, check load ratings.

8. SPECIFICATIONS

Model: MI-21-N
Brand: WJB
Type: Nrb Guiderol-Cagerol Inner Ring
Item Weight: 10 Pounds
Manufacturer: WJB
ASIN: B00FAYDW9W
Date First Available: July 26, 2018

9. WARRANTY AND SUPPORT

WJB products are manufactured to high-quality standards. For specific warranty information, please refer to the official WJB website or contact your authorized distributor. For technical support or inquiries, please visit the [WJB Store on Amazon](#) or the manufacturer's official support channels.

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