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› Link-Belt FC323 Ball Bearing Flange Unit Instruction Manual

## Link-Belt FC323

# Link-Belt FC323 Ball Bearing Flange Unit Instruction Manual

## PRODUCT OVERVIEW

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This manual provides essential information for the installation, operation, and maintenance of the Link-Belt FC323 Ball Bearing Flange Unit. This unit is designed for industrial applications requiring reliable rotational support.

### Key Features:

- Ball Bearing Flange Unit design for robust mounting.
- Pre-lubricated for initial use (compatible with grease).

## UNPACKING AND INSPECTION

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Upon receiving your Link-Belt FC323 unit, carefully inspect the packaging and the unit itself for any signs of damage incurred during transit. Report any damage immediately to your supplier.



**Figure 1:** The Link-Belt FC323 Ball Bearing Flange Unit as received in its original brown cardboard packaging. The box clearly displays the "Link-Belt Bearings" logo in red text.

## SETUP AND INSTALLATION

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Proper installation is crucial for the longevity and performance of the bearing unit. Ensure all mounting surfaces are clean, flat, and free of burrs.

1. **Preparation:** Clean the shaft and the mounting surface thoroughly. Ensure the shaft diameter matches the bearing's bore.
2. **Mounting:** Slide the bearing unit onto the shaft. Align the flange unit with the pre-drilled holes on the mounting surface.
3. **Securing:** Insert appropriate bolts through the flange holes and secure the unit to the mounting surface. Tighten bolts evenly to prevent distortion of the housing. Refer to your equipment's specific torque specifications.
4. **Shaft Locking:** Secure the bearing to the shaft using the set screws or eccentric locking collar, depending on the specific design of your FC323 unit. Ensure the shaft is firmly gripped without excessive force that could deform the inner ring.

## OPERATING PRINCIPLES

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The Link-Belt FC323 Ball Bearing Flange Unit is designed to support radial and axial loads while allowing smooth rotational motion. The internal ball bearings reduce friction between moving parts, ensuring efficient operation. Proper alignment and lubrication are key to maintaining optimal performance and preventing premature wear.

## MAINTENANCE

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Regular maintenance extends the lifespan of your bearing unit. The FC323 unit is compatible with grease lubrication.

### Lubrication:

- **Initial Lubrication:** The unit is typically pre-lubricated from the factory.
- **Re-lubrication:** Periodically re-lubricate the bearing with a high-quality, compatible grease. The frequency depends on operating conditions such as speed, load, temperature, and environment. Consult a lubrication schedule for your specific application.
- **Application:** Apply grease through the grease fitting (if present) until a slight bead of fresh grease appears at the seals. Avoid over-greasing, which can lead to overheating.

## Inspection:

- Regularly check for unusual noise, vibration, or excessive heat.
- Inspect seals for damage or signs of lubricant leakage.
- Ensure mounting bolts remain tight.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Excessive Noise	Lack of lubrication, contamination, misalignment, worn bearing.	Re-lubricate, clean, check alignment, replace bearing if worn.
Overheating	Over-lubrication, insufficient lubrication, excessive load, misalignment.	Adjust lubrication, reduce load, correct alignment.
Vibration	Misalignment, imbalance, loose mounting, worn bearing.	Check alignment, balance rotating components, tighten mounting, replace bearing.

## SPECIFICATIONS

Attribute	Detail
Model	FC323
Brand	Link-Belt
Bearing Type	Ball Bearing
Compatible Lubricant	Grease
Manufacturer	Linkbelt
ASIN	B01B283R80
Date First Available	May 29, 2018

## WARRANTY INFORMATION

Link-Belt products are manufactured to high standards. For specific warranty terms and conditions, please refer to the official Link-Belt warranty statement provided with your purchase or visit the manufacturer's official website. Typically, industrial components carry a limited warranty against defects in materials and workmanship under normal use and service.

## CUSTOMER SUPPORT

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For technical assistance, spare parts, or further inquiries regarding your Link-Belt FC323 Ball Bearing Flange Unit, please contact your authorized Link-Belt distributor or the manufacturer directly. Provide the model number (FC323) and any relevant purchase details when seeking support.

*Note: Always refer to the latest technical documentation and safety guidelines provided by the manufacturer.*