

KOGEL KOL-RX800-R-GOLD

Kogel Kolossos Oversized Pulley Cage User Manual

Model: KOL-RX800-R-GOLD

INTRODUCTION

The Kogel Kolossos Oversized Pulley Cage is an advanced bicycle component designed to optimize drivetrain efficiency and shifting performance. It features oversized pulleys with ceramic bearings, engineered to reduce friction and improve power transfer. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Kolossos Oversized Pulley Cage.



Image: The Kogel Kolossos Oversized Pulley Cage, featuring a gold-anodized aluminum cage and two black oversized derailleur pulleys. The upper pulley is smaller than the lower one, and the cage has a distinctive open design with structural bracing. A bearing symbol is visible on the lower part of the cage, indicating the location of the ceramic bearings.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your Kolossos Oversized Pulley Cage. It is recommended that installation be performed by a qualified bicycle mechanic. This unit is designed to fit Shimano RX800 and GRX derailleurs.

Tools Required:

- Hex key set (typically 2mm, 2.5mm, 3mm)
- Chain whip (if removing chain)
- Chain breaker (if replacing chain)
- Torque wrench (recommended for precise installation)
- Degreaser and clean rags

Installation Steps:

1. **Preparation:** Ensure your bicycle is securely mounted in a repair stand. Shift the chain to the smallest cog and chainring.
2. **Remove Existing Pulley Cage:** Carefully remove the existing derailleur pulley cage. This typically involves unscrewing the pivot bolt that holds the cage to the derailleur body. Note the orientation of the original cage and pulleys.
3. **Clean Derailleur Body:** Thoroughly clean the derailleur body, especially the area where the new cage will attach, to remove any dirt or old grease.
4. **Install Kolossos Cage:** Align the Kogel Kolossos cage with the derailleur body. Insert the pivot bolt and tighten it according to the derailleur manufacturer's specifications. Use a torque wrench if possible to ensure proper tension.
5. **Chain Length Adjustment:** Due to the larger pulleys, your chain length may need to be adjusted. It is often necessary to add 2-4 links to the chain. Consult a bicycle chain length guide or a professional mechanic for precise adjustment.
6. **Re-install Chain:** Route the chain through the new Kolossos cage, ensuring it passes correctly over the upper and lower pulleys. The long tooth profile on the lower pulley is designed for optimal chain retention.
7. **Derailleur Adjustment:** After installation, perform a full derailleur adjustment, including B-tension, limit screws, and cable tension, to ensure smooth and accurate shifting across all gears.

OPERATING PRINCIPLES

The Kogel Kolossos Oversized Pulley Cage is designed to enhance your cycling experience by reducing drivetrain friction and improving shifting precision. Its oversized pulleys decrease the angle at which the chain bends, leading to less friction and more efficient power transfer. The ceramic bearings further minimize resistance, contributing to a smoother and faster ride.

- **Reduced Friction:** The larger diameter pulleys and ceramic bearings significantly reduce frictional losses in the drivetrain.
- **Improved Shift Accuracy:** The precise design and long tooth profile on the lower pulley contribute to consistent and accurate gear changes.
- **Versatile Use:** Suitable for both on-road and off-road cycling conditions.
- **Compatibility:** Fits both SS (short) cage and GS (mid) cage Shimano RX800 and GRX derailleurs.

MAINTENANCE

Regular maintenance will ensure the longevity and continued high performance of your Kogel Kolossos Oversized Pulley

Cage.

Cleaning:

- After each ride, especially in wet or dirty conditions, clean the pulleys and cage with a degreaser and a brush.
- Rinse thoroughly with water and dry completely.
- Avoid high-pressure washing directly on the bearings.

Lubrication:

- While the ceramic bearings are designed for low maintenance, occasional light lubrication of the chain and the interface between the pulleys and the cage can be beneficial.
- Use a high-quality, low-viscosity chain lubricant.

Inspection:

- Periodically inspect the pulleys for wear, especially the teeth. Worn teeth can lead to poor shifting and chain skipping.
- Check the cage for any signs of damage, bending, or cracks.
- Ensure all bolts are securely tightened.

TROUBLESHOOTING

If you encounter issues with your Kolossos Oversized Pulley Cage, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Poor Shifting Performance	Incorrect chain length, improper derailleur adjustment, dirty pulleys/chain.	Verify chain length (add links if necessary). Re-adjust derailleur (B-tension, limit screws, cable tension). Clean and lubricate pulleys and chain.
Noise from Pulleys	Dirty bearings, worn pulleys, insufficient lubrication.	Clean pulleys and bearings. Inspect for wear and replace if necessary. Ensure chain is properly lubricated.
Chain Jams	Incorrect chain length, bent cage, improper chain routing.	Check and adjust chain length. Inspect cage for damage. Ensure chain is routed correctly through the cage and pulleys. The integrated chain catcher helps prevent jams.

SPECIFICATIONS

Feature	Detail
Model	KOL-RX800-R-GOLD
Compatibility	Shimano RX800 and GRX derailleurs (SS and GS cages)
Pulley Bearings	Ceramic balls with steel races
Cage Material	Alloy Steel
Color	Gold cage, black pulleys
Special Features	Long tooth profile on lower pulley, integrated chain catcher

Feature	Detail
Item Weight	10.08 ounces (approx. 285.8 grams)
Item Dimensions (LxWxH)	9.45 x 6.3 x 1.97 inches
UPC	735201957104

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Kogel Kolossos Oversized Pulley Cage, please contact Kogel Bearings directly through their official website or authorized distributors. Keep your proof of purchase for warranty claims.

