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› [All Balls](#) /

› All Balls Racing 25-1278 Wheel Bearing Kit Instruction Manual

## All Balls 25-1278

# All Balls Racing 25-1278 Wheel Bearing Kit Instruction Manual

Compatible with Kawasaki KZ 650 C Custom 1977-1979

## PRODUCT OVERVIEW

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The All Balls Racing 25-1278 Wheel Bearing Kit is designed as a direct replacement for the rear wheel bearings of Kawasaki KZ650C models from 1977 to 1979. This kit provides essential components to ensure the smooth and free operation of your motorcycle's wheels, which is critical for both performance and safety.



Image: Components of the All Balls Racing 25-1278 Wheel Bearing Kit, including three high-speed bearings and two double-lip TC seals.

## WHAT'S INCLUDED

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Each All Balls Racing 25-1278 Wheel Bearing Kit typically includes the following components:

- 3 x Ball Bearings
- 2 x Seals

## KEY FEATURES

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- **High-Speed Bearings:** Manufactured to ABEC 3 precision levels for optimal performance.
- **Durable Seals:** Features double lip type TC seals with stainless steel garter springs, designed to keep grease in and prevent water and dirt contamination.
- **OEM Specifications:** 100% new aftermarket kit built to meet or exceed OEM specifications for reliable fit and function.

- **Corrosion Resistance:** Bearings are pre-greased with an optimal amount of grease containing rust and oxidation inhibitors to ensure a long lifespan.

## SETUP AND INSTALLATION

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Proper installation of wheel bearings is crucial for safety and performance. It is highly recommended that installation be performed by a qualified mechanic or an individual with extensive experience in motorcycle maintenance. Before beginning installation, ensure you have the correct tools and refer to your motorcycle's specific service manual for detailed, model-specific instructions. Improper installation, including incorrect washing techniques or side loading, can lead to premature bearing failure.

### General Steps (Consult Service Manual for Details):

1. Safely lift and secure the motorcycle to allow access to the rear wheel.
2. Remove the rear wheel assembly from the motorcycle.
3. Carefully remove the old wheel bearings and seals from the wheel hub. Note their orientation.
4. Thoroughly clean the bearing bores and surrounding areas, ensuring no dirt or debris remains.
5. Install the new All Balls Racing bearings and seals, ensuring they are seated correctly and without damage. Use appropriate bearing installation tools to avoid side loading or damaging the bearings.
6. Reassemble the wheel onto the motorcycle, ensuring all components are properly torqued according to the service manual.
7. Test the wheel for smooth rotation and absence of play before operating the motorcycle.

## OPERATING PRINCIPLES

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Wheel bearings serve as the critical connection points between your motorcycle's hubs and axle. They are designed to allow the wheel to rotate smoothly and freely with minimal friction, supporting the vehicle's weight and handling radial and axial loads during operation.

The high-speed bearings in this kit are engineered for precision, contributing to stable and efficient wheel rotation. The integrated seals play a vital role in protecting the internal components of the bearings from external contaminants like dirt, water, and other debris, which are common in riding environments. This protection is essential for maintaining the bearing's lubrication and extending its operational life.

## MAINTENANCE

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Wheel bearings are subject to constant friction and load, and over time, they will naturally wear out. Factors such as dirt and water contamination, improper washing techniques, incorrect installation, and side loading can accelerate wear and lead to premature failure.

Regular inspection of your wheel bearings is recommended as part of your motorcycle's routine maintenance schedule. Check for any signs of looseness, wobbling, or unusual noises coming from the wheel area. If these symptoms are present, it indicates that the bearings may need replacement.

When replacing bearings, consider upgrading to high-quality kits like the All Balls Racing kit, which features enhanced seals and optimal lubrication to extend bearing life and improve durability. The double lip type TC seals with stainless steel garter springs are specifically designed to provide superior protection against contaminants, ensuring the longevity of the bearings.

## TROUBLESHOOTING

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If you experience issues with your motorcycle's wheels, such as excessive play, grinding noises, or a feeling of looseness, it may indicate worn or damaged wheel bearings. These symptoms can compromise handling and safety.

- **Wobbling or Play:** If you can feel excessive side-to-side movement in the wheel when the motorcycle is lifted, the

bearings are likely worn.

- **Noise:** Grinding, humming, or roaring noises that increase with speed can be a sign of failing bearings.
- **Rough Rotation:** If the wheel does not spin smoothly or feels rough when rotated by hand, the bearings may be damaged.

In such cases, immediate inspection and replacement of the wheel bearing kit are necessary to restore safe and proper operation of your motorcycle.

### SPECIFICATIONS

| Attribute                | Detail                                                       |
|--------------------------|--------------------------------------------------------------|
| Brand                    | All Balls                                                    |
| Model Number             | 25-1278                                                      |
| Item Weight              | 1.12 pounds                                                  |
| Product Dimensions       | 5 x 4.8 x 2.7 inches                                         |
| Manufacturer Part Number | 25-1278                                                      |
| OEM Part Number          | Kawasaki KZ 650 C Custom 1977 1978 1979                      |
| Bearing Precision Level  | ABEC 3                                                       |
| Seal Type                | Double lip type TC seals with stainless steel garter springs |

### WARRANTY AND SUPPORT

All Balls Racing offers a **1-year warranty** on this product. This warranty protects your purchase and ensures that the product will function flawlessly once installed in your vehicle. In the rare event that the product does not perform as expected, All Balls Racing will replace it anytime within one year of your order date.

For any issues, questions, or to request a replacement under warranty, please contact All Balls Racing customer support. They are committed to assisting you and resolving any problems you may encounter.

For further information or assistance, please visit the official All Balls Racing website or contact their customer service department directly.

#### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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