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## CeramicSpeed 105170

# CeramicSpeed BBright Shimano Road Bottom Bracket Instruction Manual

Model: 105170

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your CeramicSpeed BBright Shimano Road Bottom Bracket. Designed for optimal performance, this bottom bracket facilitates smooth power transfer from your crankset to the bicycle's drivetrain. It is compatible with Shimano and FSA 24mm spindle cranksets when used in a BBright frame.

The CeramicSpeed BBright Shimano Road Bottom Bracket features high-quality ceramic bearings, engineered for reduced friction and increased durability, contributing to an efficient cycling experience.



Image 1.1: Components of the CeramicSpeed BBright Shimano Road Bottom Bracket, showing the bearing cups and internal sleeve.

## 2. SAFETY INFORMATION

Always prioritize safety when working on your bicycle. Improper installation or maintenance can lead to component failure, resulting in serious injury. Please observe the following safety guidelines:

- Read this manual completely before attempting installation or maintenance.
- If you are unsure about any step, consult a professional bicycle mechanic.
- Use appropriate tools for installation and removal.
- Wear safety glasses to protect your eyes from debris.
- Keep all components and tools out of reach of children.
- Ensure all parts are clean and free of contaminants before assembly.

### 3. PACKAGE CONTENTS

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The CeramicSpeed BBright Shimano Road Bottom Bracket package typically includes the following items:

- Bottom Bracket (consisting of two bearing cups with ceramic bearings and an internal sleeve)

Please verify that all components are present and undamaged upon opening the package. If any items are missing or damaged, contact your retailer or CeramicSpeed customer support immediately.

### 4. SETUP AND INSTALLATION

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The CeramicSpeed BBright Shimano Road Bottom Bracket is a press-fit component designed for BBright frames. Proper installation is crucial for optimal performance and longevity. It is highly recommended that installation be performed by a qualified bicycle mechanic.

#### 4.1. Required Tools and Materials

- Bottom bracket press tool (compatible with BBright)
- Grease (CeramicSpeed All Round Grease or equivalent high-quality bicycle grease)
- Clean rags or paper towels
- Torque wrench
- Crankset installation tools (specific to your Shimano or FSA crankset)

#### 4.2. Installation Steps

1. **Prepare the Frame:** Ensure the BBright bottom bracket shell of your frame is clean, dry, and free of any burrs or imperfections. Inspect the shell for any damage.
2. **Apply Grease:** Apply a thin, even layer of high-quality grease to the inner surfaces of the bottom bracket shell and the outer surfaces of the bottom bracket cups. This aids in installation and helps prevent creaking.
3. **Press the Bearings:** Using a dedicated bottom bracket press tool, carefully press each bearing cup into the frame's bottom bracket shell. Ensure the cups are aligned correctly and press them in slowly and evenly until fully seated. Do not use excessive force.
4. **Install Internal Sleeve:** Insert the internal plastic sleeve between the two bearing cups. This sleeve protects the crank spindle from contamination and helps prevent creaking.
5. **Install Crankset:** Refer to your crankset manufacturer's instructions for proper installation. Apply a thin layer of grease to the crank spindle before inserting it through the bottom bracket. Tighten the crankset to the manufacturer's specified torque settings using a torque wrench.
6. **Final Check:** Rotate the crankset to ensure smooth, unrestricted movement. Check for any play or binding.

Image 4.1: An illustration or photograph demonstrating the correct use of a bottom bracket press tool during installation. (Image not provided, descriptive text only)

### 5. OPERATING PRINCIPLES

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The CeramicSpeed BBright Shimano Road Bottom Bracket functions as the central pivot for your bicycle's crankset, allowing the pedals and chainrings to rotate smoothly. The ceramic bearings within the bottom bracket are designed to minimize friction, which translates to more efficient power transfer from your legs to the rear wheel. This low-friction characteristic is maintained through precision manufacturing and the use of high-quality materials. During operation, the sealed design of the bottom bracket helps protect the internal bearings from dirt, water, and other contaminants, ensuring consistent performance in various riding conditions. Regular inspection and maintenance, as outlined in the next section, will help preserve these operating characteristics.

## 6. MAINTENANCE

Proper maintenance extends the life and performance of your CeramicSpeed bottom bracket. While CeramicSpeed bearings are known for their durability, periodic inspection and cleaning are recommended.

### 6.1. Cleaning

- After riding in wet or dirty conditions, clean the exterior of the bottom bracket area with a damp cloth to remove mud and grime.
- Avoid directing high-pressure water sprays directly at the bottom bracket seals, as this can force water and contaminants into the bearings.

### 6.2. Inspection

- Periodically check for any play in the crankset by gently wiggling the crank arms. Any noticeable play may indicate loose components or worn bearings.
- Listen for unusual noises (e.g., creaking, grinding) coming from the bottom bracket area during pedaling.
- If you suspect an issue, remove the crankset and inspect the bottom bracket bearings for smooth rotation. The bearings should spin freely without resistance or grittiness.

### 6.3. Lubrication

CeramicSpeed bearings are pre-lubricated. For optimal performance, CeramicSpeed recommends using their specific greases. If re-greasing is necessary (e.g., after extensive use or exposure to harsh conditions), consult CeramicSpeed's official maintenance guides for the correct procedure and recommended grease types. Improper lubrication can damage the bearings.

Image 6.1: A close-up view of a bottom bracket bearing being inspected or cleaned. (Image not provided, descriptive text only)

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your bottom bracket.

Symptom	Possible Cause	Solution
Creaking noise from bottom bracket area	Improper installation (e.g., insufficient grease, loose cups) Contamination (dirt, water) Worn bearings	Remove, clean, re-grease, and re-install bottom bracket and crankset. Ensure proper torque. Inspect for damage. If bearings are worn, replacement may be necessary.
Rough or gritty pedaling sensation	Contaminated or damaged bearings Lack of lubrication	Remove crankset and check bearing rotation. Clean and re-grease if possible. If bearings are damaged, replace the bottom bracket.
Excessive play in crankset	Loose crank arm bolts Worn bottom bracket bearings Incorrectly installed crankset spacers	Check and tighten crank arm bolts to manufacturer's specifications. Inspect bearings for wear; replace if necessary. Verify correct crankset spacer configuration according to crankset manufacturer's instructions.

If troubleshooting steps do not resolve the issue, contact CeramicSpeed support or a professional bicycle mechanic.

## 8. SPECIFICATIONS

<b>Model Name</b>	CeramicSpeed BBright Shimano Road
<b>Part Number</b>	105170
<b>Compatibility</b>	BBright frames, Shimano/FSA 24mm spindle cranksets
<b>Bearing Type</b>	CeramicSpeed Standard or Coated (depending on version)
<b>Material</b>	Aluminum cups
<b>Color</b>	Black
<b>Item Weight</b>	0.2 Pounds (approx. 90g)
<b>Item Dimensions (LxWxH)</b>	7.4 x 4.33 x 2.28 inches (packaging)

## 9. WARRANTY INFORMATION

The CeramicSpeed BBright Shimano Road Bottom Bracket comes with a **4-year warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship under normal use.

For full details regarding warranty terms, conditions, and claim procedures, please refer to the official CeramicSpeed website or contact CeramicSpeed customer support. Keep your proof of purchase for warranty claims.

## 10. SUPPORT AND CONTACT

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If you have any questions, require technical assistance, or need to report an issue with your CeramicSpeed product, please contact CeramicSpeed customer support through their official website. You may also consult with an authorized CeramicSpeed dealer or a professional bicycle mechanic for expert advice and service.

For the most up-to-date information, product registration, and additional resources, visit the official CeramicSpeed website: [www.ceramicspeed.com](http://www.ceramicspeed.com)