

## MAGPIE BB2430

# MAGPIE BB2430 Press-Fit BB Removal Tool Kit User Manual

## 1. PRODUCT OVERVIEW

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The MAGPIE BB2430 Press-Fit BB Removal Tool Kit is a specialized tool designed for the efficient and safe installation and removal of press-fit bottom brackets (BB) and BB converters on bicycles. This kit eliminates the need for hammering, thereby protecting your bicycle frame and components from potential damage during maintenance.

It offers broad compatibility with various press-fit BB standards, including BB30, BB86, and Shimano Hollowtech II (24mm axle) press-fit BB converters. Additionally, the kit is capable of removing bearings of specific sizes (25x37x7mm and 30x42x7mm), facilitating bearing upgrades or replacements.

## 2. SAFETY INFORMATION

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- Always wear appropriate personal protective equipment, such as safety glasses, to protect your eyes from debris or accidental impacts.
- Ensure the bicycle is securely mounted in a work stand or otherwise stabilized to prevent movement during the procedure.
- Do not apply excessive force. If components are difficult to install or remove, re-evaluate the procedure and ensure correct tool selection and alignment.
- Keep all tools and components out of reach of children and pets.
- Refer to your bicycle frame and bottom bracket manufacturer's instructions for specific torque specifications and compatibility details.

## 3. PACKAGE CONTENTS

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The MAGPIE BB2430 Press-Fit BB Removal Tool Kit includes the following components, neatly organized within a durable red carrying case with a protective foam insert:



Image: The MAGPIE BB2430 Press-Fit BB Removal Tool Kit, showcasing all components organized within its red carrying case. The kit includes various bronze-colored adapters, a long threaded rod, a cylindrical press handle, an L-shaped hex key, and several washers/spacers, all nestled in a custom-cut foam insert.

- Red Carrying Case with Foam Insert
- Assorted Press-Fit BB Installation/Removal Adapters (various sizes)
- Long Threaded Rod (for pressing/pulling)
- Cylindrical Press Handle/Driver
- L-shaped Hex Key
- Washers and Spacers

## 4. SETUP AND PREPARATION

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1. **Identify BB Type:** Determine the specific press-fit bottom bracket standard (e.g., BB30, BB86) installed on your bicycle to select the correct adapters from the kit.
2. **Clean Work Area:** Thoroughly clean the bottom bracket shell area of your bicycle frame to remove any dirt, grease, or debris. This ensures proper seating and prevents contamination.
3. **Gather Components:** Lay out all necessary components from the kit and the new bottom bracket (if installing) or old bottom bracket (if removing) for easy access.
4. **Lubrication:** For installation, apply a thin, even layer of appropriate grease to the inside of the bottom bracket shell and the outer surfaces of the new bottom bracket cups.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Bottom Bracket Installation

1. Select the appropriate installation adapters that match the diameter and shape of your new bottom bracket cups.
2. Thread the long rod through one adapter, then through one bottom bracket cup, through the bicycle

frame's bottom bracket shell, through the second bottom bracket cup, and finally through the second adapter.

3. Ensure both bottom bracket cups are aligned perfectly with the frame's bottom bracket shell openings. Misalignment can damage the frame or BB.
4. Place a washer and nut onto the threaded rod. Using the hex key or an appropriate wrench, slowly and evenly tighten the nut. This will draw the adapters together, pressing the bottom bracket cups into the frame.
5. Continue tightening gradually, ensuring both cups are pressed in simultaneously and evenly, until they are fully seated against the frame. Do not overtighten.

## 5.2. Bottom Bracket Removal

1. Select the appropriate removal adapter (drift) that fits snugly against the inner edge of the bottom bracket cup you wish to remove.
2. Insert the threaded rod through one side of the bottom bracket shell. On the opposite side, place the receiving cup adapter over the threaded rod.
3. Position the removal drift against the inner lip of the bottom bracket cup to be removed.
4. Assemble the nut and washer onto the threaded rod. Slowly tighten the nut, which will pull the bottom bracket cup out of the frame and into the receiving cup.
5. Repeat the process for the other side if necessary. Ensure the bottom bracket is extracted smoothly without forcing or hammering.

## 6. MAINTENANCE

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- After each use, clean all tool components thoroughly to remove any grease, dirt, or metal shavings.
- Store the tool kit in its original carrying case to protect the components from damage and loss.
- Periodically inspect the threaded rod for any signs of wear, bending, or damaged threads. Inspect adapters for deformation or cracks. Replace damaged components if necessary.
- Apply a light coat of oil to the threaded rod and other metal components if storing for extended periods to prevent rust.

## 7. TROUBLESHOOTING

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- **Bottom Bracket Not Pressing In Evenly:** Ensure the adapters are correctly sized and aligned with the bottom bracket cups and the frame. Apply even pressure by tightening the nut slowly and checking alignment frequently.
- **Bottom Bracket Difficult to Remove:** Verify that the correct removal adapter is used and that it is properly engaged with the bottom bracket cup. Ensure the threaded rod is centered. Do not use excessive force; if stuck, consult a professional bicycle mechanic.
- **Tools Slipping:** Ensure all contact surfaces on the tools and bottom bracket are clean and free of excessive grease or oil, which can reduce friction and cause slippage.
- **Damage to Frame/BB:** This usually indicates incorrect tool usage, misalignment, or excessive force. Always follow instructions carefully and stop if you encounter unusual resistance.

## 8. SPECIFICATIONS

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<b>Model</b>	BB2430
<b>Compatible BB Types</b>	BB30, BB86, Shimano Hollowtech II (24mm axle) press-fit BB converters
<b>Compatible Bearing Sizes for Removal</b>	25x37x7mm, 30x42x7mm
<b>Package Dimensions</b>	30.4 x 27.3 x 8.1 cm
<b>Weight</b>	1.13 kg
<b>Target Gender</b>	Unisex

## 9. WARRANTY AND SUPPORT

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For detailed warranty information, technical support, or inquiries regarding replacement parts, please refer to the official MAGPIE website or contact MAGPIE customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.