SHIMANO BB-UN300

Shimano BB-UN300 Standard Bottom Bracket User Manual

Model: BB-UN300 (73mm x 118mm)

Introduction

This manual provides essential information for the correct installation, operation, and maintenance of your Shimano BB-UN300 Standard Bottom Bracket. Adhering to these instructions will ensure optimal performance and extend the lifespan of your component. The BB-UN300 is designed for reliable, smooth pedaling with JIS square-taper cranksets.

Safety Information

- Always wear appropriate safety gear, including eye protection and gloves, when working on your bicycle.
- If you are unsure about any installation step, consult a professional bicycle mechanic.
- Ensure all tools are in good condition and used correctly to prevent injury or damage to components.
- Keep small parts away from children.

Setup and Installation

Tools Required:

- Bottom bracket tool (compatible with Shimano cartridge bottom brackets)
- Torque wrench
- Grease (lithium-based or bicycle-specific)
- Clean rags

Installation Steps:

1. **Prepare the Bottom Bracket Shell:** Thoroughly clean the threads inside the bicycle's bottom bracket shell. Remove any old grease, dirt, or debris. Inspect the threads for damage.
2. **Apply Grease:** Apply a thin, even layer of grease to the threads of both the bottom bracket shell and the bottom bracket cups. This prevents seizing and aids in proper torque application.
3. **Identify Sides:** The bottom bracket is marked with 'L' for the left (non-drive side) and 'R' for the right (drive side). The drive side cup (right side) typically has a standard right-hand thread (tightens clockwise), while the non-drive side cup (left side) has a left-hand thread (tightens counter-clockwise).



Image: Shimano BB-UN300 bottom bracket. Note the 'L' and 'R' markings indicating left and right sides for installation, along with threading details on the cups.

4. **Install Drive Side:** Carefully thread the drive side (R) cup into the bottom bracket shell by hand, turning clockwise. Ensure it threads smoothly without resistance. If resistance is met, remove, clean, and re-attempt. Do not force it.
5. **Install Non-Drive Side:** Thread the non-drive side (L) cup into the bottom bracket shell by hand, turning counter-clockwise.
6. **Tighten Both Cups:** Use the bottom bracket tool and a torque wrench to tighten both cups to the manufacturer's specified torque. For the Shimano BB-UN300, the recommended torque is typically **50-70 Nm (36-51 ft-lbs)**. Refer to your crankset's instructions for specific torque values for crankarm fixing bolts, which are sold separately.
7. **Install Crankset:** Once the bottom bracket is securely installed, proceed with installing your JIS square-taper crankset according to its specific instructions.

Operation

The Shimano BB-UN300 bottom bracket provides a stable and smooth rotating interface for your bicycle's crankset. Its sealed cartridge design protects the bearings from dirt and moisture, ensuring consistent pedaling performance. Proper installation is crucial for its optimal function, allowing for efficient power transfer from your pedals to the drivetrain.

Maintenance

- **Regular Cleaning:** Keep the area around the bottom bracket clean from dirt, mud, and road grime. Use a damp cloth to wipe down the exterior of the bottom bracket and crankset.
- **Inspection:** Periodically check for any play or looseness in the bottom bracket by wiggling the crank arms. If play is detected, re-check the torque of the bottom bracket cups and crankarm fixing bolts. If play persists, the bottom bracket may need replacement.
- **Avoid High-Pressure Washing:** Do not direct high-pressure water sprays directly at the bottom bracket seals, as this can force water and contaminants past the seals and into the bearings.
- **No Lubrication Required:** The BB-UN300 is a sealed cartridge unit, meaning its internal bearings are pre-lubricated and do not require external lubrication. Attempting to lubricate internally may compromise the seals.

Troubleshooting

Symptom	Possible Cause	Solution
Creaking Noise:	Loose bottom bracket cups, insufficient grease on threads, worn bearings.	Check and re-torque bottom bracket cups. Remove, clean, re-grease threads, and re-install. If noise persists, consider bearing wear.
Play in Crank Arms:	Loose crankarm fixing bolts, loose bottom bracket cups, worn bottom bracket bearings.	Check and tighten crankarm fixing bolts to specified torque. Check and re-torque bottom bracket cups. If play remains, the bottom bracket may need replacement.
Stiff Pedaling:	Over-tightened bottom bracket cups (less common with cartridge units), damaged bearings, contamination.	Ensure bottom bracket cups are torqued correctly. If stiffness persists, the unit may be damaged and require replacement.

Specifications

Feature	Detail
Model Name	BB-UN300 Bottom Bracket
Part Number	EBBUN300C18X
BB Shell Width	73 mm
Spindle Length	118 mm
Bottom Bracket Shell I.D.	1.37 inches
Crankset Compatibility	JIS Square-Taper
Material	Steel Bearings
Weight	Approximately 0.01 Ounces (Note: This weight may refer to packaging or be an error in product data; actual component weight is typically higher.)

Warranty Information

The Shimano BB-UN300 Bottom Bracket comes with a **Limited Warranty**. For detailed terms, conditions, and duration of the warranty, please refer to the official Shimano website or contact Shimano customer support directly. Keep your proof of purchase for warranty claims.

Support

For further assistance, technical questions, or to locate an authorized service center, please visit the official Shimano website or contact their customer support. You can find more information and contact details at the SHIMANO Store on Amazon or their global website.

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