

XLC BS-C02

XLC BS-C02 Cantilever Brake Shoes

User Instruction Manual

Model: BS-C02 | Brand: XLC

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your XLC BS-C02 Cantilever Brake Shoes. Designed for cantilever braking systems, these 55mm brake shoes are supplied as a set of four, ensuring you have a complete replacement for both front and rear brakes. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: A complete set of four XLC BS-C02 Cantilever Brake Shoes, showing their black rubber pads and metal mounting bolts.

2. SAFETY INFORMATION

Always prioritize safety when working on your bicycle's braking system. Improper installation or maintenance can lead to brake failure, resulting in serious injury or death. If you are unsure about any step, consult a qualified bicycle mechanic.

- Ensure your bicycle is stable and secure before beginning any work.
- Wear appropriate safety gear, such as gloves and eye protection.
- Verify that all components are correctly installed and tightened to the manufacturer's specifications.
- Test the brakes thoroughly in a safe area before riding.
- Regularly inspect brake components for wear and damage.

3. SETUP AND INSTALLATION

3.1. Tools Required

- Hex key set (typically 5mm or 6mm for brake bolts)
- Open-end wrench (if your brake shoes use nuts)
- Cable cutters (if replacing brake cables)
- Pliers (for cable adjustment)

3.2. Installation Steps

1. **Remove Old Brake Shoes:** Loosen the retaining bolt on your existing cantilever brake arms using the appropriate hex key or wrench. Carefully slide the old brake shoes off the brake arms. Note the orientation of any washers or spacers.
2. **Prepare New Brake Shoes:** The XLC BS-C02 brake shoes are designed for cantilever systems. Ensure the curved surface of the brake shoe faces the wheel rim. The XLC logo should typically be oriented correctly when installed.



Image 3.1: A single XLC BS-C02 brake shoe, showing the mounting bolt and the ribbed pad surface.

3. **Install New Brake Shoes:** Slide the new XLC BS-C02 brake shoes onto the cantilever brake arms. Reinstall any washers and spacers in their original configuration. The brake shoe should be

positioned so that it contacts the rim squarely when the brake is applied.



Image 3.2: Side view of the brake shoe, illustrating the bolt and pad profile for proper alignment against the wheel rim.

4. Align Brake Shoes:

- Ensure the brake shoe is aligned with the braking surface of the rim, not touching the tire or spokes.
- The entire surface of the brake pad should make contact with the rim simultaneously.
- Set the toe-in: It is often beneficial to set the front of the brake pad to touch the rim slightly before the rear. This helps prevent squealing. A small piece of cardboard (approx. 1-2mm thick) placed at the rear of the pad between the pad and the rim during tightening can assist with this.

5. **Tighten Retaining Bolts:** Once aligned, firmly tighten the brake shoe retaining bolts. Do not overtighten, but ensure they are secure enough to prevent movement during braking.
6. **Adjust Brake Cable Tension:** Adjust the brake cable tension to achieve the desired lever feel and brake shoe clearance from the rim (typically 2-3mm on each side).
7. **Test Brakes:** Before riding, spin the wheel to ensure there is no rubbing. Squeeze the brake lever firmly several times to seat the pads and check for proper function. Test the brakes at low speed in a safe, open area.

4. OPERATING YOUR BRAKES

Proper operation of your bicycle brakes is crucial for safety. The XLC BS-C02 brake shoes provide reliable stopping power when correctly installed and maintained.

- **Braking Technique:** Apply both front and rear brakes simultaneously for optimal stopping power and control. Shift your weight slightly backward when braking hard to maintain stability.
- **Wet Conditions:** In wet conditions, brake performance may be reduced. Apply brakes earlier and more gently to clear water from the rim and pads before applying full braking force.
- **Break-in Period:** New brake pads require a short break-in period (typically 20-50 stops) to achieve full performance. During this time, avoid sudden, hard braking.

5. MAINTENANCE

Regular maintenance extends the life of your brake shoes and ensures consistent braking performance.

- **Regular Inspection:** Before each ride, visually inspect your brake pads for wear, damage, or embedded debris (e.g., small stones, metal shards). Remove any debris carefully.
- **Cleaning:** Keep brake pads and wheel rims clean. Dirt and grime can reduce braking efficiency and accelerate wear. Use a clean cloth and, if necessary, a mild degreaser for the rims. Avoid getting oil or grease on the brake pads.
- **Wear Indicators:** XLC BS-C02 brake shoes have grooves on their surface. When these grooves are no longer visible, or the pad material is very thin (less than 1mm), the brake shoes should be replaced immediately.
- **Replacement:** Replace brake shoes as a set (front and rear) to maintain balanced braking performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Brakes Squeal Loudly	Improper toe-in, dirty rims/pads, worn pads, loose components.	Adjust toe-in, clean rims/pads, replace worn pads, tighten all bolts.
Poor Stopping Power	Worn pads, contaminated pads/rims, loose cable, improper alignment.	Replace worn pads, clean pads/rims, adjust cable tension, realign pads.
Brake Pads Rub Rim Continuously	Too little clearance, misaligned brake arm, bent rim.	Adjust cable tension for more clearance, realign brake arm, true wheel if rim is bent.
Uneven Pad Wear	Improper alignment, bent brake arm.	Realign pads, check brake arm for damage.

7. SPECIFICATIONS

Brand: XLC

Model Name: Bremsschuhe Cantilever Bs-c02 4er Set 55 Mm

Part Number: 2500381200_schwarz

Material: Rubber

Color: Black

Size: 55 mm

Number of

Pieces: 4 (Set)

Compatible Bike Type: Road bikes, city bikes, hybrid bicycles (Cantilever systems)

Item Weight: 0.12 Kilograms

Item Dimensions

(LxWxH): 6.69 x 4.53 x 0.66 inches

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The XLC BS-C02 Cantilever Brake Shoes come with a **2 Year Manufacturer Guarantee**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover wear and tear from normal use, improper installation, or damage due to misuse or neglect.

8.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact your local XLC dealer or visit the official XLC website. Always refer to the product model number (BS-C02) when seeking support.

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