

Campagnolo BR-RE008

Campagnolo BR-RE008 Brake Return Spring Instruction Manual

Detailed instructions for the installation, operation, and maintenance of your Campagnolo BR-RE008 Brake Return Spring.

INTRODUCTION

Thank you for choosing the Campagnolo BR-RE008 Brake Return Spring. This component is designed to ensure optimal brake caliper return, contributing to reliable and consistent braking performance on your bicycle. Please read this manual carefully before installation and use to ensure proper function and longevity of the product.

SETUP AND INSTALLATION

Tools Required

- Appropriate Allen keys or wrenches for brake caliper disassembly.
- Grease (lithium-based or specific bicycle grease).
- Clean rags or shop towels.
- Small pliers or tweezers (optional, for spring manipulation).

Installation Steps

- 1. Prepare the Brake Caliper:** Carefully remove the brake caliper from the bicycle frame or fork. Depending on your brake model, this may involve detaching the brake cable and unbolting the caliper.
- 2. Disassemble the Caliper:** Identify the existing return spring mechanism. This typically involves removing a pivot bolt or pin that holds the caliper arms together. Note the orientation of all components as you disassemble them.
- 3. Remove Old Spring:** Once the caliper is sufficiently disassembled, carefully remove the old or damaged return spring.
- 4. Install New Spring:** Position the new Campagnolo BR-RE008 spring into its designated slot within the brake caliper body. Ensure it sits correctly and is not bent or misaligned. The spring is designed to apply tension to the caliper arms, pulling them back to their open position.

5. **Reassemble Caliper:** Reassemble the brake caliper components, ensuring all washers, bushings, and bolts are returned to their original positions. Apply a thin layer of grease to pivot points and bolt threads as recommended by your brake caliper's specific manual.
6. **Mount Caliper:** Reattach the brake caliper to your bicycle frame or fork, ensuring it is securely fastened and centered over the wheel rim.
7. **Connect Brake Cable:** Reconnect the brake cable and adjust its tension according to your brake system's specifications. Ensure the brake pads are properly aligned with the rim.
8. **Test Functionality:** Squeeze the brake lever several times to check for smooth operation and proper return of the caliper arms. Ensure there is no binding and the pads clear the rim when the lever is released.



Image: The Campagnolo BR-RE008 Brake Return Spring. This image shows the compact design of the spring, which is crucial for its function within the brake caliper mechanism.

OPERATING PRINCIPLES

Function

The Campagnolo BR-RE008 Brake Return Spring is a critical component in rim brake calipers. Its primary function is to provide the necessary tension to pull the brake caliper arms back to their open position after the brake lever is released. This ensures that the brake pads disengage from the rim, preventing friction and allowing the wheel to spin freely. A properly functioning return spring is essential for consistent brake

feel and preventing brake drag.

MAINTENANCE

Cleaning

- Periodically clean the brake caliper area, including the spring, to remove dirt, dust, and road grime.
- Use a soft brush and a mild degreaser or bicycle-specific cleaner. Rinse thoroughly and dry.
- Avoid spraying lubricants directly onto the brake pads or rim braking surface.

Inspection

- Regularly inspect the spring for signs of corrosion, deformation, or breakage.
- Check that the spring is securely seated in its position and not dislodged.
- Ensure the brake caliper arms return smoothly and fully when the brake lever is released. If they stick or return slowly, the spring may be worn or the pivot points may require cleaning and lubrication.
- Replace the spring if any damage or loss of tension is observed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Brake caliper arms do not return fully.	Worn or broken return spring; dirty/corroded pivot points; brake cable friction.	Inspect and replace the spring if damaged. Clean and lubricate caliper pivot points. Check brake cable for smooth movement and replace if necessary.
Brake lever feels sluggish or sticky.	Insufficient lubrication at caliper pivots; worn brake cable/housing; spring binding.	Lubricate caliper pivot points. Inspect and replace brake cable and housing. Ensure spring is correctly seated and not binding.
Brake pads rub on the rim constantly.	Spring not providing enough tension; caliper not centered; bent caliper arm.	Check spring for proper installation and tension. Re-center the brake caliper. Inspect caliper arms for damage.

SPECIFICATIONS

Model Name:	BR-RE008
Brand:	Campagnolo
Part Number:	BR-RE008
Size:	60 mm
Material:	Aluminum
Item Weight:	9.07 g

Color:	Black
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WARRANTY AND SUPPORT

Campagnolo products are manufactured to high standards. For specific warranty information regarding your BR-RE008 Brake Return Spring, please refer to the warranty documentation provided with your original brake caliper or contact Campagnolo customer service directly. Keep your proof of purchase for warranty claims.

For technical support, installation assistance, or to inquire about replacement parts, please visit the official Campagnolo website or contact an authorized Campagnolo dealer. You can often find detailed technical documents and service centers through their official channels.

Official Website: www.campagnolo.com