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SHIMANO BR-T4000

Shimano BR-T4000 Front V-Brake Instruction Manual

Model: BR-T4000

1. Introduction and Safety Information

This manual provides essential information for the safe and correct installation, adjustment, and maintenance of your Shimano BR-T4000 Front V-Brake. Read this manual thoroughly before use and keep it for future reference. Improper installation or maintenance can lead to brake failure, which may result in serious injury or death.

Important Safety Instructions:

- Always wear a helmet when riding a bicycle.
- Ensure all brake components are securely fastened and correctly adjusted before each ride.
- Brakes may not perform as effectively in wet conditions. Adjust riding speed and braking distance accordingly.
- Regularly inspect brake pads for wear. Replace worn pads immediately.
- Do not modify any brake components. Use only genuine Shimano replacement parts.
- If you are unsure about any installation or adjustment procedure, consult a professional bicycle mechanic.

2. Setup and Installation

This section details the steps for installing the Shimano BR-T4000 Front V-Brake onto your bicycle's front fork.

Required Tools:

- Hex wrenches (e.g., 5mm, 6mm)
- Cable cutters
- Pliers

Installation Steps:

1. **Mounting the Brake Arms:**

   Attach each brake arm to the brake bosses on your front fork. Ensure the spring tension adjustment screws are accessible. Secure the arms with the provided bolts, but do not fully tighten them yet.





Image: The Shimano BR-T4000 Front V-Brake assembly, showing both brake arms, brake pads, and the cable noodle.

2. **Installing Brake Pads:**

   Insert the brake pads into the brake arms. Ensure the pads are oriented correctly (often marked "L" for left and "R"

for right, or with an arrow indicating rotation direction). Position the pads so they align with the rim braking surface when the brake is applied. Tighten the pad bolts securely.

3. **Routing the Brake Cable:**

   Feed the brake cable through the brake lever and housing. Insert the cable end into the cable guide (noodle) and then through the cable fixing bolt on one of the brake arms. Ensure the rubber boot is correctly placed over the noodle and cable to protect against dirt and moisture.

4. **Adjusting Cable Tension:**

   Pull the brake arms together until the pads are approximately 1-2mm from the rim. Secure the brake cable by tightening the cable fixing bolt. Test the brake lever to ensure proper tension and engagement.

5. **Centering the Brake Arms:**

   Use the spring tension adjustment screws on each brake arm to center the pads relative to the rim. Turn the screws clockwise to increase spring tension (pulling the arm closer to the rim) and counter-clockwise to decrease tension. The goal is for both pads to be an equal distance from the rim when the brake is not applied.

6. **Final Tightening:**

   Once the brake arms are centered and the pads are correctly positioned, fully tighten the bolts securing the brake arms to the fork bosses. Double-check all bolts for tightness.

3. Operating Instructions

The Shimano BR-T4000 V-Brake provides efficient and reliable stopping power when operated correctly.

Braking Technique:

- Apply the brake lever smoothly and progressively. Avoid sudden, forceful braking, especially the front brake, as this can cause loss of control.
- In normal riding conditions, use both front and rear brakes simultaneously for optimal stopping power and control. The front brake provides most of the stopping power.
- Adjust your braking force based on road conditions, speed, and weather. Wet or loose surfaces require lighter and more gradual braking.

4. Maintenance

Regular maintenance ensures the longevity and safe operation of your BR-T4000 V-Brake.

Routine Checks:

- **Brake Pad Wear:** Inspect brake pads regularly for wear indicators. Replace pads when they reach the wear limit line or show signs of hardening or cracking.
- **Cable Condition:** Check the brake cable and housing for fraying, kinks, or corrosion. Replace if any damage is observed. Ensure the cable moves freely within the housing.
- **Arm Movement:** Ensure brake arms pivot smoothly and return fully to their open position when the lever is released. Lubricate pivot points with a light grease if movement is stiff.
- **Fastener Tightness:** Periodically check all bolts and fasteners for proper tightness.
- **Rim Condition:** Keep your wheel rims clean and free of grease or oil, as contaminants can significantly reduce braking performance.

5. Troubleshooting

This section addresses common issues you might encounter with your V-brakes.

Problem	Possible Cause	Solution
Brakes squeal loudly	Brake pads are contaminated (oil/grease) Pads are worn or hardened Pads are not "toed-in" correctly Loose brake components	Clean pads and rim with isopropyl alcohol. Replace brake pads. Adjust pad angle for slight toe-in (front of pad touches rim first). Check and tighten all bolts.
Poor stopping power	Worn brake pads Contaminated pads/rim Loose cable tension Friction in cable/housing	Replace brake pads. Clean pads and rim. Increase cable tension. Lubricate or replace cable and housing.
Brake pads rub the rim	Brake arms are not centered Wheel is not seated correctly Bent rim	Adjust spring tension screws on brake arms. Re-seat the wheel in the dropouts. True the wheel or consult a mechanic.

6. Specifications

Key technical specifications for the Shimano BR-T4000 Front V-Brake.

- **Model:** BR-T4000
- **Brake Type:** V-Brake (X-type)
- **Arch Size:** 107 mm
- **Material:** Aluminum
- **Color:** Black
- **Features:** Low operating forces, smooth and quiet stopping power, mudguard to prevent mud accumulation.
- **Compatibility:** Designed for front bicycle applications.

7. Warranty and Support

For warranty information and technical support regarding your Shimano BR-T4000 Front V-Brake, please refer to the warranty documentation provided with your purchase or contact your authorized Shimano dealer or the retailer where the product was purchased. Shimano's official website may also provide additional support resources.

Shimano Contact Information: Please visit the official Shimano website for the most current contact details and support options in your region.

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