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> [CNC V Brake Set Instruction Manual for Bicycle Linear Pull Brakes, Model 20190903US12](#)

CNC 20190903US12

CNC V Brake Set Instruction Manual

Model: 20190903US12

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your CNC V Brake Set. Designed for both front and rear bicycle wheels, these linear pull V brakes offer reliable stopping power and durability. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: Overview of the CNC V Brake Set, including brake arms, pads, and mounting hardware.

2. PRODUCT COMPONENTS

The CNC V Brake Set includes the following components:

- Forged aluminum alloy brake arms (2 pairs for front and rear).
- High-quality 55mm V brake pads (1 pair).
- Brake line wire bends (noodles).
- Brake boots (anti-sand protective covers).
- Mounting bolts and screws.
- Aluminum alloy rebound modules for consistent spring tension.

Video 2.1: A visual guide to the important parts of the bicycle V-brake set.

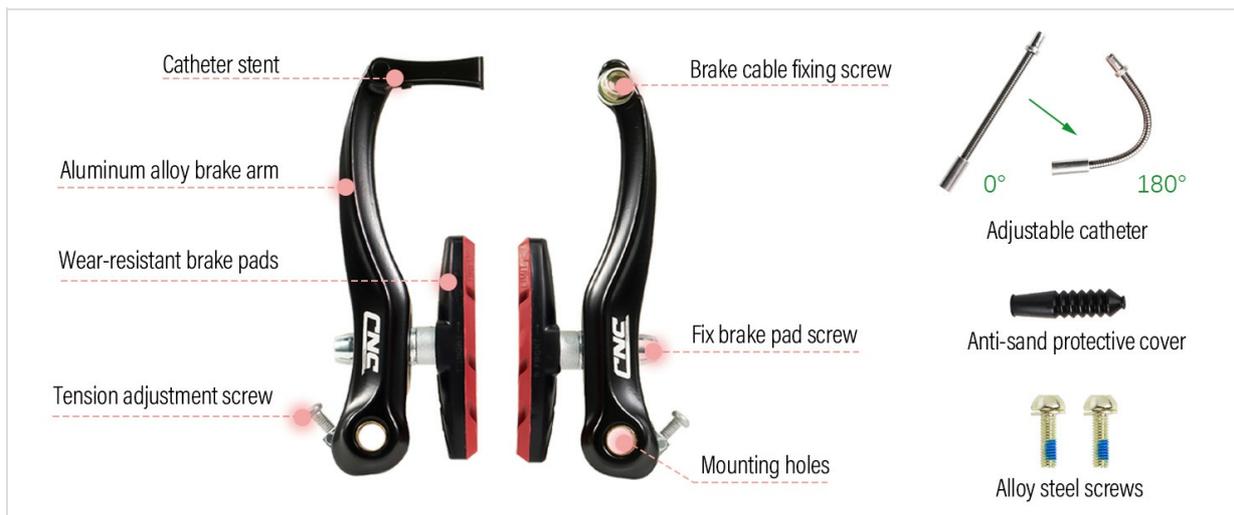


Image 2.2: Diagram illustrating the various components of the V-brake assembly, including the brake line wire bend, brake boot, lock screw, aluminum alloy brake arm, brake pad mounting hole, rubber material, rebound force adjusting screw, and aluminum alloy base.



Image 2.3: Specifications for the 55mm brake pads, highlighting material (high-quality rubber), color (black), and sand guide slots design for drainage.

3. SETUP AND INSTALLATION

Proper installation is crucial for safe and effective braking. Follow these steps carefully:

1. **Prepare the Mounting Posts:** Ensure your bicycle frame has V-brake mounting posts. Clean the posts thoroughly. Applying a thin layer of grease to the brake posts before installation can help ensure smooth movement and prevent rust.

2. **Attach Brake Arms:** Slide the brake arms onto the mounting posts. Secure them with the provided bolts. Ensure the spring tension adjustment screw is correctly seated in one of the holes on the brake post.
3. **Install Brake Pads:** Attach the brake pads to the brake arms. The 55mm pads are universal and do not differentiate between left and right sides. Adjust the pads so they are parallel to the rim and make full contact when the brake is applied, without touching the tire. Tighten the brake pad screws securely.
4. **Route the Brake Cable:** Insert the brake cable through the brake lever and route it through the brake line wire bend (noodle) and brake boot.
5. **Connect to Brake Arms:** Pass the cable through the cable clamp on one of the brake arms. Pull the cable taut, ensuring the brake pads are close to the rim but not touching. Secure the cable with the cable fixing screw.
6. **Adjust Spring Tension:** Use the rebound force adjusting screws on each brake arm to balance the spring tension. This ensures both brake pads move equally away from the rim when the lever is released and return to their resting position without rubbing.
7. **Test Functionality:** Squeeze the brake levers several times to seat the cable and check for proper operation. The brakes should engage smoothly and release fully. Adjust cable tension and pad alignment as needed.



Video 3.1: A detailed video demonstrating the installation process of the CNC V Brake Set on a bicycle.



Image 3.2: Front V-brake assembly correctly installed on a bicycle, showing proper alignment with the wheel rim.



Image 3.3: Rear V-brake assembly correctly installed on a bicycle, demonstrating its position relative to the wheel rim.

4. OPERATION

The CNC V Brake Set operates by converting the force from the brake levers into clamping force on the wheel rim. When the brake lever is squeezed, the brake cable pulls the two brake arms together, causing the brake pads to press against the rim. This friction slows down and stops the bicycle.

- **Brake Levers:** The brake levers are designed for comfortable grip and efficient power transfer. Ensure they are positioned on the handlebars for easy access and comfortable reach.
- **Braking Technique:** Apply both front and rear brakes simultaneously for optimal stopping power and control. Avoid sudden, hard braking with only the front brake, especially at high speeds, as this can lead to loss of control.
- **Modulation:** Practice modulating your braking force to control your speed effectively. The V-brakes provide good feedback, allowing for precise control.

5. MAINTENANCE

Regular maintenance ensures the longevity and performance of your V-brakes:

- **Brake Pad Inspection:** Regularly check brake pads for wear. Replace pads when the wear indicators are no longer visible or if they become hardened or glazed. Ensure pads are clean and free of debris.
- **Rim Cleaning:** Keep your wheel rims clean and free of dirt, oil, or grease. A clean rim provides better braking performance and extends pad life.
- **Cable Inspection:** Inspect brake cables for fraying, kinks, or corrosion. Replace damaged cables promptly. Lubricate cables periodically for smooth operation.
- **Spring Tension:** Check and adjust spring tension as needed to ensure both brake arms return evenly and quickly to their open position.
- **Mounting Bolts:** Periodically check all mounting bolts for tightness. Loose bolts can affect braking performance and safety.

6. TROUBLESHOOTING

Here are some common issues and their solutions:

| Problem | Possible Cause | Solution |
|---------------------------------|--|--|
| Brakes feel spongy or weak. | Loose cable, worn pads, contaminated rims. | Tighten cable, replace pads, clean rims. |
| Brake pads rub on the rim. | Uneven spring tension, misaligned pads, bent rim. | Adjust spring tension screws, realign pads, true the wheel. |
| Squealing noise when braking. | Contaminated pads/rims, misaligned pads (toe-in needed). | Clean pads/rims, adjust pad angle (slight toe-in). |
| Brake arms do not return fully. | Corroded brake posts, stiff cable, weak springs. | Clean and grease posts, replace cable, check spring integrity. |

7. SPECIFICATIONS

| Feature | Detail |
|------------------|---|
| Brand | CNC |
| Model Number | 20190903US12 |
| Material | Aluminum Alloy |
| Brake Type | Linear Pull (V-Brake) |
| Arm Length | 110mm |
| Brake Pad Length | 55mm |
| Compatibility | Front/Rear wheels of MTB, BMX, mountain, road, folding, hybrid bikes (especially 24 inches or smaller). |
| Package Weight | 0.19 Kilograms |
| Color | Black (with 55mm pads) |



Image 7.1: Detailed dimensions of the V-brake arms and 55mm brake pads.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the manufacturer's official website or contact your retailer. Keep your purchase receipt as proof of purchase.