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DNM DV-22B-150

DNM Preload MTB Mountain Bike Rear Suspension Shock Absorber

Brand: DNM | Model: DV-22B-150

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DNM Preload MTB Mountain Bike Rear Suspension Shock Absorber. Designed for XC and electric wheelchair applications, this shock absorber features a durable AL-6061 body and a hard-chromed shaft, ensuring reliable performance and enhanced riding comfort. Please read this manual thoroughly before use to ensure safety and optimal product function.



Image: The DNM Preload MTB Mountain Bike Rear Suspension Shock Absorber, showing its black coil spring and body, along with included bushings.

Safety Information

Always prioritize safety when installing or adjusting your suspension component. Failure to follow these guidelines may result in injury or damage to the product or bicycle.

- Ensure the bicycle is stable and secured before beginning any work.
- Wear appropriate personal protective equipment, including safety glasses.
- If you are unsure about any installation or adjustment procedure, seek assistance from a qualified bicycle mechanic.
- Regularly inspect the shock absorber for any signs of wear, damage, or leaks. Do not use if damaged.
- Do not attempt to disassemble the shock absorber beyond what is described in this manual. Internal components are under high pressure.

PRODUCT OVERVIEW

The DNM Preload MTB Rear Suspension Shock Absorber is engineered for durability and performance. Key features include:

- **Material:** Dark hard-anodized AL-6061 "in one piece" shock body.
- **Shaft:** Hard chromed shock shaft with a diameter of 10 mm (0.39 inch).
- **Adjustments:** Preload adjustment for fine-tuning suspension stiffness.
- **Included Accessories:** Extra bushings and hardware (8mm x 24mm top/bottom, 8mm x 50mm length extra bushing) to accommodate various frame requirements.



Image: A close-up view of the shock absorber's eyelet, illustrating the 8mm and 24mm bushing dimensions.



Image: The additional set of bushings and hardware included with the shock absorber, showing 8mm x 50mm long bushings and smaller black bushings.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your shock absorber. Refer to your bicycle's frame manufacturer's guidelines for specific mounting instructions.

Bushing Installation

The shock absorber comes with pre-installed bushings (8mm x 24mm) and an additional set of 8mm x 50mm bushings. Select the appropriate bushings for your frame's mounting points.

1. Identify the correct bushing size required for your bicycle frame.
2. If necessary, carefully press out the pre-installed bushings using appropriate tools.
3. Insert the correct size bushings into the shock absorber eyelets. Ensure they are seated flush and securely.
4. For the 8mm x 50mm bushings, you may need to cut them to the required length and deburr the edges before installation.

Shock Absorber Mounting

1. Align the shock absorber with the mounting points on your bicycle frame.
2. Insert the mounting bolts through the frame and shock eyelets.
3. Secure the bolts according to your bicycle manufacturer's torque specifications. Do not overtighten.
4. Ensure all connections are tight and secure before riding.

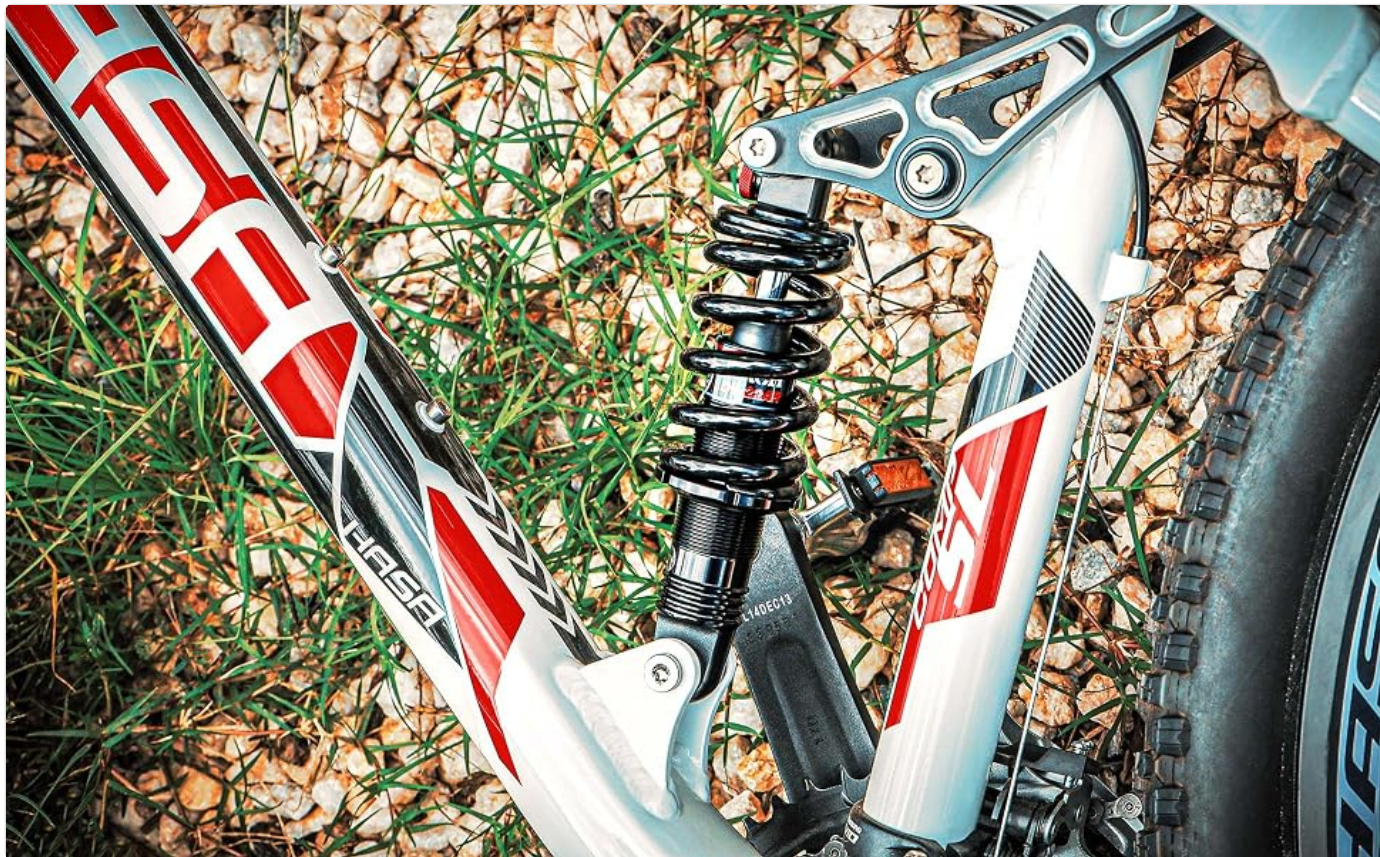


Image: The DNM shock absorber mounted on a bicycle frame, demonstrating its position within the suspension linkage.

OPERATING AND ADJUSTMENTS

The DNM shock absorber features preload adjustment to fine-tune your ride.

Preload Adjustment

Preload refers to the initial compression of the spring. Adjusting preload affects the sag (how much the suspension compresses under the rider's weight) and the initial stiffness of the suspension.

1. Locate the preload collar at the top of the coil spring.
2. To increase preload (make the suspension stiffer), turn the collar clockwise. This compresses the spring further.
3. To decrease preload (make the suspension softer), turn the collar counter-clockwise. This reduces the spring compression.
4. Adjust preload incrementally and test the feel of the suspension. Aim for optimal sag as recommended by your bicycle manufacturer or personal preference.

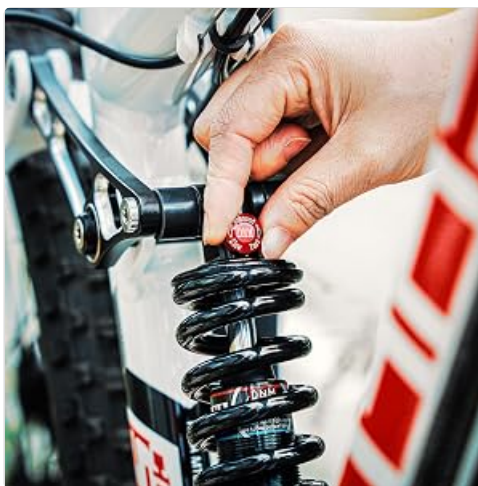


Image: A hand turning the red preload adjustment knob on the DNM shock absorber, demonstrating how to adjust the spring tension.

This shock absorber is suitable for XC (Cross Country) riding styles and electric wheelchairs, providing a balance of comfort and control.

MAINTENANCE

Regular maintenance will extend the life and performance of your DNM shock absorber.

- **Cleaning:** After each ride, especially in dirty or wet conditions, clean the shock absorber with mild soap and water. Rinse thoroughly and dry with a soft cloth. Avoid high-pressure washers directly on seals.
- **Inspection:** Periodically inspect the shock body, shaft, and spring for any signs of damage, cracks, or excessive wear. Check for oil leaks around the seals.
- **Lubrication:** Keep the exposed shock shaft clean and lightly lubricated with a suspension-specific lubricant. Avoid using petroleum-based lubricants that can damage seals.
- **Bolt Torque:** Periodically check the torque of the mounting bolts to ensure they are secure. Refer to your bicycle's manual for correct torque values.
- **Professional Service:** For internal service or if you notice significant performance degradation, consult a qualified bicycle mechanic or DNM authorized service center.

TROUBLESHOOTING

If you experience issues with your shock absorber, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Excessive Sag / Too Soft	Insufficient preload.	Increase preload by turning the collar clockwise.
Harsh Ride / Too Stiff	Too much preload.	Decrease preload by turning the collar counter-clockwise.
Creaking / Noise	Loose mounting bolts; dry bushings; dirt.	Check and tighten mounting bolts; clean and lubricate bushings; clean shock.
Oil Leakage	Damaged seals; internal issue.	Stop use immediately. Seek professional service.
No Suspension Movement	Seized components; severe internal damage.	Stop use immediately. Seek professional service.

If the problem persists after attempting these solutions, contact DNM customer support or a certified bicycle mechanic.

SPECIFICATIONS

Feature	Detail
Model	DV-22B-150
Brand	DNM
Adjustments	Preload
Shock Shaft Diameter	10 mm (0.39 inch)
Shock Body Material	Dark Hard-anodized AL-6061
Riding Style	XC / Electric wheelchair
Top Bushing Size	8mm x 24mm
Bottom Bushing Size	8mm x 24mm
Extra Bushing Included	8mm x 50mm Length
Available Eye to Eye x Travel (for 150mm model)	150 x 30 mm (5.9 x 1.18 inch)
Weight (for 165mm length)	0.2 KG (0.44 lb)
Manufacturing Origin	Taiwan

WARRANTY AND SUPPORT

DNM stands behind the quality of its products. This shock absorber comes with **5-year warranty** from the date of purchase, covering manufacturing defects.

For warranty claims, technical assistance, or any questions regarding your DNM product, please contact DNM customer support through the official website or your point of purchase. Please have your proof of purchase and product model number ready when contacting support.

For more information, visit the official DNM Store:[DNM Store on Amazon](#)

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