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STONEDER DV-22AR

STONEDER DNM DV-22AR Coil Spring Rear Shock Absorber User Manual

Model: DV-22AR

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your STONEDER DNM DV-22AR Coil Spring Rear Shock Absorber. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.
The DNM DV-22AR is a high-quality coil spring rear shock absorber designed for mountain bikes, offering reliable suspension performance. It features a durable construction and adjustable rebound damping to suit various riding conditions and preferences.



Figure 1.1: STONEDER DNM DV-22AR Coil Spring Rear Shock Absorber, main view.

2. Setup and Installation

Proper installation is crucial for the performance and safety of your shock absorber. If you are unsure about any step, consult a professional bicycle mechanic.

2.1 Pre-Installation Check

- Ensure the shock absorber dimensions (eye-to-eye length and travel) match your bicycle's requirements. The DV-22AR is 165mm eye-to-eye with 35mm travel.
- Verify that all mounting hardware (bushings, bolts) are compatible and in good condition.

- Inspect the shock for any visible damage from shipping.



Figure 2.1: Key dimensions of the shock absorber: 165mm eye-to-eye and 35mm travel.

2.2 Mounting the Shock Absorber

1. Remove the old shock absorber from your bicycle frame.
2. Insert the appropriate bushings into the eyelets of the new DV-22AR shock.
3. Align the shock absorber with the mounting points on your bicycle frame.
4. Insert the mounting bolts through the frame and shock eyelets. Do not overtighten initially.
5. Once both ends are secured, tighten the mounting bolts to the bicycle manufacturer's recommended torque specifications.

2.3 Initial Adjustments

The DV-22AR features a coil spring and rebound damping adjustment.

Spring Preload

The spring preload can be adjusted by rotating the spring collar. Increasing preload will stiffen the initial compression. Ensure the spring adjustment is tight before riding.



Figure 2.2: Close-up view of the spring and preload adjustment collar. A warning label reminds to ensure the spring adjustment is tight.

Rebound Damping

The red knob at the bottom eyelet controls the rebound damping. Turning the knob clockwise increases damping (slower rebound), and counter-clockwise decreases damping (faster rebound). Adjust this to prevent the shock from "pogo-sticking" after compression.



Figure 2.3: The red knob for rebound damping adjustment, located at the lower eyelet.

3. Operating Instructions

Once installed and initially adjusted, the DNM DV-22AR shock absorber is ready for use. Always perform a quick check before each ride.

3.1 Pre-Ride Check

- Ensure all mounting bolts are secure.
- Check for any unusual noises or excessive play in the suspension.
- Verify that the rebound adjustment knob is set to your preferred setting and is not loose.

3.2 Riding Considerations

The shock absorber is designed to absorb impacts and provide a smoother ride. Depending on terrain and riding style, you may need to fine-tune the rebound damping.

- For rougher terrain, a slightly faster rebound might be preferred to allow the shock to extend quickly for successive bumps.
- For smoother trails or jumps, a slower rebound can provide more control and prevent harsh top-outs.

4. Maintenance

Regular maintenance will extend the lifespan and ensure consistent performance of your shock absorber.

4.1 Cleaning

After each ride, especially in dirty or wet conditions, clean the shock absorber. Use mild soap and water to remove dirt and debris from the spring, body, and eyelets. Avoid high-pressure washers directly on seals.

4.2 Inspection

Periodically inspect the shock for:

- Signs of oil leaks around the shaft or seals.
- Damage to the spring, such as cracks or deformation.
- Wear or damage to the eyelet bushings.
- Corrosion on any metal parts.

4.3 Lubrication

While the internal components are lubricated, you can apply a small amount of silicone-based suspension lubricant to the exposed shaft (if any) to keep seals supple and reduce stiction. Do not use petroleum-based lubricants as they can damage seals.

5. Troubleshooting

Problem	Possible Cause	Solution
Excessive Sag / Too Soft	Insufficient spring preload. Incorrect spring rate for rider weight.	Increase spring preload. Consider a higher spring rate if preload is maxed out.
Harsh Ride / Too Stiff	Excessive spring preload.	Decrease spring preload.
"Pogo-stick" effect (too fast rebound)	Rebound damping set too low.	Increase rebound damping (turn red knob clockwise).

Problem	Possible Cause	Solution
Shock feels "packed up" (too slow rebound)	Rebound damping set too high.	Decrease rebound damping (turn red knob counter-clockwise).
Oil Leakage	Damaged seals.	Contact STONEDER support for seal replacement or service.

6. Specifications

Feature	Specification
Model	DNM DV-22AR
Manufacturer Part Number	ST0001-C0273
Type	Coil Spring Rear Shock Absorber
Eye-to-Eye Length	165 mm (6.50 inches)
Travel	35 mm (1.38 inches)
Spring Rate	750 lbs
Eyelet Inner Diameter	8 mm
Eyelet Width	24 mm
Damping	Adjustable Rebound
Compatibility	Mountain Bikes (MTB)



Figure 6.1: Detailed specifications including eye-to-eye, travel, spring rate, and eyelet dimensions.

7. Warranty and Support

STONEDER is committed to providing high-quality products and responsible customer service.

7.1 Warranty Information

Specific warranty terms may vary. Please retain your proof of purchase. For any manufacturing defects or issues arising from normal use, contact STONEDER customer support.

7.2 Customer Support

If you have any questions, concerns, or require assistance with your DNM DV-22AR shock absorber, please do not

hesitate to contact STONEDER customer service. Our team is always ready to assist you.
For contact information, please refer to the STONEDER official website or the seller's contact details on the platform where you purchased the product.
"Our warm and responsible customer service is always there for you."

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