OSMARI DNM DV-22AR 190mm x 750lbs

OSMARI DNM DV-22AR Spring Shock Absorber User Manual

Model: 190mm x 750lbs

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your OSMARI DNM DV-22AR Spring Shock Absorber. This rear shock absorber is designed to enhance the suspension performance of mountain bikes and motorcycles, providing smoother riding and improved damping management over various terrains. Please read these instructions carefully before use to ensure optimal performance and safety.

2. Product Overview

The OSMARI DNM DV-22AR shock absorber consists of a spring and a damping system designed to absorb impacts and vibrations. Understanding its components is crucial for proper handling and maintenance.



Figure 2.1: Disassembled view of the OSMARI spring shock absorber components. This image shows the individual components of the OSMARI spring shock absorber, including the spring, damper body, and mounting hardware, illustrating its internal structure.

3. Specifications

The following table details the specifications for the OSMARI DNM DV-22AR 190mm x 750lbs Spring Shock Absorber.

Feature	Specification
Brand	OSMARI
Model Type	DNM DV-22AR
Eye-to-Eye Length	190mm
Spring Rate	750lbs
Item Weight	4.41 pounds (approx. 2 kg)
Manufacturer Part Number	JBJHBJ



Figure 3.1: Dimensional diagram of the OSMARI spring shock absorber. This diagram illustrates the key dimensions of the OSMARI spring shock absorber, including eye-to-eye length (125mm, 150mm, 165mm, 190mm, 200mm options) and spring travel, crucial for compatibility.

4. Installation and Setup

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

4.1. Pre-Installation Check

- **Compatibility:** Ensure the shock absorber's eye-to-eye length (190mm) and mounting width are compatible with your bicycle or motorcycle frame.
- **Mounting Hardware:** Verify you have the correct size mounting bushings for your frame.



Figure 4.1: Various sizes of mounting bushings for the shock absorber. This image displays different sizes of M8 mounting bushings (22mm, 24mm, 26mm, 32mm, 42mm, 44mm, 50mm, 54mm, 56mm) used to adapt the shock absorber to various frame mounts.

4.2. Installation Steps

1. **Remove Old Shock:** Carefully remove the existing rear shock absorber from your frame. Support the vehicle securely during this process.
2. **Install Bushings:** Insert the appropriate mounting bushings into the eyelets of the new OSMARI shock absorber.
3. **Position Shock:** Align the shock absorber with the mounting points on your frame.
4. **Secure Bolts:** Insert the mounting bolts through the frame and shock eyelets. Tighten the bolts to the manufacturer's recommended torque specifications for your frame. Do not overtighten.
5. **Check Clearance:** Ensure there is adequate clearance around the shock absorber throughout its full travel.

5. Operation

The OSMARI DNM DV-22AR shock absorber is designed to provide consistent damping and spring support. Once installed, it will automatically adjust to varying terrain by compressing and rebounding, absorbing impacts and maintaining tire contact with the ground. The 750lbs spring rate is suitable for specific rider weights and riding styles; ensure this rate is appropriate for your application.

6. Maintenance

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

- **Cleanliness:** Keep the shock absorber clean, especially the shaft and seals, to prevent dirt and debris from entering the damping system. Use mild soap and water, then rinse thoroughly.
- **Inspection:** Periodically inspect the shock for any signs of damage, leaks, or loose bolts. Check the spring for cracks or deformation.
- **Lubrication:** Do not apply lubricants to the shock shaft unless specifically recommended by the manufacturer, as this can attract dirt and damage seals.
- **Bolt Torque:** Recheck the torque of all mounting bolts periodically, especially after the first few rides.

7. Troubleshooting

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

7.1. Excessive Sag or Bottoming Out

- **Cause:** Spring rate may be too soft for rider weight or riding style.
- **Solution:** Consider a shock absorber with a higher spring rate.

7.2. Harsh Ride or Insufficient Travel

- **Cause:** Spring rate may be too stiff.
- **Solution:** Consider a shock absorber with a lower spring rate.

7.3. Squeaking or Creaking Noises

- **Cause:** Loose mounting bolts, worn bushings, or dirt in pivots.
- **Solution:** Check and tighten all mounting bolts. Inspect bushings for wear and replace if necessary. Clean pivot points.

8. Support

For any questions or concerns regarding your OSMARI DNM DV-22AR Spring Shock Absorber, please contact our customer service. We are committed to providing assistance and will respond as soon as possible to address your inquiries.