

DNM AOY-36RC

DNM AOY-36RC Mountain Bike Air Rear Shock Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DNM AOY-36RC Mountain Bike Air Rear Shock. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

The DNM AOY-36RC Mountain Bike Air Rear Shock is designed for XC/Trail riding, offering a 4-system damping with adjustable rebound, lockout, and high-pressure settings. It features a lightweight design with a black anodized AL-7075 shaft and an AL-6061 shock body. The air spring system provides customizable suspension performance.

2. PRODUCT FEATURES

- **Lightweight Design:** Weighs approximately 320g (0.7 lb).
- **Adjustable Damping:** 4-system damping with rebound adjustment.
- **Multiple Adjustments:** Features Rebound, Lockout, and High-Pressure adjustment capabilities.
- **Durable Construction:** Black anodized AL-7075 shaft (10mm diameter) and AL-6061 shock body.
- **Air Spring System:** Provides customizable suspension feel.
- **Riding Style:** Optimized for XC/Trail use.
- **Dimensions:** Eye-to-eye length of 200mm with 55mm travel.



Figure 1: DNM AOY-36RC Air Rear Shock, showcasing its black and gold finish and overall design.

3. SETUP

3.1 Installation

Install the DNM AOY-36RC rear shock onto your mountain bike frame using appropriate hardware (not included). Ensure all bolts are tightened to the manufacturer's recommended torque specifications for your bike frame. Verify that the shock moves freely through its travel without any binding or interference.

3.2 Air Pressure Adjustment

The air spring pressure is crucial for proper shock performance and rider sag. A high-pressure shock pump (such as the BUCKLOS 300 Psi pump) is required for this adjustment. The default air pressure setting is 100 PSI. It is recommended to keep the pressure below 180 PSI for self-adjustment.

1. Remove the air suspension cap from the shock's air valve.
2. Securely connect the shock pump to the air valve. Tighten the silver knob clockwise, then the red knob clockwise to ensure a sealed connection.
3. Observe the pressure gauge. If the pressure is too low, pump air into the shock until the desired PSI is reached.
4. If the pressure is too high, gently press the bleeder button on the pump to release air in small increments until the desired pressure is achieved.
5. To disconnect the pump, first loosen the red knob counter-clockwise to reset the valve position and prevent air leaks. Then, loosen the silver knob counter-clockwise and gently pull the pump valve out.
6. Reinstall the air suspension cap.

Video 1: Demonstration of the BUCKLOS 300 Psi High Pressure Shock Pump, highlighting its features like the pressure gauge, bleeder button, and flexible hose. This pump is suitable for adjusting the air pressure in your DNM AOY-36RC rear shock.

Video 2: Instructional video demonstrating how to use the BUCKLOS 300 Psi Bike Shock Pump to adjust the air pressure on an air suspension system, similar to the DNM AOY-36RC. It shows the process of connecting the pump, inflating, and releasing pressure.

3.3 Rebound Adjustment

The red knob on the shock controls the rebound damping. Turning the knob clockwise slows down the rebound (slower return to extended position), while turning it counter-clockwise speeds up the rebound (faster return). Adjust this setting to match your riding style and terrain for optimal control and comfort.



Figure 2: Detailed view of the DNM AOY-36RC's blue lockout lever and red rebound adjustment knob.

3.4 Lockout Function

The blue lever on the shock activates the lockout function. Engaging the lockout stiffens the shock, reducing suspension movement. This is useful for climbing or riding on smooth terrain to improve pedaling efficiency. Disengage the lockout for descending or rough terrain to allow full suspension travel.



Figure 3: Close-up of the air valve and adjustment controls on the DNM AOY-36RC, including the high-pressure adjustment.

4. OPERATING INSTRUCTIONS

Once installed and adjusted, the DNM AOY-36RC is ready for use. Remember to adjust air pressure and damping settings according to your weight, riding style, and terrain conditions. Regularly check all mounting

bolts for tightness before each ride.



Figure 4: Side profile of the DNM AOY-36RC Air Rear Shock, highlighting the DNM branding and air chamber.

5. MAINTENANCE

- **Cleaning:** After each ride, clean the shock body and shaft with mild soap and water. Avoid high-pressure washing directly on seals.
- **Inspection:** Regularly inspect the shock for any signs of damage, leaks, or excessive wear on seals and bushings.
- **Lubrication:** Keep the shock shaft clean and lightly lubricated with a suspension-specific lubricant.
- **Service:** For internal maintenance or if you notice a significant drop in performance, it is recommended to have the shock serviced by a qualified bicycle mechanic.



Figure 5: Another perspective of the DNM AOY-36RC Mountain Bike Air Rear Shock, showing its compact form.

6. TROUBLESHOOTING

- **Loss of Air Pressure:** Check the air valve for proper sealing. Ensure the valve core is tight. If pressure loss persists, internal seals may need replacement.
- **Poor Damping Performance:** Verify air pressure is set correctly. Adjust rebound damping. If issues continue, the internal damping system may require service.
- **Unusual Noises:** Inspect mounting hardware for tightness. Check for any rubbing components. If noises persist, consult a mechanic.

7. SPECIFICATIONS

Feature	Specification
Model Name	AOY-36RC
Manufacturer	DNM
Weight	320g (0.7 lb)
Eye-to-Eye x Travel	200 x 55 mm (7.87 x 2.16 in)
Shaft Diameter	10 mm
Eyelet Width	24 mm
Damping System	4-system (Rebound adjustable)
Adjustments	Rebound, Lockout, High-Pressure
Shaft Material	Black anodized AL-7075
Body Material	Black anodized AL-6061
Spring Type	Air Spring
Riding Style	XC/Trail
Manufactured In	Taiwan

8. WARRANTY & SUPPORT

The DNM AOY-36RC Mountain Bike Air Rear Shock comes with a 1-year manufacturer's warranty. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact your retailer or the manufacturer directly.



Figure 6: Cover of the user manual for DNM AOY-36RC, AO-42RC, and AO-42AR models.