DNM BURNER-RCP2S

DNM BURNER-RCP2S Mountain Downhill Bike Rear Shock User Manual

Model: BURNER-RCP2S | Brand: DNM

1. Introduction

The DNM BURNER-RCP2S is an advanced coil-spring rear shock designed for demanding mountain biking disciplines including All-Mountain (AM), Freeride (FR), and Downhill (DH). This model is an upgrade from the previous BURNER-RCP2, featuring enhanced performance and a durable black finish. It offers comprehensive adjustability to fine-tune your bike's suspension for various terrains and riding styles.
Key features include a 190mm eye-to-eye length with 51mm of travel, a robust 550 lbs spring rate, and a 4-system damping mechanism. Riders can adjust rebound, compression, and spring preload to achieve optimal performance and comfort.

2. Safety Information

Always prioritize safety when installing, adjusting, or riding with your DNM BURNER-RCP2S rear shock. Improper installation or adjustment can lead to serious injury or damage to your bicycle.

- **Professional Installation Recommended:** If you are unsure about any installation or adjustment procedures, seek assistance from a qualified bicycle mechanic.
- **Read Your Bicycle Manual:** Always consult your bicycle manufacturer's manual for specific compatibility and installation instructions related to your frame.
- **Regular Inspection:** Before each ride, inspect the shock for any signs of damage, leaks, or loose components. Do not ride if any issues are detected.
- **High Pressure Warning:** The shock contains high-pressure components. Do not attempt to disassemble the damper unit. Refer to authorized service centers for internal maintenance.
- **Wear Protective Gear:** Always wear appropriate safety gear, including a helmet, when riding.

3. Package Contents

The DNM BURNER-RCP2S Mountain Downhill Bike Rear Shock package includes:

- 1 x DNM BURNER-RCP2S Rear Shock (with 550 lbs coil spring installed)

4. Setup and Installation

Correct installation is crucial for the performance and safety of your rear shock. Ensure your bicycle frame is compatible with the shock's dimensions.

4.1 Compatibility Check

- **Eye-to-Eye Length:** The BURNER-RCP2S has an eye-to-eye length of 190 mm (7.46 inches). Verify this matches your frame's requirement.
- **Travel:** The shock provides 51 mm (2.01 inches) of travel.
- **Bushing Size:** The inner hole size for the bushings is 7.63 mm (0.30 inches). Ensure your frame's mounting hardware is compatible. Some frames may require specific bushing widths; measure your frame's mounting points and adjust bushings if necessary (e.g., by carefully removing material from aluminum bushings to achieve a precise fit).

4.2 Installation Steps

1. **Prepare the Frame:** Ensure the shock mounting points on your bicycle frame are clean and free of debris.
2. **Insert Bushings:** If not already installed, insert the appropriate bushings into the shock's eyelets.
3. **Mount the Shock:** Carefully align the shock with the frame's mounting points. Insert the mounting bolts through the frame, bushings, and shock eyelets.
4. **Tighten Bolts:** Hand-tighten the mounting bolts initially. Refer to your bicycle frame manufacturer's specifications for the correct torque values. Over-tightening can damage the shock or frame.
5. **Check Clearance:** Cycle the suspension through its full travel to ensure there is no interference with the frame, tires, or other components.

Image: The DNM BURNER-RCP2S rear shock, illustrating its overall structure with the coil spring and damper body. This view helps in understanding how the shock integrates into a bicycle frame.

5. Operating Instructions and Adjustments

The BURNER-RCP2S offers several adjustments to customize your ride feel. Experiment with settings in a safe environment to find your preferred setup.

5.1 Rebound Adjustment

Rebound controls the speed at which the shock extends after compression. This adjustment is typically made via a red dial located at the bottom of the shock.

- **"Fast" (Counter-Clockwise):** Turning the dial counter-clockwise speeds up the rebound. This is often preferred for quick recovery over successive bumps.
- **"Slow" (Clockwise):** Turning the dial clockwise slows down the rebound. This can provide more control and prevent the shock from "bucking" the rider on larger impacts. For climbing or a firmer feel, turning the rebound dial fully counter-clockwise can achieve a near-lockout state.

Image: A detailed view of the red rebound adjustment dial, labeled "Fast" and "Slow," located at the lower end of the shock. This dial allows riders to control the speed at which the shock returns to its extended position.

5.2 Compression Adjustment

Compression controls how quickly the shock compresses when subjected to force. This adjustment is typically made via a blue knob located on the piggyback reservoir.

- **"Hard" (Clockwise):** Turning the knob clockwise increases compression damping, making the shock feel firmer and less prone to bottoming out.
- **"Soft" (Counter-Clockwise):** Turning the knob counter-clockwise decreases compression damping, making the shock feel softer and more responsive to small bumps.

Image: A close-up of the blue compression adjustment knob, marked with "Hard" and "Soft" indicators, situated on the piggyback reservoir of the shock. This knob allows for fine-tuning of the shock's resistance to compression.

5.3 Preload Adjustment

Preload refers to the initial compression of the coil spring. It is adjusted by turning the spring collar located at the top of the coil spring.

- **Increasing Preload:** Turn the spring collar clockwise to compress the spring further. This increases the initial force required to move the shock, reducing sag and making the suspension feel firmer.
- **Decreasing Preload:** Turn the spring collar counter-clockwise to release spring tension. This increases sag and makes the suspension feel softer.
- **Important Note:** Do not exceed 2 to 3 full turns of preload beyond the point where the spring collar first contacts the spring. Excessive preload can damage the spring or shock and negatively affect performance.

Image: An angled view of the DNM BURNER-RCP2S rear shock, showcasing the main body, coil spring, and the blue compression adjustment knob. This image provides a comprehensive look at the shock's design and visible adjustment features.

6. Maintenance

Proper maintenance ensures the longevity and consistent performance of your DNM BURNER-RCP2S rear shock. This shock is designed to be relatively low-maintenance.

- **Cleaning:** After each ride, especially in muddy or dusty conditions, clean the shock body, shaft, and spring with mild soap and water. Rinse thoroughly and wipe dry with a soft cloth. Avoid high-pressure washers directly on seals.
- **Inspection:** Regularly inspect the shock for any signs of wear, damage, or leaks. Check for scratches on the damper shaft, which can compromise seals. Ensure all mounting bolts are securely tightened to the manufacturer's recommended torque.
- **Lubrication:** Keep the exposed damper shaft clean and free of grit. A small amount of silicone-based suspension lubricant can be applied to the shaft and wiper seal to maintain suppleness, but avoid petroleum-based products.
- **Service:** While the BURNER-RCP2S is designed for durability, internal service may be required over

time. For internal maintenance or seal replacement, it is recommended to contact an authorized DNM service center. Do not attempt to open the high-pressure damper unit yourself.

7. Troubleshooting

This section addresses common issues you might encounter with your rear shock.

- **Issue: Poor Damping Performance / Excessive Bounciness**
  Solution: Check your rebound adjustment. If the shock is returning too quickly, increase rebound damping (turn the red dial clockwise towards "Slow"). Ensure the spring preload is not excessively loose.
- **Issue: Shock Bottoming Out Frequently**
  Solution: Increase compression damping (turn the blue knob clockwise towards "Hard"). Ensure your spring preload is set correctly for your weight and riding style. If the issue persists, a stiffer spring rate might be required.
- **Issue: Shock Feels Too Stiff / Not Using Full Travel**
  Solution: Decrease compression damping (turn the blue knob counter-clockwise towards "Soft"). Reduce spring preload (turn the spring collar counter-clockwise). Ensure the spring rate is appropriate for your weight.
- **Issue: Unusual Noises (e.g., Squeaking, Clunking)**
  Solution: Inspect all mounting bolts for proper torque. Check for any loose components or foreign objects. Clean the shock thoroughly. If noises persist, discontinue use and consult a professional mechanic.
- **Issue: Oil Leakage**
  Solution: A small amount of oil residue on the damper shaft is normal. However, if there is significant oil leakage, this indicates a seal failure. Discontinue use immediately and contact an authorized service center for repair.

8. Specifications

Feature	Specification
Model	BURNER-RCP2S
Eye to Eye x Travel	190 x 51 mm (7.46 x 2.01 inch)
Spring Rate	550 lbs
Damping System	4-system
Adjustments	Rebound / Compression / Preload / Adjust High Pressure/Big Impact
Body Outer Diameter (OD)	28 mm (1.10 inch)
Damper Shaft	Hard chromed, Ø 12 mm (0.47 inch)
Shock Body Material	Dark hard-anodized AL-7075
Bushing Inner Hole Size	7.63 mm (0.30 inch)
Spring Type	Coil Spring
Riding Style	AM / FR / DH

Weight	800g (1.76 lb)
Item Package Dimensions	10 x 5 x 2.5 inches
Package Weight	0.86 Kilograms
Date First Available	July 4, 2019

9. Warranty Information

The DNM BURNER-RCP2S Rear Shock comes with a**1-year warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage resulting from improper installation, misuse, neglect, accidents, modifications, or normal wear and tear.
To make a warranty claim, please retain your proof of purchase and contact the seller or DNM customer support.

10. Support and Contact

For further assistance, technical questions, or service inquiries regarding your DNM BURNER-RCP2S rear shock, please contact your authorized DNM dealer or the seller from whom you purchased the product.
You may also visit the official DNM website for additional resources and contact information.