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RockShox Monarch Plus RC3

RockShox Monarch Plus RC3 Rear Shock Instruction Manual

Model: Monarch Plus RC3 (0710845776533)

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the proper installation, setup, operation, and maintenance of your RockShox Monarch Plus RC3 Rear Shock. Designed for high-performance mountain biking, this rear shock offers advanced suspension technology to enhance your riding experience, particularly for 2013-2017 SBC Enduro 27.5" and 29" models. Please read these instructions thoroughly before use to ensure optimal performance and safety.



Image 1.1: The RockShox Monarch Plus RC3 Rear Shock, showcasing its black finish and adjustment dials.

2. KEY FEATURES

The Monarch Plus RC3 incorporates several advanced features for superior trail performance:

- **RC3 Damping:** Features external rebound and a 3-Position compression adjustment (Open/Pedal/Lock) for versatile ride tuning.
- **Solo Air Spring:** Allows for simultaneous filling of positive and negative air spring chambers through a single Schrader valve, providing a plush and predictable ride with easy setup.
- **Rapid Recovery:** This technology enables the shock to recover faster between successive impacts, maintaining wheel contact with the ground for improved traction and control.
- **Durable Construction:** Features a Fast Black hard anodized, forged aluminum body with integrated sag gradients for quick setup.

- **Application:** Intended for Trail and Enduro riding disciplines.

3. SETUP

Proper setup is crucial for optimal performance and rider comfort. The Monarch Plus RC3 is designed for straightforward adjustment.

3.1. Installation

The rear shock includes bike/frame specific mount hardware. Ensure all mounting bolts are torqued to the bicycle manufacturer's specifications. Refer to your bicycle's owner's manual for specific torque values.

3.2. Setting Sag (Solo Air)

The Solo Air system allows for easy sag adjustment. A shock pump (not included) is required for this procedure.

1. Attach a high-pressure shock pump to the Schrader valve.
2. Inflate the shock to the recommended pressure for your weight and riding style. Refer to the sag gradients on the shock body for visual guidance.
3. With the shock inflated, sit on your bike in your normal riding position. The sag indicator O-ring should move up the shaft.
4. Carefully dismount the bike without bouncing. Measure the distance the O-ring has moved from the shock body. This is your sag.
5. Adjust air pressure as needed to achieve the desired sag (typically 25-35% of the shock's travel for Enduro/Trail riding). Increase pressure to reduce sag, decrease pressure to increase sag.



Image 3.1: The Monarch Plus RC3 rear shock properly installed within a bicycle frame.

4. OPERATING ADJUSTMENTS

The Monarch Plus RC3 offers external adjustments to fine-tune your ride for varying terrain and preferences.

4.1. Compression Adjustment (RC3)

The blue lever on the shock body controls the compression damping with three distinct positions:

- **Open:** Provides maximum small bump compliance and traction, ideal for technical descents and rough terrain.
- **Pedal:** Offers increased compression damping for improved pedaling efficiency on climbs and smoother trails, while still absorbing moderate impacts.
- **Lock:** Provides a firm platform for maximum pedaling efficiency on smooth climbs or paved surfaces. Use with caution on rough terrain as it reduces shock absorption.

4.2. Rebound Adjustment

The red dial controls the rebound damping, which regulates how quickly the shock extends after compression. Turn the dial towards the '+' (turtle) for slower rebound or towards the '-' (rabbit) for faster rebound.

- **Slower Rebound:** Recommended for larger impacts and heavier riders to prevent the shock from topping out too quickly.
- **Faster Rebound:** Suitable for smaller, rapid impacts and lighter riders to allow the shock to recover quickly for successive bumps.



Image 4.1: Detailed view of the blue compression lever and red rebound dial on the Monarch Plus RC3.

5. MAINTENANCE

Regular maintenance ensures the longevity and consistent performance of your Monarch Plus RC3 Rear Shock.

5.1. Routine Cleaning

After each ride, especially in wet or dusty conditions, clean the shock body and shaft with mild soap and water. Wipe dry with a soft cloth. Avoid high-pressure washers directly on seals.

5.2. Air Can Service

RockShox recommends a basic air can service every 50 hours of riding or annually, whichever comes first. A Basic Service Kit is included with your shock. This service typically involves cleaning and lubricating the air can seals. Refer to the official RockShox service manual for detailed instructions, which can be found on the RockShox website.

5.3. Full Service

A full damper service is recommended every 200 hours of riding or annually. This is a more involved procedure and may require specialized tools. It is recommended to have this service performed by a qualified bicycle mechanic or an authorized RockShox service center.

6. TROUBLESHOOTING

If you encounter issues with your Monarch Plus RC3, consult the following common troubleshooting steps:

- **Loss of Air Pressure:** Check the Schrader valve for tightness. Inspect the air can seals for damage or dryness. Perform an air can service if necessary.
- **Poor Damping Performance (too bouncy/harsh):** Verify sag is set correctly. Adjust rebound and compression settings. Ensure the shock is clean and free of debris around the seals.
- **Unusual Noises:** Inspect mounting hardware for tightness. Check for any rubbing components. If noises persist, a professional inspection may be required.
- **Oil Leakage:** A small amount of oil residue on the shaft is normal for lubrication. Excessive oil leakage indicates a seal issue and requires immediate service.

For persistent issues, contact RockShox customer support or an authorized service center.

7. SPECIFICATIONS

Key technical specifications for the RockShox Monarch Plus RC3 Rear Shock:

Brand	RockShox
Model	Monarch Plus RC3
Part Number	0710845776533
Eye-to-Eye Length	8.50 inches (216mm)
Stroke Length	2.25 inches (57mm)
Air Spring	Solo Air
Damping	RC3 (Open/Pedal/Lock compression, external rebound)
Material	Aluminum
Item Weight	0.71 Kilograms
Intended Use	Trail, Enduro

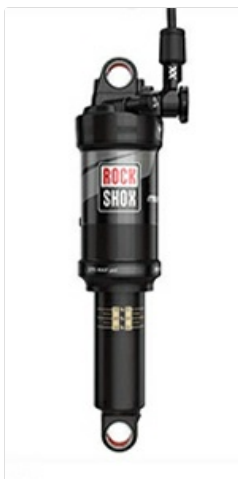


Image 7.1: Front view of the Monarch Plus RC3, highlighting its compact design.

8. WARRANTY AND SUPPORT

RockShox products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the official RockShox website or the documentation included with your product.

For technical support, service inquiries, or to locate an authorized service center, please visit the official RockShox website or contact their customer service department directly. Providing your model number (0710845776533) will assist in faster service.