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RockShox 2051518135

RockShox Reba RL Suspension Fork User Manual

Brand: RockShox

1. INTRODUCTION AND OVERVIEW

The RockShox Reba RL suspension fork is engineered to deliver consistent quality and performance for various cycling disciplines. It features a versatile design suitable for cross-country (XC) to trail riding, making it a reliable choice for a wide range of cyclists. The Reba incorporates advanced technologies developed across the RockShox SID and Revelation series, providing a proven package for those seeking dependable suspension performance.



Figure 1: RockShox Reba RL Suspension Fork. This image shows the black suspension fork with a blue adjustment knob on the top of the left stanchion. The RockShox logo is visible on the lower part of the fork leg.

2. KEY FEATURES

- **Motion Control RL Damper:** Equipped with an adjustable low-speed compression and a blow-off lockout function, allowing precise control over damping characteristics.
- **Solo Air Spring:** Features a single Schrader valve that simultaneously fills both positive and negative air spring chambers, simplifying air pressure adjustments.
- **Fast Black Upper Tubes:** The upper tubes are treated with a Fast Black coating, enhancing durability and reducing friction for smoother operation.

- **Sag Gradients:** Convenient sag gradients are directly printed on the fork's upper tubes, enabling quick and accurate suspension setup.
- **Air Guide:** Includes a drop-in pressure guide marked on the back, assisting users in setting up the suspension efficiently.

3. SETUP

Proper setup of your Reba RL fork is crucial for optimal performance and rider comfort. Follow these steps for initial setup:

1. **Installation:** Ensure the fork is correctly installed on your bicycle according to the bicycle manufacturer's guidelines. The steerer tube should be cut to the appropriate length and secured with the stem and headset.
2. **Air Pressure Adjustment (Solo Air):**
 - Locate the Schrader valve on the top of the left fork leg.
 - Using a high-pressure shock pump, add air to the fork. Refer to the sag gradients printed on the upper tube and the air guide for recommended pressure based on your weight and riding style.
 - The Solo Air system automatically balances the positive and negative air chambers.
3. **Sag Setting:**
 - With the fork installed and air pressure set, sit on your bike in your normal riding position.
 - Observe the sag indicator against the sag gradients on the upper tube. Adjust air pressure until the sag is within the recommended range (typically 15-25% of total travel for XC/trail).
4. **Rebound Adjustment:** The rebound knob (usually at the bottom of the right fork leg) controls how quickly the fork extends after compression. Turn the knob towards the '+' (slower) for more control on rough terrain or towards the '-' (faster) for quicker recovery on smoother trails. Adjust to personal preference and trail conditions.
5. **Compression Adjustment (Motion Control RL):** The blue knob on the top of the right fork leg controls low-speed compression and lockout. Turn clockwise to increase compression damping or to engage the lockout for climbing efficiency. Turn counter-clockwise to open the compression for full suspension travel.

4. OPERATING

Once properly set up, the RockShox Reba RL fork is ready for use. Its Motion Control RL damper allows for on-the-fly adjustments to suit varying terrain and riding styles.

- **Trail Riding:** For general trail riding, set the compression damping to a comfortable level that absorbs small bumps while providing support for larger impacts. The lockout can be partially or fully disengaged.
- **Climbing:** When climbing on smooth surfaces or fire roads, engage the lockout feature to minimize suspension bob and maximize pedaling efficiency. Remember to disengage it before descending or encountering rough terrain.
- **Descending:** For descents and technical terrain, ensure the compression damping is fully open to allow the fork to absorb impacts effectively and maintain traction.
- **Rebound:** Continuously adjust rebound damping based on the terrain. Faster rebound is generally preferred for quick, successive bumps, while slower rebound provides more control on larger hits and jumps.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RockShox Reba RL fork. Adhere to the following guidelines:

- **Cleaning:** After each ride, especially in dirty or wet conditions, wipe down the stanchions (upper tubes) with a clean, soft cloth. Avoid using high-pressure washers directly on seals.
- **Lubrication:** Apply a small amount of suspension-specific lubricant to the stanchions periodically, then cycle the fork a few times to distribute it. Wipe off any excess.
- **Seal and Bushing Service:** RockShox recommends regular lower leg service (seal and bushing lubrication) every 50 hours of riding or annually, whichever comes first. This prevents premature wear and maintains smooth operation. Consult a qualified bike mechanic or the official RockShox service manual for detailed instructions.
- **Air Pressure Check:** Check your air pressure before every ride, or at least weekly, as air can slowly leak over time.
- **Damper Service:** Full damper service is recommended every 200 hours or bi-annually. This is a more complex procedure and should ideally be performed by a certified technician.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Reba RL fork.

Problem	Possible Cause	Solution
Fork feels too stiff or harsh.	Too much air pressure; compression damping too high.	Reduce air pressure gradually until desired sag is achieved. Reduce low-speed compression damping.
Fork feels too soft or bottoms out easily.	Too little air pressure; not enough compression damping.	Increase air pressure until desired sag is achieved. Increase low-speed compression damping.
Fork makes squishing or sucking noises.	Normal damper operation; low oil level in damper.	Minor noises are normal. If excessive, a damper service may be required by a qualified technician.
Fork loses air pressure quickly.	Leaking air valve; damaged air seals.	Check valve core for tightness. If problem persists, air spring service is needed. Consult a mechanic.
Fork does not return to full travel.	Negative air chamber issue; stanchion friction.	Cycle the fork several times. If issue persists, a full air spring service may be required.

For issues not listed here or if solutions do not resolve the problem, it is recommended to contact a certified RockShox service center or a professional bicycle mechanic.

7. SPECIFICATIONS

Specification	Value
Model Number	2051518135
Color	Black
Material	Aluminum
Type	Cycling Fork
Axle to Crown Length	47.3 cm
Brake Type	Post Mount 160
Offset	4.06 cm
Front Axle	0.95 inches x 10.04 cm
Lockout Switch	Crown
SHIS System Clamp Diameter	28.6 mm
Steering Type	Straight Steerer
Steerer Tube Length	24.5 cm
Spring Type	Solo Air (Positive & Negative)
Travel	10.04 cm (100mm)
Wheel Size	66.0 cm (26 inches)
Stanchion Diameter	1.25 inches (32mm)
External Adjustments	Low-speed compression damping, Rebound damping
Maximum Tire Width	8.1 cm
E-bike Design	Yes
Product Dimensions	93 x 22 x 12 cm
Item Weight	2.18 kg

8. WARRANTY AND SUPPORT

For detailed warranty information and support, please refer to the official RockShox website or contact your authorized RockShox dealer. Keep your proof of purchase for any warranty claims. Official service manuals and technical documents are available on the manufacturer's website for further assistance with maintenance and repair procedures.