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Model: Recon Silver RL

1. PRODUCT OVERVIEW

The RockShox Recon Silver RL Suspension Fork is engineered to provide reliable performance for mountain biking. It features a robust design and advanced damping technology to enhance ride quality and control over varied terrain.

Key features include:

- **Motion Control Damping:** Offers adjustable low-speed compression for fine-tuning ride feel.
- **32mm Steel Chassis:** Provides durability and stiffness for responsive handling.
- **Forged, Hollow Aluminum Crown:** Contributes to strength while keeping weight optimized.
- **Compatibility:** Designed for 27.5" wheels with 130mm travel and a 15x110mm axle.



Figure 1.1: Front view of the RockShox Recon Silver RL Suspension Fork. This image shows the fork's overall structure, including the crown, stanchions, and lower legs.

2. SETUP AND INSTALLATION

Proper installation of your suspension fork is crucial for safety and performance. It is highly recommended that installation be performed by a qualified bicycle mechanic.

2.1 Pre-Installation Checks

- Ensure the fork's steerer tube length is compatible with your bicycle frame.
- Verify that the axle standard (15x110mm Boost) matches your wheel hub.
- Inspect the fork for any shipping damage.

2.2 Installation Steps (Summary)

1. **Steerer Tube Preparation:** Cut the steerer tube to the correct length for your frame and headset stack height. Deburr the edges.

2. **Crown Race Installation:** Install the crown race onto the steerer tube, ensuring it is fully seated.
3. **Fork Insertion:** Insert the steerer tube through the head tube of your frame.
4. **Headset Assembly:** Install headset components, spacers, and stem according to your headset manufacturer's instructions.
5. **Axle Installation:** Install your front wheel using the 15x110mm Maxle Stealth thru-axle, ensuring it is tightened to the manufacturer's specifications.
6. **Brake Caliper Installation:** Mount your disc brake caliper to the fork's post mounts and align it correctly with the rotor.

2.3 Sag Adjustment

Sag is the amount your suspension compresses under your body weight. Proper sag setting is critical for optimal performance.

- **Air Pressure:** Adjust the air pressure in the fork's air spring chamber using a high-pressure shock pump. Refer to the air pressure guide (often a sticker on the fork leg or in a detailed manual) for recommended pressures based on rider weight.
- **Measurement:** With the rider in a normal riding position, measure the difference in fork travel from fully extended to compressed under rider weight. Aim for 15-25% sag for trail riding.



Figure 2.1: Side view of the RockShox Recon Silver RL Suspension Fork. This image highlights the fork's profile and the location of adjustment knobs.

3. OPERATING YOUR SUSPENSION FORK

The Recon Silver RL features several adjustments to fine-tune your ride experience.

3.1 Motion Control Damping Adjustment

The Motion Control damper allows for adjustment of low-speed compression. This knob is typically located on the top of the right fork leg.

- **Open Position:** Turning the knob counter-clockwise (towards the "open" or "minus" symbol) allows for maximum suspension activity, ideal for rough terrain.
- **Lockout Position:** Turning the knob clockwise (towards the "lock" or "plus" symbol) stiffens the fork, reducing suspension movement. This is useful for climbing or smooth sections of trail.
- **Intermediate Settings:** You can set the knob anywhere between fully open and fully locked to find your preferred level of compression damping.

3.2 Rebound Adjustment

The rebound knob controls the speed at which the fork extends after compression. This knob is usually located at the bottom of the right fork leg.

- **Slower Rebound:** Turning the knob clockwise (towards the "turtle" or "plus" symbol) slows down the rebound, preventing the fork from springing back too quickly.
- **Faster Rebound:** Turning the knob counter-clockwise (towards the "rabbit" or "minus" symbol) speeds up the rebound, allowing the fork to extend more quickly.
- **Setting Rebound:** A good starting point is to set the rebound so the fork returns quickly but without feeling like it's "pogo-sticking."



Figure 3.1: Close-up view of the RockShox Recon Silver RL Suspension Fork, illustrating the location of the damping adjustment knobs.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RockShox Recon Silver RL fork.

4.1 Cleaning

- After every ride, wipe down the stanchions (upper tubes) with a clean, soft cloth to remove dirt and debris.
- Avoid using high-pressure washers directly on seals, as this can force water and contaminants into the fork.
- Use mild soap and water for general cleaning of the fork's exterior.

4.2 Lubrication

- Periodically apply a small amount of suspension-specific lubricant to the stanchions, just above the dust seals. Cycle the fork a few times to distribute the lubricant, then wipe off any excess.

4.3 Service Intervals

RockShox recommends regular service to maintain performance and prevent wear.

- **Lower Leg Service:** Typically recommended every 50 hours of riding or annually, whichever comes first. This involves cleaning and replacing lower leg oil and foam rings.
- **Full Service:** Recommended every 200 hours of riding or every two years. This includes a complete disassembly, inspection, and replacement of all seals and fluids.
- Consult the official RockShox service manual for detailed instructions or seek professional service.



Figure 4.1: View of the lower leg of the RockShox Recon Silver RL Suspension Fork, indicating areas for cleaning and lubrication.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Fork feels too stiff or harsh	Too much air pressure; compression damping set too high.	Reduce air pressure; decrease compression damping (turn knob counter-clockwise).
Fork feels too soft or bottoms out easily	Too little air pressure; compression damping set too low.	Increase air pressure; increase compression damping (turn knob clockwise).
Fork "pogo-sticks" or rebounds too quickly	Rebound damping set too fast.	Increase rebound damping (turn knob clockwise/towards turtle).
Fork feels sluggish or packs up	Rebound damping set too slow.	Decrease rebound damping (turn knob counter-clockwise/towards rabbit).
Oil leakage around seals	Worn or damaged seals; excessive dirt buildup.	Clean stanchions and seals. If leakage persists, perform a lower leg service or full service to replace seals.

If you experience issues not listed here or if solutions do not resolve the problem, contact RockShox customer support or a certified service center.

6. SPECIFICATIONS

Feature	Detail
Model Name	Recon Silver RL
Wheel Size	27.5 inches
Travel	130 mm
Axle Standard	15 x 110 mm (Boost)
Offset	46 mm
Color	Gloss Black
Material	Aluminum (Crown), Steel (Upper Tubes)
Damping	Motion Control RL
Item Weight	7.81 Pounds (approx. 3.54 kg)
Part Number	00.4020.557.019

7. WARRANTY AND SUPPORT

7.1 Limited Warranty

The RockShox Recon Silver RL Suspension Fork comes with a limited warranty. Please refer to the official RockShox warranty policy document, typically included with your product or available on the manufacturer's website, for full details regarding coverage, terms, and conditions.

7.2 Customer Support

For technical assistance, service inquiries, or warranty claims, please contact RockShox customer support directly. You can typically find contact information on the official RockShox website or through your authorized dealer.

Online Resources: For additional manuals, service guides, and technical documents, visit the official RockShox website.

