SR Suntour XCR32-AIR LOR DS 27.5+BOOST

SR SUNTOUR XCR32-AIR LOR DS Suspension Fork User Manual

Model: XCR32-AIR LOR DS 27.5+BOOST

1. Introduction and Overview

This manual provides essential information for the proper installation, operation, and maintenance of your SR SUNTOUR XCR32-AIR LOR DS Suspension Fork. Designed for 27.5-inch wheels with Boost spacing, this air-sprung fork offers reliable performance for mountain biking. Please read this manual thoroughly before use to ensure safety and optimal performance.

The SR SUNTOUR XCR32-AIR LOR DS fork features an air spring for adjustable stiffness, low-speed rebound adjustment, and a lockout function for efficient climbing.

2. Safety Information

Always prioritize safety. Improper installation or maintenance can lead to serious injury or damage to your bicycle. If you are unsure about any procedure, consult a qualified bicycle mechanic.

- Always wear appropriate safety gear, including a helmet, when riding.
- Ensure all bolts and fasteners are tightened to the manufacturer's specified torque settings.
- Regularly inspect your fork for any signs of damage, cracks, or leaks. Do not ride with a damaged fork.
- Do not attempt to disassemble the air spring or damper cartridge. These components are sealed and require specialized tools and knowledge for servicing.
- Keep hands and clothing clear of moving parts.
- Do not modify the fork. Any modifications can compromise its structural integrity and void the warranty.

3. Product Features

The SR SUNTOUR XCR32-AIR LOR DS Suspension Fork is engineered with the following key features:

- **Air Spring System:** Allows for precise adjustment of fork stiffness to match rider weight and riding style.
- **Low Speed Rebound Adjustment:** Controls the speed at which the fork extends after compression, improving traction and control.

- **Lockout Function:** Provides the ability to stiffen the fork for more efficient pedaling on smooth terrain or climbs.
- **Magnesium Bottom Case:** Lightweight and durable construction for the lower fork legs.
- **32mm Steel Stanchions:** Robust stanchions for strength and rigidity.
- **15x110mm Boost Axle (QLC):** Ensures compatibility with modern Boost-standard hubs for increased wheel stiffness.
- **Post Mount Brake Compatibility:** Designed for 160mm rotors natively, with support for up to 180mm rotors using an adapter.
- **Travel Options:** Standard 100mm travel, with changeable travel options of 80mm or 120mm (requires separate parts).

4. Setup and Installation

Installation of a suspension fork requires specific tools and mechanical aptitude. If you are not confident in your abilities, please seek professional assistance from a certified bicycle mechanic.

4.1. Unboxing and Inspection

Carefully remove the fork from its packaging. Inspect it for any visible damage that may have occurred during shipping. Ensure all components, such as the axle, are present.





Figure 1: Front view of the SR SUNTOUR XCR32-AIR LOR DS Suspension Fork, showing the overall design and branding.

4.2. Steerer Tube Preparation

1. Measure the required steerer tube length for your bicycle frame. This typically involves inserting the steerer through the head tube and marking it just above the top of the stem.
2. Carefully cut the steerer tube to the measured length using a proper steerer tube cutting guide and a hacksaw with a fine-tooth blade. Deburr the edges.
3. Install the star nut (if not pre-installed) into the steerer tube using a star nut setting tool. Ensure it is straight and at the correct depth.

4.3. Fork Installation

1. Grease the steerer tube and headset bearings.
2. Slide the fork into the head tube, ensuring all headset components are correctly oriented.
3. Install the stem and any necessary spacers.
4. Install the top cap and bolt, tightening it just enough to remove play from the headset without binding.
5. Align the stem with the front wheel and tighten the stem clamp bolts to the manufacturer's specified torque.

4.4. Wheel and Brake Installation

1. Install your 27.5-inch Boost front wheel into the dropouts. Insert the 15x110mm QLC axle and tighten it securely.
2. Mount your disc brake caliper to the fork's post mount tabs. Ensure proper alignment and clearance with the rotor. Tighten caliper bolts to specified torque.
3. Route the brake hose and any other cables (e.g., remote lockout if applicable) securely along the fork leg using the integrated guides.





Figure 2: Front view of the fork, highlighting the axle and brake mount area.





Figure 3: Right side view of the fork, showing the lockout lever and brake hose routing guides.





Figure 4: Left side view of the fork, showing the air valve cap and rebound adjustment knob.

5. Operating Instructions

5.1. Setting Air Pressure (Sag)

The air spring allows you to adjust the fork's stiffness. Proper air pressure is crucial for performance and comfort. This is typically set by measuring "sag" – the amount the fork compresses under your riding weight.

1. Locate the air valve cap on the top of the left fork leg (usually blue). Remove the cap.
2. Attach a high-pressure shock pump to the valve.
3. Add or release air until the desired sag is achieved. A common starting point for trail riding is 15-25% of total travel (e.g., 15-25mm for a 100mm travel fork). Consult SR Suntour's website or a local bike shop for recommended pressure charts based on rider weight.

4. Remove the pump and replace the air valve cap.

5.2. Rebound Adjustment

The rebound knob controls how quickly the fork extends after compression. A red knob is typically found at the bottom of the right fork leg.

- Turn the knob clockwise (towards 'S' or 'Slow') to slow down the rebound. This is generally preferred for larger impacts and better control.
- Turn the knob counter-clockwise (towards 'F' or 'Fast') to speed up the rebound. This is useful for quick successive bumps to prevent the fork from "packing up."
- Experiment with settings to find what feels best for your riding style and terrain. A good starting point is to set it fast enough so the fork recovers quickly but doesn't "pogo stick" you off the bike.

5.3. Lockout Function

The lockout lever, typically a blue lever on the top of the right fork leg, allows you to stiffen the fork for more efficient pedaling.

- **Locked Out:** Turn the lever fully clockwise to engage the lockout. This minimizes fork movement, ideal for climbing or riding on smooth surfaces.
- **Open:** Turn the lever fully counter-clockwise to disengage the lockout. This allows the fork to absorb impacts and provide suspension.
- Do not ride with the fork locked out on rough terrain or during descents, as this can damage the fork and compromise control.

6. Maintenance

Regular maintenance will prolong the life and performance of your SR SUNTOUR fork.

- **After Every Ride:** Clean the stanchions (upper tubes) and seals with a clean, damp cloth. Avoid using high-pressure washers directly on the seals.
- **Monthly/Every 20-30 Hours of Riding:**
    - Check air pressure and adjust as needed.
    - Inspect the fork for any signs of damage, loose bolts, or oil leaks.
    - Clean and lightly lubricate the stanchions with a suspension-specific lubricant (avoid petroleum-based products).
- **Annually/Every 100 Hours of Riding:** A full lower leg service is recommended. This involves cleaning and replacing the bath oil and dust wipers. This service should ideally be performed by a qualified mechanic or experienced individual.
- **Every 200 Hours of Riding:** A complete overhaul of the air spring and damper cartridge may be necessary. This is a more complex service and should be performed by an authorized SR Suntour service center.

7. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Fork feels too soft or bottoms out easily.	Insufficient air pressure.	Add air to the air spring using a shock pump. Check sag.
Fork feels too stiff or doesn't use full travel.	Too much air pressure.	Release air from the air spring. Check sag.
Fork "pogo sticks" or rebounds too quickly.	Rebound damping set too fast.	Turn the rebound knob clockwise (slower).
Fork feels sluggish or rebounds too slowly.	Rebound damping set too slow.	Turn the rebound knob counter-clockwise (faster).
Fork makes unusual noises (creaking, clunking).	Loose headset, dry bushings, internal issue.	Check headset adjustment. If noise persists, a service may be required. Consult a mechanic.
Oil visible on stanchions or fork legs.	Normal lubrication, or worn seals.	A thin film is normal. If excessive or dripping, seals may need replacement.

8. Specifications

Feature	Specification
Model Name	XCR32-AIR LOR DS 27.5+BOOST
Wheel Diameter	27.5 inches (66mm)
Maximum Tire Width	2.6 inches (66mm)
Steerer Tube Material	Aluminum
Steerer Tube Diameter	1.5" to 1-1/8" Tapered
Stanchion Diameter	32 mm
Stanchion Material	Steel
Axle Type	15 x 110 mm QLC (Boost)
Brake Compatibility	Post mount 160 mm (Max 180 mm with adapter)
Shipping Travel Amount	100 mm
Changeable Travel Amount	80 / 120 mm (Parts sold separately)
Spring Type	Air
Rebound Adjustment	Low Speed
Lockout	Yes

Feature	Specification
Bottom Case Material	Magnesium
Color	Black
Approx. Package Weight	3 Kilograms
Approx. Package Dimensions (L x W x H)	31.5 x 7.87 x 5.91 inches

9. Warranty and Support

Specific warranty terms and conditions for your SR SUNTOUR XCR32-AIR LOR DS Suspension Fork are typically provided with your purchase documentation or can be found on the official SR Suntour website. Please retain your proof of purchase for warranty claims.

For technical support, service, or genuine replacement parts, please contact SR Suntour directly or visit their official website for authorized service centers and contact information. Always use genuine SR Suntour parts for repairs to ensure compatibility and safety.

Note: This manual provides general guidance. For the most up-to-date and detailed information, always refer to the official SR Suntour documentation and resources.

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