

FOX 910-20-231

FOX 32 STEP CAST PERFORMANCE Fork User Manual

Model: 910-20-231

INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your FOX 32 STEP CAST PERFORMANCE 100 15QRx110mm 1.5T mountain bike fork. Designed for cross-country performance, this fork features a lightweight Step-Cast chassis, a redesigned crown for increased stiffness, and advanced damping technology to enhance your riding experience.

The FOX 32 Step-Cast Performance fork is engineered to meet the demands of competitive cross-country riding, offering a balance of low weight and robust performance. Its unique Step-Cast chassis design optimizes weight savings while providing clearance for spokes and brake rotors. Key features include black anodized upper tubes, 32mm stanchions, a FIT GRIP damper, and a FLOAT air spring.

PRODUCT OVERVIEW





Figure 1: Front view of the FOX 32 Step-Cast Performance fork, showcasing its matte black finish and distinct Step-Cast lower leg design.





Figure 2: Angled view of the fork, illustrating the unique Step-Cast chassis which reduces weight and provides clearance for bike components.





Figure 3: Side profile of the fork, showing the full length and the black anodized upper tubes.



Figure 4: Detail of the blue top caps, indicating the FLOAT Air spring on the left and the GRIP damper with Open/Firm settings on the right.



Figure 5: View of the lower leg, showing the red rebound

adjuster knob and the 15QRx110mm axle system.



Figure 6: Detailed view of the "32 STEP-CAST PERFORMANCE" graphics on the fork's lower leg.

SETUP

Proper setup is crucial for optimal performance and safety. Always refer to the detailed instructions on the official FOX website for the most accurate and up-to-date setup guides, including air pressure settings and damper adjustments based on rider weight and riding style.

Initial Installation

- **Steerer Tube Preparation:** The fork comes with a 264mm tapered steerer tube. Cut the steerer tube to the appropriate length for your bicycle frame and stem combination. Ensure proper headset installation.
- **Wheel Compatibility:** This fork is designed for 27.5-inch wheels and features a 15QRx110mm Boost axle spacing. Ensure your wheel is compatible.
- **Brake Compatibility:** The fork is compatible with disc brakes. Install your brake caliper according to the brake manufacturer's instructions.

Air Spring Setup (FLOAT Air Spring)

The FLOAT air spring allows for precise tuning of the fork's firmness. Use a high-pressure shock pump to adjust the air pressure in the main air chamber. Consult the FOX website or the sticker on the fork leg for recommended air pressure settings based on your weight and riding preferences. Always cycle the fork through its travel several times after adding or releasing air to equalize pressures.

Sag Setting

Sag is the amount the suspension compresses under the rider's weight. Setting sag correctly is fundamental for proper suspension performance. Typically, for cross-country forks, sag is set between 15-20% of the total travel (100mm for this

model). Refer to FOX's official guides for detailed sag measurement procedures.

OPERATING ADJUSTMENTS

FIT GRIP Damper

The FIT GRIP damper provides on-the-fly compression adjustments. The blue lever on the top right of the fork crown allows you to switch between "Open" and "Firm" modes:

- **Open Mode:** Provides full suspension travel and maximum small bump compliance, ideal for technical descents and rough terrain.
- **Firm Mode:** Increases compression damping for a firmer ride, reducing suspension movement during climbing or on smooth terrain.

Rebound Adjustment

The red knob located at the bottom of the right fork leg controls the rebound damping. Rebound damping controls how quickly the fork extends after compression. Turning the knob clockwise (towards "Slow") slows down the rebound, while turning it counter-clockwise (towards "Fast") speeds it up. Adjust this setting to prevent the fork from packing up on successive bumps or feeling too bouncy.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your FOX fork. Always consult the official FOX service intervals and guides for detailed procedures.

Routine Cleaning

- After every ride, wipe down the stanchions (upper tubes) with a clean, soft cloth to remove dirt and debris.
- Clean the entire fork with mild soap and water. Avoid high-pressure washers directly on seals.
- Inspect the fork for any signs of damage, leaks, or unusual wear.

Air Pressure Check

Check your air spring pressure before every ride using a high-pressure shock pump. Air pressure can fluctuate with temperature changes and over time.

Service Intervals

FOX recommends regular service for their suspension products. This typically includes lower leg service (dust wiper and foam ring replacement, oil change) and a full damper/air spring service at specified intervals. Refer to the FOX website for the most current service schedules and authorized service centers.

TROUBLESHOOTING

This section addresses common issues you might encounter with your FOX 32 Step-Cast Performance fork. For complex issues or if you are unsure, contact an authorized FOX service center.

Loss of Air Pressure

- **Symptom:** Fork feels soft, bottoms out easily, or loses travel.
- **Possible Cause:** Low air pressure, leaky air valve, or internal air seal issue.
- **Solution:** Check air pressure and reinflate. Ensure valve cap is tight. If pressure loss persists, it may indicate an

internal seal problem requiring professional service.

Poor Damping Performance

- **Symptom:** Fork feels too bouncy (fast rebound) or packs up (slow rebound), or lacks compression support.
- **Possible Cause:** Incorrect rebound/compression settings, low damper oil level, or contaminated damper oil.
- **Solution:** Adjust rebound and compression settings. If issues persist, the damper may require service by an authorized technician.

Unusual Noises (Creaking, Clunking)

- **Symptom:** Audible creaking or clunking sounds during fork compression or extension.
- **Possible Cause:** Loose headset, loose axle, dry bushings, or internal component wear.
- **Solution:** Check headset tightness and axle security. If noises continue, professional inspection is recommended.

SPECIFICATIONS

Feature	Specification
Model	FOX 32 STEP CAST PERFORMANCE
Part Number	910-20-231
Travel	100 mm
Wheel Size	27.5 inches
Axle Type	15QRx110mm (Boost)
Steerer Type	Tapered
Steerer Tube Length	264 mm
S.H.I.S. Stem Clamp Diameter	28.6 mm
Stanchion Diameter	32 mm
Offset	44 mm
Axle to Crown Length	488 mm
Spring Type	FLOAT Air (Positive and Negative)
Damper Type	FIT GRIP
Color	Matte Black
Item Weight	3.5 Kilograms
Manufacturer	Fox Shox
Model Year	2021

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official FOX website or the warranty card included with your product.

Warranty terms and conditions may vary by region and product.

For technical support, service, or to find an authorized service center, please visit the official FOX website:

www.ridefox.com

Always use genuine FOX replacement parts and have service performed by qualified technicians to maintain product integrity and warranty validity.

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