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› Fox Racing Shox 32 Float Sc 29 Fit4 Remote Adjust Factory Boost Fork User Manual

FOX Factory 910-21-038

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Brand: FOX Factory | Model: 910-21-038

1. INTRODUCTION

1.1 Product Overview

The Fox 32 Float SC 29 FIT4 Remote Adjust Factory Boost Fork is engineered for competitive cross-country riding, prioritizing performance and adjustability. It features a lightweight Step-Cast chassis, a highly tunable FIT4 damper, and a convenient 2-position remote lockout system. This fork is designed to provide superior control and efficiency on varied terrain, from technical descents to demanding climbs.



Figure 1.1: Front view of the Fox 32 Float SC 29 FIT4 Remote Adjust Factory Boost Fork. This image displays the overall design, including the black stanchions, gold Kashima coating on the upper tubes, and the distinctive FOX branding.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the fork from its packaging. Inspect for any signs of shipping damage. Ensure all components, including the axle and remote lever (if applicable), are present.

2.2 Installation

Professional installation by a qualified bicycle mechanic is highly recommended. Incorrect installation can lead to serious injury or damage to the product.

1. **Steerer Tube Preparation:** Cut the steerer tube to the appropriate length for your bicycle frame and stem. Ensure proper headset stack height.
2. **Crown Race Installation:** Install the crown race onto the steerer tube.
3. **Fork Insertion:** Insert the fork into the head tube of your bicycle frame.
4. **Stem and Spacers:** Install any necessary headset spacers and the stem.
5. **Top Cap and Preload:** Install the top cap and adjust headset preload according to your headset manufacturer's specifications.
6. **Brake Caliper Installation:** Mount your disc brake caliper to the fork's post-mount tabs. Ensure proper alignment and torque specifications are met.
7. **Wheel Installation:** Install the front wheel using the Kabolt axle. Ensure the axle is fully seated and tightened to the specified torque.



Figure 2.1: Side view of the Fox 32 Float SC 29 FIT4 Fork, highlighting the steerer tube and crown. This perspective is useful for understanding the fork's integration with the bicycle frame.

2.3 Initial Adjustments

Before riding, set up the fork's air pressure and rebound damping for your weight and riding style.

- **Air Pressure (SAG):**

- Locate the air valve on the top of the left fork leg.
- Attach a high-pressure shock pump.
- Add or release air until the desired SAG (Suspension Air Gap) is achieved. Refer to FOX's official SAG setup guide for recommended percentages based on riding style.

- **Rebound Damping:**

- The rebound adjuster is located at the bottom of the right fork leg.
- Turn the red knob clockwise for slower rebound (more damping) and counter-clockwise for faster rebound (less damping).
- Start with the recommended setting from FOX's tuning guide and fine-tune based on trail conditions and personal preference.

- **FIT4 Damper Adjustments:**

- The FIT4 damper offers three main compression settings: Open, Medium, and Firm (controlled by the remote).
- In the Open mode, there is an additional black micro-adjust knob for fine-tuning low-speed compression. Turn clockwise for more compression, counter-clockwise for less.



Figure 2.2: Detailed view of the Fox 32 Float SC 29 FIT4 Fork, showing the upper stanchions and potentially the damper adjustment knobs. This image helps in identifying adjustment points.

3. OPERATING INSTRUCTIONS

3.1 FIT4 Damper Operation

The FIT4 damper provides on-the-fly compression damping adjustments to adapt to varying terrain and riding styles.

- **Open Mode:** Provides full suspension travel and maximum small bump compliance. Ideal for technical descents and rough terrain.
- **Medium Mode:** Offers increased compression damping for improved pedaling efficiency on rolling terrain or smoother climbs.

- **Firm Mode:** Provides a near-lockout feel for maximum pedaling efficiency on smooth climbs or sprints.

3.2 Remote Adjust Functionality

The 2-position remote allows for quick transitions between the Open and Firm modes.

- **Engaging Firm Mode:** Press the remote lever to engage the Firm (lockout) mode. This provides a rigid platform for climbing or sprinting.
- **Engaging Open Mode:** Press the release button on the remote lever to return the fork to the Open mode, allowing full suspension travel.



Figure 3.1: Close-up view of the lower leg and Kabolt axle area of the Fox 32 Float SC 29 FIT4 Fork. This image illustrates the axle interface and brake mount points.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your FOX fork.

4.1 Cleaning

- After every ride, wipe down the stanchions (upper tubes) with a clean, soft cloth to remove dirt and debris.
- Use mild soap and water for general cleaning of the fork lowers. Avoid high-pressure washers directly on seals.
- Do not use harsh chemicals or solvents, as they can damage seals and finishes.

4.2 Lubrication

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

4.3 Service Intervals

FOX recommends regular service to maintain performance and prevent wear. Refer to the official FOX website for the most current service interval recommendations, which typically include:

- **Every 30 hours of riding or annually (whichever comes first):** Lower leg service (dust wiper and foam ring replacement, bath oil change).
- **Every 125 hours of riding or annually (whichever comes first):** Full fork service (damper and air spring service).

These intervals may vary based on riding conditions and intensity. Always use genuine FOX parts and fluids for service.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your FOX 32 Float SC fork.

Problem	Possible Cause	Solution
Fork feels too stiff / Not getting full travel	Too much air pressure; Too many volume spacers; Rebound damping too slow.	Reduce air pressure; Remove volume spacers (consult FOX guide); Speed up rebound damping.
Fork feels too soft / Bottoms out easily	Too little air pressure; Not enough volume spacers; Rebound damping too fast.	Increase air pressure; Add volume spacers (consult FOX guide); Slow down rebound damping.
Oil leaking from seals	Dirty seals; Damaged seals; Overfilled oil.	Clean stanchions and seals; Replace seals (professional service recommended); Have fork serviced.
Remote lockout not working	Cable tension incorrect; Damaged cable/housing; Damper issue.	Adjust cable tension; Replace cable/housing; Consult professional mechanic.
Unusual noises (creaking, clunking)	Loose headset; Loose axle; Internal issue.	Check headset preload; Ensure axle is torqued correctly; Seek professional inspection.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact FOX Factory customer

support or a certified FOX service center.

6. TECHNICAL SPECIFICATIONS

Key specifications for the Fox Racing Shox 32 Float SC 29 FIT4 Remote Adjust Factory Boost Fork:

Feature	Specification
Model	32 Float SC 29 FIT4 Remote Adjust Factory Boost
Part Number	910-21-038
Travel	100mm
Wheel Size	29 inches
Rake / Offset	44mm
Steerer Tube Diameter	1.5 inch Tapered
Axle Type	Kabolt (Boost 110mm spacing)
Damper	FIT4 (2-position remote adjust)
Air Spring	FLOAT EVOL
Stanchion Material	Kashima Coated Aluminum
Crown Material	Aluminum
Color	Shiny Black, Kabolt
Item Weight	Approximately 2 Kilograms
Item Dimensions (LxWxH)	38.58 x 9.84 x 5.12 inches

7. WARRANTY AND SUPPORT

7.1 Warranty Information

FOX Factory products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase. For detailed warranty information, including coverage, limitations, and how to make a claim, please visit the official FOX Factory website or contact their customer service.

7.2 Customer Support

For technical assistance, service inquiries, or to purchase genuine FOX replacement parts, please contact FOX Factory customer support. You can typically find contact information, including phone numbers and email addresses, on the official FOX Factory website (www.ridefox.com). Always provide your product's model number (910-21-038) and serial number when contacting support for faster assistance.

