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FOX Factory 972-01-509

FOX FLOAT DPS FACTORY Rear Shock User Manual

Model: 972-01-509 | Brand: FOX Factory

INTRODUCTION

The FOX FLOAT DPS FACTORY rear shock is engineered for optimal performance on various terrains. Featuring a lightweight design, an EVOL air spring, and a dual piston damper with a versatile 3-position switch, this shock is designed to enhance pedaling efficiency, absorb impacts effectively, and ensure efficient power transfer to the ground. Its advanced features, including the Genuine Kashima Coat on Factory Series models, contribute to its durability and responsiveness.





Figure 1: Front view of the FOX FLOAT DPS FACTORY rear shock, highlighting its gold Kashima coat and prominent FOX branding. This image provides an overall view of the product's design and finish.

SETUP

Mounting the Shock

Ensure proper orientation and secure mounting of the shock to your bicycle frame. Refer to your bicycle manufacturer's specifications for torque settings and compatibility. Use appropriate mounting hardware for your frame type (e.g., metric or trunnion-style options).

Setting Air Pressure (EVOL Air Spring)

The EVOL air spring requires precise air pressure for optimal performance. Use a high-pressure shock pump to inflate the main air chamber. Consult the FOX Factory website or your bike manufacturer's guide for recommended air pressure settings based on rider weight and riding style.

1. Attach a high-pressure shock pump to the air valve.
2. Inflate the shock to the recommended PSI.
3. Cycle the shock through its travel several times to equalize positive and negative air chambers.
4. Recheck the pressure and adjust as necessary.

Adjusting Sag

Sag is the amount the suspension compresses under the rider's weight. Proper sag is crucial for suspension performance. Aim for 25-30% sag for trail riding, or as recommended by your bike manufacturer.

1. With the shock fully extended, slide the rubber O-ring against the air can seal.
2. Carefully mount your bike in riding gear, assuming your normal riding position.
3. Dismount carefully without bouncing the suspension.
4. Measure the distance the O-ring moved from the air can seal. This is your sag.
5. Adjust air pressure to achieve the desired sag. Increase pressure to reduce sag, decrease pressure to increase sag.





Figure 2: Angled view of the FOX FLOAT DPS FACTORY rear shock, illustrating the EVOL air sleeve and the location of various adjustment dials. This perspective helps in identifying components for setup and operation.

OPERATING THE SHOCK

3-Position DPS Damper Switch

The DPS (Dual Piston System) damper features a 3-position switch to quickly adapt the shock's performance to different riding conditions:

- **Open Mode:** Provides the most plush and active suspension for maximum bump absorption on technical descents.
- **Medium Mode:** Offers a firmer platform for improved pedaling efficiency on rolling terrain and climbs, while still providing good bump compliance.
- **Firm Mode:** Delivers the firmest platform for maximum pedaling efficiency on smooth climbs or paved surfaces. This mode significantly reduces suspension movement.

Rebound Adjustment

The rebound dial controls the speed at which the shock extends after compression. Proper rebound setting prevents the shock from "packing up" on successive bumps or "bucking" the rider. The dial typically has a range from "Fast" to "Slow".

1. Turn the rebound dial fully clockwise (towards "Slow") until it stops.

2. From this position, turn the dial counter-clockwise (towards "Fast") by the recommended number of clicks (refer to FOX Factory tuning guide or your bike manufacturer's recommendations).
3. Test the setting by compressing the suspension and observing its return speed. Adjust as needed for a controlled, smooth return.





Figure 3: Rear view of the FOX FLOAT DPS FACTORY rear shock, clearly showing the rebound adjustment dial and the 3-position DPS switch. This image is useful for identifying and operating these key controls.

MAINTENANCE

Cleaning and Inspection

Regular cleaning and inspection are vital for the longevity and performance of your shock.

- After every ride, wipe down the shock body and shaft with a clean, damp cloth.
- Inspect for any signs of damage, leaks, or excessive wear on seals and bushings.
- Keep the Kashima Coat clean and free of abrasive contaminants.

Service Intervals

To maintain optimal performance and prevent premature wear, regular professional servicing is recommended. Refer to the official FOX Factory service schedule for detailed intervals, typically involving:

- **Air Sleeve Service:** Recommended every 50 hours of riding or annually, whichever comes first. This involves cleaning and lubricating the air sleeve seals.
- **Damper Service:** Recommended every 125 hours of riding or annually, whichever comes first. This is a more comprehensive service that should be performed by a certified FOX service center.

Note: Riding in harsh conditions (e.g., wet, muddy, dusty) may require more frequent service.

TROUBLESHOOTING

This section addresses common issues you might encounter with your FOX FLOAT DPS FACTORY rear shock. For complex problems, always consult a certified technician or FOX Factory support.

Problem	Possible Cause	Solution
Loss of Air Pressure	Leaking air valve, damaged air sleeve seals, internal leak.	Check valve core tightness. Perform air sleeve service. If problem persists, seek professional damper service.

Problem	Possible Cause	Solution
Poor Damping Performance (too bouncy/harsh)	Incorrect air pressure, incorrect rebound setting, low oil level, damaged damper.	Verify and adjust air pressure and sag. Adjust rebound setting. If no improvement, professional damper service is required.
Unusual Noises (creaking, squishing)	Loose mounting hardware, air in damper, worn bushings.	Check all mounting bolts for proper torque. If noise persists, professional inspection is recommended.

SPECIFICATIONS

Feature	Detail
Brand	FOX Factory
Model	972-01-509 (EVOL SV)
Auto Part Position	Rear
Style	Imperial
Exterior Finish	Kashima
Material	Metal
Compressed Length	38 Millimeters
Extended Length	165 Millimeters
Item Weight	7.1 ounces
Product Dimensions	9.84 x 3.54 x 1.97 inches
Special Features	NEW graphics, NEW metric or trunnion-style remote shock offerings, DPS damper with three positions - Open, Medium, Firm modes, Dual Piston valve design improves both rebound and compression flow, Lightweight, one-piece EVOL air sleeve improves responsiveness and sensitivity, Factory Series models feature Genuine Kashima Coat
UPC	821973419718

WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please visit the official FOX Factory website. It is recommended to register your product to ensure access to all support resources and

warranty benefits.

Official FOX Factory Website: www.ridefox.com

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