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Ohlins FGMTB 3818 2210

Ohlins RXF38 M.2 Air 29" Fork User Manual

Model: FGMTB 3818 2210

INTRODUCTION

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your Ohlins RXF38 M.2 Air 29" Fork. To ensure optimal performance, safety, and longevity, please read this manual thoroughly before using the product. Keep this manual for future reference.

PRODUCT OVERVIEW

The Ohlins RXF38 M.2 Air 29" Fork is an advanced suspension fork engineered for demanding All Mountain and Enduro riding. It incorporates 38mm stanchions for superior stiffness, the acclaimed TTX18 damper for precise control, and a highly adjustable three-chamber air spring system.



Figure 1: Front view of the Ohlins RXF38 M.2 Air 29" Fork. The image displays the fork's robust black chassis, the distinctive gold Ohlins branding on the lower legs, and the 38mm stanchions. Adjustment knobs are visible at the top of the fork legs.

Key Features:

- **Stanchions:** 38mm diameter for exceptional stiffness and durability, paired with bind-free bushings and SKF seals for smooth operation.

- **Damper:** TTX18 damper, directly derived from the DH38 Race fork, engineered for improved small bump sensitivity and consistent performance.
- **Adjustments:** Features 16 clicks of low-speed compression and low-speed rebound adjustment, alongside high-speed compression adjustment for fine-tuning.
- **Air Spring:** Advanced three-chamber air spring system providing a wide range of adjustability for various rider weights and terrain.
- **Brake Mount:** 74mm post mount disc brake interface, compatible with rotor sizes from 200mm minimum to 220mm maximum.
- **Axle:** Boost 15x110mm thru-axle for enhanced wheel stiffness and precise steering.
- **Compatibility:** E-Bike approved, ensuring robust performance for electric mountain bikes.

SETUP

Installation:

Professional installation by a qualified bicycle mechanic is recommended. Ensure all components are clean and free of debris before assembly.

1. **Steerer Tube Preparation:** Measure and cut the steerer tube to the correct length for your frame and headset stack height. Deburr all cut edges thoroughly.
2. **Crown Race Installation:** Carefully install the crown race onto the steerer tube. Use a proper crown race setting tool to avoid damage.
3. **Fork Insertion:** Insert the fork's steerer tube into the head tube of your bicycle frame.
4. **Headset Assembly:** Install all headset components, spacers, stem, and handlebars. Ensure proper bearing preload and stem alignment before tightening.
5. **Brake Caliper Installation:** Mount your disc brake caliper to the 74mm post mount on the fork. Align the caliper and torque the bolts to the brake manufacturer's specifications.
6. **Wheel Installation:** Install your front wheel, ensuring the Boost 15x110mm thru-axle is correctly inserted and tightened to the specified torque.

Air Spring Adjustment:

The three-chamber air spring system allows for precise tuning of the fork's spring rate and progression. Refer to the official Ohlins tuning guide, typically available on the Ohlins website, for recommended pressure settings based on rider weight, riding style, and terrain.

- **Main Air Chamber:** Primarily controls the overall spring stiffness and sag.
- **Ramp-Up Chamber:** Influences the fork's progression and bottom-out resistance.
- **Negative Air Chamber:** Affects initial sensitivity and small bump compliance.

Damper Adjustment:

The TTX18 damper provides comprehensive adjustment capabilities to fine-tune the fork's compression and rebound characteristics:

- **Low-Speed Compression (LSC):** Adjusts damping for slow shaft speeds, such as pedaling, body weight shifts, and gentle terrain undulations. Turn clockwise for more damping (firmer), counter-clockwise for less (softer).
- **High-Speed Compression (HSC):** Adjusts damping for fast shaft speeds, typically encountered during impacts from roots, rocks, or landings. Turn clockwise for more damping (firmer), counter-clockwise for less (softer).
- **Low-Speed Rebound (LSR):** Controls the speed at which the fork extends after compression. Turn clockwise for

slower rebound, counter-clockwise for faster rebound.

OPERATING THE FORK

Once properly installed and set up, the Ohlins RXF38 M.2 fork is designed to deliver consistent and controlled suspension performance across varied terrain. Regular pre-ride checks are essential for safety and optimal function.

Pre-Ride Checks:

- Verify that the thru-axle is securely tightened.
- Check brake caliper alignment and ensure proper brake function.
- Confirm that air pressures in all chambers are set correctly for your intended ride.
- Ensure all bolts (e.g., stem, handlebar, brake levers) are torqued to their respective manufacturer specifications.
- Inspect stanchions for any damage or excessive dirt.

On-Trail Adjustments:

Minor adjustments to compression and rebound settings can be made on the trail to fine-tune performance for changing terrain or riding preferences. Make small, incremental changes (e.g., 1-2 clicks) and observe their effect before making further adjustments.

MAINTENANCE

Proper and timely maintenance is critical for preserving the performance, reliability, and lifespan of your Ohlins fork. Adhere strictly to the recommended service intervals.

Cleaning:

- After each ride, especially in dirty or wet conditions, wipe down the stanchions and seals with a clean, soft cloth to remove dirt, mud, and debris.
- For general cleaning of the fork lowers, use mild soap and water. Avoid using high-pressure washers directly on seals or bearings, as this can force water and contaminants into critical areas.

Service Intervals:

Service Type	Interval	Description
Lower Leg Service	Every 50 hours of riding or 3 months (whichever comes first)	Includes cleaning and lubrication of dust seals and foam rings, and replacement of lower leg bath oil. This helps maintain smooth operation and seal integrity.
Full Service	Every 200 hours of riding or 12 months (whichever comes first)	Comprehensive service involving complete disassembly, thorough inspection, cleaning, and replacement of all seals, O-rings, and fluids in both the air spring and damper. Recommended to be performed by an authorized Ohlins service center.

For detailed service procedures, specific oil volumes, and torque specifications, always refer to the official Ohlins service manuals or consult an authorized Ohlins service center.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Ohlins RXF38 M.2 fork. Always ensure proper installation and setup before troubleshooting.

Problem	Possible Cause	Solution
Fork feels too stiff / not getting full travel	Too much air pressure in main chamber; too much high-speed compression damping.	Reduce air pressure in the main chamber gradually; reduce high-speed compression (turn counter-clockwise).
Fork feels too soft / bottoms out easily	Too little air pressure in main chamber; too little high-speed compression damping; insufficient ramp-up pressure.	Increase air pressure in the main chamber; increase high-speed compression (turn clockwise); add pressure to the ramp-up chamber.
Fork packs up / slow to return after compression	Too much low-speed rebound damping.	Reduce low-speed rebound (turn counter-clockwise) until the fork returns smoothly without topping out harshly.
Fork feels bouncy / too fast rebound	Too little low-speed rebound damping.	Increase low-speed rebound (turn clockwise) until the fork feels controlled and does not bounce excessively.
Oil leakage around seals	Dirt or debris under seals; worn or damaged seals.	Clean stanchions and seals thoroughly. If leakage persists, a lower leg service or seal replacement is required. Contact an authorized service center.

If the issue persists after attempting these solutions, or if you encounter problems not listed here, please contact an authorized Ohlins service center for professional diagnosis and repair.

SPECIFICATIONS

Detailed technical specifications for the Ohlins RXF38 M.2 Air 29" Fork:

Feature	Detail
Model Name	RXF38 M.2 Air 29" Fork
Part Number	FGMTB 3818 2210
Wheel Size Compatibility	29 inches
Stanchion Diameter	38mm
Offset	44mm
Travel	180mm (internally adjustable)
Damper Type	TTX18
Air Spring System	Three-chamber (Main, Ramp-Up, Negative)

Brake Mount Type	74mm Post Mount
Minimum Rotor Size	200mm
Maximum Rotor Size	220mm
Axle Type	Boost 15x110mm Thru-Axle
E-Bike Approved	Yes
Approximate Package Dimensions (L x W x H)	37 x 9 x 6 inches
Approximate Package Weight	8.6 Pounds
Date First Available	February 25, 2022

WARRANTY AND SUPPORT

Ohlins products are manufactured to the highest quality standards. For specific warranty terms and conditions applicable to your RXF38 M.2 fork, please refer to the warranty card or documentation included with your product at the time of purchase. You can also find detailed warranty information on the official Ohlins website.

Customer Support:

For technical assistance, service inquiries, or to locate authorized service centers and genuine spare parts, please contact your authorized Ohlins dealer. Alternatively, visit the official Ohlins global website for comprehensive support resources and contact information.

Official Ohlins Website: www.ohlins.com