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› Boartechs X1 27.5 Remote120MM Mountain Bike Suspension Fork User Manual

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Model: X1 27.5 Remote120MM

INTRODUCTION

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Boartechs X1 27.5 Remote120MM Mountain Bike Suspension Fork. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.



Image: Boartechs X1 27.5 Remote 120MM Mountain Bike Suspension Fork. This image displays the complete suspension fork assembly, highlighting the remote lockout mechanism and the 27.5-inch wheel compatibility with 120mm travel.

PRODUCT OVERVIEW

The Boartechs X1 27.5 Remote 120MM Suspension Fork is designed for mountain bikes, offering 120mm of travel for enhanced shock absorption. It features an oil spring system with advanced damping, allowing for personalized adjustments to suit rider weight and terrain. The remote lockout provides convenient on-the-fly control over the fork's suspension.

Key Features:

- **Adjustable Air Fork:** Customize air pressure based on rider weight and riding conditions for an optimized ride.
- **Rebound Adjustment:** Controls the fork's rebound speed, improving front wheel contact with the ground for better grip and control.
- **Compression Damping:** Allows adjustment to a comfortable air pressure value based on rider weight and

riding conditions.

- **Durable Construction:** Features an outer tube designed for strength and resistance against dust contamination. Surface polishing and hard fat oxidation enhance wear resistance and lubrication for smooth rebound.



Image: Detailed view of the Boartechs MTB Fork. This image highlights key features such as 32mm stanchions, 120mm stroke height, and the remote lockout lever, indicating its design for 27.5-inch wheels with tape damping and an air fork system.

SPECIFICATIONS

Feature	Detail
Model Number	X1 27.5 Remote120MM
Type	Oil Spring Fork (Spring Resilience/Oil Damping)
Travel Length	120mm

Wheel Size Compatibility	27.5 inch
Steerer Tube Diameter	28.6mm
Crown Race Diameter	39.8mm
Stanchion Diameter	32mm
Axle Type	Q+R 100x9MM
Brake Compatibility	Disc Brake
Material	Alloy
Item Weight	5.51 pounds (approx. 2.5 kg)



Image: Dimensional diagram of the suspension fork. This illustration provides detailed measurements for both 27.5-inch (120mm travel) and 29-inch (100mm travel) fork models, including steerer tube length, stanchion diameter, and axle spacing.

SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. If you are not confident in performing the installation yourself, it is highly recommended to seek assistance from a qualified bicycle mechanic.

General Installation Steps:

1. **Prepare Your Bike:** Remove the old fork and clean the head tube area.
2. **Steerer Tube Preparation:** Measure and cut the new fork's steerer tube to the appropriate length for your bike frame and stem setup. Install the crown race onto the steerer tube.
3. **Install Fork:** Insert the steerer tube through the head tube, ensuring all headset components are correctly assembled. Install the stem and spacers, then the top cap.
4. **Brake Installation:** Mount your disc brake caliper to the fork's brake mounts.
5. **Wheel Installation:** Install the front wheel, ensuring the quick-release (Q+R) skewer is properly secured.
6. **Remote Lockout Installation:** Attach the remote lockout lever to your handlebar and route the cable to the fork's lockout mechanism. Adjust cable tension for proper function.

Initial Adjustments:

- **Air Pressure:** Adjust the air pressure in the fork's air chamber using a shock pump. Refer to the manufacturer's recommendations or a sag guide for your weight and riding style.
- **Rebound Damping:** The rebound knob (usually red) controls how quickly the fork extends after compression. Turn clockwise for slower rebound, counter-clockwise for faster rebound. Adjust to prevent harsh top-out or packing down.
- **Compression Damping:** The compression damping can be adjusted to fine-tune the fork's response to impacts. This allows you to set the fork's firmness based on your weight and trail conditions.



Manual lock

**Feel free to ride
Adjust the shock
absorption function**



Remote lock

**Manual adjustable
Damping function**



Image: Comparison of lockout types. This image illustrates the difference between a manual lockout knob on the fork crown and a remote lockout lever for handlebar control, both offering damping adjustment functionality.

U-shaped Design



Image: U-shaped crown design. This image highlights the robust U-shaped design of the fork crown, indicating its compatibility with both 100mm and 120mm drive strokes, contributing to the fork's structural integrity.

OPERATION

Once installed and adjusted, your Boartechs X1 suspension fork is ready for use. Understanding its features will help you optimize your riding experience.

Remote Lockout:

The remote lockout lever on your handlebar allows you to quickly engage or disengage the fork's suspension. Engage the lockout for climbing or riding on smooth terrain to improve pedaling efficiency. Disengage it for descents and technical trails to allow the fork to absorb impacts.

- **To Lock:** Press the lever to engage the lockout.
- **To Unlock:** Press the release button or lever to disengage the lockout.

Note: Avoid riding with the lockout engaged on rough terrain, as this can damage the fork and reduce rider comfort.

Damping Adjustments:

The rebound and compression damping settings should be fine-tuned to your personal preference and the specific trail conditions. Experiment with small adjustments to find the optimal settings that provide comfort, control, and efficiency.

MAINTENANCE

Regular maintenance extends the life of your suspension fork and ensures consistent performance.

After Each Ride:

- **Clean Stanchions:** Wipe down the stanchions (upper tubes) with a clean, soft cloth to remove dirt and debris. This prevents contaminants from entering the fork seals.
- **Inspect Seals:** Check the dust seals for any cracks, tears, or excessive wear.

Periodic Maintenance (Monthly/Quarterly):

- **Check Air Pressure:** Verify and adjust the air pressure to your preferred setting.
- **Inspect Fasteners:** Ensure all bolts and fasteners (e.g., brake caliper bolts, axle skewer) are tightened to the correct torque specifications.
- **Cable Inspection:** Check the remote lockout cable for fraying, corrosion, or excessive friction. Replace if necessary.

Annual Service:

For comprehensive maintenance, including oil changes and seal replacement, it is recommended to have your fork serviced by a professional bicycle mechanic annually or after approximately 100 hours of riding, whichever comes first.

TROUBLESHOOTING

This section addresses common issues you might encounter with your suspension fork.

Problem	Possible Cause	Solution
Fork feels too stiff or doesn't use full travel	Too much air pressure; compression damping set too high	Reduce air pressure; decrease compression damping.
Fork feels too soft or bottoms out easily	Too little air pressure; compression damping set too low	Increase air pressure; increase compression damping.
Fork rebounds too slowly (packs down)	Rebound damping set too high (slow)	Decrease rebound damping (faster).
Fork rebounds too quickly (harsh top-out)	Rebound damping set too low (fast)	Increase rebound damping (slower).
Remote lockout not engaging/disengaging	Cable tension incorrect; cable frayed or stuck; mechanism dirty	Adjust cable tension; inspect and replace cable if needed; clean lockout mechanism.

WARRANTY AND SUPPORT

For specific warranty information regarding your Boartechs X1 27.5 Remote120MM Mountain Bike Suspension Fork, please refer to the documentation provided at the time of purchase or contact Boartechs customer support directly. Keep your proof of purchase for any warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact Boartechs customer service through their official channels.