

NANLIO ENIX

NANLIO ENIX MTB Bicycle Air Suspension Fork User Manual

Models: 26, 27.5, 29 Inch Straight/Tapered Steerer

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your NANLIO ENIX MTB Bicycle Air Suspension Fork. Please read this manual thoroughly before using the product to ensure safe and optimal performance. This fork is designed for mountain bikes and features a magnesium alloy construction with an air suspension system, available for 26, 27.5, and 29-inch wheel sizes.

2. PRODUCT FEATURES

- **Material:** High-quality Magnesium Alloy and Aluminum construction for durability and lightweight performance.
- **Suspension Type:** Oil and Gas Fork (Air Resilience/Oil Damping) for smooth travel and rebound.
- **Travel:** 100mm actual active stroke (120mm exposed stroke).
- **Wheel Size Compatibility:** Available for 26, 27.5, and 29-inch wheels.
- **Brake Compatibility:** Designed for Disc Brakes.
- **Steerer Options:** Available with Straight (28.6*30*221mm) or Tapered (28.6*39.8*258mm) steerer tubes.
- **Lockout Options:** Manual Lockout (LO) on the crown or Remote Lockout (RL) for on-the-fly adjustments.
- **Independent U-shaped Design:** Enhances stability and safety.
- **Stroke Scale Mark:** Self-contained travel scale mark for easy sag and travel measurement.

26 Inches

STRAIGHT REMOTE

W: 1700g±50g

QR

120MM
STROKE HEIGHT

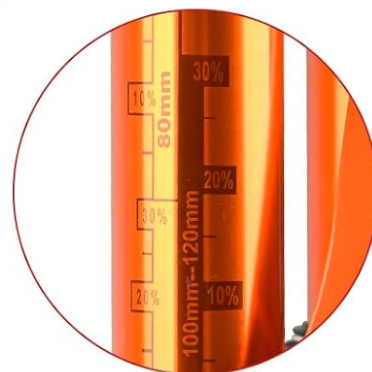


Image 2.1: NANLIO ENIX Air Suspension Fork (26 Inch Straight Remote model shown). This image highlights the 120mm stroke height, the NANLIO branding, the stroke scale, and the remote lockout lever.

3. SPECIFICATIONS

Feature	Specification
Brand	NANLIO
Model Number	ENIX
Wheel Size Compatibility	26 inch, 27.5 inch, 29 inch
Suspension Type	Air Resilience / Oil Damping

Feature	Specification
Material	Magnesium Alloy (Lower Leg), Aluminum (Stanchions, Crown, Steerer)
Travel	100mm (actual active stroke), 120mm (exposed stroke)
Axle Type	9mm Quick Release
Brake Type	Disc Brake
Steerer Tube Diameter	28.6mm (1-1/8 inch)
Steerer Tube Length	Straight: 221mm; Tapered: 258mm
Stanchion Diameter	32mm
Lower Leg Diameter	38mm
Lockout Options	Manual Lockout (LO) / Remote Lockout (RL)
Approximate Weight	1700g ± 50g (for 26 inch model)

4. SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. If you are unsure about any step, it is highly recommended to seek assistance from a qualified bicycle mechanic.

4.1 Pre-Installation Check

- Verify that the fork's steerer tube type (straight or tapered) and length are compatible with your bicycle frame.
- Ensure the fork's wheel size (26, 27.5, or 29 inch) matches your wheel.
- Inspect the fork for any visible damage from shipping.

4.2 Installation Steps (Overview)

1. **Remove Old Fork:** Carefully remove your existing fork, headset components, and front wheel.
2. **Prepare Steerer Tube:** If necessary, cut the new fork's steerer tube to the appropriate length for your frame and stem, allowing for headset stack height and spacers. Use a proper cutting guide for a straight cut.
3. **Install Crown Race:** Install the crown race onto the base of the steerer tube.
4. **Install Fork:** Insert the steerer tube through the head tube of your frame. Install headset bearings, spacers, and stem.
5. **Install Top Cap and Bolt:**Secure the top cap and bolt to preload the headset bearings.
6. **Tighten Stem Bolts:** Align the stem with the front wheel and tighten the stem clamp bolts to the manufacturer's recommended torque specifications.
7. **Install Front Wheel:** Mount your front wheel into the fork dropouts, ensuring the quick release skewer is properly tightened.
8. **Install Brake Caliper:** Attach your disc brake caliper to the fork's post mounts and align it correctly with the rotor.

Important: Always refer to your bicycle frame and component manufacturers' instructions for specific torque values and compatibility guidelines.

5. OPERATING INSTRUCTIONS

5.1 Air Pressure Adjustment

The NANLIO ENIX fork uses an air spring, allowing you to adjust the fork's firmness to your weight and riding style. The air valve is located under a red cap on the top of one of the fork legs.

- **Access Valve:** Unscrew the red 'AIR' cap on the top of the fork leg to expose the Schrader valve.
- **Connect Pump:** Attach a high-pressure shock pump (not a standard tire pump) to the valve.
- **Adjust Pressure:** Add or release air pressure gradually. Consult the fork's stanchion markings or a separate sag guide for recommended pressure settings based on rider weight. A common starting point is to set sag to 15-25% of the total travel.
- **Disconnect Pump:** Remove the pump and replace the red 'AIR' cap securely.

Independent U-shaped design



Independent U-shaped design, slows down the impact, makes the foot more stable and has a higher safety factor.

Smoother travel response
Lubricated for All Terrain XC



Image 5.1: Close-up view of the red 'AIR' cap, which covers the Schrader valve for air pressure adjustment.



Image 5.2: The stroke scale mark on the fork stanchion, used to measure sag and total travel.

5.2 Lockout Function

The lockout feature allows you to stiffen the fork, reducing suspension movement for more efficient pedaling on smooth terrain or climbs.

- **Manual Lockout (LO):** If your fork has a manual lockout, turn the lever located on the top of the fork crown clockwise to engage the lockout and counter-clockwise to disengage.
- **Remote Lockout (RL):** For models with remote lockout, press the lever on your handlebar to engage or disengage the lockout. Ensure the cable tension is correctly adjusted for smooth operation.

Note: Avoid riding with the fork locked out on rough terrain, as this can damage the internal components.

6. MAINTENANCE

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

6.1 Cleaning

- After each ride, especially in dirty or wet conditions, wipe down the stanchions (the shiny upper tubes) with a clean, soft cloth.
- Use mild soap and water to clean the rest of the fork. Avoid high-pressure washers directly on seals.
- Ensure no dirt or debris accumulates around the dust seals at the top of the lower legs.

6.2 Inspection

- Regularly check for any signs of oil leakage around the seals.
- Inspect the stanchions for scratches or damage, which can compromise seal integrity.
- Check all bolts (brake caliper, stem, axle) for proper tightness.
- Ensure the quick release skewer is secure.

6.3 Air Pressure Check

- Check your fork's air pressure before every few rides, or at least once a month, using a high-pressure shock pump.
- Adjust as necessary to maintain your desired sag and performance.

6.4 Lubrication

- The fork features a premium Teflon coating and organic polymer materials for improved wear resistance and lubrication.
- For optimal performance, periodic professional servicing, including lower leg service and oil changes, is recommended. Consult a bike mechanic for service intervals.

7. TROUBLESHOOTING

Here are some common issues and potential solutions:

- **Fork feels too soft or bottoms out easily:**
 - Check and increase air pressure using a shock pump.
 - Ensure the air valve cap is securely tightened.
- **Fork feels too stiff or doesn't use full travel:**
 - Check and decrease air pressure using a shock pump.
 - Ensure the lockout is fully disengaged.
- **Lockout not engaging or disengaging properly:**
 - For remote lockout, check cable tension and ensure the cable is not frayed or stuck.
 - For manual lockout, ensure the lever is fully turned.
 - Inspect for any debris obstructing the mechanism.
- **Unusual noises (creaking, clunking):**
 - Check headset for proper adjustment and tightness.
 - Ensure all bolts (stem, axle, brake caliper) are tightened to specifications.
 - If noises persist, professional inspection is recommended.
- **Oil leakage around seals:**

- A small amount of oil residue is normal, but significant leakage indicates worn seals.
- Seek professional service for seal replacement.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact a qualified bicycle mechanic or NANLIO customer support.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The NANLIO ENIX Air Suspension Fork comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. This warranty does not cover damage due to improper installation, misuse, neglect, accidents, modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, warranty claims, or spare parts inquiries, please refer to the contact information provided by your retailer or the official NANLIO website. When contacting support, please have your product model number (ENIX) and proof of purchase readily available.

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Question

Details

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