



[Manuals.plus](#) /

› [MEROCA](#) /

› MEROCA HLT-H5 Air Pressure Rear Shock Absorber User Manual (165mm)

## MEROCA HLT-H5

# MEROCA HLT-H5 Air Pressure Rear Shock Absorber User Manual

Model: HLT-H5 | Brand: MEROCA | Length: 165mm

## INTRODUCTION

---

This manual provides essential information for the proper installation, operation, and maintenance of your MEROCA HLT-H5 Air Pressure Rear Shock Absorber. Please read this manual thoroughly before use to ensure optimal performance, safety, and longevity of your product.



Image: MEROCA HLT-H5 Air Pressure Rear Shock Absorber, main product view.

## PRODUCT FEATURES

- **Air Pressure Adjustment:** The HLT-H5 utilizes air as the main shock absorber, allowing for precise pressure adjustments to provide a customized and effective damping effect during riding.
- **DU Self-Lubricating Bushings:** Features DH turning point bushings with excellent lubrication and wear resistance, ensuring a low friction coefficient and extended service life.
- **Sealing Design:** An integrated sealing design effectively prevents moisture and sediment from

entering the internal components, enhancing durability and performance.

- **Precise Internal Structure:** Engineered with a simple yet precise internal structure to effectively alleviate violent vibrations, contributing to a smoother ride.
- **Lightweight and Stable:** Designed to be lightweight yet stable, minimizing added weight to your bicycle while maintaining robust performance.
- **Versatile Application:** Suitable for a wide range of bicycles including mountain bikes, scooters, and soft-tail frames with rear shock absorbers.



Image: Diagram illustrating key features of the MEROCA HLT-H5 shock absorber, including air pressure adjustment, sealing, and DU bushings.

## PRODUCT SPECIFICATIONS

Feature	Value
Brand	MEROCA
Model	HLT-H5
Auto Part Position	Rear
Vehicle Service Type	Bicycle, Scooter
Material	Aluminum
Extended Length	165 Millimeters
Item Weight	12.2 ounces
Package Dimensions	8.78 x 8.74 x 1.89 inches
UPC	738812595383



Image: Detailed dimensions of the MEROCA HLT-H5 Air Pressure Rear Shock Absorber, showing the 165mm length and other measurements.

## SETUP AND INSTALLATION

**Important Safety Note:** Professional installation is recommended. Ensure all components are securely fastened before riding. Incorrect installation can lead to product failure and injury.

- Preparation:** Gather all necessary tools, including appropriate hex keys for your bike's mounting bolts and a high-pressure shock pump.
- Remove Old Shock (if applicable):** Carefully detach the existing rear shock from your bicycle frame. Note the orientation and any spacers used.
- Install New Shock:** Align the MEROCA HLT-H5 shock absorber with the mounting points on your frame. Insert the provided bolts and secure them firmly. Do not overtighten.
- Initial Air Pressure Setting:** The shock absorber is factory-set with an initial air pressure of approximately 100 PSI.
- Adjust Air Pressure:** Using a compatible shock pump, adjust the air pressure to suit your weight and riding style. Refer to the 'Operating Instructions' section for detailed adjustment guidance.
- Check for Clearance:** Before riding, ensure the shock absorber has adequate clearance from other bike components (e.g., frame, tires, cables) throughout its full range of travel.



Image: Close-up view of the air valve on the MEROCA HLT-H5 shock absorber, used for pressure adjustment.

Video: Overview of the MEROCA H5 Rear Shock Absorber, demonstrating its features and general application. (Source: MEROCA)

## OPERATING INSTRUCTIONS

---

The MEROCA HLT-H5 allows for air pressure adjustment to customize your ride's comfort and performance. Proper adjustment is crucial for optimal shock absorption.

### Air Pressure Adjustment

1. **Determine Sag:** Sag is the amount the shock compresses under your body weight. To measure, sit on your bike in your normal riding position (with all riding gear). Have someone measure the exposed shaft length. Then, lift yourself off the bike and measure the full exposed shaft length. The difference is your sag.
2. **Increase Pressure:** If the sag is too much (shock compresses too easily), connect a shock pump to the air valve and add air in small increments.
3. **Decrease Pressure:** If the sag is too little (shock feels too stiff), carefully press the valve core to release air in small increments.

4. **Test and Refine:** Ride the bike on varied terrain and make small adjustments until you achieve the desired feel and performance. Optimal sag typically ranges from 20-30% of the shock's total travel, depending on riding style and terrain.

**CAUTION: Do not exceed 180 PSI when adjusting the air pressure. Exceeding this limit may cause excessive air pressure and damage the cylinder.**



Image: Detailed view of the air valve and cap on the MEROCA HLT-H5, indicating the point of air pressure adjustment.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MEROCA HLT-H5 shock absorber.

- **Regular Cleaning:** Keep the shock absorber clean from dirt, mud, and debris. Use a soft cloth and mild, non-abrasive soap with water. Avoid using high-pressure washers directly on seals or the air valve.
- **Inspect Seals:** Periodically check the external sealing rings for any signs of wear, cracking, or damage. Damaged seals can lead to air leaks or contamination.
- **Lubrication:** The DU self-lubricating bushings require minimal maintenance. However, ensure the exposed shaft (stanchion) remains clean and free of grit. A small amount of suspension-specific lubricant can be applied to the shaft if it appears dry, but avoid petroleum-based lubricants.
- **Pressure Check:** Regularly check the air pressure (e.g., before each ride or weekly) and adjust as needed to maintain your desired sag and performance.

- **Storage:** Store your bicycle in a clean, dry environment away from extreme temperatures and direct sunlight.



Image: Close-up showing the DU self-lubricating bushing and the sealing design of the MEROCA HLT-H5 shock absorber.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your MEROCA HLT-H5 Air Pressure Rear Shock Absorber.

Problem	Possible Cause	Solution
Shock feels too stiff	Air pressure too high, Incorrect sag setting	Reduce air pressure using a shock pump, Adjust sag according to operating instructions
Shock bottoms out easily	Air pressure too low, Incorrect sag setting	Increase air pressure using a shock pump, Adjust sag according to operating instructions

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Air leaks from valve	Loose valve cap, Damaged valve core	Ensure valve cap is tightened, Replace valve core if damaged
Excessive play/movement	Loose mounting bolts, Worn bushings	Check and tighten mounting bolts to recommended torque, Inspect and replace bushings if worn
Shock feels "sticky" or not smooth	Dirt/debris on shaft, Dry seals	Clean shaft and seals thoroughly, Apply a small amount of suspension-specific lubricant to the shaft

## **WARRANTY AND SUPPORT**

---

MEROCA products are manufactured to high standards and undergo rigorous quality control. For specific warranty details, terms, and conditions, please refer to the official MEROCA website or contact their customer service directly. It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, product information, or to explore other MEROCA products, please visit the official MEROCA store on Amazon:

[MEROCA Store on Amazon](#)