Ohlins S36PR1C1L

Ohlins HO819 S36PR1C1L Shock Absorber User Manual

Model: S36PR1C1L (HO819)

1. Product Overview

The Ohlins HO819 S36PR1C1L Shock Absorber is engineered to enhance the performance and comfort of your motorcycle. This model is specifically designed for certain bike applications, ensuring optimal fit and function.
This shock absorber features a single tube design with a 36mm piston diameter and is a monotube high-pressure gas type with an internal reservoir in the main body. It offers adjustable rebound damping and adjustable length, allowing for fine-tuning to suit riding conditions and rider preferences.
Compatibility:

- 2019-2021 HON Monkey
- 2019-2023 HON Monkey ABS



Image 1.1: Two Ohlins HO819 S36PR1C1L Shock Absorbers. The image displays two identical shock absorbers, each featuring a bright yellow coil spring, a silver main body, and a gold-colored external reservoir with the "ÖHLINS" logo. The top and bottom mounting points are visible, with the bottom featuring a black and blue adjustment mechanism.

2. Key Features

- **Tailor-Made Design:** Each shock absorber model is specifically designed for a particular bike, ensuring optimal performance and fit.
- **Single Tube Construction:** Utilizes a robust single tube design for consistent performance.
- **36mm Piston Diameter:** Features a 36mm piston for effective damping.
- **Monotube High-Pressure Gas Type:** Incorporates an internal reservoir within the main body for reliable operation.
- **Adjustable Rebound Damping:** Allows for precise control over the shock's extension speed, with an adjuster wheel located on the end-eye or reservoir.
- **Adjustable Length:** Provides the ability to fine-tune the overall length of the shock absorber, impacting ride height and geometry.

3. Specifications

Attribute	Value
Brand	Ohlins
Model	S36PR1C1L Shock Absorber
OEM Part Number	HO819
Auto Part Position	Rear Lower
Vehicle Service Type	Motorcycle
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	10.3 pounds
Product Dimensions	24 x 8 x 4 inches
Country of Origin	Sweden
Piston Diameter	36mm
Damping Type	Adjustable Rebound
Reservoir Type	Monotube High-Pressure Gas with Internal Reservoir

4. Setup and Installation

Installation of the Ohlins HO819 S36PR1C1L Shock Absorber requires mechanical knowledge and specialized tools. For optimal safety and performance, it is highly recommended that installation be performed by a qualified motorcycle technician or an authorized Ohlins service center.

4.1. Pre-Installation Checks

- Verify that the shock absorber model (HO819 S36PR1C1L) is correct for your specific motorcycle model and year (e.g., HON Monkey 2019-2023).
- Inspect the shock absorber for any signs of shipping damage.
- Ensure all necessary mounting hardware is present.

4.2. General Installation Steps (Professional Installation Recommended)

1. Secure the motorcycle on a suitable stand to ensure stability and allow the rear wheel to hang freely.
2. Carefully remove the original shock absorber(s), noting the orientation and any spacers.
3. Install the Ohlins shock absorber, ensuring proper alignment of the mounting eyes with the vehicle's mounting points.
4. Tighten all mounting bolts to the torque specifications provided in your motorcycle's service manual. Do not overtighten.
5. Perform initial adjustments as per the Ohlins general setup guide or specific motorcycle recommendations.
6. Before riding, ensure all fasteners are secure and there is no interference with other motorcycle components.

5. Operating and Adjustments

The Ohlins HO819 S36PR1C1L shock absorber offers adjustable features to fine-tune your motorcycle's handling and ride comfort. Always make adjustments incrementally and test the changes in a safe environment.

5.1. Rebound Damping Adjustment

Rebound damping controls the speed at which the shock absorber extends after being compressed. This adjustment helps prevent the wheel from "kicking back" after hitting a bump and maintains tire contact with the road.

- The rebound damping adjuster wheel is typically located on the end-eye or the reservoir.
- Turning the adjuster clockwise generally increases damping (slower rebound), while turning it counter-clockwise decreases damping (faster rebound).
- Refer to the specific Ohlins setup guide for your motorcycle for recommended initial settings.

5.2. Length Adjustment

The adjustable length feature allows you to modify the overall length of the shock absorber, which can affect the motorcycle's ride height and steering geometry. This adjustment should be made with caution as it impacts handling characteristics.

- Length adjustment is typically performed by rotating a threaded section of the shock body or end-eye.
- Increasing the length will raise the rear of the motorcycle, while decreasing it will lower it.
- Always ensure that the minimum thread engagement is maintained for safety.
- It is advisable to consult a professional when making significant length adjustments.

6. Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your Ohlins shock absorber.

- **Cleaning:** Keep the shock absorber clean, especially the shaft and seals. Use mild soap and water, avoiding harsh chemicals that could damage seals or finishes.
- **Inspection:** Periodically inspect the shock for any signs of oil leaks, damage to the shaft, springs, or mounting points. Check for loose fasteners.
- **Service Intervals:** Ohlins shock absorbers require periodic servicing, including oil changes and seal replacement, to maintain peak performance. Refer to the official Ohlins service manual or consult an authorized service center for recommended service intervals based on usage.
- **Storage:** If storing the motorcycle for an extended period, ensure the shock absorber is clean and stored in a dry environment.

7. Troubleshooting

This section provides general guidance for common issues. For complex problems, always consult a qualified technician.

Problem	Possible Cause	Solution
Poor Ride Comfort / Harshness	Incorrect damping settings, worn components, improper spring preload.	Adjust rebound damping. Check spring preload. Inspect for wear and tear. Consider professional service.
Excessive Bouncing / Lack of Control	Insufficient damping (too fast rebound), low fluid level.	Increase rebound damping. If problem persists, professional inspection is required.
Oil Leaks	Damaged seals, worn shaft.	Stop using the shock immediately. Requires professional repair or seal replacement.
Unusual Noises	Loose mounting bolts, internal damage.	Check all mounting bolts for proper torque. If noise persists, seek professional diagnosis.

8. Warranty and Support

Ohlins products are manufactured to high standards and typically come with a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty documentation included with your purchase or visit the official Ohlins website.
For technical support, service, or genuine Ohlins spare parts, please contact an authorized Ohlins dealer or service center. You can find contact information and a list of authorized partners on the official Ohlins website: www.ohlins.com

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