

OHLINS S46DR1LS, KA740

OHLINS S46DR1LS Blackline Rear Shock Absorber User Manual

Model: S46DR1LS, KA740

1. INTRODUCTION

Thank you for choosing the OHLINS S46DR1LS Blackline Rear Shock Absorber. This manual contains important information regarding the proper installation, adjustment, and maintenance of your new suspension component. To ensure optimal performance and safety, please read this manual thoroughly before installation and operation. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The OHLINS S46DR1LS Blackline Rear Shock Absorber is a high-performance suspension unit designed to enhance the ride quality and handling of your motorcycle. It features a large-diameter single-tube design, which contributes to its consistent damping characteristics. The shock is equipped with advanced adjustment capabilities to fine-tune your motorcycle's suspension for various riding conditions and preferences.



Figure 2.1: OHLINS S46DR1LS Blackline Rear Shock Absorber with remote reservoir.

3. KEY FEATURES

- **Large-Diameter Single-Tube Design:** Ensures consistent and effective damping performance.
- **Hydraulic Remote Preload Adjustment:** Allows for easy and precise adjustment of spring preload, accommodating different loads or riding styles.
- **40-Step Rebound Damping Adjustment:** Provides extensive control over the shock's rebound characteristics, enabling fine-tuning for various road conditions.
- **Length Adjustment:** Offers +/- 4mm/-2mm of length adjustment, allowing for ride height tuning.
- **Minimized Friction:** Engineered with low-friction components for smooth initial movement and consistent damping response.
- **Durable Construction:** Built with high-quality aluminum and steel components for longevity and reliability.

4. COMPATIBILITY

This OHLINS S46DR1LS Blackline Rear Shock Absorber is specifically designed for the following motorcycle models:

- Kawasaki Z900RS [ZR900C] (Model Years: 2018-2020)
- Kawasaki Z900RS CAFE [ZR900E] (Model Years: 2018-2020)

Ensure your motorcycle model and year match the listed compatibility before attempting installation.

5. SETUP AND INSTALLATION

Installation of the OHLINS S46DR1LS Blackline Rear Shock Absorber requires specialized tools and technical knowledge. It is highly recommended that installation be performed by a qualified motorcycle technician or an authorized OHLINS service center.

5.1 Pre-Installation Checks

- Verify all components are present and undamaged.
- Ensure the shock absorber matches your motorcycle's specifications.
- Read the entire manual before beginning the installation process.

5.2 Installation Procedure (General Guidelines)

1. Safely secure the motorcycle on a suitable stand, ensuring stability.
2. Remove the original rear shock absorber according to your motorcycle's service manual.
3. Install the OHLINS shock absorber, ensuring proper orientation and alignment of mounting points.
4. Torque all fasteners to the specifications provided in your motorcycle's service manual.
5. Mount the remote preload adjuster in an accessible and secure location, ensuring the hose is not kinked or stressed.
6. Perform initial adjustments as described in Section 6.



Figure 5.1: Close-up view of the OHLINS shock absorber's top mounting point, showing the brand logo.



Figure 5.2: Detailed view of the OHLINS shock absorber's lower mounting point and adjustment mechanism.

6. OPERATING AND ADJUSTMENTS

The OHLINS S46DR1LS shock absorber offers several adjustment options to optimize your motorcycle's handling and comfort.

6.1 Preload Adjustment

The hydraulic remote preload adjuster allows for quick changes to the spring preload. Turning the adjuster knob clockwise increases preload (stiffens the spring), while turning it counter-clockwise decreases preload (softens the spring). The standard preload setting is 4mm.



Figure 6.1: The remote hydraulic preload adjuster unit, allowing for convenient spring preload adjustments.

6.2 Rebound Damping Adjustment

The rebound damping adjuster controls the speed at which the shock extends after compression. This shock features 40 clicks of adjustment. Turning the adjuster clockwise increases rebound damping (slower extension), and counter-clockwise decreases it (faster extension). The standard rebound adjustment is 14/40 clicks.

6.3 Length Adjustment

The shock's overall length can be adjusted by +4mm to -2mm. This adjustment affects the motorcycle's ride height and geometry. Consult a professional for proper length adjustment to avoid adverse handling characteristics.

7. MAINTENANCE

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

- **Cleaning:** Keep the shock absorber clean from dirt, dust, and road grime. Use mild soap and water, then rinse thoroughly. Avoid high-pressure washers directly on seals.
- **Inspection:** Periodically inspect the shock for any signs of oil leaks, damage to the shaft, spring, or mounting points. Check for loose fasteners.
- **Service:** OHLINS shock absorbers require periodic service by an authorized service center. The service interval depends on usage (e.g., street vs. track). Refer to OHLINS' official guidelines for recommended service intervals.

- **Storage:** If storing the motorcycle for an extended period, ensure the shock is clean and dry.

8. TROUBLESHOOTING

If you experience issues with your OHLINS shock absorber, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Poor ride comfort / Too stiff	Too much preload, too much damping (rebound/compression)	Reduce preload, reduce damping settings.
Excessive bottoming out / Too soft	Insufficient preload, too little damping	Increase preload, increase damping settings.
Bouncy ride / Lack of control	Too little rebound damping	Increase rebound damping.
Harsh ride / Packing down	Too much rebound damping	Decrease rebound damping.
Oil leakage	Damaged seal, internal issue	Contact an authorized OHLINS service center for inspection and repair. Do not operate with oil leaks.

For persistent issues or problems not listed here, contact an authorized OHLINS service center or your dealer.

9. SPECIFICATIONS

Specification	Value
Manufacturer	OHLINS
Model Name	Z900RS/CAFE 18-20
Product Model Number	KA740
Package Dimensions	50 x 30 x 20 cm
Product Weight	5 Kilograms
Position	Rear
Color	Black
Overall Length	350mm
Length Adjustment	+4mm / -2mm
Stroke	69mm
Spring Free Length	190mm

Specification	Value
Standard Spring Rate	100N/mm
Standard Preload	4mm
Standard Rebound Adjustment	14/40 clicks
Material	Aluminum, Steel
Compatible Vehicle Type	Motorcycle, Vehicle Specific Fit

10. WARRANTY AND SUPPORT

OHLINS products are manufactured to the highest standards and come with a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official OHLINS website.

For technical support, service, or genuine OHLINS spare parts, please contact your authorized OHLINS dealer or an OHLINS service center. Using non-genuine parts or unauthorized service may void your warranty and compromise product performance and safety.

No official product videos were available from the seller for inclusion in this manual.

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