

## OHLINS S36PR1C1LB

# OHLINS Rear Suspension S36PR1C1LB Instruction Manual

For Harley-Davidson Dyna Glide Family (1991-2005)

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, adjustment, maintenance, and troubleshooting of your OHLINS S36PR1C1LB Rear Suspension unit. To ensure optimal performance and safety, please read these instructions carefully before installation and use. This suspension is designed specifically for Harley-Davidson Dyna Glide Family motorcycles manufactured between 1991 and 2005.

## 2. SAFETY INFORMATION

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- **Professional Installation Recommended:** Installation of suspension components requires specialized tools and knowledge. It is highly recommended that this product be installed by a qualified motorcycle technician.
- **Read Entire Manual:** Before attempting any installation or adjustment, thoroughly read and understand all instructions.
- **Vehicle Compatibility:** Ensure this suspension model is compatible with your specific motorcycle make, model, and year. Incorrect fitment can lead to severe safety hazards.
- **Torque Specifications:** Always adhere to the motorcycle manufacturer's torque specifications for all fasteners.
- **Regular Inspection:** Periodically inspect the suspension for any signs of wear, damage, or leaks. Do not operate the motorcycle with damaged suspension components.
- **No Modifications:** Do not modify the suspension unit. Unauthorized modifications can compromise safety and performance, and will void the warranty.

## 3. PRODUCT OVERVIEW

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The OHLINS S36PR1C1LB rear suspension is a high-performance shock absorber featuring a 36mm piston diameter and a piggyback reservoir. It offers multiple adjustment capabilities to fine-tune your motorcycle's handling and ride comfort.



Image: Two OHLINS S36PR1C1LB rear suspension units, featuring gold piggyback reservoirs, black springs, and silver main bodies. The units are shown angled, highlighting their construction and adjusters.

### Key Features:

- **S36PR1C1LB Type:** Single tube shock absorber with a 36mm piston, piggyback reservoir, adjustable rebound damping, adjustable compression damping, and adjustable spring preload.
- **Adjustable Rebound Damping:** Allows control over the extension speed of the shock absorber.

- **Adjustable Compression Damping:** Allows control over the compression speed of the shock absorber.
- **Adjustable Spring Preload:** Enables setting the initial sag of the suspension.
- **Ride Height Adjustment:** Provides a +/- 5mm adjustment range for vehicle height.
- **Piggyback Reservoir:** Separates oil and gas for consistent damping performance.

## 4. SETUP (INSTALLATION)

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Proper installation is crucial for the performance and safety of your OHLINS suspension. If you are not confident in performing this procedure, seek assistance from a professional motorcycle mechanic.

### General Installation Steps:

1. **Prepare the Motorcycle:** Secure the motorcycle on a suitable stand so that the rear wheel is off the ground and the swingarm can move freely.
2. **Remove Original Shocks:** Carefully remove the original rear shock absorbers, noting the orientation of all components, including washers and spacers.
3. **Spacer Check:** For Dyna Glide Family models, the number of included spacers may vary depending on the specific vehicle. If additional spacers are required for proper fitment, they must be purchased separately (OHLINS part number 3118-19). Ensure correct spacing to prevent interference and ensure proper alignment.
4. **Install OHLINS Shocks:** Mount the OHLINS S36PR1C1LB suspension units, ensuring all bolts are correctly aligned and hand-tightened. Pay attention to the orientation of the piggyback reservoir and adjusters.
5. **Torque Fasteners:** Refer to your motorcycle's service manual for the correct torque specifications for the upper and lower shock mounting bolts. Tighten all fasteners to the specified torque.
6. **Initial Adjustments:** Before riding, set the spring preload, rebound, and compression damping to the recommended base settings provided in the OHLINS documentation (if available) or to a neutral starting point.
7. **Final Check:** Before riding, double-check all fasteners, ensure no cables or hoses are pinched, and verify that the suspension moves freely through its full travel without obstruction.

## 5. OPERATING (ADJUSTMENTS)

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The OHLINS S36PR1C1LB offers several adjustments to tailor the suspension performance to your riding style, load, and road conditions.

### 5.1. Spring Preload Adjustment

Spring preload determines the initial compression of the spring and affects the motorcycle's ride height and sag. Adjusting preload requires a C-spanner (not included) to turn the spring collar.

- **Increase Preload:** Turn the spring collar to compress the spring further. This raises the ride height and reduces sag, suitable for heavier loads or more aggressive riding.
- **Decrease Preload:** Turn the spring collar to release spring compression. This lowers the ride height and increases sag, suitable for lighter loads or a softer ride.
- **Setting Sag:** Consult your motorcycle's service manual or OHLINS guidelines for recommended sag settings. Sag is typically measured as the difference between the suspension's fully extended length and its length with the rider on board.

### 5.2. Rebound Damping Adjustment

Rebound damping controls the speed at which the shock absorber extends after compression. The adjuster is typically a knob or screw located at the bottom of the shock body.

- **Increase Rebound (Slower):** Turn the adjuster clockwise (or as indicated by markings). This slows down the extension, preventing the wheel from 'kicking up' over bumps.
- **Decrease Rebound (Faster):** Turn the adjuster counter-clockwise (or as indicated by markings). This speeds up the extension, allowing the wheel to follow the ground more effectively over successive bumps.

### 5.3. Compression Damping Adjustment

Compression damping controls the speed at which the shock absorber compresses. The adjuster is typically a knob or screw located on the piggyback reservoir.

- **Increase Compression (Firmer):** Turn the adjuster clockwise (or as indicated by markings). This makes the suspension feel firmer, resisting bottoming out under heavy loads or hard braking.
- **Decrease Compression (Softer):** Turn the adjuster counter-clockwise (or as indicated by markings). This makes the suspension feel softer, absorbing small bumps more effectively.

### 5.4. Ride Height Adjustment

The S36PR1C1LB allows for a ride height adjustment of +/- 5mm. This adjustment is typically made by rotating the lower shock eyelet or a dedicated adjuster ring on the shock body. Consult the specific OHLINS documentation for the exact procedure.

- **Adjusting Ride Height:** Loosen the lock ring (if present) and rotate the adjuster to increase or decrease the overall length of the shock.
- **Re-tighten:** Always re-tighten the lock ring after adjustment to prevent unwanted changes during operation.

**Important:** Make small, incremental adjustments and test the motorcycle's handling in a safe environment after each change. Keep a record of your settings.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and consistent performance of your OHLINS suspension.

- **Cleaning:** Keep the shock absorbers clean. Wash them regularly with water and mild soap. Avoid high-pressure washers directly on seals.
- **Inspection:** Periodically inspect the shock bodies, springs, seals, and mounting points for any signs of damage, wear, corrosion, or oil leaks. Check for loose fasteners.
- **Seal Condition:** Pay close attention to the condition of the shaft seals. If oil leakage is observed, the shock requires service.
- **Service Intervals:** OHLINS recommends periodic service by an authorized service center. The exact interval depends on riding conditions and usage, but typically ranges from 20,000 to 40,000 km or every 1-2 years.
- **Storage:** If storing the motorcycle for an extended period, ensure the suspension is clean and free of contaminants.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your suspension. For complex problems, consult an authorized OHLINS service center.

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Poor handling / Instability	Incorrect sag, damping settings too soft/hard, worn tires, incorrect tire pressure.	Adjust spring preload for correct sag. Adjust rebound/compression damping. Check tire condition and pressure.
Harsh ride / Bumps felt excessively	Damping settings too hard, too much spring preload.	Decrease compression and/or rebound damping. Reduce spring preload.
Bouncy ride / Lack of control	Damping settings too soft, insufficient spring preload.	Increase compression and/or rebound damping. Increase spring preload.
Oil leakage from shock	Damaged or worn shaft seal.	Requires professional service to replace seals. Do not ride with leaking shocks.
Unusual noises (clunking, squeaking)	Loose mounting bolts, worn bushings, internal damage.	Check and torque all mounting bolts. Inspect bushings. If noise persists, seek professional inspection.

## 8. SPECIFICATIONS

Feature	Specification
Model Type	S36PR1C1LB
Piston Diameter	36 mm
Free Length	340 mm (13.4 inch)
Rebound Damping Adjustment	Yes
Compression Damping Adjustment	Yes
Spring Preload Adjustment	Yes (Spring Preload Adjuster)
Ride Height Adjustment Range	+5 / -5 mm
Spring Color	Black
Reservoir Type	Piggyback
Compatibility	Harley-Davidson Dyna Glide Family (1991-2005)
Manufacturer Part Number	HD215
Note	Standard length for FXDX models.

## 9. WARRANTY

OHLINS products are manufactured to high standards and come with a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase. For detailed warranty information, refer to the official OHLINS website or contact your authorized OHLINS dealer.

The warranty does not cover damage resulting from improper installation, misuse, neglect, unauthorized modifications, or

normal wear and tear.

## 10. SUPPORT

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For technical assistance, spare parts, or service, please contact your authorized OHLINS dealer or distributor. You can also visit the official OHLINS website for product information, FAQs, and contact details for your region.

**OHLINS Official Website:** [www.ohlins.com](http://www.ohlins.com)