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## Ohlins SD 001

# Ohlins SD 001 Steering Damper User Manual

Model: SD 001 | Brand: Ohlins

## INTRODUCTION

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The Ohlins SD 001 Steering Damper is designed to enhance vehicle stability and control, particularly for street-sport motorcycles. It effectively manages unwanted steering oscillations, providing a smoother and safer riding experience. The damper's advanced design ensures consistent performance by keeping the internal oil under pressure, preventing free play and maintaining optimal damping characteristics.

This manual provides essential information for the proper installation, operation, and maintenance of your Ohlins SD 001 Steering Damper. Please read it thoroughly before installation and use.

## SAFETY INFORMATION

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**Warning:** Improper installation or adjustment of the steering damper can lead to loss of control and serious injury or death. Always ensure the damper is installed by a qualified technician if you are unsure of the procedure.

- Always wear appropriate safety gear when working on or operating a motorcycle.
- Ensure the motorcycle is stable and securely supported before beginning any installation or maintenance.
- Do not modify the steering damper. Any modifications can compromise its performance and safety.
- Regularly inspect the damper and its mounting hardware for signs of wear, damage, or looseness.
- Keep hands and clothing clear of moving parts during installation and operation.

## WHAT'S IN THE BOX

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Your Ohlins SD 001 Steering Damper package includes the following components:

- Ohlins SD 001 Steering Damper unit
- Necessary mounting hardware (specific to bike model, if purchased as a kit)
- Instruction manual (this document)

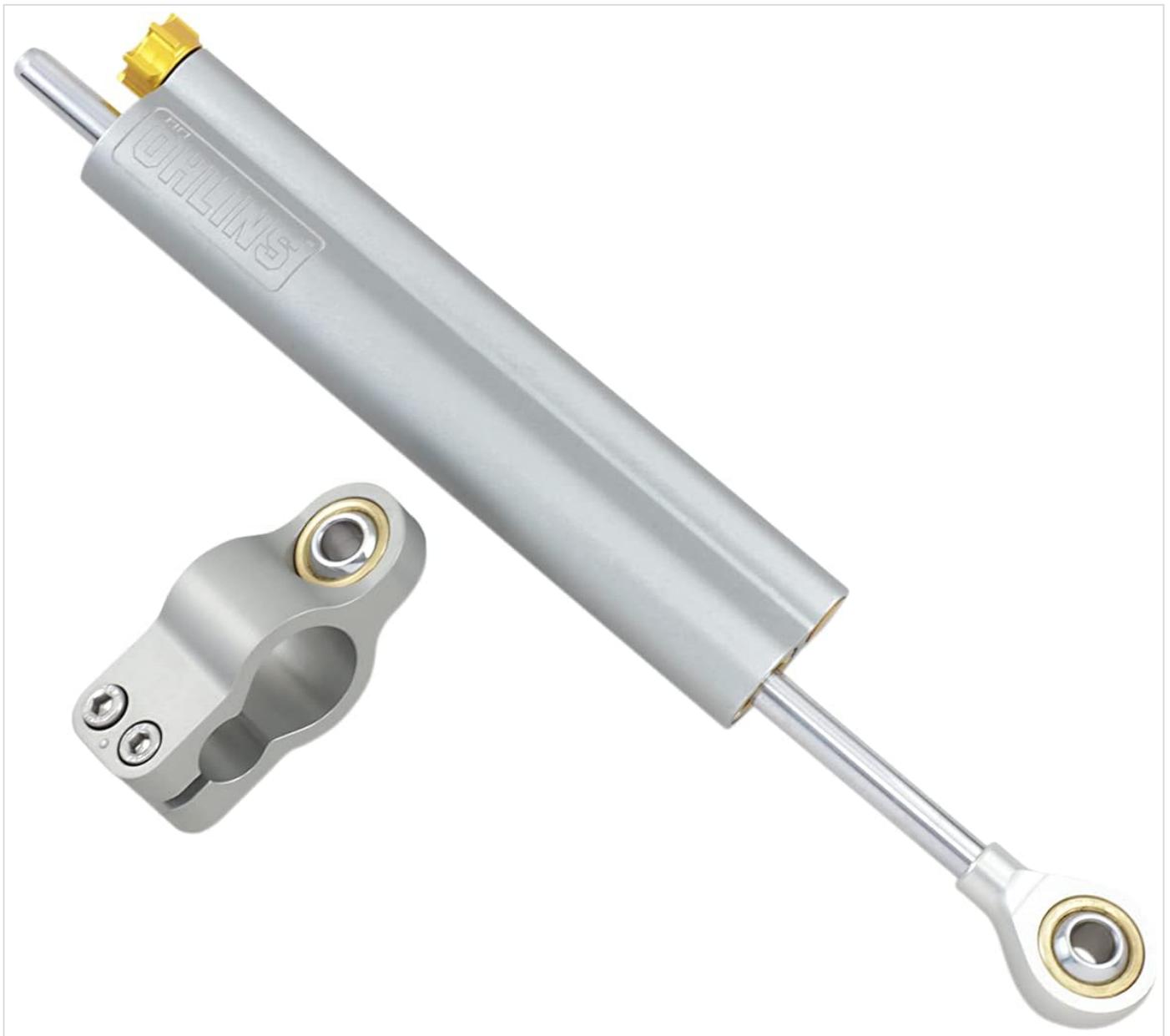


Image: The Ohlins SD 001 Steering Damper, shown with its silver body, gold adjustment knob, and a separate silver mounting clamp. This image illustrates the primary components included in the package.

## SETUP AND INSTALLATION

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Ohlins steering damper kits are designed to come with all necessary mounting hardware for specific bike models. The damper typically mounts across the upper triple clamp. Refer to your specific bike model's installation guide for detailed instructions if provided with a kit.

1. **Prepare the Motorcycle:** Park the motorcycle on a stable, level surface. Ensure the front wheel is off the ground if necessary for access to the triple clamp area.
2. **Identify Mounting Points:** Locate the designated mounting points on your motorcycle's upper triple clamp or frame, as specified by your bike-specific kit instructions.
3. **Attach Mounting Brackets:** Securely attach any provided mounting brackets to the motorcycle using the appropriate fasteners. Ensure all bolts are torqued to the manufacturer's specifications.
4. **Mount the Damper:** Position the Ohlins SD 001 Steering Damper unit onto the mounting brackets. The damper's rod should align correctly with its attachment point.
5. **Secure the Damper:** Fasten the damper to the brackets. Ensure the damper has full, unrestricted movement throughout the steering range without fouling any other components. Check for any binding or interference.

6. **Final Check:** Double-check all fasteners for tightness. Verify that the steering moves freely from lock to lock without obstruction from the damper or its mounting hardware.

*Note:* If you are installing a universal fit damper, custom brackets may be required. Consult a professional for proper installation.

## OPERATION AND ADJUSTMENT

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The Ohlins SD 001 Steering Damper features a base damping system with 18 adjustable settings (clicks) for fine-tuning. These adjustments allow you to customize the damping force to suit various riding conditions and personal preferences.

1. **Locate the Adjustment Knob:** The adjustment knob is typically located at one end of the damper body, often with clear markings for clicks.
2. **Adjust Damping:** Turn the knob clockwise to increase damping force (stiffer steering response) and counter-clockwise to decrease damping force (lighter steering response). Each click represents a distinct adjustment step.
3. **Test and Refine:** After making an adjustment, test the motorcycle's steering response in a safe, controlled environment. Start with a lighter setting and gradually increase damping until the desired stability is achieved without making the steering feel heavy or unnatural.

*Tip:* For track use or aggressive riding, a higher damping setting may be preferred to counteract rapid steering movements. For street riding, a lighter setting might be more comfortable.

## MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Ohlins SD 001 Steering Damper.

- **Regular Inspection:** Periodically inspect the damper body, rod, and mounting points for any signs of leaks, damage, corrosion, or loose fasteners.
- **Cleaning:** Keep the damper clean from dirt, dust, and road grime. Use a soft cloth and mild soap and water. Avoid harsh chemicals or abrasive cleaners.
- **Rod Condition:** Ensure the damper rod is clean and free of scratches or pitting, which can lead to seal damage and leaks.
- **Storage:** If storing the motorcycle for an extended period, ensure the damper is clean and stored in a dry environment.

*Note:* The Ohlins SD 001 Steering Damper is a sealed unit and typically does not require internal servicing by the user. Any internal issues should be addressed by an authorized Ohlins service center.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Steering feels too stiff/heavy	Damping setting is too high.	Decrease the damping setting by turning the adjustment knob counter-clockwise.
Steering feels too loose/unstable	Damping setting is too low.	Increase the damping setting by turning the adjustment knob clockwise.
Damper leaking oil	Damaged seals or internal component.	Discontinue use and contact an authorized Ohlins service center for inspection and repair.

Problem	Possible Cause	Solution
Unusual noises from damper	Loose mounting hardware; internal issue.	Check all mounting bolts for tightness. If noise persists, contact an authorized Ohlins service center.

## SPECIFICATIONS

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**Brand:** Ohlins

**Model:** SD 001

**OEM Part Number:** SD 001

**Material:** Alloy Steel

**Exterior Finish:** Black (Note: Product image shows silver, but specification lists black.)

**Auto Part Position:** Upper

**Vehicle Service Type:** Street-sport motorcycles

**Automotive Fit Type:** Universal Fit (when not part of a specific kit)

**Item Weight:** Approximately 1.21 pounds (0.55 kg)

**Product Dimensions:** Approximately 4 x 5 x 19 inches (10.16 x 12.7 x 48.26 cm)

**Adjustable Settings:** 18 clicks of base damping

**Oil Pressure System:** Keeps oil under pressure to avoid free play

## WARRANTY AND SUPPORT

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Ohlins products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Ohlins website.

For technical support, service, or genuine spare parts, please contact your authorized Ohlins dealer or distributor. Do not attempt to disassemble or repair the damper yourself, as this may void the warranty and compromise safety.

