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## Ohlins YA 419

# Ohlins YA 419 46DRS Shock Absorber User Manual

Model: YA 419

## PRODUCT OVERVIEW

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The Ohlins YA 419 46DRS Shock Absorber is engineered for superior performance in street and road racing applications. Developed from extensive knowledge and experience with top factory race teams globally, this shock absorber delivers exceptional quality and reliability.

Key features include:

- Superior construction utilizing high-quality materials.
- Precision-drawn steel shock body with an aluminum shock reservoir.
- Lightweight, high-strength aluminum shock bodies for race applications.
- Stainless steel braided PTFE hose used with all remote reservoir shocks.
- Durable chrome silicone springs.



Image: The Ohlins YA 419 46DRS Shock Absorber, featuring its distinctive yellow spring and silver body components, designed for high-performance motorcycle suspension.

## SETUP AND INSTALLATION

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Proper installation of your Ohlins shock absorber is crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified technician with experience in motorcycle suspension systems.

### Pre-Installation Checks:

- Ensure the shock absorber model (YA 419) is compatible with your specific motorcycle model and year.
- Inspect the shock for any signs of shipping damage.
- Gather all necessary tools and refer to your motorcycle's service manual for specific torque specifications and procedures.

### Installation Steps (General):

1. Secure the motorcycle on a stable stand, ensuring the rear wheel is off the ground.
2. Carefully remove the original shock absorber, noting the orientation and any spacers.
3. Install the Ohlins YA 419 shock absorber, ensuring all mounting bolts are correctly aligned and tightened to the manufacturer's specified torque.
4. Verify that there is no interference with other components of the motorcycle.
5. Perform initial sag adjustment as per Ohlins recommendations or your motorcycle's specifications.

## OPERATING AND ADJUSTMENT

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The Ohlins YA 419 46DRS shock absorber is designed with adjustability to fine-tune your motorcycle's handling characteristics. Familiarize yourself with the adjustment mechanisms before making changes.

## Key Adjustments:

- **Spring Preload:** Adjusts the initial compression of the spring, affecting ride height and sag.
- **Rebound Damping:** Controls the speed at which the shock extends after compression.
- **Compression Damping:** Controls the speed at which the shock compresses.

Refer to the detailed Ohlins instruction manual provided with your shock absorber for specific adjustment procedures and recommended settings for your riding style and conditions. Always make small, incremental adjustments and test the changes in a safe environment.

## MAINTENANCE

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Regular maintenance ensures the longevity and consistent performance of your Ohlins shock absorber.

### Routine Checks:

- **Cleaning:** Keep the shock absorber clean, especially the shaft and seals, to prevent dirt ingress. Use mild soap and water, avoiding harsh chemicals.
- **Inspection:** Regularly inspect for leaks, damage to the shaft, spring, or mounting points. Check for loose bolts.
- **Bushings/Bearings:** Check the condition of the mounting bushings or bearings for wear.

For internal servicing, such as oil changes or seal replacement, it is strongly recommended to send the shock absorber to an authorized Ohlins service center or a qualified suspension specialist.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with your shock absorber. For complex problems, consult a professional.

Problem	Possible Cause	Solution
Excessive Sag / Bottoming Out	Incorrect spring preload, worn spring, insufficient compression damping.	Increase spring preload. Inspect spring for fatigue. Increase compression damping.
Harsh Ride / Lack of Compliance	Too much compression damping, too much spring preload, incorrect spring rate.	Decrease compression damping. Decrease spring preload. Consider a softer spring if necessary.
Bouncy Ride / Poor Rebound Control	Insufficient rebound damping.	Increase rebound damping.
Oil Leaks	Damaged seals, bent shaft, internal component failure.	Cease use immediately. Contact an authorized Ohlins service center for repair.

## SPECIFICATIONS

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Attribute	Detail
Brand	Ohlins

Attribute	Detail
Model	YA 419
Auto Part Position	Top
Vehicle Service Type	Street-Sport Motorcycles
Exterior Finish	Aluminum, Stainless Steel, Silicone, Chrome, Steel
Material	Aluminum, Stainless Steel, Chrome, Steel
Item Weight	7.1 pounds
Product Dimensions	23 x 10 x 7 inches
Manufacturer Part Number	YA 419

## WARRANTY AND SUPPORT

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Ohlins products are manufactured to the highest standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Ohlins website. For technical support, service, or genuine spare parts, please contact an authorized Ohlins dealer or service center.

**Note:** Unauthorized modifications or improper installation may void your warranty.