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## Ohlins YA537

# OHLINS S46HR1C1S Shock Absorber Instruction Manual

Model: YA537

## INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your Ohlins S46HR1C1S rear shock absorber. Designed specifically for Yamaha MT-09 TRACER 900 / GT models from 2018-2020, this high-performance shock absorber is engineered to enhance your motorcycle's handling and ride comfort. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

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Always prioritize safety when working with motorcycle components. Improper installation or adjustment of suspension components can lead to serious injury or damage. It is highly recommended that installation and initial setup be performed by a qualified motorcycle technician.

- Ensure the motorcycle is securely supported before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not modify the shock absorber. Any modifications can compromise its integrity and performance.
- Regularly inspect the shock absorber for signs of wear, damage, or leaks.
- Refer to your motorcycle's service manual for specific torque specifications and procedures.

## SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your Ohlins shock absorber.

### Pre-Installation Checks

- Verify that the shock absorber model (YA537) is correct for your Yamaha MT-09 TRACER 900 / GT (2018-2020).
- Inspect the shock absorber for any shipping damage.
- Ensure all necessary mounting hardware is present.

### Tools Required (Typical)

- Motorcycle stand or lift
- Socket set and wrenches

- Torque wrench
- Measuring tape or ruler
- Grease

## Installation Steps (General)

1. Secure the motorcycle on a stand, ensuring the rear wheel is off the ground and the swingarm is supported.
2. Carefully remove the original rear shock absorber, noting the orientation of all components.
3. Clean the mounting points on the motorcycle frame and swingarm.
4. Install the Ohlins S46HR1C1S shock absorber, ensuring all bushings and spacers are correctly positioned.
5. Tighten all mounting bolts to the torque specifications provided in your motorcycle's service manual. **Do not overtighten.**
6. Ensure the remote reservoir and hose are routed safely, away from moving parts and heat sources.
7. Lower the motorcycle and perform initial sag adjustments.



Image: The Ohlins S46HR1C1S rear shock absorber, featuring a yellow spring, gold-anodized body, and a remote reservoir connected by a braided hose. This image illustrates the complete assembly of the shock absorber unit.

## Initial Adjustments (Static Sag)

Setting the static sag is a critical first step for optimal suspension performance. This adjustment ensures the shock absorber operates within its ideal travel range.

1. Measure the distance from the rear axle to a fixed point on the motorcycle's tail section with the wheel off the ground (full extension). Record this as Measurement A.
2. Lower the motorcycle to the ground and measure the distance from the rear axle to the same fixed point with the motorcycle resting on its own weight (no rider). Record this as Measurement B.
3. The static sag is Measurement A - Measurement B. Adjust the spring preload collar to achieve the recommended static sag for your motorcycle model (refer to Ohlins documentation or a qualified technician for specific values).

## OPERATING AND FINE-TUNING

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The Ohlins S46HR1C1S shock absorber offers adjustable settings to fine-tune your ride for various conditions and rider preferences.

### Spring Preload

Adjusts the initial compression of the spring, primarily affecting ride height and static sag. Use the supplied C-spanner to turn the preload collar. *Increasing preload reduces sag, while decreasing preload increases sag.*

### Rebound Damping

Controls the speed at which the shock absorber extends after compression. The rebound adjuster is typically located at the bottom

of the shock body. *Turning the adjuster clockwise generally increases damping (slower rebound), and counter-clockwise decreases damping (faster rebound).*

## Compression Damping

Controls the speed at which the shock absorber compresses. The compression adjuster is usually located on the remote reservoir. *Turning the adjuster clockwise generally increases damping (firmer compression), and counter-clockwise decreases damping (softer compression).*

**Note:** Make small adjustments (1-2 clicks at a time) and test the motorcycle's handling after each change. Keep a record of your settings.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal 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 check for oil leaks, damaged seals, bent shafts, or loose mounting bolts. Inspect the spring for cracks or damage.
- **Service Intervals:** Ohlins recommends regular servicing by an authorized service center. Service intervals depend on usage (e.g., street riding vs. track use). Consult your Ohlins dealer for recommended service schedules.
- **Storage:** If storing the motorcycle for an extended period, ensure the shock absorber is clean and dry.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with your shock absorber.

Problem	Possible Cause	Solution
Poor damping / "Bouncy" ride	Insufficient rebound/compression damping; low nitrogen pressure; worn internal components.	Increase rebound/compression damping; have shock serviced by Ohlins authorized center.
Harsh ride / "Stiff" feel	Excessive rebound/compression damping; too much spring preload.	Decrease rebound/compression damping; reduce spring preload.
Oil leakage	Damaged seals; bent shaft.	Immediately cease use and have shock serviced by Ohlins authorized center.
Unusual noises (clunking, squeaking)	Loose mounting bolts; worn bushings; internal damage.	Check mounting bolt torque; inspect bushings; have shock inspected by a professional.

For issues not listed or if solutions do not resolve the problem, contact an authorized Ohlins service center.

## SPECIFICATIONS

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Attribute	Value
Brand	Ohlins
Model Number	YA537 (S46HR1C1S)
Application	YAMAHA MT-09 TRACER 900 / GT (2018-2020)
Part Position	Rear

Attribute	Value
Item Weight	5 Kilograms
Package Dimensions	60 x 30 x 20 cm
Material	Metal
Style	Modern

## WARRANTY AND SUPPORT

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Ohlins products are manufactured to the highest standards and come with a manufacturer's 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 may void your warranty and compromise performance and safety.

*Always provide your product's model number (YA537) and serial number when seeking support.*