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## Ohlins YA013

# OHLINS S46HR1C1S Rear Shock Absorber

Model: YA013 for XT1200Z SUPER TENERE (2010-2012)

Brand: Ohlins

## Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Ohlins S46HR1C1S Rear Shock Absorber. Designed specifically for the Yamaha XT1200Z Super Tenere models from 2010 to 2012, this high-performance suspension component is engineered to enhance your motorcycle's handling and ride comfort. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

## Safety Information

Always prioritize safety when working with motorcycle components. Improper installation or adjustment can lead to serious injury or damage to the motorcycle.

- Ensure the motorcycle is securely supported on a stable stand before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- If you are unsure about any step, consult a qualified motorcycle technician.
- Do not attempt to disassemble the shock absorber. It contains high-pressure gas.
- Refer to your motorcycle's service manual for specific torque specifications and procedures.

## Product Overview

The Ohlins S46HR1C1S is a high-quality rear shock absorber featuring advanced damping technology. Key features include:

- **Extension Side Attenuation Adjustment Function:** Allows fine-tuning of rebound damping.
- **Pressure Side Attenuation Adjustment Function:** Provides control over compression damping.
- **Preload Adjustment Function:** Enables adjustment of spring preload.
- **Hydraulic Spring Preload Adjuster:** For convenient and precise preload adjustments.
- **Piston Diameter:** 46 mm for effective damping.
- **External Reservoir:** Features a hose-connected external tank for consistent performance.




*Figure 1: Ohlins S46HR1C1S Rear Shock Absorber with external reservoir and adjusters. This image shows the main components including the spring, shock body, and remote reservoir connected by a hose.*



*Figure 2: Side view of the Ohlins S46HR1C1S Rear Shock Absorber, highlighting the hose connection to the remote reservoir and the overall compact design.*

## Setup and Installation

Installation of the Ohlins S46HR1C1S shock absorber should be performed by a competent individual or a professional mechanic. The following steps are general guidelines; always refer to your motorcycle's specific service manual for detailed instructions.

1. **Preparation:** Secure the motorcycle on a suitable stand, ensuring the rear wheel is off the ground and stable.

2. **Removal of Old Shock:** Carefully remove the existing rear shock absorber. Note the orientation and any spacers or bushings.
3. **Installation of New Shock:**
    - Position the Ohlins shock absorber in the mounting points.
    - Install the mounting bolts and nuts. Do not fully tighten yet.
    - Mount the remote reservoir in a secure location, ensuring the hose is not kinked or stressed.
4. **Torque Specifications:** Tighten all mounting bolts to the torque specifications provided in your motorcycle's service manual.
5. **Initial Adjustments:** Set the initial spring preload and damping settings as recommended in the Ohlins documentation (if provided separately) or to a neutral starting point.
6. **Final Check:** Before riding, double-check all fasteners for tightness and ensure there is no interference with other motorcycle components.

## Operating and Adjustments

The Ohlins S46HR1C1S shock absorber offers several adjustment capabilities to fine-tune your motorcycle's suspension performance for different riding conditions and rider preferences.

### Spring Preload Adjustment

The hydraulic spring preload adjuster allows you to set the sag of the motorcycle. This is crucial for proper handling and ride height.

- Turn the hydraulic adjuster knob to increase or decrease spring preload.
- Increasing preload will raise the ride height and stiffen the initial part of the suspension travel.
- Decreasing preload will lower the ride height and soften the initial part of the suspension travel.
- Refer to Ohlins' specific guidelines for recommended sag settings.

### Rebound (Extension) Damping Adjustment

Rebound damping controls the speed at which the shock absorber extends after being compressed.

- Locate the rebound damping adjuster (typically a knob or screw on the lower part of the shock body).
- Turning the adjuster clockwise typically increases damping (slower rebound).
- Turning the adjuster counter-clockwise typically decreases damping (faster rebound).
- Adjust to prevent the wheel from "packing down" over successive bumps or "kicking back" too quickly.

### Compression (Pressure) Damping Adjustment

Compression damping controls the speed at which the shock absorber compresses.

- Locate the compression damping adjuster (often on the remote reservoir).
- Turning the adjuster clockwise typically increases damping (firmer compression).
- Turning the adjuster counter-clockwise typically decreases damping (softer compression).
- Adjust to control bottoming out and improve stability over bumps.

*Note:* Make small adjustments one at a time and test the motorcycle's handling after each change. Keep a record of your settings.

## Maintenance

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 inspect the shock for any signs of oil leaks, damage to the shaft, spring, or mounting points. Check hoses and fittings for integrity.
- **Bushings and Bearings:** Check the condition of the mounting bushings and bearings. Replace if there is excessive play or wear.
- **Service Intervals:** Ohlins shock absorbers require periodic servicing (rebuilding) by an authorized service center. Consult Ohlins' official documentation for recommended service intervals based on usage.
- **Storage:** If storing the motorcycle for an extended period, ensure the shock is clean and stored in a dry environment.

## Troubleshooting

This section addresses common issues you might encounter with your shock absorber. For complex problems, contact an authorized Ohlins service center.

| Problem | Possible Cause | Solution |
|---|---|---|
| Poor ride comfort / Harsh ride | Too much compression damping; too much spring preload; incorrect spring rate. | Reduce compression damping; reduce spring preload; consult Ohlins for correct spring rate. |
| Excessive bottoming out | Too little compression damping; too little spring preload; incorrect spring rate. | Increase compression damping; increase spring preload; consult Ohlins for correct spring rate. |
| Rear wheel "kicks back" over bumps | Too much rebound damping. | Reduce rebound damping. |
| Rear wheel "packs down" over bumps | Too little rebound damping. | Increase rebound damping. |
| Oil leakage | Damaged seals; internal component failure. | Contact an authorized Ohlins service center for inspection and repair/rebuild. Do not attempt to repair yourself. |

## Specifications

Technical specifications for the Ohlins S46HR1C1S Rear Shock Absorber:

- **Type:** S46HR1C1S
- **Piston Diameter:** 46 mm (1.8 inches)
- **Tank:** External, hose-connected
- **Adjustments:**
  - Extension (Rebound) Damping
  - Pressure (Compression) Damping
  - Hydraulic Spring Preload
- **Compatible Models:** Yamaha XT1200Z Super Tenere (2010-2012)

- **Manufacturer Part Number:** YA013
- **Item Weight:** Approximately 7.94 kg
- **Package Dimensions:** Approximately 60.2 x 25.6 x 15.4 cm
- **Position:** Rear
- **Exterior Finish:** Black

## Warranty and Support

Ohlins products are manufactured to high standards and typically come with a limited warranty. For specific warranty terms and conditions, please refer to the official Ohlins warranty documentation that accompanied your purchase or visit the official Ohlins website.
For technical support, servicing, or genuine spare parts, it is highly recommended to contact an authorized Ohlins dealer or service center. Using non-genuine parts or unauthorized servicing may void your warranty and compromise performance and safety.
You can find authorized dealers and service centers through the official Ohlins global website:www.ohlins.com


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