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## Ohlins YA339

# Ohlins TTX GP T36PR1C1LB Rear Suspension Instruction Manual

For Yamaha YZF-R6 (2006-2014)

## 1. Introduction

This instruction manual provides essential information for the proper installation, adjustment, and maintenance of your Ohlins TTX GP T36PR1C1LB Rear Suspension. This high-performance shock absorber is specifically designed for the Yamaha YZF-R6 motorcycle models manufactured between 2006 and 2014. Adhering to these instructions will ensure optimal performance, safety, and longevity of your suspension unit. Please read this manual thoroughly before attempting any installation or adjustments.




Image 1: Ohlins TTX GP T36PR1C1LB Rear Suspension unit. This image displays the complete rear suspension unit, featuring the gold-colored reservoir, silver main body, and yellow spring, with visible adjustment knobs.

## 2. Setup and Installation

Proper installation is crucial for the performance and safety of your motorcycle. Ohlins strongly recommends that this suspension unit be installed by an authorized Ohlins service center or a qualified motorcycle technician. Incorrect installation can lead to serious injury or damage to the motorcycle.

### 2.1 Pre-Installation Checks

- Verify that the suspension unit model (YA339) is correct for your Yamaha YZF-R6 (2006-2014).
- Inspect the unit for any signs of shipping damage.
- Ensure all necessary tools and equipment are available.

### 2.2 Installation Procedure (General Guidelines)

1. Secure the motorcycle on a suitable stand, ensuring stability and allowing the rear wheel to be free.
2. Refer to your motorcycle's official service manual for specific instructions on removing the original rear shock absorber.
3. Carefully install the Ohlins TTX GP unit, ensuring all mounting bolts are correctly aligned and torqued to the manufacturer's specifications.
4. Ensure adequate clearance around the suspension unit and its components (e.g., reservoir, adjusters) from other motorcycle parts throughout the full range of suspension travel.
5. Once installed, perform a static sag measurement and adjust the spring preload as necessary (refer to Section 3.3).
6. Double-check all fasteners for proper torque before riding.

## 3. Operating and Adjustments

The Ohlins TTX GP T36PR1C1LB offers multiple adjustment capabilities to fine-tune your motorcycle's handling characteristics. Adjustments should be made incrementally and tested in a safe environment.

### 3.1 Extension Side Attenuation (Rebound Damping)

- **Function:** Controls the speed at which the suspension extends after compression.
- **Adjustment:** Equipped with 25 levels of adjustment. Turning the adjuster clockwise increases damping (slower rebound), counter-clockwise decreases damping (faster rebound).
- **Effect:** Proper rebound damping prevents the wheel from losing contact with the ground after bumps and controls chassis pitch. Too much damping can cause the suspension to pack down; too little can make the bike feel bouncy.

### 3.2 Pressure Side Attenuation (Compression Damping)

- **Function:** Controls the speed at which the suspension compresses.
- **Adjustment:** Equipped with 25 levels of adjustment. Turning the adjuster clockwise increases damping (firmer compression), counter-clockwise decreases damping (softer compression).
- **Effect:** Compression damping affects how the bike handles bumps and how quickly weight transfers during braking and acceleration. Too much damping can make the ride harsh; too little can cause excessive bottoming out.

### 3.3 Preload Adjustment

- **Function:** Adjusts the initial compression of the spring, affecting the ride height and static sag.
- **Adjustment:** Built-in hydraulic spring preload adjuster. Consult your Ohlins dealer or service manual for specific instructions on using the hydraulic adjuster.
- **Effect:** Correct preload ensures the suspension operates within its optimal travel range and maintains proper chassis geometry.

### 3.4 Car Height Adjustment

- **Function:** Allows for fine-tuning of the motorcycle's rear ride height.
- **Adjustment Range:** Equipped with an adjustment range of +5mm / -1mm.
- **Effect:** Adjusting ride height can alter steering characteristics and cornering clearance. Small adjustments can have significant effects on handling.

## 4. Maintenance

Regular maintenance is essential to preserve the performance and extend the lifespan of your Ohlins suspension unit.

- **Cleaning:** Keep the suspension unit clean from dirt, dust, and road grime. Use mild soap and water, avoiding harsh chemicals that could damage seals or finishes.
- **Inspection:** Periodically inspect the unit for any signs of oil leaks, damage to the spring or body, or wear on mounting

points. Check for proper function of adjustment knobs.

- **Service Intervals:** Ohlins suspension units require periodic service, including oil changes and seal replacements, to maintain optimal performance. Refer to the official Ohlins service schedule or consult an authorized Ohlins service center for recommended intervals, typically based on mileage or hours of use.
- **Professional Service:** Internal servicing of the shock absorber should only be performed by authorized Ohlins service technicians using genuine Ohlins parts. Attempting to disassemble the unit without proper tools and training can be dangerous due to pressurized components.

## 5. Troubleshooting

This section addresses common issues you might encounter. For complex problems, always consult an authorized Ohlins service center.

| Symptom | Possible Cause | Action |
|---|---|---|
| Poor handling / Instability | Incorrect sag, damping settings, or ride height. | Check and adjust static sag. Review and adjust compression/rebound damping settings. Verify ride height. |
| Harsh ride / Lack of comfort | Too much compression damping or excessive spring preload. | Reduce compression damping. Reduce spring preload. |
| Bouncy ride / Lack of control | Too little rebound damping. | Increase rebound damping. |
| Bottoming out frequently | Too little compression damping or insufficient spring preload. | Increase compression damping. Increase spring preload. |
| Oil leakage | Damaged seals or internal components. | Stop riding immediately. Contact an authorized Ohlins service center for inspection and repair. |

## 6. Specifications

Detailed technical specifications for the Ohlins TTX GP T36PR1C1LB Rear Suspension (Model YA339).

**Model:** YA339

**Type:** T36PR1C1LB

**Specifications:** TTX GP

**Application:** Yamaha YZF-R6 (2006-2014)

**Position:** Rear

**Free Length:** 293 mm (11.6 inches)

**Stroke:** 60 mm

**Piston Diameter:** 36 mm (1.4 inches)

**Spring Length:** 150 mm (5.9 inches)

**Spring Rate:** 90 N/mm

**Extension Side Attenuation Adjustment:** Equipped (25 levels)

**Pressure Side Attenuation Adjustment:** Equipped (25 levels)

**Preload Adjustment:** Built-in hydraulic spring preload adjuster

**Car Height Adjustment:** Equipped (+5 mm / -1 mm adjustment range)

**Tank Type:** Piggyback type (external reservoir)

**Item Weight:** 3.58 kg

**Package Dimensions:** 60 x 25 x 20 cm

## 7. Warranty and Support

For information regarding warranty coverage, terms, and conditions for your Ohlins TTX GP T36PR1C1LB Rear Suspension, please refer to the official Ohlins website or contact your authorized Ohlins dealer. Ohlins provides comprehensive support through its global network of service centers. For technical assistance, spare parts, or professional servicing, please reach out to an authorized Ohlins representative.
Always ensure that any service or repair work is carried out by qualified personnel using genuine Ohlins parts to maintain product integrity and warranty validity.


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