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Ohlins Ohlins DU505

Ohlins STX46 Street Rear Shock User Manual

Model: Ohlins DU505

INTRODUCTION

The Ohlins STX46 Street Rear Shock (DU 505) is engineered to significantly enhance the performance and comfort of your motorcycle. This high-quality shock absorber is specifically designed for various Ducati Scrambler models, ensuring a precise fit and optimal function. It features a single tube design with a 46mm piston diameter and a monotube high-pressure gas type with an internal reservoir, providing consistent damping performance. Adjustable rebound damping allows for fine-tuning to suit individual riding preferences and conditions.



Image: The Ohlins STX46 Street Rear Shock, showcasing its distinctive yellow spring, silver body, and external reservoir connected by a black hose. This component is designed to improve motorcycle suspension performance.

COMPATIBILITY

This Ohlins STX46 Street Rear Shock (DU 505) is compatible with the following Ducati Scrambler models:

- Ducati Scrambler 1100 (2018-2020)
- Ducati Scrambler 1100 Special (2018-2020)
- Ducati Scrambler 1100 Sport (2018-2020)
- Ducati Scrambler Cafe Racer (2017-2020)
- Ducati Scrambler Classic (2015-2018)
- Ducati Scrambler Desert Sled (2017-2020)
- Ducati Scrambler Flat Track Pro (2016)
- Ducati Scrambler Full Throttle (2015-2020)

- Ducati Scrambler Icon (2015-2020)
- Ducati Scrambler Mach 2.0 (2018)
- Ducati Scrambler Sixty2 (2016-2020)
- Ducati Scrambler Street Classic (2018)
- Ducati Scrambler Urban Enduro (2015-2016)

KEY FEATURES

- **Single Tube Design:** Ensures consistent performance and durability.
- **46mm Piston Diameter:** Optimized for effective damping.
- **Monotube High-Pressure Gas Type:** Provides stable and reliable operation.
- **Internal Reservoir:** Integrated within the main body for a compact design.
- **Adjustable Rebound Damping:** Allows riders to fine-tune the shock's response to varying road conditions and riding styles. Adjustment is made via a wheel on the end-eye or reservoir.
- **Tailor-Made Fit:** Designed specifically for compatible Ducati Scrambler models for optimal integration and performance.

SETUP AND INSTALLATION

Installation of the Ohlins STX46 Street Rear Shock requires specialized tools and technical knowledge. It is highly recommended that installation be performed by a qualified motorcycle technician or an authorized Ohlins service center. Improper installation can lead to reduced performance, damage to the motorcycle, or personal injury.

General Guidelines (for professional reference):

1. **Preparation:** Ensure the motorcycle is securely supported on a stand. Remove the existing rear shock absorber according to the motorcycle manufacturer's service manual.
2. **Mounting:** Install the Ohlins STX46 shock absorber, ensuring all mounting bolts are correctly torqued to the specifications provided in the motorcycle's service manual.
3. **Clearance Check:** Verify that there is adequate clearance around the shock absorber and its components throughout the full range of suspension travel.
4. **Initial Settings:** Apply the recommended initial settings for preload and damping as specified in the Ohlins documentation (not provided here, typically found in a separate product-specific manual).
5. **Final Inspection:** Double-check all fasteners and connections before operating the motorcycle.

OPERATING AND ADJUSTMENT

The Ohlins STX46 shock absorber is designed for optimal performance with minimal user intervention after professional installation and initial setup. The primary user-adjustable feature is the rebound damping.

Rebound Damping Adjustment:

- **Purpose:** Rebound damping controls the speed at which the shock absorber extends after being compressed. Proper rebound damping prevents the wheel from "bouncing" after hitting a bump and helps maintain tire contact with the road.
- **Location:** The rebound damping adjuster wheel is located on the end-eye or the reservoir of the shock absorber.
- **Adjustment:**
 - Turning the adjuster clockwise typically increases rebound damping (slower extension).
 - Turning the adjuster counter-clockwise typically decreases rebound damping (faster extension).

- **Procedure:** Make small adjustments (e.g., 1-2 clicks at a time) and test the motorcycle's handling in a safe environment. Note your starting settings to easily revert if needed. Consult an Ohlins service manual or a qualified technician for specific recommendations for your riding style and weight.

Note: Other adjustments like spring preload or compression damping (if applicable to specific variants) should ideally be performed by a professional to ensure proper balance and safety.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Ohlins STX46 Street Rear Shock. While Ohlins products are built for durability, periodic checks and professional servicing are recommended.

- **Cleaning:** Keep the shock absorber 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 shock for any signs of oil leaks, damage to the shaft, spring, or mounting points. Check for loose fasteners.
- **Professional Servicing:** Ohlins recommends periodic servicing by an authorized Ohlins service center. This typically involves replacing seals, oil, and checking internal components to maintain peak performance. Refer to the specific Ohlins service schedule for your product, usually found in a dedicated service manual.
- **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 that may arise with your rear shock. For complex problems, always consult a qualified technician.

Problem	Possible Cause	Solution
Excessive Bouncing / Lack of Control	Insufficient rebound damping.	Increase rebound damping (turn adjuster clockwise).
Harsh Ride / Slow Recovery	Excessive rebound damping.	Decrease rebound damping (turn adjuster counter-clockwise).
Oil Leakage	Damaged seals or internal components.	Stop riding immediately. Seek professional inspection and repair by an authorized Ohlins service center.
Unusual Noises (e.g., knocking, squeaking)	Loose mounting bolts, internal wear, or component interference.	Check mounting bolts for proper torque. If noise persists, seek professional inspection.

SPECIFICATIONS

- **Model:** Ohlins DU505
- **Type:** STX46 Street Rear Shock
- **Design:** Single Tube
- **Piston Diameter:** 46mm
- **Reservoir Type:** Monotube high-pressure gas type with internal reservoir in main body
- **Damping Adjustment:** Adjustable rebound damping (adjuster wheel on end-eye or reservoir)
- **Auto Part Position:** Rear
- **Vehicle Service Type:** Motorcycle

- **Exterior Finish:** Painted
- **Extended Length:** 296 Millimeters
- **Item Weight:** Approximately 6.4 pounds (2.9 kg)
- **Product Dimensions:** Approximately 19.5 x 9 x 5 inches (49.5 x 22.9 x 12.7 cm)
- **UPC:** 643664732377

WARRANTY

Ohlins products are manufactured to the highest standards and are subject to rigorous quality control. Specific warranty terms and conditions may vary by region and product. Please refer to the official Ohlins website or contact your authorized Ohlins dealer for detailed warranty information applicable to your purchase. Keep your proof of purchase for any warranty claims.

SUPPORT

For technical assistance, service, or further information regarding your Ohlins STX46 Street Rear Shock, please contact your authorized Ohlins dealer or visit the official Ohlins website. Professional support ensures that your shock absorber continues to perform optimally and safely.

Ohlins Official Website: www.ohlins.com

Dealer Locator: Use the dealer locator tool on the Ohlins website to find an authorized service center near you.