

Ohlins HD 776

Ohlins HD 776 OHL STX 36 Blackline Motorcycle Shock Absorber Manual

Model: HD 776 | Brand: Ohlins

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1. INTRODUCTION

The Ohlins HD 776 OHL STX 36 Blackline shock absorbers are engineered to provide premier comfort, performance, and control confidence for Harley-Davidson motorcycles. These twin-shocks are designed to enhance the riding experience by offering superior damping characteristics and adjustability. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your Ohlins HD 776 shock absorbers.



Figure 1: Ohlins HD 776 STX 36 Blackline Shock Absorbers. This image displays two Ohlins HD 776 STX 36 Blackline motorcycle shocks, featuring black springs and bodies, designed for rear suspension applications.

2. SETUP AND INSTALLATION

Proper installation and initial setup are crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified motorcycle technician.

2.1 Pre-Installation Checks

- Verify that the shock absorbers are the correct model (HD 776) for your motorcycle.
- Inspect the shocks for any signs of damage from shipping.
- Ensure all necessary mounting hardware is present.
- Refer to your motorcycle's service manual for specific torque specifications and removal/installation procedures for the original shocks.

2.2 Installation Steps (General)

1. Secure the motorcycle on a suitable lift or stand to ensure stability and allow the rear wheel to hang freely.
2. Carefully remove the original shock absorbers, noting the orientation of all components.
3. Install the Ohlins HD 776 shocks, ensuring the correct orientation as per Ohlins' specific instructions (usually indicated by markings on the shock body).
4. Tighten all mounting bolts to the motorcycle manufacturer's specified torque values. **Do not overtighten.**
5. Lower the motorcycle and perform an initial static sag adjustment.

2.3 Initial Adjustments

After installation, it is essential to set the initial sag (preload) to match the rider's weight and riding style. This typically involves adjusting the spring preload collar. Consult the detailed Ohlins setup guide provided with your shocks for precise instructions on setting sag, rebound, and compression damping.

3. OPERATING AND ADJUSTING

The Ohlins HD 776 shocks are designed with adjustability to fine-tune your motorcycle's handling and comfort. Understanding these adjustments is key to optimizing performance.

3.1 Spring Preload Adjustment

Spring preload determines the initial compression of the spring and affects the ride height and sag. Adjusting preload allows you to compensate for different rider weights, passenger loads, or luggage. Increase preload to raise the ride height and reduce sag, and decrease preload to lower the ride height and increase sag.

- Use the supplied C-spanner or appropriate tool to turn the spring preload collar.
- Always adjust both shocks equally to maintain balance.
- Refer to the Ohlins manual for recommended sag settings for your motorcycle model and riding conditions.

3.2 Damping Adjustments (if applicable)

Depending on the specific configuration of your STX 36 Blackline shocks, they may feature adjustable rebound and/or compression damping. These adjustments control the speed at which the shock extends (rebound) or compresses (compression).

- **Rebound Damping:** Typically adjusted via a knob or screw at the bottom of the shock. Turning it clockwise generally increases damping (slower rebound), and counter-clockwise decreases damping (faster rebound).
- **Compression Damping:** If present, usually adjusted via a knob or screw on the reservoir or shock body. Turning it clockwise generally increases damping (firmer compression), and counter-clockwise decreases damping (softer compression).
- Make small, incremental adjustments (e.g., 1-2 clicks at a time) and test ride to feel the effect.
- Keep a record of your settings for future reference.

4. MAINTENANCE

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

4.1 Cleaning

- Clean the shocks regularly with mild soap and water, especially after riding in dirty or wet conditions.
- Rinse thoroughly and dry with a soft cloth.
- Avoid using high-pressure washers directly on seals or adjusters.

4.2 Inspection

- Periodically inspect the shock bodies, springs, and mounting points for any signs of damage, cracks, or corrosion.
- Check for oil leaks around the shaft seals. Any visible oil leakage indicates a need for service.
- Ensure all mounting bolts are secure and torqued to specification.
- Inspect the shock shaft for pitting or scratches, which can damage seals.

4.3 Service Intervals

Ohlins shock absorbers are precision components and require periodic professional servicing to maintain peak performance. The recommended service interval can vary based on riding conditions and intensity of use (e.g., street vs. track). As a general guideline, consider servicing every 20,000-30,000 miles or every 2-3 years for street use, and more frequently for aggressive riding or racing. Refer to the official Ohlins service manual for precise recommendations.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ohlins HD 776 shock absorbers.

Problem	Possible Cause	Solution
Excessive Sag / Bottoming Out	Insufficient spring preload; Worn spring; Low nitrogen pressure (internal issue).	Increase spring preload; Inspect spring for fatigue; Professional service required for internal issues.
Harsh Ride / Lack of Compliance	Too much spring preload; Excessive compression damping; Incorrect spring rate.	Decrease spring preload; Reduce compression damping; Consult Ohlins for correct spring rate.
Bouncy Ride / Poor Rebound Control	Insufficient rebound damping; Low nitrogen pressure (internal issue).	Increase rebound damping; Professional service required for internal issues.
Oil Leakage from Shock Body	Damaged shaft seal; Pitted or scratched shock shaft.	Immediate professional service required. Do not ride with leaking shocks.
Unusual Noises (e.g., clunking)	Loose mounting bolts; Worn bushings; Internal damage.	Check and torque mounting bolts; Inspect bushings; Professional inspection required for internal damage.

If you experience issues not listed here, or if the suggested solutions do not resolve the problem, contact Ohlins customer support or an authorized Ohlins service center.

6. SPECIFICATIONS

Key technical specifications for the Ohlins HD 776 OHL STX 36 Blackline shock absorbers:

Attribute	Value
Brand	Ohlins
Model Number	HD 776
Auto Part Position	Rear
Style	Performance
Vehicle Service Type	Motorcycle
Exterior Finish	Black
Automotive Fit Type	Vehicle Specific Fit
Item Weight	7.6 pounds
ASIN	B0DWLT64TK
Date First Available	January 6, 2025

7. WARRANTY INFORMATION

Ohlins products are manufactured to high standards and typically come with a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product type. To understand the full terms and conditions of the warranty for your HD 776 shock absorbers, please refer to the official warranty documentation included with your product or visit the official Ohlins website. Keep your proof of purchase for warranty claims.

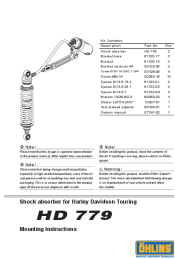
8. CUSTOMER SUPPORT

For technical assistance, service, or any questions regarding your Ohlins HD 776 OHL STX 36 Blackline shock absorbers, please contact Ohlins customer support or an authorized Ohlins service center. You can typically find contact information and a list of authorized dealers/service centers on the official Ohlins website:

Official Ohlins Website: www.ohlins.com



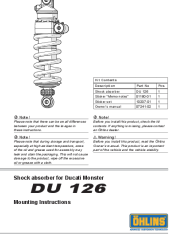
When contacting support, please have your product model number (HD 776) and purchase details readily available.

Related Documents




[Öhlins HD 779 Shock Absorber Mounting Instructions for Harley Davidson Touring](#)

Provides comprehensive mounting instructions for the Öhlins HD 779 shock absorber, specifically designed for Harley Davidson Touring motorcycles. This guide details kit contents, safety warnings, and step-by-step installation procedures.

 <p>Shock absorber for Harley Davidson Touring HD 778 Mounting Instructions</p>	<p>Öhlins HD 778 Shock Absorber Mounting Instructions for Harley Davidson Touring</p> <p>Detailed mounting instructions and setup data for the Öhlins HD 778 shock absorber, designed for Harley Davidson Touring motorcycles. Includes kit contents, step-by-step installation guide, and technical specifications.</p>
 <p>Öhlins STX 36 Blackline Twin Shock Absorbers</p>	<p>Öhlins STX 36 Blackline Twin Shock Absorbers for Harley-Davidson & Custom Bikes</p> <p>Explore the Öhlins STX 36 Blackline twin shock absorbers, engineered for enhanced ride comfort and performance on Harley-Davidson and custom motorcycles. Featuring advanced monotube technology and available in D/DR1L and P configurations.</p>
 <p>Shock absorber for Ducati Monster DU 126 Mounting Instructions</p>	<p>Öhlins DU 126 Shock Absorber Mounting and Adjustment Guide for Ducati Monster</p> <p>Official mounting and adjustment instructions for the Öhlins DU 126 shock absorber, designed for Ducati Monster motorcycles. Includes kit contents, installation steps, setup data, and important warnings.</p>

Documents - Ohlins – HD 776



Kit Contents		
Component	Part No.	Qty.
Shock absorber	HD 776	2
Washer 12.8/24/6	03118-08	4
Sleeve 12.7/14/19.5	03023-17	4
Tool pre-load adjuster	03090-01	1
Sticker set "HLINS"	01180-01	1
Sticker set "OHLLINS"	10207-01	1
Owner's manual	07241-02	1

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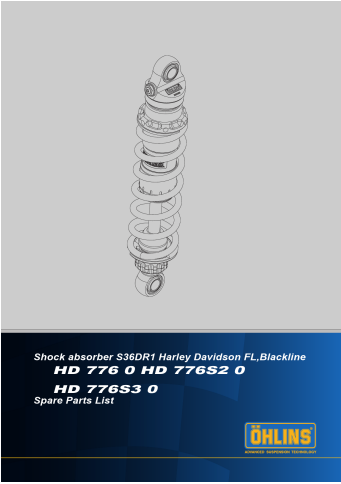
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Shock absorber for Harley Davidson FLH / FLT Models
HD 776 /S2 /S3
Mounting Instructions



[\[pdf\]](#) User Manual Owner's Manual Instructions

HD 776 S2 S3 MI HD776 ohlinsusa files ohlins manuals Öhlins USA 22 gen 2021 — Shock absorber for Harley Davidson FLH FLT Models Mounting Instructions Note! □ Please note that this image is a general ||| Kit Contents Description Shock absorber Washer 12.8/24/6 Sleeve 12.7/14/19.5 Tool preload adjuster Sticker Memo notes Sticker set HLINS Owners manual Part No **HD 776** 03118-08 00123-17 03199-01 01180-01 10207-01 07241-02 Pcs 2 4 4 1 1 1 1 These mounting instructions are for the below versions o... lang:en score:36 filesize: 1.86 M page_count: 8 document date: 2020-11-10



[pdf] User Manual Instructions Parts List

SPL HD776 ohlinsusa files ohlins manuals |||

Shock absorber S36DR1 Harley Davidson FL,Blackline**HD 776 0 HD 776S2 0 HD 776S3**
0 Spare Parts List SPL SAFETY PRECAUTIONS Warning The shock absorber/front
fork/steering damper is an important part of the vehicle and will affect the stability.
Warning After installing the hlins product, take a...

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PRISLISTE OHLINS 2023		
Artikel nr	Beskrivning	Stk
21740-02	ECU SA 4.0 4.0 4.0 4.0 4.0	1.980,00
21744-01	Varvare CP-43 4.0 4.0 4.0	2.220,00
35000-01	ECU 4.0 4.0 4.0 4.0 4.0	2.280,00
35000-02	SCU 4.0 4.0 4.0 4.0 4.0	2.100,00
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AP 632	AP 632 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 633	AP 633 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 634	AP 634 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 635	AP 635 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 636	AP 636 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 637	AP 637 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 638	AP 638 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 639	AP 639 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 640	AP 640 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 641	AP 641 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 642	AP 642 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 643	AP 643 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 644	AP 644 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 645	AP 645 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 646	AP 646 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 647	AP 647 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 648	AP 648 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 649	AP 649 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 650	AP 650 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 651	AP 651 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 652	AP 652 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 653	AP 653 4.0 4.0 4.0 4.0 4.0	11.370,00
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AP 655	AP 655 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 656	AP 656 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 657	AP 657 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 658	AP 658 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 659	AP 659 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 660	AP 660 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 661	AP 661 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 662	AP 662 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 663	AP 663 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 664	AP 664 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 665	AP 665 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 666	AP 666 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 667	AP 667 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 668	AP 668 4.0 4.0 4.0 4.0 4.0	11.370,00
AP 669	AP 669 4.0 4.0 4.0 4.0	