

Spring Preload  
Adjuster



*Before installing this product, check the contents of the kit. If anything is missing, please contact an Öhlins dealer.*

#### Kit Contents

	Part No.	Pcs.
Shock Abs. 36E	HD 146	2
C-Spanner twin	00710-01	2
Sleeve	00123-13	2
Sleeve	00123-17	2
Washer	03118-08	8
Sticker Öhlins	00192-01	2
Owners manual	07241-02	1

*Please note that during storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excessive oil/grease with a cloth.*

#### **⚠ Warning!**

*Before installing this product, read the Öhlins Owner's Manual. The shock absorber is an important part of your vehicle and will affect the stability.*

**Shock Absorber for Harley-Davidson Sportster**

# **HD 146**

**Mounting Instructions**



# How to install

## **⚠ Warning!**

*It is advisable to have an Öhlins dealer install the shock absorber.*

*When installing, consult your Vehicle Service Manual.*

**1**

Put the motorcycle on a stand so the rear wheel is clear of the ground. Make sure it's steadily fixed so it will not fall over.

## **⚠ Warning!**

*Make sure the vehicle is securely supported so that it will not tip.*

**2**

Loosen and remove the standard shock absorber(s). See the motorcycles Workshop manual.

**3**

Fit the Öhlins shock absorber(s) in the same position as the standard shock absorber(s).

## **👁 Note!**

*Before installing the Öhlins shock absorber clean the vehicle thoroughly.*

**4**

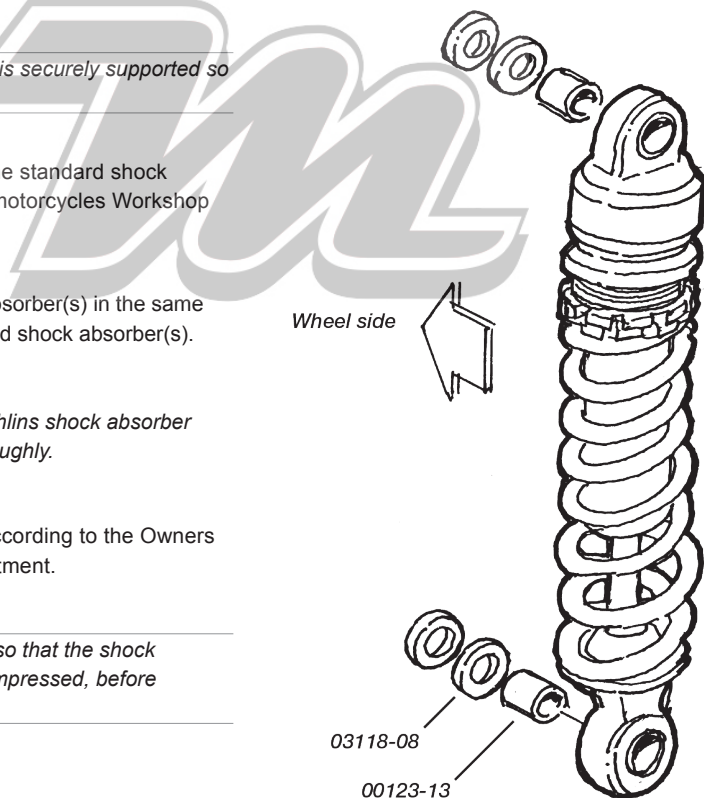
Continue your work according to the Owners manual, section adjustment.

## **👁 Note!**

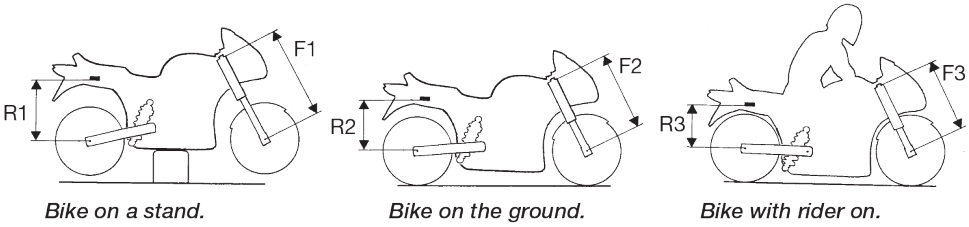
*Lower the motorcycle so that the shock absorber is slightly compressed, before tightening the screws.*

## **👤 Caution!**

*Make sure that all screws are tightened to the correct torque and that nothing fouls or restricts movement of the shock absorber when the suspension is fully compressed or extended.*



Normally the shock absorber is mounted with the cylinder head upwards. Check that there is enough clearance to other details both in loaded and unloaded position.



## Checking sag and ride height

### Front suspension

F1. Bike on a stand with the suspension fully extended = .....

F2. Bike on the ground without rider = .....

F3. Bike on the ground with rider = .....

Free sag       $F1 - F2 = \dots\dots\dots$

Ride height       $F1 - F3 = \dots\dots\dots$

### Rear suspension

R1. Bike on a stand with the suspension fully extended = .....

R2. Bike on the ground without rider = .....

R3. Bike on the ground with rider = .....

Free sag       $R1 - R2 = \dots\dots\dots$

Ride height       $R1 - R3 = \dots\dots\dots$

### NOTE!

*If ride height is higher than recommended, softer spring/springs must be used.*  
*If ride height is lower than recommended, harder spring/springs must be used.*  
*Contact your Öhlins dealer for advice.*

# Adjustments

## **Warning!**

*Before riding, always make sure that the basic settings made by Öhlins are according to recommended Set-up Data. Read about adjustments and setting up in the Öhlins Owner's Manual before you make any adjustments. Contact an Öhlins dealer if you have any questions about setting up the shock absorber.*




## Set-up Data

### Recommended set-up

Spring Preload	21 mm
<b>Spring</b>	
Part No.	Rate
00480-01	15-24 N/mm

### Shock absorber data

Length	360,5 mm
Stroke	105 mm

 *Öhlins products are subject to continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of printing, minor updates may occur.*

*To find the latest information contact your Öhlins distributor. Please consult your Öhlins dealer if you have any questions regarding the contents in this document.*

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