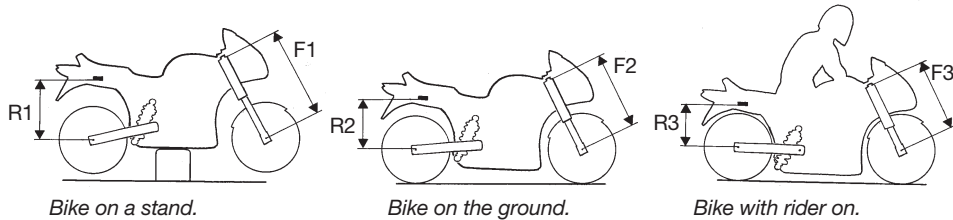


# Owners Manual

## Mounting instructions Öhlins shock absorber kit HD 142 for Harley Davidson Sportster



### Setup data

|                       |                 |
|-----------------------|-----------------|
| Shock absorber length | 360 (+10/-0) mm |
| Shock absorber stroke | 100 mm          |
| Spring preload        | 15 mm           |

### 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 = .....

**Ride height** F1 - F3 = .....

#### 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 = .....

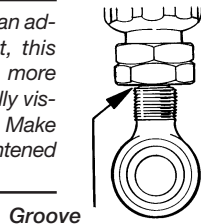
**Ride height** R1 - R3 = .....

#### NOTE!

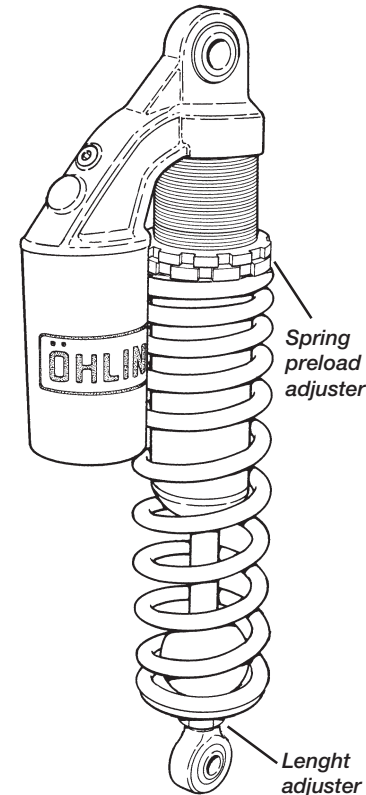
*If ride height is higher than recommended, softer spring/springs must be used.  
If ride height is lower than recommended, harder spring/springs must be used.  
Contact your Öhlins dealer for advice.*

### WARNING!

*If the shock absorber has an adjustable end eye/bracket, this must not be treaded out more than that one groove is fully visible beneath the lock nut. Make sure that the lock nut is tightened after adjustment.*



Groove



### Öhlins shock absorber 36 PL

Your Öhlins shock absorber type 36 PL features the following adjusters:

#### Spring preload adjuster

Adjustments are made by turning the lower nut on the shock absorber body. Clockwise for harder adjustment, counter clockwise too release the preload. Lock with the upper nut.

#### Length adjuster

Adjustment is made by turning the end eye and tightening with the lock nut.

#### NOTE!

*When delivered the Öhlins shock absorber is dialed to recommended settings for the specific brand and make of the motorcycle.*



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## Safety signals

Important information concerning safety is distinguished in this manual by the following notations:



*The Safety alert symbol means:  
Caution! Your safety is involved.*

### WARNING!

*Failure to follow warning instructions could result in **severe or fatal injury** to anyone working with, inspecting or using the suspension, or to bystanders.*

### CAUTION!

*Caution indicates that special precautions must be taken to avoid damage to the suspension.*

### NOTE!

*This indicates information that is of importance with regard to procedures.*

Öhlins products are subject to continual improvement and development. Consequently, although these instructions include the most up-to-date information available at the time of printing, there may be minor differences between your suspension and this manual. Please consult your Öhlins dealer if you have any questions with regard to the contents of the manual.

### NOTE!

*During storage and transportation, especially at high ambient temperature, the oil and grease used for assembling may run out inside the packing and damage the expanded polystyrene packing material. This is not unusual and is in no way detrimental to the shock absorber.*

## Kit contents

Before installing the shock absorber, please check the contents of the kit, listed on the front page of this instruction. If anything is missing, contact your Öhlins dealer.

| Description         | Pcs. | Part No. |
|---------------------|------|----------|
| Shock absorber 36PL | 2    | HD 142   |
| Sleeve              | 4    | 00123-13 |
| Washer              | 8    | 03118-08 |
| C-spanner           | 1    | 00710-01 |
| Sticker Öhlins      | 2    | 00192-01 |
| Owners manual       | 1    |          |

## Before installation

Öhlins Racing AB can not be held responsible for any damage whatsoever to shock absorber or vehicle, or injury to persons, if the instructions for fitting and maintenance are not followed exactly.

Similarly, the warranty will become null and void if the instructions are not adhered to.

### WARNING!

*1. Installing a shock absorber, that is not approved by the vehicle manufacturer, may affect the stability of your vehicle. Öhlins Racing AB cannot be held responsible for any personal injury or damage whatsoever that may occur after fitting the shock absorber. Contact an Öhlins dealer or other qualified person for advice.*

*2. Please study and make certain that you fully understand all the mounting instructions and the owners manuals before handling this shock absorber kit. If you have any questions regarding proper installation procedures, contact an Öhlins dealer or other qualified person.*

*3. The vehicle service manual must be referred to when installing the Öhlins shock absorber*

## Mounting instructions

1

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

### WARNING!

- 1. It's advisable to have an Öhlins dealer or other qualified person to fit your shock absorber.*
- 2. Instructions in the vehicle service manual are to be followed when changing the shock absorber.*
- 3. When working on a lifted vehicle it must be securely supported to prevent it from falling.*

2

Loosen and remove the standard shock absorbers. See the motorcycle's Workshop manual.

3

Fit the Öhlins shock absorbers in the same position as the standard shock absorber.

4

Continue your work according to the Owners Manual, section Adjustments.

### NOTE!

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

### NOTE!

*The shock absorber shall be mounted with the cylinder head upwards and the reservoir backwards. Use the supplied washers and sleeves to fit the shock absorber on your bike.*

