



# Mounting Instructions

Öhlins shock absorber kit HO 519 for Honda Hornet 600

## Setup data

Shock absorber length	304 mm
Shock absorber stroke	54 mm
Spring pre-load	12 mm
Rebound damping adjuster	16 clicks
Compression damping adjuster	10 clicks

## 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 = .....



## Öhlins shock absorber 46 HRCS

Your Öhlins shock absorber type 46 HRCS features the following adjusters:

### Compression damping adjuster

Adjustments are made on top of the reservoir.

### Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

### Spring pre-load adjuster

Adjustments are made by turning the rings with the c-spanner. Clockwise for harder adjustment, counter clockwise too release the pre-load.

### NOTE!

When delivered the Öhlins shock absorber is dialed to recommended settings for the specific brand and make of the vehicle. If you have changed the settings, check like this:

The adjusters have a normal right hand thread. Turn the damping adjusters clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number of clicks. See Setup data at last page.

### CAUTION!

Do not use too much force, delicate sealing surfaces can be damaged.



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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.**

## 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**

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. If anything is missing, contact your Öhlins dealer.

Description	Pcs.	Part No.
Shock absorber 46 HRCS	1	HO 519
C-spanner single	1	00710-02
Hose clamp	2	00643-02
Reservoir bracket	1	01085-04
Washer	1	00153-04
Spacer	1	03105-01
Screw M10x45	1	00439-02
Screw MC6S 6x20	1	01046-16
Sticker memo notes	1	01180-01
Sticker Öhlins	2	00192-01
Owners manual	1	

## Mounting instructions

1

Put the motorcycle on a stand so that the rear wheel is off the ground. Remove the seat.

### 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

Remove the lower and upper shock mounting bolts.

3

Remove the shock absorber.

4

Put the Öhlins shock in place in reverse order. Mount the upper and lower mounting bolts. Use the bolt (439-02) provided for the lower bracket.

5

Remove the screw to the expansion vessel. (See sketch.) Mount the reservoir bracket (01085-04) in this mounting hole. Place the spacer (03105-01) between the bracket and the expansion vessel. Mount the bracket with the screw (01046-16) and use washer (00153-04).

6

Mount the reservoir with the hose clamps (00643-02) according to the sketch on next page.

7

Mount the seat. Check that all bolts are tightened before you go for a test ride.

### 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.**

8

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

