

Bike on a stand.

Bike on the ground.

Bike with rider on.

F1 - F2 =

Setup data

Shock absorber length
Shock absorber stroke
Spring preload
Rebound damping adjuster
Compression damping adj.

382 mm
93 mm
12 mm
10 clicks
14 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

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 =

Compression damping adjuster Rebound damping adjuster Spring

preload

adjuster

Owners Manual

Mounting instructions Öhlins shock absorber kit BM 949 for BMW K1

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 preload adjuster

Adjustments are made by turning the knob on the hydraulic adjuster. 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 motorcycle. If you have changed the setting check like this:

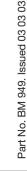
The adjusters have a normal right hand thread. Turn the damping adjusters clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number of clicks. See Setup data at last page.

CAUTION!

Do not use to 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.



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.

A 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.
- 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	BM 949
Tie-rap	2	00231-01
Mounting rubber	2	00230-01
Hose clamp	2	00643-02
Bracket assy	1	00804-03
Nut M6	2	00430-02
Bolt M6x35	2	01046-06
Sticker memo notes	1	01180-01
Sticker Öhlins	2	00192-01
Owners manual	1	

Mounting instructions

1

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

A WARNING!

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

2

Remove the seat and the right side cover.

3

Remove the lower nut and the upper bolt holding the shock absorber. Lift the rear wheel and remove the original shock.

4

Mounting the Öhlin-shock:

Start with pulling the reservoir upwards between the frame tube and mudguard (behind the battery). Mount the upper shock bolt.

N.B Check that there are clearance between the shock absorber and the frame at the upper mounting. In some cases it can be necessary to grind away some material at this upper mounting.

5

Lift the rear wheel and mount the end eye at the lower mounting bolt.

6

Mount the reservoir at the "mudguard mounting", see fig.

7

Mount the preload adjuster.

8

Mount side covers and seat.

9

Make sure that all bolts are tightened.

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.

10

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

