

## Bike on a stand.

Bike on the around.

## 6

Mount the Öhlins shock absorber in reverse order, first the upper attachment then the lower one.

## NOTE!

The space is very tight so it might be necessary to rotate the spring a few turns to get the shock absorber in the correct position.

## 7

Refit the fuel tank cover, the fairings and the seat and the bracket hoses.

## 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.

289 mm

22 clicks

71 mm 10 mm

## Setup data

Shock absorber length	
Shock absorber stroke	
Spring pre-load	
Rebound damping adjuster	

## Front suspension F1. Bike on a stand with the suspension fully extended = ..... F2. Bike on the ground without rider = .....

Checking sag and ride height

F3. Bike on the ground with rider =

F1 - F2 = .....

F1 - F3 = .....

Free sag

**Ride height** 

## Rear suspension

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

R2. Bike on the ground without rider

R3. Bike on the ground with rider =

R1 - R2 = ..... Free sag

R1 - R3 = ..... Ride height

**Mounting Instructions** 

Öhlins shock absorber kit BM 505 for BMW R 1200 ST. front

**S**prina

pre-load

adjuster

Rebound

damping

adjuster

# Öhlins shock absorber 46 ER

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

## Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

## Spring pre-load adjuster

Adjustments are made by turning the threaded ring on the shock absorber body. Use the tool provided. Clockwise for harder adjustment. counter clockwise to 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:

# Â

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

# A 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.

# 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.

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.

Part No.

BM 505

00710-02

00192-01

01180-01

Description	Pcs.
Shock absorber 46 ER	1
C-spanner	1
Sticker Öhlins	2
Sticker memo notes	1
Owners manual	1

# Mounting instructions

# 1

Put the motorcycle on the centre stand so the front wheel is clear of the ground. The front fork must be free, so the suspension is unloaded. Make sure it's steadily fixed so it will not fall over.

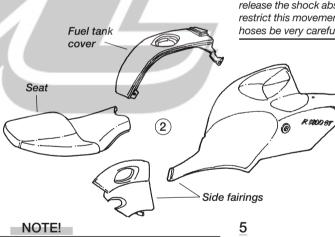
# A WARNING!

 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.

3. When working on a lifted vehicle it must be securely supported to prevent it from falling.

# 2

Loosen and remove the seat. Remove the side fairings and the cover of the fuel tank.



The screws holding the fairings are of different lengths. Make sure to return them to the correct position.

Loosen first the lower shock absorber bracket, then the upper and take the original shock absorber out.



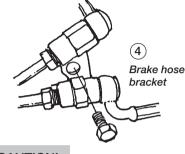
Upper shock absorber mount

If the motorcycle is equipped with ESA the cabling must be removed from the shock absorber.

## 4

3

Loosen the bracket of the front brake hoses.



## CAUTION!

It is necessary to pull the front fork downward to release the shock absorber. The brake hoses will restrict this movement. To avoid damages to the hoses be very careful not to pull too hard.