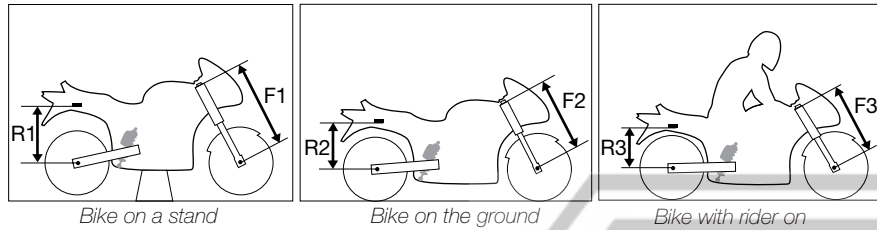


## Check sag and ride height



### 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 = .....

### Set-up data

Shock absorber length	383 mm
Shock absorber stroke	63 mm
Spring 01095-64	160Nm
Spring free length	180mm
Spring pre-load	7 mm
Rebound damping	12 clicks

### NOTE!

Read more about sag and ride height and different settings in your Öhlins Owner's manual.

### 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 = .....

### Recommended Sag and Ride Height

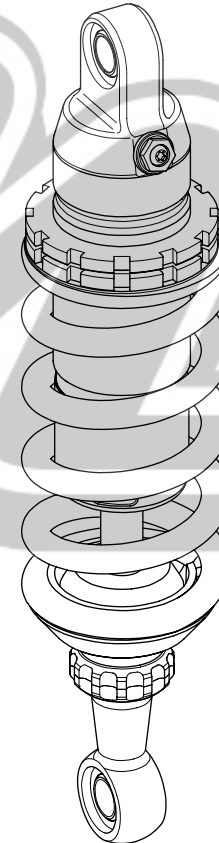
F1 - F2:	40-50 mm
F1 - F3:	55-65 mm
R1 - R2:	5-15 mm
R1 - R3:	25-35 mm

Read more about sag and ride height in the Öhlins Owner's Manual.

BM 054\_0, issued 2010-11-02

# Mounting Instructions

Öhlins shock absorber kit BM 054  
for R 1100 GS - rear



### Kit Contents

Before installing the shock absorber, please check the contents of the kit. If anything is missing, please contact your Öhlins dealer.

Description	Article no.
Shock absorber S46DR1	BM 054 (1)
Bolt	00439-09 (1)
Nut	00440-01 (1)
C-spanner	00710-02 (1)
Sticker Öhlins	00192-01 (2)
Sticker memo notes	01180-01 (1)
Owner's manual	07241-02 (1)

### Before Installing

Öhlins Racing AB cannot be held responsible for any damage 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.

Öhlins products are subject to continuous 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 shock absorber and this manual. Please consult your Öhlins dealer if you have any questions regarding the contents of this manual.



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## Safety Signals

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



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

### WARNING!

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

### CAUTION!

Caution indicates that special precautions must be taken to avoid damage to the shock absorber.

### NOTE!

Indicates information that is of importance regarding mounting procedures.

### 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 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 owner's manual 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

### 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.

## Mounting Instructions

### WARNING!

1. It is advisable to have an Öhlins dealer or other qualified person install the shock absorber.
2. Follow the instructions in the vehicle service manual when changing the shock absorber.
3. When working on a raised vehicle, make sure that it is securely supported to prevent it from falling.

- 1 Put the motorcycle on a workstand so that the rear wheel is off the ground. **Make sure the vehicle is securely supported so that it will not fall over.**
- 2 Remove the passenger's and the rider's seat.
- 3 Loosen the brake caliper.
- 4 Remove the rear wheel.
- 5 Loosen the adjustment cylinder to the hydraulic spring pre-load adjuster.
- 6 Remove the lower bolt of the original shock absorber.
- 7 Remove the right front seat bracket. Remove the upper bolt of the original shock absorber.
- 8 Remove the original shock absorber together with the hydraulic spring pre-load adjuster.
- 9 Attach the Öhlins shock absorber in the upper bracket, gas valve facing backwards. Use the original bolt.

### 11

Install the Öhlins shock absorber in the lower bracket with the supplied bolt and nut.

### NOTE!

The chamfered side of the clevis should be pointing forward.

### 12

Install the rear wheel and the brake caliper.

### 13

Install the seat bracket, the driver's and the passenger's seat.

## Adjustments

Your Öhlins shock absorber type S46DR1 features:

### Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

### Spring pre-load adjuster

Use C-spanner 00710-02

### 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, reset according to the following:

The rebound adjuster has a normal right hand thread. Turn the damping adjuster clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number. **See Set-up data on the following page.**

### CAUTION!

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

### 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.

### 14

Continue your work according to the Öhlins Owner's manual, section Adjustments.

