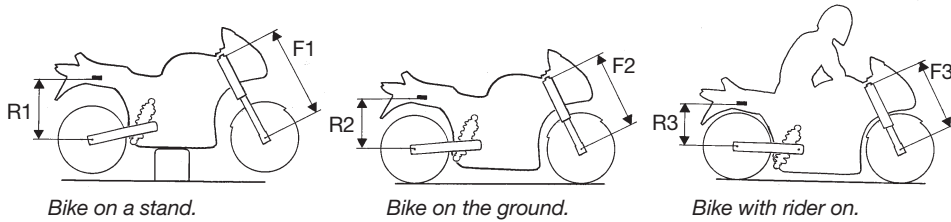


# Mounting Instructions

Öhlins shock absorber kit BM 635  
for BMW R850/1100 R, rear

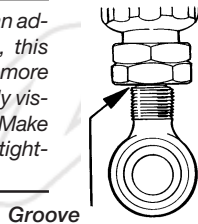


## Setup data

Shock absorber length	358 (+10/-2) mm
Shock absorber stroke	57 mm
Spring pre-load	9 mm
Rebound damping adjuster	16 clicks

### WARNING!

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



## 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

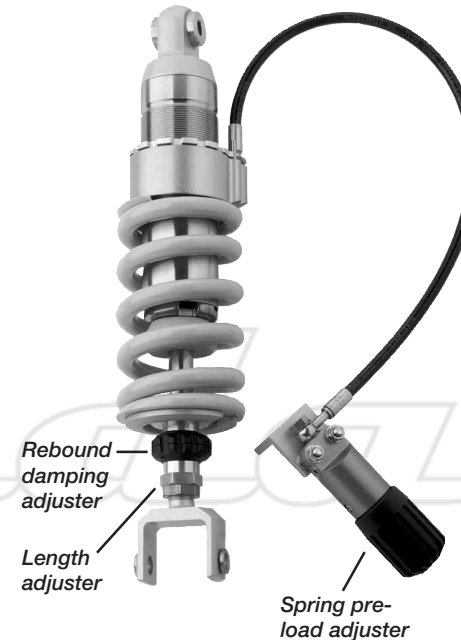
R1. Bike on a stand with the suspension fully extended = .....

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 DRLS

Your Öhlins shock absorber type 46 DRLS 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 knob on the hydraulic adjuster. Clockwise for harder adjustment, counter clockwise to release the pre-load.

### 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. 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.*

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 DRLS	1	BM 635
Screw	1	00439-09
Nut	1	00440-01
Sticker memo notes	1	01180-01
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 the 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

Remove the seat, seat support and rear wheel.

3

Remove the original shock absorber.

4

Fit the Öhlins shock absorber with the gas valve pointing forward and the hydraulic pre-load adjuster hose running to the left.

5

Put the hydraulic adjuster hose between the air box and the fuse box (electrical box). The hose should run from right to left in a smooth curve.

6

Fit the upper mounting screw. Replace the the lower bolt with the screw and nut supplied.

7

Fit the pre-load adjuster to the silencer bracket. Remove the inner washer to achieve necessary screw length.

### 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. Make sure that the pre-load adjuster hose is not squeezed or compressed.*

8

Refit the rear wheel, seat support and the seat.

9

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

