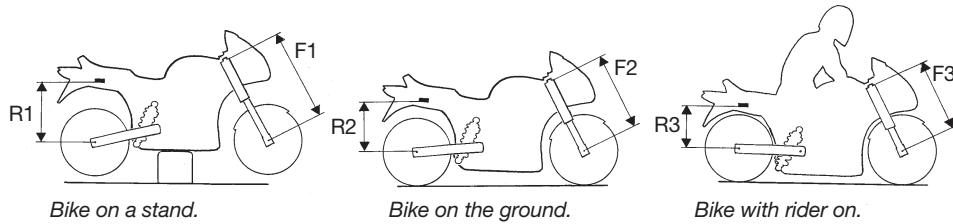


# Owners Manual

Mounting instructions Öhlins shock absorber kit  
BM 423 for BMW F 650 Funduro 94-95



## Setup data

Shock absorber length	315 mm
Shock absorber stroke	46 mm
Spring preload	12 mm
Rebound damping adjuster	13 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** F2 - 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** R2 - R3 = .....

### NOTE!

*If ride height is higher than recommended, softer spring/springs must be used.  
If ride height is lower than recommended, harder spring/springs must be used.  
Contact your Öhlins dealer for advice.*



BM423. Issued 01 06 28



Öhlins Racing AB, Box 722, S-194 27 Upplands Väsby, Sweden.  
Phone +46 8 590 025 00. Fax +46 8 590 025 80. [www.ohlins.com](http://www.ohlins.com)

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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

Ohlins 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. Ohlins Racing AB cannot be held responsible for any personal injury or damage whatsoever that may occur after fitting the shock absorber. Contact an Ohlins 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 Ohlins dealer or other qualified person.**

**3. The vehicle service manual must be referred to when installing the Ohlins shock absorber**

Ohlins 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 Ohlins 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.**

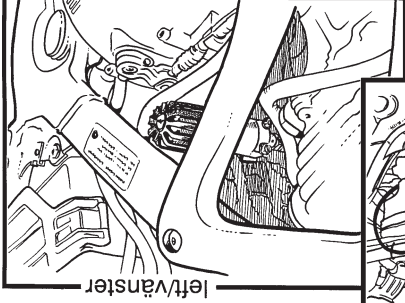
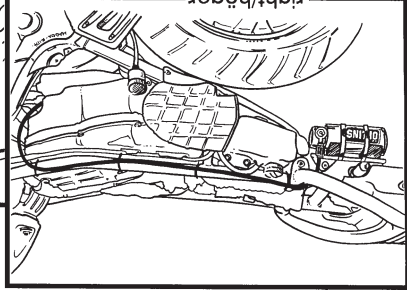
## Kit contents

Before installing the shock absorber, please check the contents of the kit, listed on the front page of this instruction. If anything is missing, contact your Ohlins dealer.

Description	Pcs.	Part No.
Shock absorber	1	BM 423
Sticker Ohlins	2	00192-01
Sticker memo notes	1	01180-01
Washer ø 6	1	00153-04
Washer ø 10	1	00420-01
Tie-rap	4	00231-01
Bolt M10x50	1	00429-17
Nut M10	1	00430-01
Nut M6	1	00430-02
Nut M6x20	1	01046-16
Owners manual	1	

## Mounting instruction

- Lift the motorcycle and place it on a stand so that the rear wheel does not touch the floor.
- ⚠ WARNING!**  
1. It's advisable to have an Ohlins 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.
- Remove seat and side covers.
- Mount the hydraulic spring adjuster on right side (see figure on opposite page) with supplied bolt (1046-16), washer (153-04) and nut (430-02). Fix the hose to the frame with tie-raps (231-01).
- Mount the hydraulic spring adjuster on right side (see figure on opposite page) with supplied bolt (429-17), washer (420-01) and nut (430-01).
- Turn links away and remove lower shock absorber bolt.
- Mount the bolt between the links and mount the chain support wheel.
- Remove the chain support-wheel.
- Remove the bolt between the triangular link and the frame, remove the triangular link.
- Loosen the hydraulic spring pre-load adjuster from the frame.  
8 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.
- Remove the shock absorber bolt and remove the shock absorber, together with the hydraulic spring adjuster.



11

9

10

Remove the silencer.

12

Mount the silencer and the triangular link.

13

Mount shock absorber to triangular link with supplied bolt (429-17), washer (420-01) and nut (430-01).

14

Mount the bolt between the links and mount the chain support wheel.

15

Mount seat (make sure that the seat does not touch the hose to the hydraulic spring adjuster) and side covers.

## 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.