

Owners Manual

Mounting instructions Öhlins shock absorber kit BM 836 for BMW R 80/100 GS/PD



Öhlins shock absorber 46 DRS

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

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 preload.

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 page 4.

CAUTION!

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

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

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

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 DRS	1	BM 836
Tie-rop	2	00231-01
O-ring	2	00438-57
Spacer	2	00838-10
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. The swing arm must be free, so the suspension is unloaded. 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 side cover on the right side. Remove the seat.

3

Loosen and remove the lower shock absorber attachment nut and the upper bolt and nut.

NOTE!

When the bolt is removed it is necessary to lift and support the rear wheel.

4

Remove the lower bolt of the sub frame and remove the original shock absorber.

5

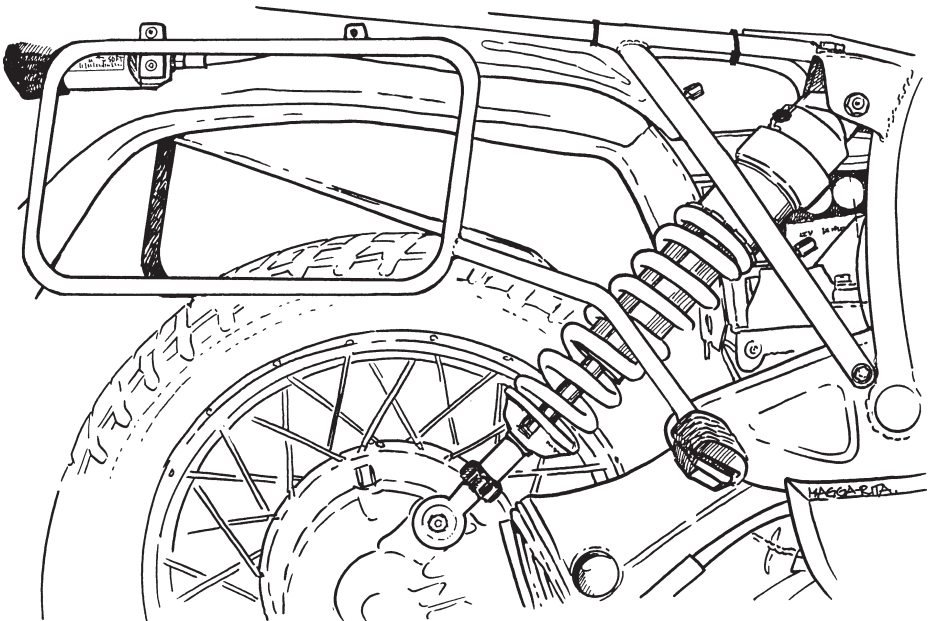
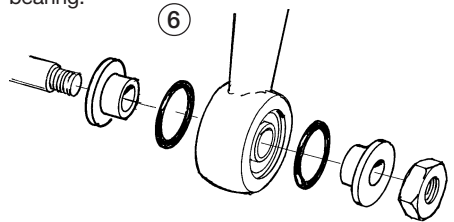
Grind the lower corners of the upper frame mount, so the Öhlins shock absorber head will have full clearance.

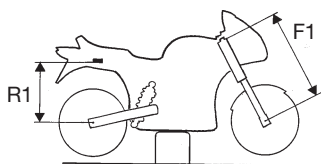


Grinded area

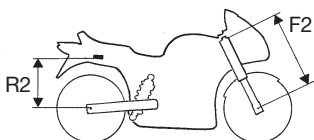
6

Fit the Öhlins shock absorber with the gas valve facing rearwards. Mount the spacers, sealing washers and dust seals supplied to the bottom bearing.

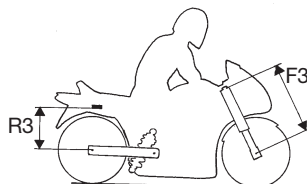




Bike on a stand.



Bike on the ground.



Bike with rider on.

Setup data

Shock absorber length	495 mm
Shock absorber stroke	80 mm
Spring preload	17 mm
Rebound damping adjuster	10 clicks

7

Fit the lower end of the shock absorber first. Lift the rear wheel and fit the upper bolt and nut.

8

Mount the pre-load adjuster to the rear bracket of the luggage carrier.

NOTE!

Make sure that the hose has soft bends and not will be squeezed anywhere.

9

Refit the sub frame bolt , side cover and seat.

NOTE!

Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the suspension when it is being fully compressed or extended.

10

Continue your work according to owners manual.

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 =



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