

Notes

Traction, handling,
comfort and safety



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BM 940, Issued 09 05 '13

Mounting instructions

BM 940 - BMW R 1150 GS

Rear shock absorber

Kit contents

Shock absorber Type 46DRS	BM 940	
Sticker Öhlins	00192-01	2
Owners manual		1
Sticker Memo Notes	01180-01	1

Set-up data

Length	383 mm
Stroke	63 mm
Preload spring	16mm
Rebound adjustment	12

Recommendations

F1 - F2:	40 - 50 mm
F1 - F3:	55 - 65 mm

R1 - R2:	5 - 15 mm
R1 - R3:	25 - 35 mm



Safety signals

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



*The Beware sign means:
Pay attention!
Your safety is at risk.*

⚠ WARNING!

*Failure to follow Warning text could result in **serious or fatal injury** to anyone working with, inspecting or using the suspension, or to bystanders.*

CAUTION!

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

NOTE!

This indicates information that is of importance with regard to procedures

Kit contents

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

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.

Before you start

⚠ WARNING!

Installing a shock absorber, that is not approved by the motorcycle manufacturer, may affect the stability of your motorcycle. Öhlins Racing AB can't be held responsible for any personal injury or damage whatsoever which may occur after fitting the shock absorber.

Öhlins Racing AB can not be held responsible for any damage whatsoever to spare parts, or injury to persons, if the instructions for servicing and maintenance are not followed exactly. Similarly, the guarantees relating to performance and reliability will become null and void if the instructions are not adhered to.

⚠ WARNING!

Please study the mounting instructions and the owner's and workshop manuals thoroughly before handling this shock absorber kit.

⚠ WARNING!

When installing the Öhlins shock absorber the motorcycle workshop manual must be at hand.

NOTE!

Öhlins products are subject to continual improvement and development in design and quality. 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 concerning the manual.

Mounting instructions

1

Place the motorcycle on the center stand.

2

Remove passengers seat and driver seat.

⚠ WARNING!

*1. It's advisable to have an Öhlins dealer or other qualified person to fit your shock absorber.
2. Instructions in the motorcycle workshop manual are to be followed when changing the shock absorber.
3. When working on the motorcycle it must be securely supported to prevent it from falling over.*

3

Loosen the brake caliper.

4

Remove rear wheel.

5

Loose the adjustment cylinder to the hydraulic spring pre-load adjuster.

6

Remove lower shock absorber bolt.

7

Remove right front seat bracket and remove upper shock absorber bolt.

8

Remove the shock absorber together with the hydraulic spring pre-loader adjuster.

9

Mounting the Öhlin shock absorber in upper bracket with the gas valve backwards, use the original bolt.

10

Mount the adjustment cylinder to the hydraulic spring pre-load adjuster in original bracket. The hose shall be routed between the air box and the battery box.

11

Mount the shock absorber in lower bracket.

12

Mount the rear wheel and the brake caliper.

13

Make sure that all bolts are tightened.

14

Mount seat bracket, drivers seat and passengers seat.

NOTE!

Make sure the attachment bolts are tightened to the correct torque and that nothing fouls the shock absorber when the suspension is being fully compressed or extended. See the motorcycles workshop manual for the correct readings.

⚠ WARNING!

Certain modifications are necessary to install the Öhlins shock absorber. It is vital that the mounting instructions are carefully followed.

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