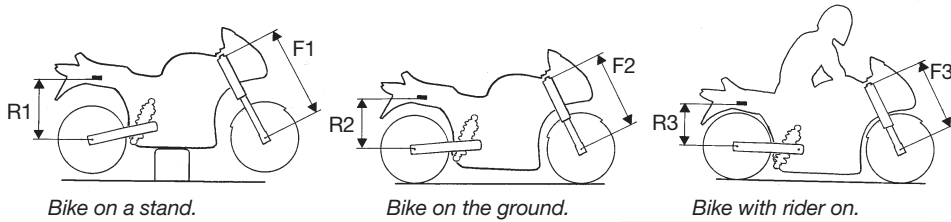


Owners Manual

Mounting instructions Öhlins shock absorber kit KA 209 for Kawasaki ZX-12R



Setup data

Shock absorber length	338 (+12/-0) mm
Shock absorber stroke	67 mm
Spring preload	14 mm
Rebound damping adjuster	16 clicks
Compression damping adj.	12 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 F1 - F3 =

Rear suspension

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

R2. Bike on the ground without rider =

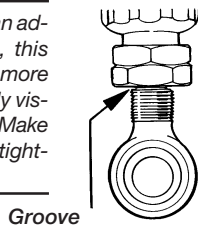
R3. Bike on the ground with rider =

Free sag R1 - R2 =

Ride height R1 - R3 =

WARNING!

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



Groove



Öhlins shock absorber 46 PRCLS

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

Compression damping adjuster

Adjustments are made on top of the reservoir. Low speed adjustments: Slotted centre screw. High speed adjustments: Hexagon screw.

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.

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 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 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.

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 PRCLS	1	KA 209
Tie-rap	2	00231-01
Bolt	1	00439-11
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

Loosen the rear attachments of the fairing, so it is possible to press it downwards and part it, to remove and refit the shock absorbers.

3

Loosen and remove the standard shock absorber. Take it out downwards, between the sidecovers of the fairing. See the motorcycles Workshop manual.

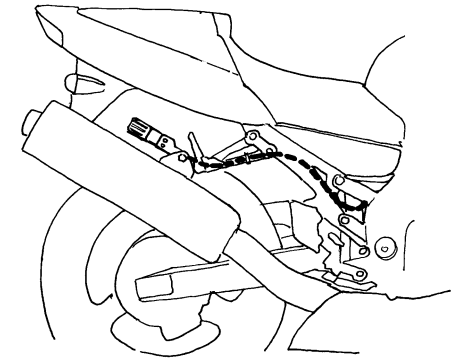
4

Fit the Öhlins shock absorber from downwards in the same position as the standard shock absorber.

5

Attach the hydraulic preloader adjuster to the silencer bracket. Use the bolt (00439-11) provided. Mount the hose to the right side of the brake oil dispenser and make sure that it is positioned without tight bends. Use the tie raps provided to fix it in position.

5



6

Continue your work according to the Owners Manual, section Adjustments

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.

⚠ WARNING!

Certain modifications may be necessary when installing the Öhlins shock absorber/suspension. It is essential that the mounting instructions are carefully followed.

