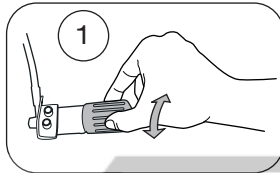


## ADJUSTMENTS

Always ensure that the basic settings made by Öhlins are intact.

### 1 Spring preload

Turn the knob on the hydraulic pre-load adjuster to set the spring preload. Turn clockwise to increase the preload, turn counter clockwise to decrease it.



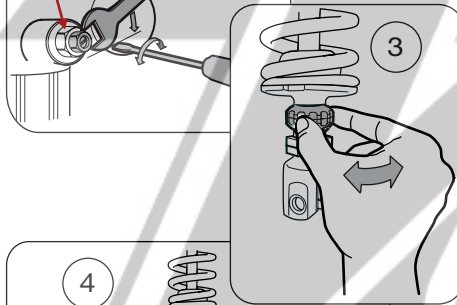
### 2 Compression damping

Adjust on the reservoir end. Low speed: Turn the slotted centre screw. High speed: Turn the hexagon screw.



### 3 Rebound

Turn the wheel on the piston shaft above the end eye/bracket. Turn clockwise to increase damping, turn counter clockwise to decrease.



### NOTE!

When delivered the Öhlins shock absorber is dialed to the recommended settings for the specific vehicle model. If you have changed the setting, reset according to the following:

The adjuster has a right hand thread. Turn the adjuster clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number (see Set-up Data).

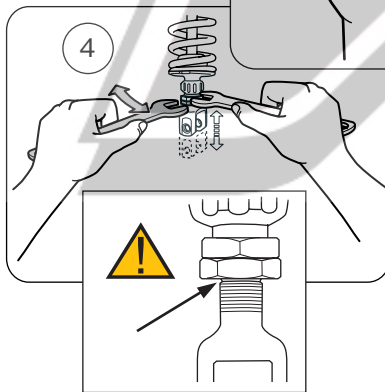
### CAUTION!

Do not use force, delicate sealing surfaces can be damaged. Handtighten only.

### 4 Length

We advise to remove the shock absorber from the vehicle before adjusting the length. Use two 24 mm wrenches. Hold the upper nut with one hand and at the same time loosen the lock nut (lower nut). Turn the end eye/bracket to the desired length.

Tightening torque: 40 Nm



### WARNING!

The adjustable end eye/bracket must not be threaded out more than that the groove is fully visible beneath the lock nut. This is maximum length. After adjusting, make sure that the lock nut is tightened.

# Mounting Instruction

WITH SET-UP DATA

## SHOCK ABSORBER KA646 for Kawasaki ZX-6 R

Before installing this shock absorber, check the contents of the kit listed below. If anything is missing, please contact your nearest Öhlins dealer.

### Kit Contents:

	Part no.	Pcs.
Shock absorber	KA646	1
Washer 10.5/18/1.6	00153-11	1
Washer 8.4/26/5	00426-02	1
Tie wrap	00231-01	2
Öhlins Sticker	00192-01	2
Memo Notes Sticker	01180-01	1
Owner's Manual	07241-02	1

During storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excessive oil/grease with a cloth.

Set-up Data		Shock absorber length	
Spring preload	11 mm	Shock absorber length	340 $\pm$ 0.5 mm
Rebound damping	15 clicks	Stroke	64 mm
Compression		Spring	01093-29
High speed	30 clicks		90 N/mm
Low speed	15 clicks	Free spring length	150 $\pm$ 0.5 mm

Before installing this product, read the Öhlins Owner's Manual!



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Mounting Instructions KA646\_1 Issued 2007-05-04  
These instructions and other documents can be downloaded from [www.ohlins.com](http://www.ohlins.com)

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[www.ohlins.com](http://www.ohlins.com)

## HOW TO INSTALL

### ⚠ WARNING!

It is advisable to have an Öhlins dealer install the shock absorber. Consult your vehicle service manual when installing this product.

**1**

Put the motorcycle on a workstand so that the rear wheel barely touches the ground.

### ⚠ WARNING!

Make sure the vehicle is securely supported so that it will not tip.

**2**

Remove the lower fairing.

**3**

Remove the charging regulator.

**4**

Remove the lower and the upper attachments of the original shock absorber. Remove the original shock absorber from the left side.

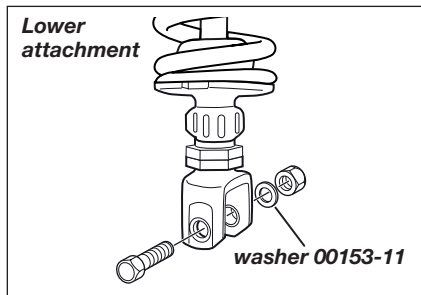
### NOTE!

*Recommendation! Before installing the Öhlins shock absorber:*

- clean the vehicle thoroughly
- adjust the length of the shock absorber (check the headlight angle after adjusting the length!)

**5**

Install the Öhlins shock absorber in the same way as the original unit. Fasten the upper attachment and then the lower, do not tighten yet.



### NOTE!

Lower the motorcycle so that the shock absorber is slightly compressed, before tightening the screws.

**6**

Tighten the upper and the lower attachments.

**7**

Install the hydraulic preload adjuster between the rear foot rest bracket and the frame. Use the washer (00426-02) provided in this kit, to align the bracket.

### ⚠ WARNING!

Make sure that the hydraulic preload adjuster hose runs in soft bends. Also check that it does not come in contact with the exhaust pipe or any sharp edges.

**8**

Reinstall the charging regulator and the lower fairing.

### ⚠ WARNING!

Make sure that all screws 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.

