

⚠ WARNING!

The shock absorber is provided with a separate type reservoir filled with high-pressure nitrogen gas. To prevent danger of explosion, study and make certain that you fully understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for damage to property or personal injury that may result from improper handling.

1. Never tamper with or attempt to disassemble the cylinder or the reservoir.
2. Never expose the shock absorber to an open flame or other excessive heat. The shock absorber may otherwise explode due to too high pressure.
3. Be careful not to damage any part of the gas reservoir. A damaged gas reservoir will impair the damping performance or cause malfunction.
4. Take care not to scratch the contact surface of the piston rod of the cylinder; oil could otherwise leak out.
5. Never attempt to remove the plug at the bottom of the nitrogen gas reservoir. Any attempt to remove the plug implies serious danger.
6. When scrapping the shock absorber, follow the instructions for disposal.

⚠ 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.



Notes

Mounting instructions

HO610

Kit contents

Shock absorber Type 46HRC	HO610	1
Owners manual		1
Sticker	0192-01	2
O-ring	0338-30	1
Bolt M6S 10x65	0429-09	1
Nut M10	0430-01	1
Hook spanner	0710-02	1
Bracket reservoir	1085-01	1
Sticker "Memo notes"	1180-01	1

Set-up data

Total length	270	mm
Stroke	48	mm
Preload spring	13	mm
Rebound adjustment	10	
Compression adjustment	15	

Traction, handling,
comfort and safety



ADVANCED SUSPENSION TECHNOLOGY

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ADVANCED SUSPENSION TECHNOLOGY

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

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 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.

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Before you start

WARNING!

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.

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!

Please study and make certain that you fully understand all the mounting instructions and the owner's manuals before handling this shock absorber kit. If you have any questions regarding proper installation procedures, contact an Öhlins dealer or other qualified person.

WARNING!

The vehicle service manual must be referred to when installing the Öhlins shock absorber.

NOTE!

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.

Mounting Instructions

1

Put the motorcycle on a stand so the rear wheel is clear of the ground. 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 covers and the seat.

3

Remove the battery and the screw holding the battery box on the right side.

4

Loosen the fuel pump, remove the head tank and the chain cover.

5

Loosen the rear mounting bolts of the exhaust system (this is necessary for being able to remove the bolt on the bell crank).

6

Remove the bolt to the bell crank.

7

Remove the lower bolt on the shock absorber.

8

Lift the rear wheel and put a wooden block etc. under the wheel so that the bell crank can be pushed rearwards.

9

Remove the preload adjuster and the upper shock bolt.

10

Push the draging forward and remove the damper downwards including the preload adjuster.

11

Mount the supplied reservoir bracket at the same place where the original preload adjuster were mounted, use the original bolt.

12

Now you can mount the new Öhlin damper. Pull the reservoir and the shock upwards through the linkage and the swing arm. The hose connection shall be pointing backwards.

13

Mount the upper shock bolt and the reservoir in the bracket.

14

Mount the lower shock bolt and the linkage and tighten all the bolts.

15

Mount the head tank and the fuel pump.

16

Mount the battery, the bolt holding the battery box, the chain cover, side covers and seat.

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.