



Öhlins MTB Cartridge kit

STX

Owner's Manual





Öhlins Headquarters Upplands Väsby, Sweden

Öhlins Racing AB - The Story

It was the 1970's, a young man named Kenth Öhlin spent most of his spare time pursuing his favourite sport: motocross.

Being a careful observer, Kenth's attention was continuously drawn to one specific detail - motocross bikes had more engine power than their suspension could handle. It was not long before Kenth realised that better performance could be achieved by improved wheel suspension.

Öhlins Racing was established in 1976, and just two years later the company won its first World Championship title. Despite being in the business for almost 40 years, the search for perfection and new functions is still the main focus of the company.

Congratulations! You are now the owner of an Öhlins product. More than two hundred World Championships and other major world titles are definitive proof that Öhlins products offer outstanding performance and reliability.

Every product has gone through rigorous testing and engineers have spent thousands of hours, doing their very best to use every possible experience from our almost 40 years within the racing sport.

The product that you now have in your possession is pure racing breed that is built to withstand.

By installing this product on your vehicle you have made a clear statement... you are a serious rider or driver with a focus on getting the maximal handling ability and outstanding feedback from your vehicle. Along comes the fact that your Öhlins product will be a long lasting friend, delivering the very best of comfort and performance every time you go for a ride. Go explore!

SAFETY PRECAUTIONS

General Warnings

Note!

The shock absorber is an important part of the bicycle and will affect the stability.

Note!

Read and ensure you understand the information in this manual and other technical documents provided by the bicycle manufacturer before using the product.

Note!

Öhlins Racing AB can not be held responsible for any damage to the shock absorber, bicycle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not followed exactly.

Warning!

After you have installed the Öhlins product, take a test ride at low speed to ensure that the bicycle has maintained stability.

Warning!

If the suspension makes an abnormal noise, or the function is irregular, or if you notice any leakage from the product, stop the bicycle immediately and return the product to an Authorized Öhlins MTB Service Center.

Warning!

The product warranty shall only apply if the product has been operated and maintained in accordance with recommendations in this manual. If you have any questions regarding usage, service, inspection and/or maintenance please contact an Authorized Öhlins MTB Service Center.

Note!

When working with the Öhlins product, always read the bicycle manufacturer's manuals.

Note!

This manual shall be considered as a part of the product and shall therefore accompany the product throughout its life cycle.

SAFETY SYMBOLS

In this manual, mounting instructions and other technical documents, important information concerning safety is distinguished by the following symbols:



The Safety Alert Symbol means: Warning! Your safety is involved.

Warning!

The Warning Symbol means: Failure to follow warning instructions can result in severe or fatal injury to anyone working with, inspecting or using the shock absorber, or to bystanders.

Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the shock absorber.

Note!

The Note Symbol indicates information that is important regarding procedures.

Warning!

This product was developed and designed exclusively for specific bicycle models and shall only be installed on intended bicycle models in its original condition as delivered from the bicycle manufacturer.

Warning!

This product contains pressurized air. Do not open, service or modify this product without proper education and proper tools. Service must be done by Authorized Öhlins MTB Service Centers. In some cases the shock absorber may need to be sent to another region for service.

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THE ÖHLINS CARTRIDGE KIT

Congratulations on your excellent choice of purchasing this high performance Öhlins front fork cartridge kit.

This product is designed for the upcoming, next generation of stars and has been developed by Öhlins' off-road racing department in Sweden, with their experience from the world stars of today.

We recommend you to read this manual carefully for proper bike set up to get the best possible performance out of your suspension components.

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1 HOW IT WORKS

To get a front fork work properly, the front fork and shock absorber must be in balance. To obtain this, it is highly important to have sag and ride height correctly installed on the shock absorber.

A front fork can roughly be divided into three different systems working in parallel;

Spring

The main purpose of the spring is to keep the weight of the rider and bike up in the stroke and push it back up after the fork has traveled down in the stroke. The spring will also help to break an upcoming motion as forces are applied to the front wheel or chassis. This cartridge is designed to be used with the forks standard spring. The Öhlins cartridge kit will affect the characteristic of the fork; you should therefore review your spring rate and adjust in such way that the sag recommended by the vehicle manufacture is achieved.

Hydraulic damping

The main purpose is to slow down upcoming motions, both when the fork is going down and when it is coming back up again. Hydraulic damping is absorbing energy from upcoming motions. Adjust the hydraulic damping character with the adjustment clickers (compression and rebound).

Oil level

Generally the oil in the lower legs is used for lubrication but it also affects the damping curve in the lower part of the stroke. Which oil level to use is specific for each fork model; see the fork original manual for recommended oil levels.

Remember that each system in the front fork is depending on the shock absorber being correctly set up.



2 HOW TO INSTALL

⚠ Warning!

We strongly recommend to let an Öhlins dealer install the front fork cartridge kit.

⚠ Warning!

Before you install this product, read the Öhlins Owner's Manual. The front fork is an important part of your vehicle and will affect the stability.

Tools needed		
Part No	Description	Notes
01892-02	Wrench 38	Top cap
	Contact cleaner	
	Allen key	Remove/install triple clamps
	Socket	12 mm (Piston rod end)
	Soft jaws	
	Torque wrench	
	Vise	
01330-xx Öhlins high performance ff fluid		

2 HOW TO INSTALL

⚠ Warning!

We highly recommend to let an Öhlins dealer install the front fork cartridge. When you install, refer to the fork service manual for specific procedures, tools and data.

1

Put the bike, or the removed fork, in a work stand.

2

Remove the front wheel and the brake caliper.

3

Follow the fork service manual to remove the original cartridge kit from the fork.

4

Drain the fork leg from oil.
Clean the fork legs.

5

Remove the rod end nut from the cartridge.

6

Insert the cartridge kit into the fork leg.
Use the wrench (01892-02) to tighten the top.
Recommended torque: 10 Nm

7

Turn the bike or fork upside down. Disengage the plunger, on the spring side leg, from the lower leg according to the fork service manual.
Pull up the lowers and add damper fluid into the bottom hole of damper side leg according to the fork service manual.

8

Pull back the lowers until you can reach the thread for the damper and spring side piston rod ends. Reinstall the nut on the spring side leg according to the fork service manual.

9

Use a 12 mm socket to tighten the bottom nut on damping piston rod end, recommended tightening torque is 8 Nm.

2 HOW TO INSTALL

10

Turn the bike or fork right side up and reinstall brake, front wheel and tighten the triple clamps according to the fork service manual.

11

Make sure that all removed parts are reinstalled as they were before the installation of the Öhlins Front Fork Cartridge Kit.

Note!

Make sure to tighten the triple clamps to the correct torque. See the vehicle service manual.

3 ADJUSTERS

Compression damping adjuster

Use a 3 mm Allen key to adjust the compression adjuster at the top of the fork leg.

Breather plug

Make sure to aerate the front fork at regular intervals: Loosen the breather plug to release excessive pressure in the front fork.

Rebound damping adjuster

Use a 3 mm Allen key to adjust the rebound adjuster screw at the bottom of the fork leg.

To set

The adjusters have a normal right hand thread. Turn the damping adjusters gently clockwise to fully closed (pos. zero [0]). To open, turn counter clockwise, and count the clicks until you reach the recommended number.

Recommended setup:

Rebound damping 15 click
Compression damping 15 click

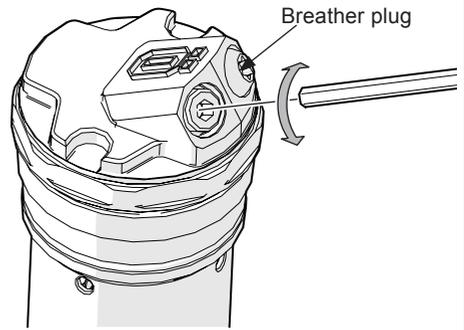
⚠ Caution!

Turn the adjusters carefully not to damage delicate sealing surfaces.

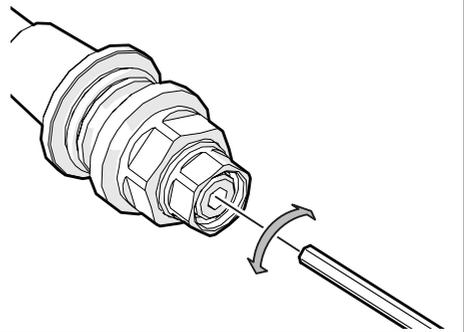
👁 Note!

Öhlins products are subjected to continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of the printing, minor updates may occur. To find the latest information contact an Öhlins dealer. Please contact Öhlins if you have any questions.

Compression damping adjuster



Rebound damping adjuster



4 INSPECTION AND MAINTENANCE

Preventive maintenance and regular inspection reduces the risk of poor function. If there is any need for additional service, please contact an Öhlins dealer.

Recommended Service Intervals

Rec.service every 50 hours

Contact an authorized Öhlins dealer for service.

Disposal

Hand over your discarded Öhlins product to an Öhlins dealer for proper disposal.

Your Öhlins retailer:

Öhlins Racing AB
Box 722
SE-194 27, Upplands Väsby
Sweden

Phone: +46 (0)8 590 025 00
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