

*Öhlins MTB Damper kit*

# ***FGFX 1720/FGBX 1720***

**Owner's Manual**



ADVANCED SUSPENSION TECHNOLOGY



*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 bike 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 bike. 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 front fork 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 front fork, 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 MTB DAMPER KIT

Congratulations on your excellent choice of purchasing this high performance Öhlins front fork damper 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 your suspension set up correctly the front fork and shock absorber must be in balance. To achieve this, both must be considered when setting up the new product.

To set up the fork there is two systems to consider.

## Spring

The main purpose of the spring is to support the rider and bike and restore the set ride height after impact.

Please consult your original fork manual for advice on how to set up your fork's spring.

## Hydraulic damping

The damping controls the forks movement in compression and in rebound by converting the kinetic energy in to heat. The amount of damping is controlled by regulating the oil flow.



## 2 HOW TO INSTALL

### **⚠ Warning!**

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

### **⚠ Warning!**

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

<b>Tools needed</b>	
<b>Description</b>	<b>Notes</b>
28 mm Spanner or flat ground socket	Top cap
Brake cleaner	
Allen key	Remove/install triple clamps
Socket	12 mm (Piston rod end)
Torque wrench	
Soft Jawed Vice	

# 2 HOW TO INSTALL

## **⚠ Warning!**

*We highly recommend to let an Öhlins dealer install the front fork damper kit. 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 lowers and then the original damper kit from the fork.

**4**

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

**5**

If installing a FGBX damper kit, use a rubber mallet and a matching socket, or similar, to remove the pressed in metal spacer in the bottom, on the damper side lowers.

**6**

Remove the rod end nut from the new damper.

**7**

Insert the damper kit into the fork stanchion.  
Use the wrench (01892-02) to tighten the top.  
Recommended torque: 32 Nm.

**8**

Turn the bike or fork upside down. Install the lowers, add oil and grease according to the original fork service manual.

**9**

Pull back the lowers until you can reach the thread for the damper and spring side piston rod ends.

**10**

Use a 14 mm socket to tighten the bottom nut on damping piston rod end, recommended tightening torque is 10 Nm. Tighten spring side nut according to original fork service manual.

## 2 HOW TO INSTALL

### 11

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

### 12

Make sure that all removed parts are reinstalled as they were before the installation of the Öhlins MTB damper kit.

### **Note!**

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*Make sure to tighten the triple clamps to the correct torque. See the original fork service manual.*

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# 3 ADJUSTERS

*Compression damping controls the energy absorption when the front fork is being compressed, thus controls how easily the front fork compresses when you hit a bump. Rebound damping controls the energy absorption when the front fork is being extended and controls how fast the front fork returns to its normal position after being compressed.*

## To set the adjusters

The adjusters have a normal right hand thread. Turn the adjuster clockwise to fully closed position. Then, turn counter clockwise to open, and count the clicks until you reach the recommended number of clicks.

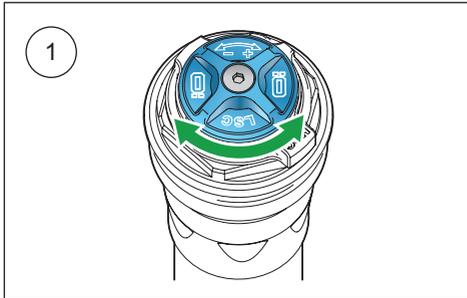
### ⚠ Caution!

*Turn gently not to damage delicate sealing surfaces. Tighten with your hand only.*

## Compression damping adjuster

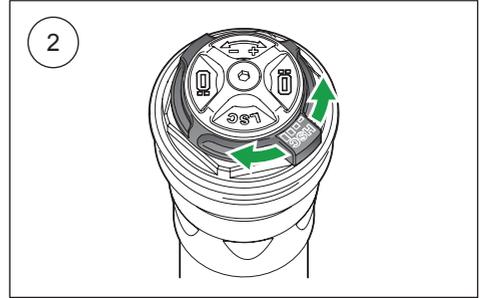
### 1. Adjust low speed

To adjust, turn the blue coloured adjuster on the top of the TTX cartridge. Turn clockwise to increase damping, turn counter clockwise to decrease.



### 2. Adjust high speed

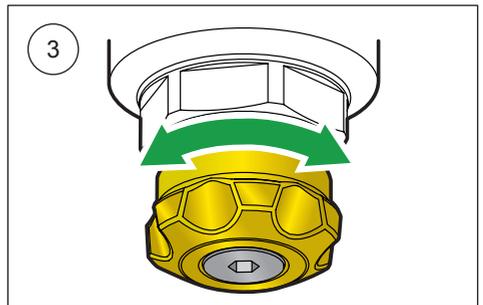
To adjust, turn the black coloured adjuster on the top of the TTX cartridge. Turn clockwise to increase damping, turn counter clockwise to decrease.



## Rebound damping adjuster

### 3. Adjust rebound

Turn the gold coloured adjuster on the end eye/ bracket. Turn clockwise to increase damping, turn counter clockwise to decrease.



# 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 100 hours

This is for the damper kit only.

Contact an authorized Öhlins dealer for service.

For service intervalls of the fork chassies, see the fork manufacturer service manual.

## **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  
Fax: +46 (0)8 590 025 80  
[www.ohlins.com](http://www.ohlins.com)

