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This kit should only be installed by an authorized Öhlins Centre. The installation procedure

requires special Öhlins tools.

Pcs

Safety Precautions Set-up Data

Note!

The front fork is a very important part of the vehicle and will therefore affect the stability of the vehicle.

- Read and make sure that you understand the information in this manual before you use this product. If you have any questions regarding installation or maintenance please contact your nearest Öhlins dealer.
- Öhlins Racing AB can not be held responsible for any damage to the front fork, vehicle, other property or injury to persons, if the instructions for installing and maintenance are not followed exactly.

△ Warning!

This product was developed and designed exclusively for a specific vehicle model and should only be installed on the intended vehicle model in its original condition as delivered from the vehicle manufacturer.

After installing this product, take a test ride at low speed to make sure that your vehicle has maintained its stability.

O Note!

When working on this product, always consult your Vehicle Service Manual.

This Manual should be considered as a part of the product and should 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 front fork, or to bystanders.

© Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the front fork.

Note!

The Note Symbol indicates information that is important regarding procedures.

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Recommended set-up

Compression 6 clicks
Rebound 14 clicks
Spring Preload 1 ring
Oil Level 110 mm

Optional Springs

 Part No.
 Rate

 08760-85
 8.5 N/mm

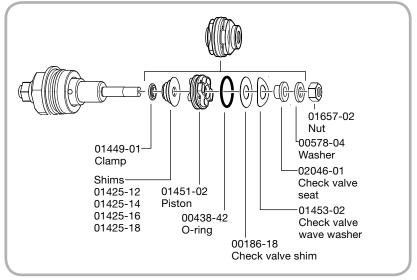
 08760-90
 9.0 N/mm

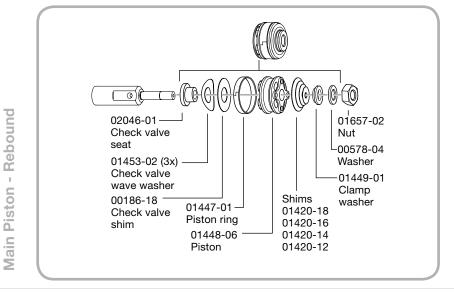
 08760-95
 9.5 N/mm

 08760-10
 10.0 N/mm

 Standard Rate
 8.9 N/mm

Base Valve Piston - Compression





How to Install Recommended Tools

6.8

Use tool 01766-02, push down the preload tube. Pull up the shaft, use an OEM Pull up Tool. Insert a Stopper plate tool. Assemble the top cap to the shaft by tightening it to the lock nut. Tightening torque: 15 Nm.

• Note!

Make sure that the distance between the shaft lock nut and the top of the shaft does not change when assembling the top cap.

6.9

Assemble the top cap to the outer fork leg. Tightening torque: 10 Nm. Put some grease on the thread and the o-ring. Make sure that the Front Fork is fully extended when tightening the top cap.

7 Install the Front Fork

7.1

Install the front fork legs into the fork crowns. Tightening torque upper fork crown: 20 Nm Tightening torque lower fork crown: 10 Nm

Note!

Make sure that the distance between the top of the fork leg and the upper fork crown is the same as measured in chapter 1.3.

7.2

Reinstall the front fender, brake calipers and the front wheel. Do not tighten yet.

7.3

Put the motorcycle on the ground, apply the front brake and compress the front fork 3-4 times. This will put thte legs in an exact parallell position.

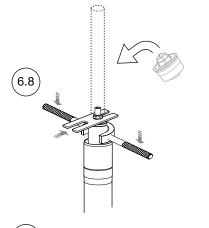
7.4

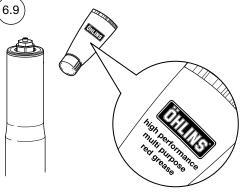
Tighten the front wheel, brake calipers and the front fender. Consult your Vehicle Service Manual for correct tightening torques.

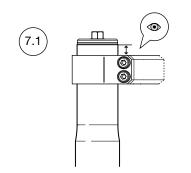
9

Note!

Make sure that nothing restricts the fork movement when fully compressed.







Recommended Öhlins Tools

 Clamping tool Ø10/12
 00727-02

 Clamping tool Ø24
 00787-01

 Preload tube pusher tool
 01766-02

 Seal Head Tool
 04702-04

Lubricants

Öhlins Front Fork Fluid 01309-01 Öhlins Red Grease 00146-01

Adhesives

Loctite 243 Loctite 270 Loctite 542 Loctite 2701

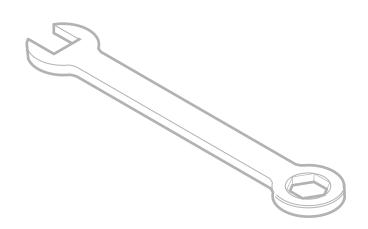
Recommended OEM Tools

Pull-up tool Stopper Plate Tool

Recommended Tools

Heat gun Allen key Open Wrench Vice





How to install How to install

1. Remove the Front Fork

▲ Warning!

It is advisable to have an Öhlins dealer install the Fork Piston Kit.

When installing, consult your Vehicle Service Manual.

1.1

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

▲ Warning!

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

1.2

Remove the front fender, brake calipers and the front wheel.

1.3

Measure the distance from the top of the outer fork leg to the top of the upper fork crown.

Note!

Note the distance. The upper fork crown should be reinstalled at the same position.

1.4

Release the spring preload and count the number of turns.

Note!

Note the number of turns.

1.5

Loosen the upper fork crown by loosening the screws.

1.6

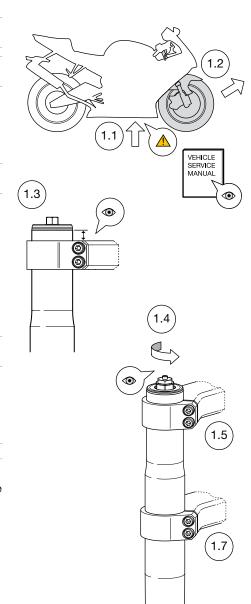
Loosen, but do not remove, the top cap half a turn.

1.7

Loosen the lower fork crown by loosening the screws.

1.8

Remove the fork legs from the fork crowns.



6 Install the Cartridge Assembly into the Fork Leg

6.1

Install the cartridge assembly into the fork leg and tighten it to the form bottom using Seal head tool 04702-04.

Tightening torque: 20 Nm. Loctite 270.

Note!

Check the condition of the copper washer. Replace if worn or deformed.

6.2

Pour approximately 0,5 litre Öhlins Front Fork fluid into the fork leg.

6.3

Install the top cap directly to the shaft, no spring or preload tube. Pull up the outer fork leg and screw it to the top cap. Handtighten only. Pump out all air from the damping system by pulling the outer fork leg up and down 10-15 times.

6.4

Remove the top cap.

6.5

Make sure that the shaft is in the bottom of the cartridge and the outer fork leg is in its bottom position. Measure the distance from the top of the outer fork leg to the oil surface. Recommended oil level according to Set-up Data in this folder.

6.6

Set the distance between the shaft lock nut and the top of the shaft.

• Note!

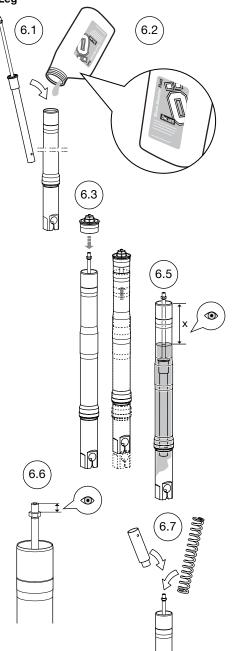
Use the same distance between the lock nut and the top of the shaft as in chapter 2.3

6.7

Drop the spring and preload tube on top of the cartridge.

• Note!

Parts in the same order as in chapter 2.5



How to install How to install

5 Disable the Hydraulic Stop

• Note!

For best performance on race track, we recommend you to disable the Hydraulic Stop.

Please note that this procedure disables the Hydraulic Stop permanently.

5.1

Remove the seal head and top-out spring by sliding them off the shaft.

Note!

Note the order and the direction of the parts.

5.2

Drill two Ø4 mm holes a few millimetres above the bottom surface inside the seal head.

Caution!

Make sure that the holes are above the bottom surface, otherwise the bushing will be damaged when drilling.

5.3

Assemble the seal head and the top-out spring by sliding them on to the shaft.

Note!

Assemble the parts in the same order and direction as before, see step 5.1.

5.4

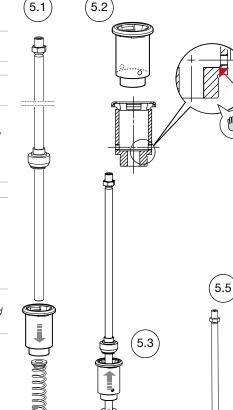
Put the shaft in a vice, use tool 00727-02 (see figure). Assemble the piston holder assembly to the shaft by tightening the piston holder to the shaft and then the lock nut.

Tightening torque: 15 Nm. Loctite 542.

5.5

Put the cylinder tube in a vice, use tool 00787-01 (see figure). Assemble the shaft assembly by tightening the seal head to the cylinder tube.

Tightening torque: 40 Nm. Loctite 2701



ca 30-50 mm

2 Remove cartridge from fork leg

2.1

Loosen the top cap from the outer fork leg and slide the outer fork leg all the way down.

2.2

Use tool 01766-02 and push the preload tube down to expose the lock nut. Insert a Stopper Plate Tool below the lock nut.

2.3

Loosen the top cap from the shaft.

2.4

Measure the distance between the lock nut and the top of the shaft.

Note!

Note the distance between the lock nut and the top of the shaft.

2.5

Remove the preload tube and the spring.

Note!

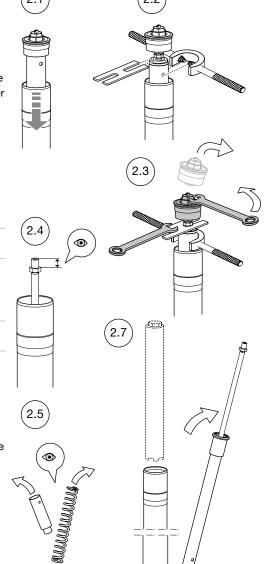
Note the order between the parts and the direction of the spring.

2.6

Turn the fork leg upside down and pour out the oil.

2.7

Use Seal Head Tool 04702-04. Remove the cartridge assembly by loosening the cartridge from the fork bottom.



How to install How to Install

3 Replace Base Valve Piston (Compression)

3.1

Remove the base valve assembly from the fork bottom by loosening the base valve housing.

3.2

Remove the standard piston and all its parts from the base valve by loosening the base valve nut.

3.3

Remove the o-ring from the Öhlins piston kit delivery holder.

3.4

Slide all components on the delivery holder directly on the base valve. Tighten the base valve nut. Tightening torque 5 Nm. Loctite 243.

Note!

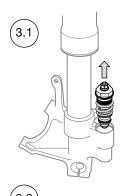
The o-ring and delivery holder are only delivery parts and shall not be assembled.

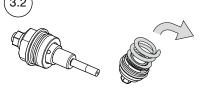
3.5

Reinstall the base valve assembly in the fork bottom. Tighten the base valve housing. Tightening torque 20 Nm.

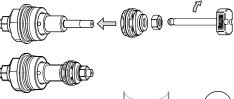
• Note!

After this installation, turning the top nut of the base valve will not have any affect.

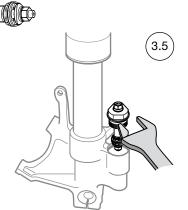








5



4 Replace Main Piston (Rebound)

4.1

Put the cylinder tube into a vice, use tool 00787-01.

4.2

Remove the shaft assembly by loosening the seal head from the cylinder tube. Use Seal head tool 04702-04.

O Note!

Use a heat gun to loosen the Loctite between the seal head and the cylinder tube.

4.3

Put the shaft in a vice, use tool 00727-02. Remove the standard piston holder assembly from the shaft by loosening the lock nut and the piston holder from the shaft.

4.4

Remove the standard piston and shims from the piston holder by loosening the piston holder nut.

4.5

Remove the o-ring from the Öhlins piston kit delivery holder.

4.6

Slide all components on the delivery holder directly on the piston holder and tighten the piston holder nut.

Tightening torque: 5 Nm. Loctite 243.

• Note!

The o-ring and the delivery holder are only delivery parts and shall not be assembled.

Note!

Do not install the piston holder assembly to the shaft yet, see step 5.4.

