

# Owner's Manual

Öhlins Steering Dampers Road & Track



## SAFETY PRECAUTIONS

### **Read this manual carefully!**

Pay special attention to statements preceded by the following notations:



*The safety alert symbol means: Warning!  
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 steering damper, or to bystanders.*

### **CAUTION!**

*The Caution symbol means that special precautions must be taken to avoid damage to the steering damper.*

### **NOTE!**

*The Note symbol indicates information that is of importance regarding to procedures.*

### **▲ WARNING!**

*1. Installing a steering damper 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 that may occur after installing the steering damper.*

*2. Please study and make certain that you fully understand the Owner's Manual and Mounting Instructions before handling this steering damper kit. If you have any questions regarding proper installation procedures, contact an Öhlins dealer.*

*3. The vehicle service manual must be referred to when installing the Öhlins steering damper.*

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## BEFORE INSTALLING

*Öhlins steering dampers are designed to withstand very tough treatment in conjunction with competitions. Many years experience and close cooperation with World Championship teams in road racing has helped the company develop a unique know-how.*

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*Öhlins Racing AB cannot be held responsible for any damage to steering damper or vehicle, or injury to persons, if the instructions for installing and maintenance are not followed exactly. Similarly, the warranty will become null and void if the instructions are not followed.*

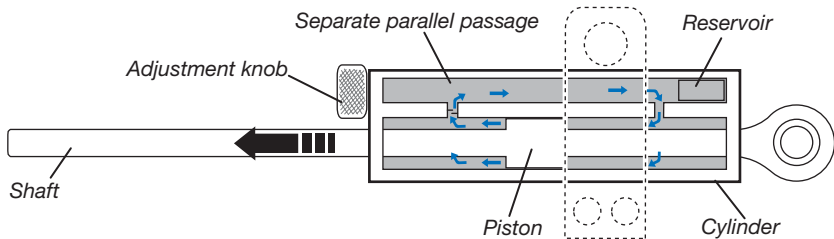
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*During storage and transport, especially at high ambient temperature, the oil and grease used for assembling may run out inside the packing and damage the expanded polystyrene packing material. This is not unusual and is in no way detrimental to the steering damper.*

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## ÖHLINS STEERING DAMPER



### Basic Function

The Öhlins steering damper has a piston, which is fixed on the shaft, that pushes the oil (blue arrows) through a separate parallel passage in the cylinder.

An adjustment knob located on one end of the cylinder is connected to an adjustable valve in the passage to give a broad adjustment range.

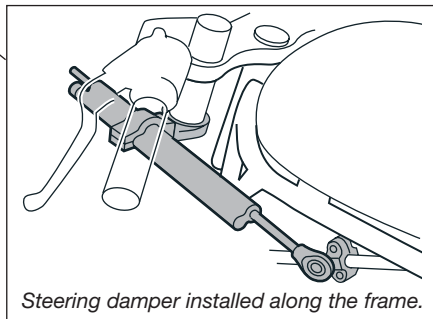
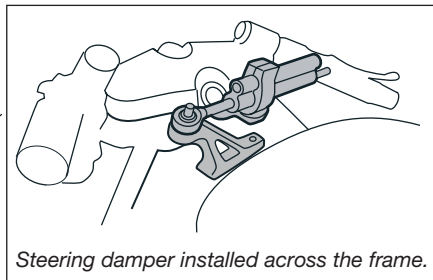
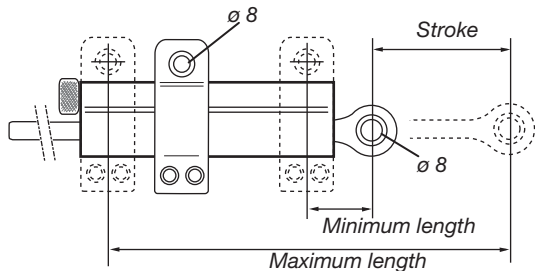
Temperature change causes changes in oil volume, which is controlled by a reservoir located at the other end of the steering damper.

The seals and bushings in the Öhlins steering dampers are PTFE-coated to achieve the lowest friction level possible.

## ÖHLINS STEERING DAMPER

The Öhlins steering damper is available in different lengths and strokes:

	Stroke (mm)	Minimum length (mm)	Maximum length (mm)
SD 115	63	34.5	221.5
SD 121	68	39.5	236.5
SD 110	90	34.5	275.5
SD 100	120	34.5	335.5
SD 140	140	34.5	375.5
SD 200	150	34.5	395.5



## HOW TO ADJUST

The adjustment knob has up to 18 different positions and counts in number of clicks from maximum hard position.

1. Set the damper to maximum hard by turning the knob clockwise until it stops.
2. Set the damper to 10\* clicks counter clockwise towards maximum soft position.
3. Go for a test ride.

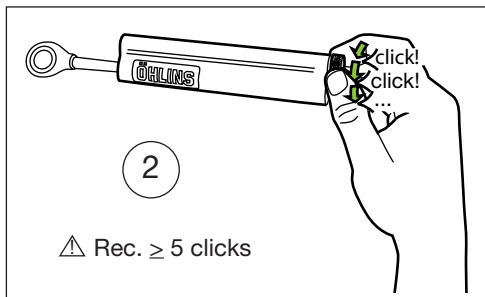
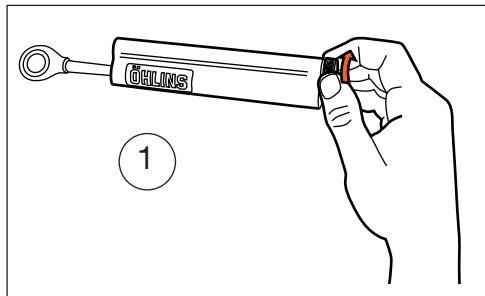
If your vehicle feels unstable, turn the adjustment knob clockwise two clicks at a time, until you have the performance you desire.

### **⚠ WARNING!**

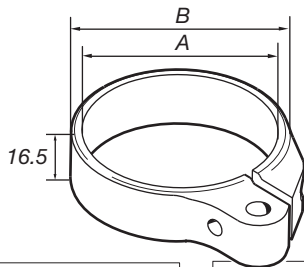
*Do not set the damper to less than 5 clicks.*

Urban areas:      rec. maximum soft

\* If no other recommendations are given in the Mounting Instructions folder.



## CLAMPS FOR ÖHLINS STEERING DAMPERS



Part No.	Fork leg dimension	Clamp dimension A x B
02235-01	38	38x44
02235-02	39	39x45
02235-03	40	40x46
02235-04	41	41x47
02235-05	42	42x48
02235-06	43	43x49
02235-07	44	44x50
02235-08	45	45x51
02235-09	46	46x52
02235-10	48	48x54

Part No.	Fork leg dimension	Clamp dimension A x B
02235-11	50	50x56
02235-12	51	51x57
02235-13	52	52x58
02235-14	53	53x59
02235-15	53.5	53.5x59.5
02235-16	54	54x60
02235-17	55	55x61
02235-18	56	56x62
02235-19	58	58x64

## SERVICE INTERVALS

Recommended inspection by an Öhlins Service Centre:

Street/ Road	Every 20 000 - 30 000 km
Race Track	Every 10 hours

## DISPOSAL

Discarded Öhlins products should be delivered to an authorized work shop or Öhlins distributor for proper disposal.

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*Öhlins products are subject to continuous improvement and development. Therefore, although these instructions include the most up-to-date information available at the time of printing, there may be minor differences between your steering damper and this manual. Please consult your Öhlins dealer if you have any questions regarding the contents of this manual.*

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