Mounting instruction
Öhlins hydraulic spring pre-load adjuster for shock absorbers type 46 - Ducati 748 R

Öhlins hydraulic pre-load adjuster
Your new hydraulic pre-load adjuster has integrated unit specially designed for Ducati 748 R.

Adjustments
By turning the adjuster screw clockwise the pre-load is set harder and reverse, when turning counter clockwise. The integrated adjuster ratio is 2:1. Each turn by the adjuster adjust the spring height with 0.5 mm.

Example:
Initial preload: 12 mm,
Shock absorber stroke: 65 mm,
Adjustment range: 10 mm.
12 + 65 + 10 = 87;
the spring needs to have 87 mm or more, as maximum stroke.

If you change to a shorter spring:
Add initial preload + the stroke of the shock absorber and the max adjustment range of the pre-load adjuster (8 or 10 mm). This sum is not allowed to exceed the maximum stroke of the chosen spring.

Notes
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.

**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.

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

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

4. Select the correct angle for the unit. Make sure that there is enough clearance for the unit, when the suspension is compressed or released.

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**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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Pcs.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic pre-loader</td>
<td>1</td>
<td>03649-01</td>
</tr>
<tr>
<td>Guide nut</td>
<td>1</td>
<td>03608-01</td>
</tr>
<tr>
<td>Lock nut</td>
<td>1</td>
<td>03609-01</td>
</tr>
<tr>
<td>Spring clip</td>
<td>1</td>
<td>00676-01</td>
</tr>
</tbody>
</table>

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**Mounting instructions**

1. Remove the spring by compressing it and then remove the spring clip.

2. Remove the standard adjustment nuts and mount the lock nuts for the preload adjuster. The guide nut (3608-01) shall be on top of the lock nut (3609-01). Turn the guide nut in position and lock it with the lock nut.

3. Put the preload adjuster in position and mount the spring by compressing it, then put the spring clip in place.

**CAUTION!**
The Öhlins shock absorber has normally a spring with a wire diameter of 10.25 mm (01091-19). Older models can be equipped with a thicker spring. This should be changed into spring 01091-19.

**NOTE!**
When measuring spring wire thickness you should be aware that the paint increases the diameter of the wire a few hundreds of a millimeter.

4. Select the correct angle for the unit. Make sure that there is enough clearance for the unit, when the suspension is compressed or released.

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**NOTE!**
Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the hydraulic spring preload adjuster when the suspension is being fully compressed or extended.