

MOUNTING INSTRUCTIONS

Step 2 - Installing the Öhlins shock absorber

▲ WARNING!

1. It is advisable to have an Öhlins dealer install the shock absorber.
2. Follow the instructions in the vehicle service manual when changing the shock absorber.
3. When working on a raised vehicle, make sure that it is securely supported to prevent it from tipping over.

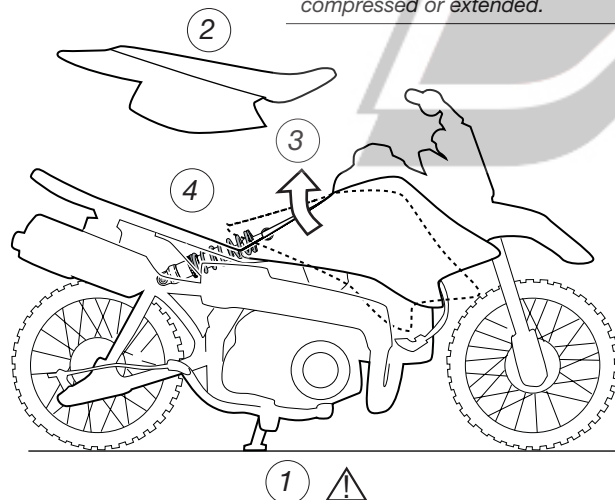
Before installing the shock absorber you need to install the correct spring. See Step 1 in this folder for instruction.

1

Put the motorcycle on the centre stand so that the rear wheel is off the ground.

2

Remove the side panels and the seat.



3

Fold up the tank so that the upper attachment of the original shock absorber can be reached. Loosen and remove the original shock absorber.

4

Install the Öhlins shock absorber in the same way as the original unit. Note that the cylinder head is down. Use original bolts.

5

Reinstall the side panels and the seat. Make sure the tank is fastened.

NOTE!

Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the shock absorber when the suspension is being fully compressed or extended.



Öhlins Racing AB, Box 722, S-194 27 Upplands Väsby, Sweden.
Phone +46 8 590 025 00. Fax +46 8 590 025 80.

www.ohlins.com

YA 688 - Issued 2006 05 24



Mounting Instructions

Öhlins Shock Absorber YA 688 for Yamaha TT-R50E 2006

Kit Contents

Before installing this shock absorber, please check the contents of the kit listed below. If any part is missing, please contact your Öhlins dealer.

Shock absorber 36DW	YA 688 (1)
Spring clip	00116-01 (1)
C-spanner	00710-01 (1)
Öhlins stickers	00197-01 (2)
Öhlins Owner's manual	(1)

NOTE!

No spring included in this kit! See spring recommendation in this folder. Contact your nearest Öhlins dealer for spring recommendations.

Please read before installing

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

Data

Shock absorber length	242 mm
Stroke	54 mm
Recommended Spring preload:	6 mm

© Öhlins Racing AB. All rights reserved. Any reprinting or unauthorized use without the written permission of Öhlins Racing AB is prohibited. Printed in Sweden.



SAFETY PRECAUTIONS

Read this manual carefully!

Pay special attention to statements preceded by the following notations:



The Safety alert symbol means: Attention! Your safety is involved!

WARNING

Failure to follow these warning instructions may result in **severe or fatal injury** to anyone working with, inspecting or using this shock absorber, or to bystanders.

CAUTION!

Caution indicates that special precautions must be taken to avoid damage to the shock absorber.

NOTE!

Indicates information that is of importance regarding mounting procedures.

NOTE!

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 shock absorber and this manual. Please consult your Öhlins dealer if you have any questions regarding the contents of this manual.

WARNING!

1. **Installing a shock absorber, that is not approved by the vehicle manufacturer, may affect the vehicle's stability.** Öhlins Racing AB cannot be held responsible for any personal injury or damage that may occur after fitting the shock absorber.

2. The **vehicle service manual must be referred to** when installing this shock absorber.

3. Please study and make certain you fully understand the mounting instructions and the owner's manual before handling this shock absorber. If you have any questions regarding proper installation procedures, contact an Öhlins dealer.



NOTE!

During storage and transportation, 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 shock absorber.

SPRING RECOMMENDATION

Rider's weight Kg	Rider's weight Lb	Spring rate N/mm	Spring Part No.
≤ 30	≤ 65	20	00281-10
31-40	66-89	25	00281-22
41-50	90-112	30	00281-11

For heavier riders use a stiffer spring. Contact your Öhlins dealer for advice.

MOUNTING INSTRUCTIONS

Step 1 - Installing the spring

WARNING!

- It is advisable to have an Öhlins dealer install the shock absorber.
- Follow the instructions in the vehicle service manual when changing the shock absorber.
- When working on a raised vehicle, make sure that it is securely supported to prevent it from tipping over.

1

Measure the free length of the spring (A). Loosen the lock nut and turn it to minimum position.

2

Turn the shock absorber upside down. Install the spring and then the spring clip.

3

Turn the shock absorber upright. Now turn the spring platform nut down to touch the spring. **Do not compress the spring.**

CAUTION!

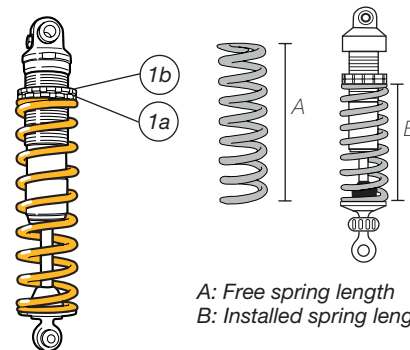
Make sure the spring clip is seated correctly inside the spring and on the shaft.

4

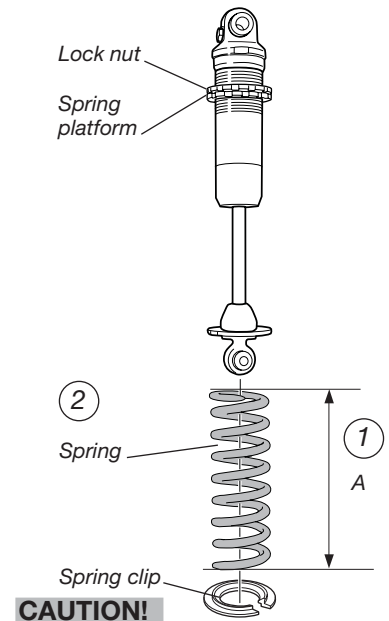
Spring preload adjustment

Set the spring preload before installing the shock absorber to the vehicle.

Use the C-spanner provided in this kit. Turn the spring platform nut (1a) to set the spring preload. Lock the setting with the lock nut (1b).



A: Free spring length
B: Installed spring length
A - B = Spring preload



CAUTION!

CHANGING THE SPRING

1

Remove the shock absorber from the vehicle.

2

To remove the original spring you must first loosen the spring preload.

2

Remove the spring clip and then the original spring.

3

Install the new spring and set the new spring preload according to the section above.