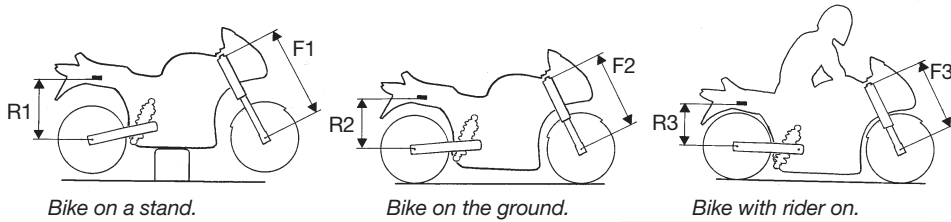


# Owners Manual

## Mounting instructions Öhlins shock absorber kit YA 047 for Yamaha FZR 600



### Setup data

Shock absorber length	300 (+12/-0) mm
Shock absorber stroke	50 mm
Spring preload	12 mm
Rebound damping adjuster	14 clicks
Compression damping adj.	5 clicks

### Checking sag and ride height

#### Front suspension

- F1. Bike on a stand with the suspension fully extended = .....
- F2. Bike on the ground without rider = .....
- F3. Bike on the ground with rider = .....

Free sag  $F1 - F2 = \dots\dots\dots$

Ride height  $F1 - F3 = \dots\dots\dots$

#### Rear suspension

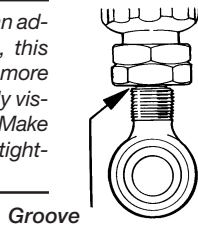
- R1. Bike on a stand with the suspension fully extended = .....
- R2. Bike on the ground without rider = .....
- R3. Bike on the ground with rider = .....

Free sag  $R1 - R2 = \dots\dots\dots$

Ride height  $R1 - R3 = \dots\dots\dots$

### WARNING!

If the shock absorber has an adjustable end eye/bracket, this must not be treaded out more than that one groove is fully visible beneath the lock nut. Make sure that the lock nut is tightened after adjustment.



Groove



### Öhlins shock absorber 46 HRCL

Your Öhlins shock absorber type 46 HRCL features the following adjusters:

#### Compression damping adjuster

Adjustments are made on top of the reservoir.

#### Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

#### Spring preload adjuster

Adjustments are made by turning the rings on the shock absorber body. Clockwise for harder adjustment, counter clockwise too release the preload.

#### Length adjuster

Adjustment is made by turning the end eye and tightening with the lock nut.

### NOTE!

When delivered the Öhlins shock absorber is dialed to recommended settings for the specific brand and make of the motorcycle. If you have changed the setting check like this:

The adjusters have a normal right hand thread. Turn the damping adjusters clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number of clicks. See Setup data at page 4.

### CAUTION!

Do not use too much force, delicate sealing surfaces can be damaged.



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](http://www.ohlins.com)

Part No. YA 047. Issued 02 01 29

© 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 signals

Important information concerning safety is distinguished in this manual by the following notations:



**The Safety alert symbol means:  
Caution! 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 suspension, or to bystanders.**

### CAUTION!

**Caution indicates that special precautions must be taken to avoid damage to the suspension.**

### NOTE!

**This indicates information that is of importance with regard to procedures.**

## Before installation

Öhlins Racing AB can not be held responsible for any damage whatsoever to shock absorber or 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.

### ⚠ WARNING!

**1. 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.**

**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**

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.

### 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.**

## Kit contents

Before installing the shock absorber, please check the contents of the kit. If anything is missing, contact your Öhlins dealer.

Description	Pcs.	Part No.
Shock absorber 46 HRCL	1	YA 047
Tie-rop	2	00231-01
Mounting rubber	2	00230-01
Hose clamp	2	00643-02
C-spanner	1	00710-02
Sticker memo notes	1	01180-01
Sticker Öhlins	2	00192-01
Owners manual	1	

## Mounting Instructions

**1**

Remove the bottom of the fairing.

### ⚠ WARNING!

- 1. It's advisable to have an Öhlins dealer or other qualified person to fit your shock absorber.**
- 2. Instructions in the vehicle service manual are to be followed when changing the shock absorber.**
- 3. When working on a lifted vehicle it must be securely supported to prevent it from falling.**

**2**

Put the motorcycle on a stand so the rear wheel is clear of the ground. Make sure it's steadily fixed so it will not fall over.

**3**

Remove the seat and the side covers.

**4**

Remove the lower drag link bolt and the lower shock absorber bolt.

**5**

Remove the upper shock absorber bolt, lift the rear wheel and remove the damper unit downwards.

**6**

Mounting of the Öhlins shock will start by pulling the reservoir and the damper itself upwards, and the reservoir out on the right side of the bike, and mount the upper bolt of the shock absorber. (When mounting lift the rear wheel.)

**7**

Lift the rear wheel again and mount the lower shock bolt to the link.

**8**

Mount the reservoir using mounting rubbers and supplied hose clamps. See figure.

**9**

Make sure that all bolts are tightened.

**10**

Mount the side covers and seat, lift off the bike from the stand. Mount the bottom of the fairing.

### 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.**

