

Bike on the around.

317.5 mm

53.5 mm

14 clicks

13 mm

### Setup data

Shock absorber length Shock absorber stroke Spring preload Rebound damping adjuster

### 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 = F1 - F2 = ..... Free sag F1 - F3 = ..... **Ride height** 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 = ..... R1 - R2 = ..... Free sag R1 - R3 = ..... **Ride height** 

### **Owners Manual**

Mounting instructions Öhlins shock absorber kit HO 203 for Honda VFR 800 F

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### Öhlins shock absorber 46 DRS

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

### Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

### Spring preload adjuster

Adjustments are made by turning the knob on the hydraulic adjuster. Clockwise for harder adjustment, counter clockwise too release the preload.

### 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 last page.

### CAUTION!

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

### 42 Part No. HO 203. Issued 02 03



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Spring

preload

adjuster

Rebound

damping

adiuster



### Safety signals

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

### Â

The Safety alert symbol means: Caution! Your safety is involved.

### A 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.

### A 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 DRS	1	HO 203
Pre load adjuster bracket	1	01164-01
Bolt M6x35	2	01046-06
Bolt M6x16	1	01046-01
Nut M6	2	00430-02
Spacer, nylon	4	01138-01
Tie rap	1	00231-01
Sticker memo notes	1	01180-01
Sticker Öhlins	2	00192-01
Sticker	1	00191-06
Owners manual	1	

### Notes

### 12

Mount the lower shock absorber bolt and refit the pulling rod to the frame and to the triangle link.

### NOTE!

The rear wheel has to be lowered when the trianale link is assembled.

### 13

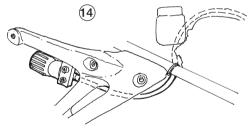
The hydraulic pre-load adjuster shall be mounted at the rear footrest bracket. Use the bracket, spacers, screws and nuts supplied.

## 13

Bracket assembling

### 14

Fix the hose with the tie raps supplied



### 15

Refit the brake hose attachment behind the wheel.

### 16

Refit the rear wheel cover and the silencer unit.

### 17

18

Refit the battery, the small side covers, the license plate holder, fuel tank, the rear fairing and the seat.

### 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.

### Connect the electrical wires and the battery.

19 Continue your work according to the Owners Manual, section adjustments.

### Mounting instructions

### 1

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.

### A 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.

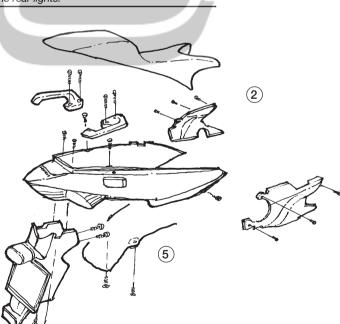
3. When working on a lifted vehicle it must be securely supported to prevent it from falling.

### 2

Remove the lifting handlebars (4 screws), the seat, the rear fairing (4 screws), the license plate holder (6 screws) and the small side covers (2x3 snap fasteners).

### NOTE!

Disconnect the electrical wires before removing the rear lights.

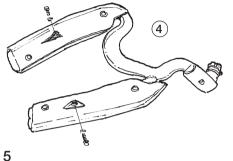


Disconnect and remove the battery.

### 4

3

Loosen the bolts holding the silencers and the clamp of the rear pipe and remove the whole unit.



Loosen the plastic cover above the wheel.

### 6

9

Remove the original pre-load adjuster and its bracket as a unit. Part the bracket from the adjuster and remove the adjuster wheel from the adjuster.

# (8)

### NOTE!

When loosening the adjuster wheel a spring and a ball will be released.

### 7

Loosen the fuel tank and turn the rear of the fuel tank to the right so that the upper shock absorber attachment is accessible from above.

### 8

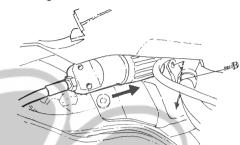
Loosen upper attachment nut of the shock absorber from above.

Loosen the lower shock absorber and the pulling rod from the triangle link . Loosen the pulling rod from the frame and remove it

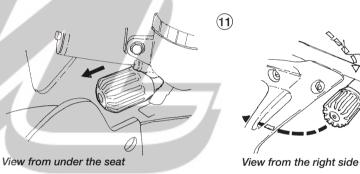
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### 11

Attach the Öhlins shock absorber in reverse order. The hydraulic pre-load adjuster should be pulled out to the right side of the motorcycle according to illustrations.



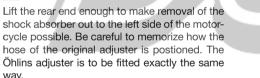




### NOTE!

View from the left side

To make the procedure possible, the screw holding the brake hoses behind the shock absorber must be removed and the hoses pushed downwards. The plastic cover above the wheel must be lowered as far as possible.



### NOTE!

10

way.

The rear wheel must be raised 100-150 mm to clear enough space to take the shock absorber out. It may be necessary to loosen the brake hose attachment behind the rear wheel. The plastic cover above the wheel must be lowered as far as possible.