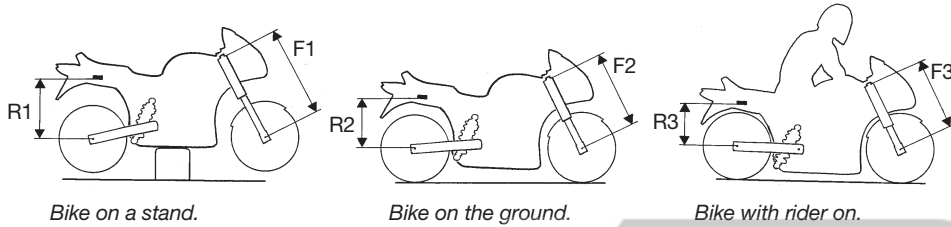


# Owners Manual

## Mounting instructions Öhlins shock absorber SU 349 for Suzuki RF 900 R '94-'96



### Setup data

Shock absorber length	310 mm
Shock absorber stroke	64 mm
Shock absorber spring part No.	01093-31
Spring preload	15 mm
Rebound damping adjuster	12 clicks
Compression damping adjuster	10 clicks

### Front suspension

Öhlins front fork springs part No. 08812-01

### 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 = .....

Ride height F1 - F3 = .....

#### Rear suspension

R1. Bike on a stand with the suspension fully extended = .....

R2. Bike on the ground without rider = .....

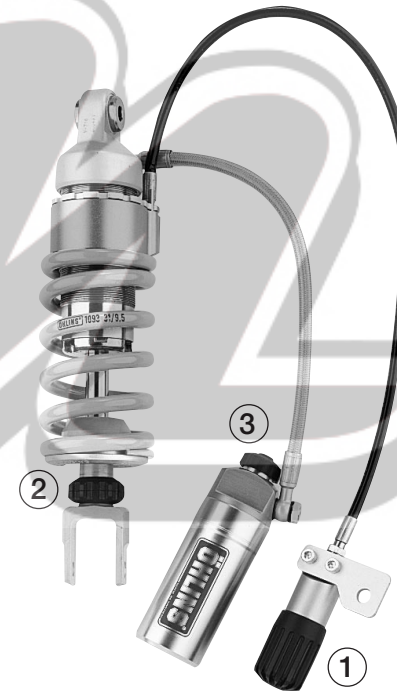
R3. Bike on the ground with rider = .....

Free sag R1 - R2 = .....

Ride height R1 - R3 = .....

### NOTE!

*If ride height is higher than recommended, softer spring/springs must be used.  
If ride height is lower than recommended, harder spring/springs must be used.  
Contact your Öhlins dealer for advice.*



### Öhlins shock absorber type 46 HRCS

Your new Öhlins shock absorber features the following adjustments:

- Compression damping adjustment
- Rebound damping adjustment
- Hydraulic spring preload adjustment

### NOTE!

*Your new shock absorber is dialled-in to Öhlins recommended settings.  
If you have "played" with the adjusters, please check the setting.*

The adjusters have a normal right-hand thread. On the compression and the rebound damping adjusters, click position zero (0) is when the adjusters are turned clockwise (in) to fully closed. Using too much force when closing the adjusters will destroy important sealing surfaces. Turn counter clockwise (out) to open and count the clicks until you reach the recommended number of clicks. See "Setup data" at page 4. With the adjusters you optimize the suspension for your riding style and the track you are racing at. For details see the "Owners manual".

### Spring preload adjuster

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

- 1 Spring preload adjuster**  
Adjustments are made by turning the knob on the hydraulic adjuster.
- 2 Rebound damping adjuster**  
When adjusting use no tools, simply your fingers
- 3 Compression damping adjuster**



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## 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, listed on the front page of this instruction. If anything is missing, contact your Öhlins dealer.

Description	Pcs.	Part No.
Shock absorber	1	SU 349
Sticker Öhlins	2	00192-01
Sticker memo notes	1	01180-01
Tie-rap	2	00231-01
Owners manual	1	

## Mounting instructions

1

Remove rear bottom parts of fairing.

2

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

### 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.*

3

Remove the seat and the side covers.

4

Remove the gas reservoir of the original shock absorber.

5

Loosen and remove the lower attachment bolt and the lower shock absorber bolt.

6

Remove the upper attachment bolt and then remove the shock absorber downwards.

7

Begin the mounting of the Öhlins shock absorber by pulling the reservoir and the preload adjuster upwards, then pushing the shock absorber upwards. Pull the reservoir out on the left side and the preload adjuster out on the right side. Mount the upper shock absorber bolt.

8

Fit the shock absorber to the lower fixing point and also fit the bolt to the drag link.

9

Mount the reservoir in the bracket reserved for the original reservoir.

10

Mount the preload adjuster on the inside of the silencer bracket using silencer screw. Use supplied tie-raps to fix the hose to the frame.

11

Mount side covers, seat and 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.*