

402 mm

104 mm

18 clicks

15 clicks

1.5 turns

std.

Bike on a stand.

Bike on the around.

Setup data

Lenath Stroke Rebound adjustment Compression adjustment High speed comp. adi Free sag. rear Free sag, front Ride height, rear Ride height, front Front fork adjustment

NOTE!

Make notes when the correct spring is mounted and sag and ride height is adjusted.

Spring pre-load тт

Notes

Checking sag and ride height

Front suspension F1. Bike on a stand with the suspension fully extended = 25±5 mm F2. Bike on the ground without rider = 25±5 mm 70±5 mm F3. Bike on the ground with rider = 60±5 mm F1 - F2 = Free sag

Ride height

Rear suspension	
R1.Bike on a stand with th suspension fully extend	
R2. Bike on the ground with	<u>nout</u> rider =
R3. Bike on the ground with	<u>n</u> rider =
Free sag	R1 - R2 =
Ride height	R1 - R3 =
NOTE!	
If ride height is higher th softer spring/springs mu If ride height is lower th harder spring/springs m Contact your Öhlins dea	ist be used. an recommended, ust be used.

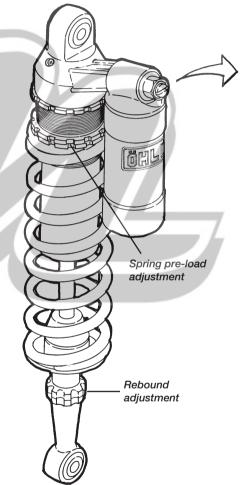
F1 - F3 =

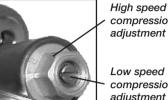


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Mounting Instructions

Öhlins shock absorber kit YA 590 for Yamaha YZ 85 2005





compression adiustment

Low speed compression adjustment

Öhlins shock absorber 46 PRXW

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

Compression damping adjuster

Adjustments are made on top of the reservoir. Low speed adjustments: Slotted centre screw. High speed adjustments: Hexagon screw.

Rebound damping adjuster

Adjuster whell on the piston shaft above the end bracket.

Spring pre-load adjuster

Adjustment made by rings on cylinder house. Use C-spanner.

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 too much force, delicate sealing surfaces can be damaged.

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Safety signals

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

A

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

Description	Pcs.	Part No.
Shock absorber	1	YA 590
Spring clip	1	00629-01
C-spanner	1	00710-02
Sticker Öhlins	2	00197-01
Sticker memo notes	1	01 180-01
Owners manual	1	

Notes

Notes

Assembly of Öhlins Shock Absorber

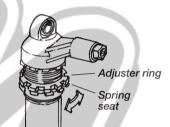
with spring separately supplied

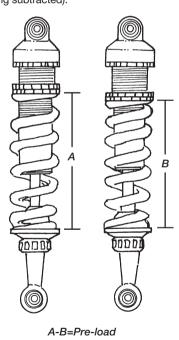
Make sure that all components are included; spring, spring clip and washer. Measure the free length of the spring.

2

1

Place the washer between the upper spring platform and the spring. The text on the spring should be facing upward.





Spring support 0543-01 0543-02 Spring Spring chip 519-01 629-01

Fit the spring clip, turn the shock absorber so the spring rests against the spring seat and turn the rings (upper spring platform and locking nut) so they touch the upper surface of the spring.

3

Turn the upper spring platform approximately 8 laps (10 mm) clockwise to pre-load the spring before fitting the shock absorber to the motorcycle.

5

4

Fit the shock absorber and measure the free sag with the motorcycle off the ground. (See page 4 for procedures)

6

Let the motorcycle stand on the ground without rider. Fine adjust the pre-load by turning the spring platform until recommended sag is achieved (see Setup data). Measure the spring again and make a note of the pre-load (= free spring length with the length of the compressed spring subtracted).

Mounting instructions

1

Put the motorcycle on a stand so the rear wheel has ground clearance. Make sure it's steadily positioned and 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.

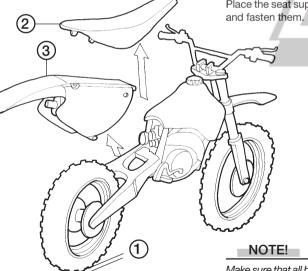
3. When working on a lifted vehicle it must be securely supported to prevent it from falling.

2

Remove the seat by loosening the rear attachment screws.

3

Loosen the rear frame and the hose clamp from the air filter. Disconnect electrical wires. Remove the whole unit with air filter and muffler.



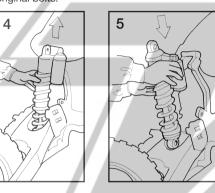
4

Loosen the lower and the upper attachment of the original shock absorber and remove it.

5

6

Fit the Öhlins shock absorber in the same way as the original unit. Fasten it by using the two original bolts.



Place the seat support and seat back in position

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

7

Continue your work according to the Owners Manual, section Adjustments.

Spring guideline

		Shock Absorber		Rear	Rear	Front	Front
Brand	Riders weight	Spring	Spring rate	Recom.	Recom.	Recom.	Recom.
	Kg/pounds	Part.No.	N/mm	Static sag	Ride height	Static sag	Ride height
Yamaha	35/77	698-05	42	25±5 mm	70±5 mm	25±5mm	60±5 mm
YZ 85	40/88	698-06	44				
	45/99	698-07	46				
	50/110	698-08	48				
	55/121	698-09	50				