

Content		
Description	Quantity	Part no.
Bracket	2	G99364-25
Adapter plate	4	G91964-05
Bracket	2	G91964-26
Bracket line left	1	G91964-27L
Bracket line right	1	G91964-27R
Bracket	2	G91964-28
Bracket	2	G91964-29
Camber washer kit	1	G91964-88
Shock absorber	2	UNZ MP36MT
Lockring	2	00533-01
Spring 60 N/mm	2	48010-15
Sleeve	2	G99364-05
Top mount plate	2	G91964-03
Bearing support	2	G94058-01
Support ring	2	G91058-35
Upper sleeve	2	G91058-24
Cylinder sleeve	2	G91058-13S
Top mount plate (alternative)	2	G91964-03S
Öhlins sticker	1	
Owner's manual	1	
C-spanner	2	

**Note!**

Please note that there can be small differences between your product and the images in these instructions.

**Note!**

Please note that during storage and transport, especially at high ambient temperature, some of the oil and grease used for assembly may leak and stain the packaging. This will not cause damage to the product, wipe off the excessive oil or grease with a cloth.

**Note!**

Before you install this product, check the kit contents. If anything is missing, please contact an Öhlins dealer.

**Warning!**

Before you install this product, read the Öhlins Owner's manual. This product is an important part of the vehicle and the vehicle stability.

## Shock absorber kit for Porsche 911 (993)

# **POR GP01 FRONT**

## Mounting Instruction

# MOUNTING INSTRUCTIONS

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## **⚠ Warning!**

*We strongly recommend to let an Öhlins dealer install this product.*

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## **⚠ Warning!**

*If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.*

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## **☐ Note!**

*When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.*

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## **☐ Note!**

*Before you install this product clean the vehicle.*

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**1**

Raise the vehicle and put it on jack stands

**2**

Remove the front wheels.

**3**

Remove the drop link from original strut.

Even if the stabilizer drop link is not coupled to the damper.

**4**

Loosen the bolts for the lower strut attachments.

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## **☐ Notes!**

*Support the wheel hub in an appropriate way on each side of the vehicle so that the brake hoses can not be damaged.*

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**5**

Loosen the upper attachments and remove the original struts from the car. Pay attention to all cables and brake lines including holders. The brake line must be disconnected properly.

# MOUNTING INSTRUCTIONS

6

**If the strut is not pre-assembled:**

Install the top mount, both lock nuts and the lower spring seat. Counter the lower spring plate against the two lock nuts. Tighten the lock nut to 50-60 Nm. Install the dust boost, the spring and the original spring seat over the seat see fig.1.

Install the original top mount and head lock nut. Tighten the head lock nut with a torque of 35-40 Nm. (Only applies if the original top mounts are used).

**If the strut is pre-assembled:**

Install the Öhlins McPherson strut to the vehicle. Brake line hoses must be screwed together again and professional brake bleeding must be carried out see fig.1

7

Install the drop link of the stabilizer.

**Notes!**

*When tightening the top mount nut, the shock absorber shaft must be held in position with 5 mm allen key (if strut is not pre-mounted). Don't use power tools!*

8

Tighten the top mount nut (for torque see table).

9

Raise the wheel hub with a jack to remove the freeplay of the lower strut attachment bolts before tightening them. (Torque see table)

**Notes!**

*Make sure that all bolts are tightened to the correct torque and nothing fouls or restricts movement of the strut when it is being fully compressed or extended. Test this over the whole steering range from lock to lock.*

10

Make sure that all removed parts are reinstalled in the same way as they were before the installation of the Öhlins shock absorber.



Fig. 1: Brake line and cable are mounted on the new attachments on the Öhlins strut.

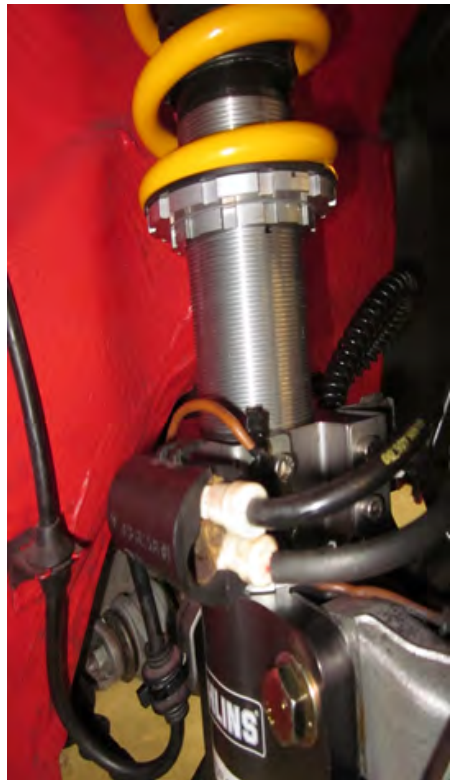


Fig. 2: Damper mounted to wheels mounts

# ADJUSTMENTS

## **⚠ Warning!**

*Before you drive, always make sure that the setup is according to the recommended setup data. Read about adjustments and setting up in the Öhlins Owner's Manual before you make any adjustments. Contact an Öhlins dealer if you have any questions about setting up.*

The standard preload is 5 mm from a free length of 200 mm giving 195 mm installed length, see fig. 3.

## SETUP DATA

Rebound Comfort	12	Clicks
Rebound Sport	9-7	Clicks
Rebound Trackdays	6-1	Clicks
Spring preload	5	mm
Shock absorber length	see fig. 3	

### Spring

47010-15 or 48010-15 (60N/mm)

### Vehicle height adjustment range

With the preload set to the recommended position, the vehicle is lowered approximately 20 mm when compared to the original suspension. Depending on car model and equipment, the spring preload may vary because of existing original suspension.

### Dimension in basic position

Dimension A = 498 mm

Dimension B = 195 mm

Dimension C = Approx.65 mm

Dimension D = 10 mm

If the lower bracket should be adjusted please re-tighten the two M6 screws with 12N/mm. Tighten the lock nut accordingly. As the height adjuster is turned one rotation, the position moves 1.5 mm. Please then check the ride height again according to the scheme.

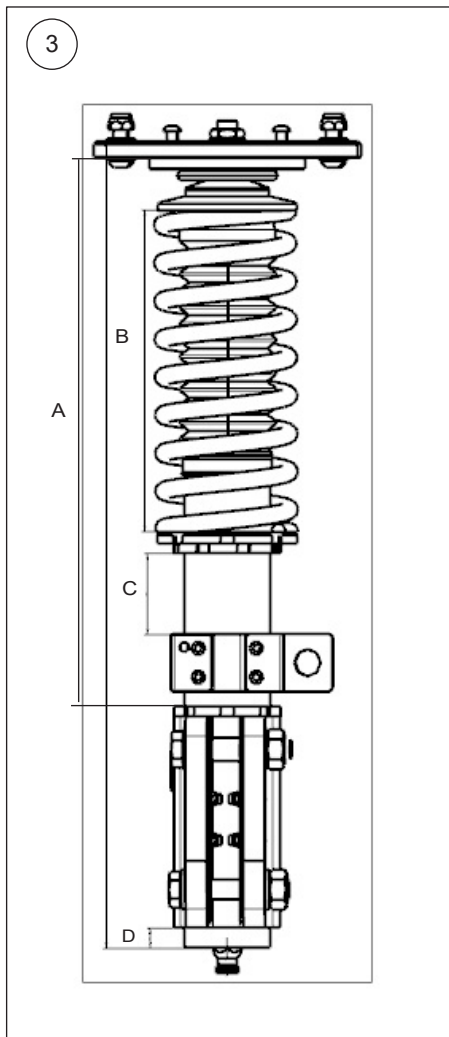
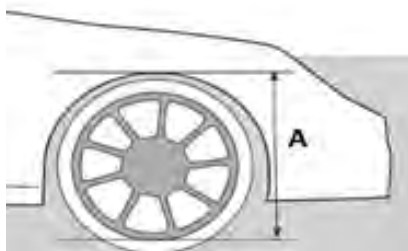


Fig. 3: Basic setting of shock absorber FA

# SETUP



FA, Dimension A = 594 +/- 3 mm

## **⚠ Warning!**

*Starting from the standard position (delivery condition) of the Öhlins suspension, the adjustment range of height adjuster is -5mm/+10mm.*

*After installing the struts, a wheel load measurement and an axle measurement must be carried out. Please note that the headlight setting should be checked and adjusted if necessary ( see also general information). If brake lines have been disconnected, the brake system must be re-bleeded by an authorized workshop.*

## **□ Note!**

*As stated in the product description, a stabilizer bracket from the turbo model and two spacer sleeves of 10 mm should be installed in the steering gear, if not already available.*



Fig. 4: Camber adjustment top mount

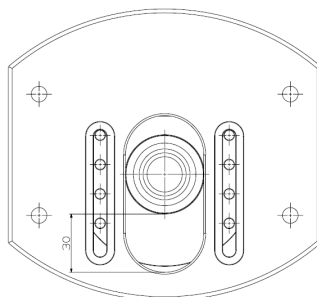


Fig. 5: Camber

For road use the OE camber must be used. The correct distance as shown in fig. 5 is 30mm towards the fender.

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, minor updates may occur.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

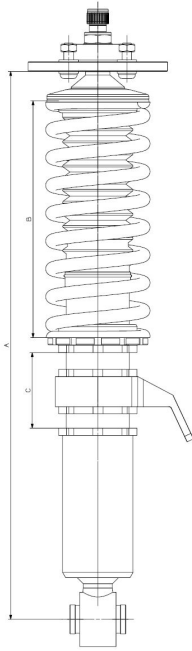
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Content		
Description	Quantity	Part no.
Sleeve	4	G91964-10
Plastic distance washer	2	G91964-34
Shock absorber	2	UNZ SA46ML
Bushing	2	25608-01
End-eye	2	25607-01
Spring 110 N/mm	2	48010-35
Ball joint	2	G00016.32
Top mount	2	G99364-01
Lower top mount sleeve	2	G99364-02
Upper top mount sleeve	2	G99364-03
Anti roll bar bracket	2	G99364-06
Lockring	4	24636-03
Öhlins sticker	1	
Owner's manual	1	
C-Spanner	2	

**Note!**

Please note that there can be small differences between your product and the images in these instructions.

**Note!**

Please note that during storage and transport, especially at high ambient temperature, some of the oil and grease used for assembly may leak and stain the packaging. This will not cause damage to the product, wipe off the excessive oil or grease with a cloth.

**Note!**

Before you install this product, check the kit contents. If anything is missing, please contact an Öhlins dealer.

**Warning!**

Before you install this product, read the Öhlins Owner's manual. This product is an important part of the vehicle and the vehicle stability.

## Shock absorber kit for Porsche 911 (993)

# **POR GP01 REAR**

## Mounting Instruction

# MOUNTING INSTRUCTION

## **⚠ Warning!**

*We strongly recommend to let an Öhlins dealer install this product.*

## **⚠ Warning!**

*If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.*

## **□ Note!**

*When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.*

## **□ Note!**

*Before you install this product clean the vehicle.*

**1**

Raise the vehicle and put it on jack stands.

**2**

Remove the rear wheels

**3**

Remove the lower and the upper attachments and remove the original shock absorbers.

**4**

### **If strut is not pre-assembled:**

Counter the lower spring seat against the lock nut with 50-60N/mm torque. Mount the dust boot, the spring, the rubber spacer, the upper spring seat, the top mount and the pre-load adjuster on the shock absorber according to fig. 1 and 2. Tighten the lock nut M12 with 30N/mm torque.

### **If the strut is pre-assembled:**

Install the Öhlins shock absorber on the vehicle. Insert the strut with top mount in the seat provided on the strut in the body.

Install the supplied screws properly and tighten the lock nut with the appropriate torque. When inserting the stabilizer support into the provided holder, it may be necessary to loosen or turn down the golden sleeve (depends on the height and quality of the stabilizer support).

After assembly, screw the sleeve tightly to the intended dimension and secure it with the lock nut. At the end, insert the lower screw into the wheel carrier and tighten it with specified torque.

**5**

Cut the dust boot from the lower end 82 mm (not pre-assembled).

**6**

Mount the rubber sleeve between spring and upper original spring seat (not pre-assembled).

## **□ Notes!**

*When tightening the top mount nut, the shock absorber shaft must be held in position with 5 mm allen key. (if strut is not pre-mounted). Don't use cordless screwdriver.*

## **□ Notes!**

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

## **□ Notes!**

*Mount the dust boot between rubber sleeve and stop buffer.*

## **⚠ Warning!**

*Before you ride/drive, always make sure that the setup is according to the recommended setup data. Read about adjustments and setting up in the Öhlins Owner's Manual before you make any adjustments. Contact an Öhlins dealer if you have any questions about setting up.*

# ADJUSTMENTS

## SETUP DATA

Rebound Comfort	12	Clicks
Rebound Sport	9-7	Clicks
Rebound Trackdays	6-1	Clicks
Spring pre-load	5	mm
Damper length	see fig.	

### Spring

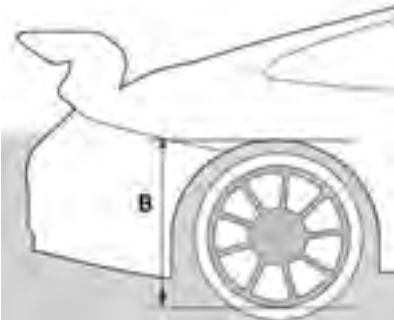
47010-35 or 48010-35 (110N/mm)

### Vehicle height adjustment range

With the spring preload adjuster set to the recommended position, the vehicle is lowered approximately 20 mm when compared to the original suspension. This depends on the model and suspension as adjustable original suspension also exist.

### **⚠ Warning!**

*Starting from standard position the adjustment range of the height adjuster is +15/-8mm. These values must not be exceeded.*



Dimension B = 585 mm +/- 3 mm

With the spring preload adjuster set to the recommended position, the vehicle is lowered approximately 20 mm compared to the original suspension. As the height adjuster is turned one rotation, the position moves 1.5 mm. Please then check the ride height again according to the scheme.

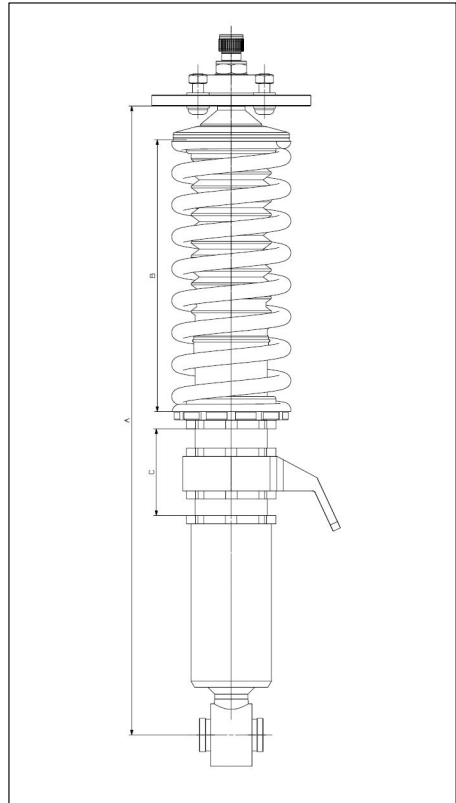


Fig. 5: Basic setting of shock absorber RA

Dimension A	270mm +/- 5mm
Dimension B	195mm



# GENERAL NOTES

If not listed separately, the lowering specified above is reduced by the amount of the factory lowering for vehicles that are factory fitted with sports suspension.

The information in the TUEV certificate are decisive for the assignment of the vehicle. For this purpose, the EC type approval number (point "k" to be found in the vehicle registration document or on the vehicle's nameplate) must be compared with information in the report. The last updated version applies. Before installation, please use the TUEV certificate to check whether the items supplied (see parts identification) are approved for your vehicle (see area of application).

In the event of deviation the parts are not allowed to be installed without consulting an Öhlins dealer. Please contact your dealer directly. We recommend installing our products only in a qualified workshop that has qualified personnel and the necessary special tools.

After the spring/suspension components have been installed, it is essential to check the wheel setting values. Depending on the engine, gearbox, equipment and tolerances of the vehicle, the lowering may vary by a few mm from the specified values.

The usability of our products, as well as their verification, relates to vehicles left in series. The dimensions given refer to new vehicles left in series production. In principle, the specific dimensions can vary depending in the vehicle.

If the series suspension has electronic damper control, its functionality does not apply when our suspension is used. We recommend using an Öhlins cancellation kit to switch off the error message. Vehicle-specific error messages can possibly be turned off by an authorized workshop.

If you need spare parts, please contact your sealer/source.

	Torque list					
	Galvanized screws			black untreated screws		
	Torque (N/m)			Torque (N/m)		
d	8.8	10.9	12.9	8.8	10.9	12.9
M 6	9.5	13	16	10	14	17
M 8	23	32	39	25	35	41
M 10	46	64	77	49	69	83
M 12	80	110	135	88	120	145
M 14	125	180	215	135	190	230

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, minor updates may occur.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

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