

19/17 ENU 4272

Boxster (986)

Rear Axle Coil Spring

Vehicle Type:	Boxster (986)/Boxster S (986)/Boxster "50 Years Spyder 550" (986)
Model Year:	As of 1997 up to 2004
Subject:	Replacing the coil spring on the rear axle during repairs
Information:	Coil spring for the respective chassis no longer available.
Notes:	During repairs, the faulty coil spring will be replaced by a new coil spring of similar design. A spring plate (compensation part) may also have to be used (see Parts Info table).
	The new coil spring has the same function as the coil spring installed in the vehicle.
	A faulty coil spring must always be replaced on both sides of the axle.
	Existing sets containing a coil spring that is no longer available will be interpreted into new sets.

Parts Info: The table below shows the interpretation of old coil springs (sets) to new coil springs (sets). A spring plate (compensation part) may also have to be used.

Coils	spring	Spring plate (companyation part)		
Currently	New	Spring plate (compensation part)		
986.333.531.34	986.333.531.04			
986.333.531.35	986.333.531.05			
986.333.531.38	986.333.531.20	986.333.504.05 – 6 mm, color: blue		
986.333.531.39	986.333.531.21			
986.333.531.11	986.343.531.42	No opting plate (companyation part) required		
986.333.531.13	986.343.531.36	No spring plate (compensation part) required		
986.333.531.12	986.343.531.42			
986.333.531.43	900.343.331.42	094 222 E04 04 9 Emm. color: rod		
986.333.531.14	004 242 521 24	986.333.504.06 – 8.5 mm, color: red		
986.333.531.37	986.343.531.36			
986.333.531.30	986.343.531.44	No opring plate (company stion part) required		
986.333.531.32	986.343.531.40	No spring plate (compensation part) required		

986.333.531.31	004 242 521 44	986.333.504.05 – 6 mm, color: blue
986.333.531.45	986.343.531.44	
986.333.531.33	00/ 242 521 40	
986.333.531.41	986.343.531.40	

Tools: VAS 6908 - Stationary Spring Compressor

9546 - Screwdriver

9560 - Press-out tool

Work Procedure: 1 Preparatory work

- 1.1 Raise the vehicle and remove wheels on the rear axle.
- 1.2 Remove rear spring strut (\Rightarrow Workshop Manual '427119 Removing and installing rear spring strut').

Preloaded or pressurized components

- Risk of pinching or bruising
- \Rightarrow Do not reach into the danger area.
- \Rightarrow Relieve the tension on components before starting work.
- \Rightarrow Secure components to prevent them from loosening suddenly.
 - 1.3 Disassemble rear spring strut (⇒ Workshop Manual '42 Disassembling and assembling rear spring strut').



Information

- When installing new parts, refer to the allocations described in the Porsche Electronic Parts Catalog (PET).
- A different spring plate (compensation part) than the one used before may have to be used.
- 2 Assembling spring strut

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Exploded view of spring strut on rear axle

- 1 Shock absorber
- 2 Coil spring (new)
- **3** Protective bellows
- 4 Additional spring
- 5 Stop plate
- 6 Spring plate (compensation part, depending on coil spring if required new)
- 7 Support ring
- 8 Sealing ring (new)
- 9 Spring strut supporting mount
- **10** Lock nut, M14 x 1.5 (new)



- 1 Protective bellows
- 2 Additional spring
- 3 Piston rod
- 4 Stop plate
- 2.1.1 Attach protective bellows to additional spring and fit on piston rod $(\Rightarrow$ *Figure 2*).
- 2.1.2 Push stop plate (\Rightarrow Figure 2-4-) as far as it will go onto the piston rod at the correct position.

Preloaded or pressurized components

- Risk of pinching or bruising
- \Rightarrow Do not reach into the danger area.
- \Rightarrow Relieve the tension on components before starting work.
- \Rightarrow Secure components to prevent them from loosening suddenly.



Figure 1

Figure 2

- 2.1.3 Pre-tension new coil spring using spring tensioner (\Rightarrow *Figure 3*).
 - 1 Coil spring (new)
 - 2 Spring tensioner

Position new coil spring on the shock absorber as shown in Figure 3 (\Rightarrow Figure 3).

The end of the coil spring is touching the stop on the concave washer (\Rightarrow *Figure 3* -arrow-).

Figure 3

- **ONLY** for the relevant coil spring (see table): Press spring plate (compensation part) into the support ring (\Rightarrow *Figure* 4-**A**-). **1** – Spring plate (compen-
 - 1 Spring plate (compensation part)
 - 2 Support ring

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2.1.4

- **3** Sealing ring (new)
- 4 Spring-strut mount

Information

Figure 4

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Check cut-outs (3 x) in the support ring for the spring strut supporting mount!

- 2.1.5 Complete the support ring/spring plate (compensation part) assembly using a new sealing ring and spring strut supporting mount (\Rightarrow *Figure 4*-B-).
- 2.1.6 Fit spring strut supporting mount assembly on the shock absorber.

Position stop plate above the spring strut supporting mount on the piston rod at the correct position.

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- 2.1.7 Fit new lock nut (M14 x 1.5) on the thread of the piston rod on the shock absorber and tighten it until 1–2 threads of the piston rod are visible.
 - 1 Stop plate
 - **2** Lock nut, M14 x 1.5 (new)
 - Deepest threaded bolt on spring strut supporting mount
 - 4 Retaining bracket for shock absorber
- 2.1.8 Position/align spring strut supporting mount with respect to the shock absorber retaining bracket as follows:
 - Check installation position in the vehicle (left/right side)



Figure 5

- Deepest threaded bolt on the spring strut supporting mount must be aligned with the shock absorber retaining bracket (\Rightarrow *Figure 5*)
- Perform a visual inspection to check that the coil spring is still touching the stop at the top and bottom
- 2.1.9 Tighten new lock nut (M14 x 1.5) on the thread of the shock absorber piston rod.

Tightening torque 60 Nm (44 ftlb.)

Counter with Allen key a/f 7 if necessary.

- 3 Concluding work
 - 3.1 Install rear spring strut (⇒ Workshop Manual '427119 Removing and installing rear spring strut')
 - 3.2 Fit wheels on the rear axle and lower the vehicle.
 - 3.3 Check wheel alignment values on the rear axle and make adjustments if necessary.

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Without:

42 71 20 00:	 Rear spring strut (2 ea.) removed and installed Includes: Removing and installing wheels, removing and installing rear wall cover, removing and installing rear wheel suspension and adjusting brake cables. 	Labor time: 350 TU
	Without: Performing suspension alignment and adjusting the vehicle. Separate LO No.!	
42 71 38 50:	 Rear spring strut (2 ea.) disassembled and assembled- Includes: Removing and installing coil springs 	Labor time: 80 TU
44 90 03 00:	 Rear suspension alignment performed- Includes: Checking height, camber and toe 	Labor time: 70 TU

Adjusting vehicle at rear. Separate LO No.!

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