

Technical Information

17/17 ENU 4075

Boxster (986)

Front 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 front 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 how the old coil springs (sets) are interpreted into the new coil springs (sets) and which spring plate (compensation part) may also have to be used:

Coils	spring		
Currently	New	Spring plate (compensation part)	
986.343.531.05	004 242 521 01	996.343.511.03 – 8 mm, color: red	
986.343.531.07	986.343.531.01		
986.343.531.06	986.343.531.02	996.343.511.03 – 8 mm, color: red	
986.343.531.08	980.343.531.02		
996.343.531.02		996.343.511.03 – 8 mm, color: red	
996.343.531.15	996.343.531.01		
996.343.531.16			
996.343.531.03		996.343.511.03 – 8 mm, color: red	
996.343.531.17	996.343.531.04		
996.343.531.18			
996.343.531.11		No spring plate (compensation part) required	
996.343.531.19	996.343.531.12		
996.343.531.23]		

986.343.531.11		996.343.511.03 – 8 mm, color: red	
996.343.531.20	996.343.531.12		
986.343.531.15	996.343.531.13 No spring plate (compensation part) required		
996.343.531.14	006 242 521 12	996.343.511.03 – 8 mm, color: red	
996.343.531.21	996.343.531.13		
996.343.531.22	986.343.531.12	No spring plate (compensation part) required	
986.343.531.16	986.343.531.12	996.343.511.03 – 8 mm, color: red	

Tools: VAS 6908 - Stationary Spring Compressor

Work Procedure: 1 Preparatory work

- 1.1 Raise the vehicle and remove wheels on the front axle.
- 1.2 Remove front spring strut (\Rightarrow Workshop Manual '408519 Removing and installing front 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 front spring strut (\Rightarrow Workshop Manual '4000 Disassembling and assembling front 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 front axle

- 1 Shock absorber
- 2 NEW coil spring
- **3** Protective bellows
- 4 Additional spring
- 5 Cone washer
- 6 Spring plate (compensation part, depending on coil spring)
- 7 Support ring
- 8 Deep-groove ball bearing
- 9 Stop plate
- **10** Spring strut supporting mount
- 11 Stop plate
- **12** Lock nut M14 x 1.5

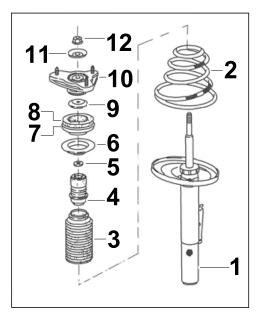
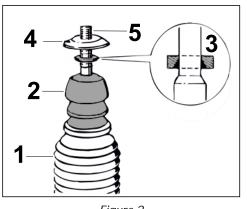


Figure 1

2.1 Assemble spring strut as follows (see also \Rightarrow *Figure 1*):

- 1 Protective bellows
- 2 Additional spring
- **3** Cone washer
- 4 Stop plate
- 5 Shock absorber piston rod
- 2.1.1 Attach protective bellows to additional spring and fit on piston rod $(\Rightarrow$ *Figure 2*).



2.1.2 Push cone washer and stop plate as Figure 2 far as they will go onto the piston rod at the correct position (\Rightarrow Figure 2).

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



Information

• When installing new parts, refer to the allocations described in the Porsche Electronic Parts Catalog (PET).

A different spring plate

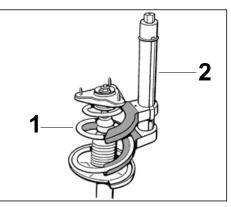


Figure 3

- (compensation part) than the one used before may have to be used.
- 2.1.4 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.
- 2.1.5 **ONLY** for the relevant coil spring (see table): Press spring plate (compensation part \Rightarrow *Figure 4*-1-) into the support ring/deep-groove ball
 - bearing assembly (⇒ Figure 4 -2-).
 1 Spring plate (compensation part)
 - Support ring/deep-groove ball bearing assembly
 - 3 Spring strut supporting mount

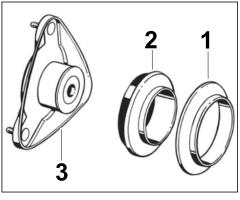


Figure 4

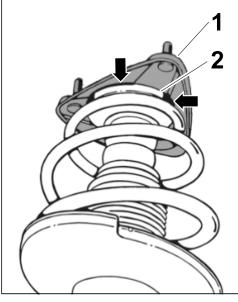
2.1.6 Complete support ring/deep-groove ball bearing/spring plate (compensation part) assembly with spring strut supporting mount.

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- 2.1.7 Fit spring strut supporting mount assembly on the piston rod. Make sure that the end of the coil spring is inside the spring plate (underside of spring strut supporting mount).
 - Spring strut/supporting mount assembly
 - 2 End of coil spring
- 2.1.8 Position stop plate at the correct position above the spring strut supporting mount and fit new lock nut (M14 x 1.5) on the thread of the shock absorber piston rod.

Tightening torque 80 Nm (59 ftlb.)



3 Concluding work

- Figure 5
- 3.1 Install front spring strut (\Rightarrow Workshop Manual '408519 Removing and installing front spring strut)
- 3.2 Fit wheels on the front axle and lower the vehicle.
- 3.3 Check wheel alignment values on the front axle and make adjustments if necessary.

40 85 20 00:	—Front spri Includes:	Labor time: 220 TU	
	Without:	front brake calipers and tie rods Performing suspension alignment and adjusting the vehicle. Separate LO no.!	
40 85 38 50:	—Front spri Includes:	ing strut (2 ea.) disassembled and assembled— Removing and installing coil spring	Labor time: 80 TU
44 85 03 00:	—Front sus Includes: Without:	pension alignment performed— Checking height, camber, toe, caster and toe difference angle Adjusting vehicle at the front. Separate LO no.!	Labor time: 70 TU

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