



ASSEMBLY INSTRUCTIONS

TECHART Threaded Spring Set

Part-no. 092.200.170.009 for all Carrera

Version 02 – 05/2021





ASSEMBLY INSTRUCTIONS


















TECHART Threaded Spring Set for 992

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I Important safety information











All of the necessary work must be performed by qualified persons with an appropriate level of expertise.

	<div data-bbox="651 551 954 607" data-label="Section-Header"> <p> WARNING</p> </div> <p>Vehicle lifts with an insufficient lifting capacity can collapse under the weight of the vehicle and crush any persons standing underneath.</p> <p>Compare the weight of the vehicle with the lifting capacity of your vehicle lift. The weight of the vehicle must not exceed the lifting capacity of your vehicle lift. The weight of the vehicle can be found in the vehicle operating manual.</p>	
	<div data-bbox="651 848 954 904" data-label="Section-Header"> <p> WARNING</p> </div> <p>Risk of injury from electric current.</p> <p>Switch off the ignition and disconnect the battery when working on the vehicle electrical/electronic systems.</p>	
   	<div data-bbox="651 1099 954 1155" data-label="Section-Header"> <p> WARNING</p> </div> <p>Risk of fire and explosion from ignition of windshield cleaning agents/antifreeze and their vapors.</p> <p>Risk of poisoning from ingesting windshield cleaning agents/antifreeze and breathing in their vapors.</p> <p>Risk of injury due to irritation caused by windshield cleaning agents/antifreeze coming into contact with eyes, skin and other parts of the body.</p> <p>Wear protective clothing and safety glasses. Avoid naked flames, fire and sources of ignition. Avoid contact with eyes, skin and other parts of the body. Do not eat, drink or smoke when handling windshield cleaning agents/antifreeze. Do not breathe in vapors and ensure adequate ventilation. Keep windshield cleaning agents/antifreeze only store them in sealable original containers.</p> <div data-bbox="587 1637 1086 1771">    </div>	  



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 	<div data-bbox="647 376 952 434"> CAUTION</div> <p>Risk of injury from hands and arms being crushed, cut or lacerated when working with sharp-edged and bulky objects.</p> <p>Wear protective clothing and protective gloves. Keep limbs out of narrow and inaccessible areas of the vehicle and/or avoid dangerous situations by using special tools and suitable aids.</p>	 
	<div data-bbox="647 707 952 766"> CAUTION</div> <p>Risk of injury to back, muscles, joints, tendons and ligaments from lifting and carrying heavy and/or bulky objects.</p> <p>Lift and transport heavy and/or bulky objects with the help of other people and/or with suitable aids.</p>	
	<div data-bbox="296 1003 582 1061">NOTICE</div> <p>Before starting the assembly procedure, carefully read the assembly instructions in full and pay attention to the safety information and sequence of the individual operation steps.</p>	
	<div data-bbox="296 1189 582 1247">NOTICE</div> <p>All body parts must be prepared and painted in accordance with the attached painting guide.</p>	

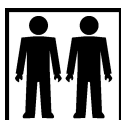


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II Preparation

Number of people required



At least two people are required to install this product.

Help and support

If you have any technical queries, please contact us immediately:
support@techart.de

Quantity	Part number	Part designation
1	092.200.170.009	TECHART threaded spring set
Consisting of:		
2	092.200.170.100	Support plate
2	000.200.65A.50163	Adjusting spring seat
2	000.200.683.20103	Threaded pin M5
2	092.200.171.200	Spring FA
2	000.200.652.10654	Deflection limiter
2	091.200.010.100	Dust protection
2	092.200.170.110	Threaded sleeve RA
2	091.200.010.104	Threaded ring RA
2	000.200.683.20107	Threaded pin
2	000.200.650.50738	Spring seat
2	091.200.200.100	Main spring RA
2	000.200.107.070	Preload spring
2	000.200.650.50585	Intermediate ring
2	000.200.652.10025	Buffer
2	091.200.010.100	Dust protection
1	000.200.685.11036	Hook wrench FA
1	000.200.685.10004	Hook wrench RA

Please, use the table to check whether all of the required parts are present.

Once parts have been removed from their original packaging, ensure that they are properly handled and stored.



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III Installation

1 Preparing vehicle

- 1 Before starting work, check that the vehicle is free of defects. Use the PIWIS system tester II to read out all of the fault memories of the individual vehicle components and first rectify any faults displayed.
- 2 Raise vehicle at the factory-fitted jacking points.

2 Dismantle and install springs FA

- 1 Dismantle front wheels.
- 2 Separate coupling bar and stabilizer.
- 3 Separate the electrical cable PASM.
- 4 Loosen the piston rod at the strut bearing (1) and unscrew.
- 5 Dismantle strut bearing (1).

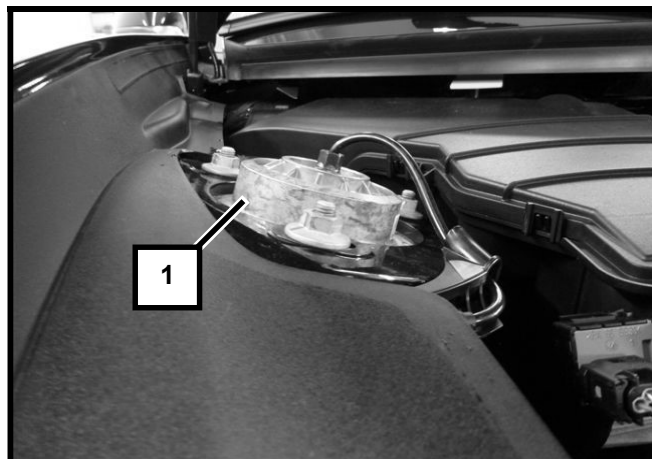


Fig. 01

Suspension strut stays in the vehicle.

- 6 Turn out the spring through the hole in the body of the strut bearing (1).
- 7 Remove the original dust protection and spring limiter and attach the TECHART spring limiter incl. TECHART dust protection (2) onto the front shock absorber.
- 8 Install the TECHART spring FA 092.200.171.200 (3) through the hole.

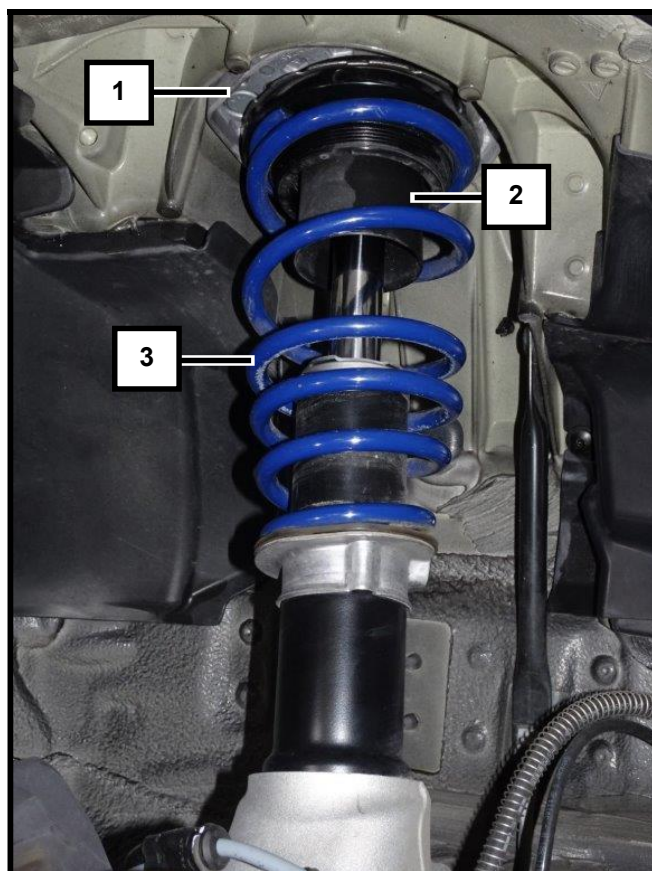


Fig. 02

Original springs, dust protection and spring limiter are no longer needed.

- 1 Attach the TECHART support plate (4) incl. TECHART adjusting spring seat (5) to the TECHART spring (3).



Adjustment range:

The distance from the contact surface of the threaded sleeve at the vehicle to the spring bearing area: 22-32mm

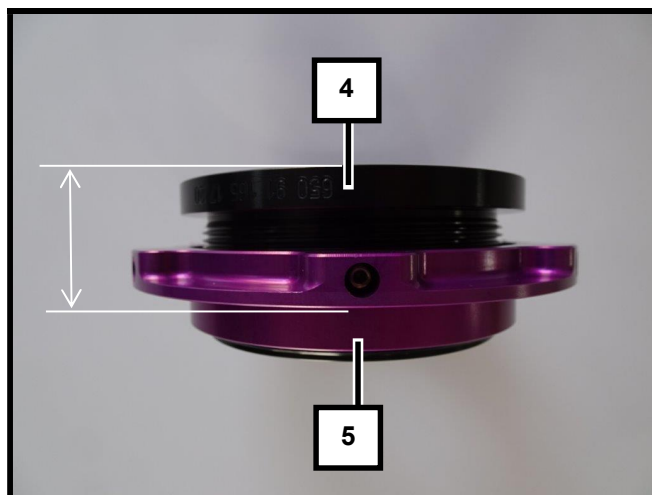


Fig. 03

- 2 Install the strut bearing (1).
- 3 Tighten the piston rod at the strut bearing (1).
- 4 Connect the electrical cable PASM.
- 5 Connect the coupling bar and the stabilizer.
- 6 Mount the wheels.

3 Dismantle and install springs RA

- 1 Detach the rear wheels.
- 2 Loosen the suspension strut from the wheel carrier.
- 3 Loosen the suspension strut support bearing. For that dismantle the inner lining.
- 4 Separate the electrical cable PASM.
- 5 Remove the suspension strut.
- 6 Stretch the spring with a spring compressor until the strut bearing is relieved. Then dismantle the strut bearing.
- 7 Dismantle the original dust protection and the deflection limiter.
- 8 Snap in the bracket ring (6) of the spring seat level at the rear axle damper (7) into the center notch.



Fig. 04

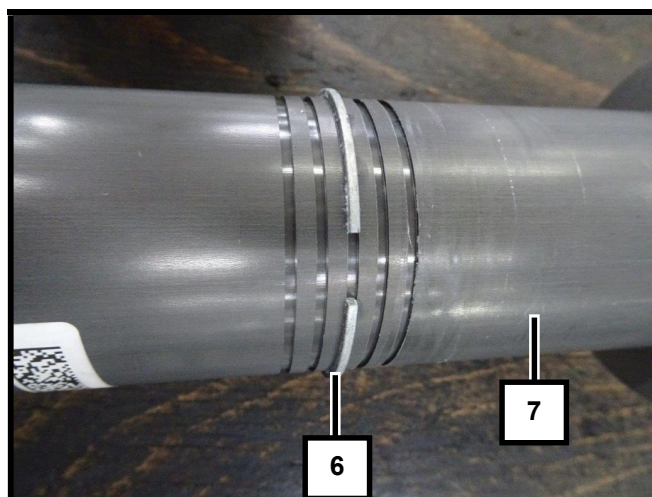


Fig. 05



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- 1 Attach the TECHART threaded sleeve (8) incl. TECHART threaded ring (9) onto the rear axle damper (7).
- 10 Attach the TECHART deflection limiter incl. TECHART dust protection onto the rear axle damper (7).
- 11 Attach the TECHART main spring RA (10) onto the TECHART threaded ring (9).
- 12 Attach the TECHART intermediate ring (11) with the long side down to the TECHART main RA (10).
- 13 Attach the TECHART preload spring (12) onto the TECHART intermediate ring (11).
- 14 Attach the TECHART spring seat (13) onto the TECHART preload spring (12).

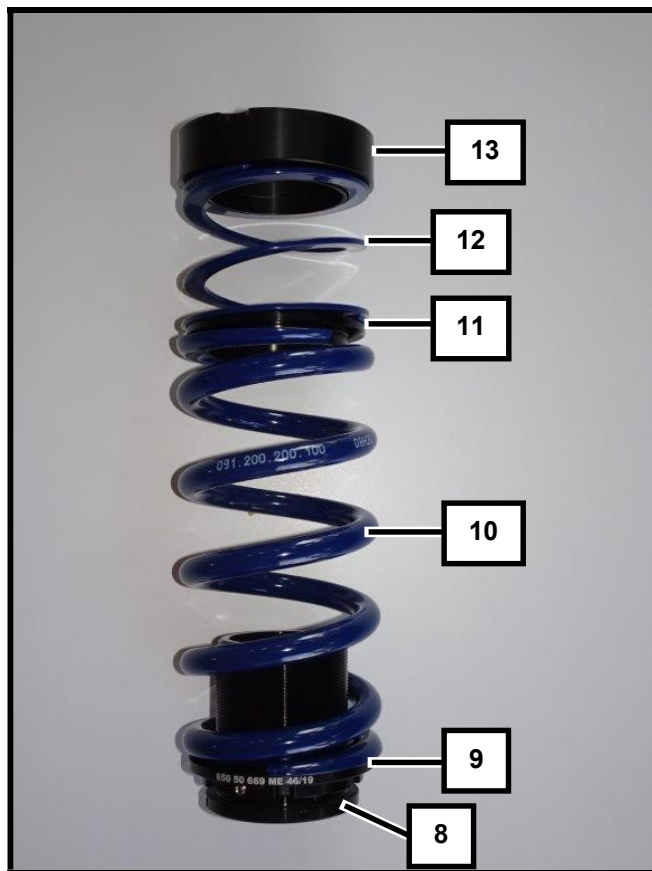


Fig. 06

15 Adjust spring seat.

Adjustment range:

The distance “a” from the spring bearing area to the lower fixing screw: 255-275mm

- 16 Connect the strut bearing to the coupling bar (35Nm).
- 17 Connect the electrical cable for the PASM.
- 18 Install the suspension strut support bearing (30Nm).
- 19 Fasten the suspension strut at the wheel carrier (110Nm).
- 20 Mount the wheels.
- 21 Lower the vehicle and deflect.



Fig. 07



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Check the distance from the wheel center to the fender:

Front axle min. 355mm

Rear axle min. 360mm



Fig. 08

4 Height adjustment

Adjust vehicle height, front axle:

- 1 Dismantle the front wheels.
- 2 Loosen the threaded pin M5 (13) at the TECHART adjusting spring seat (5).

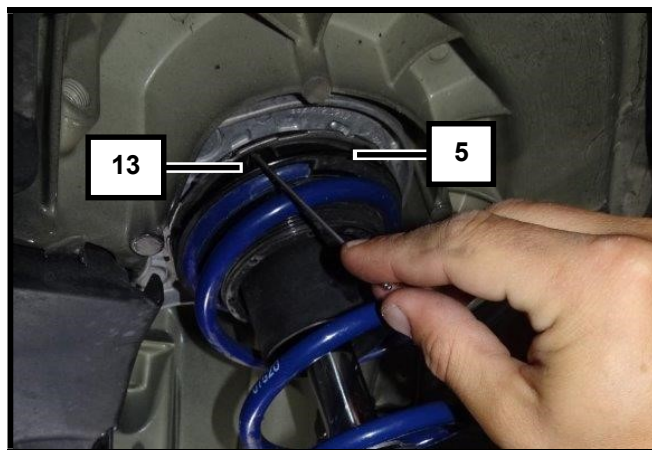


Fig. 09

- 3 Use the hook wrench FA (14) to adjust the TECHART adjusting spring seat (5).
- 4 Mount the wheels.

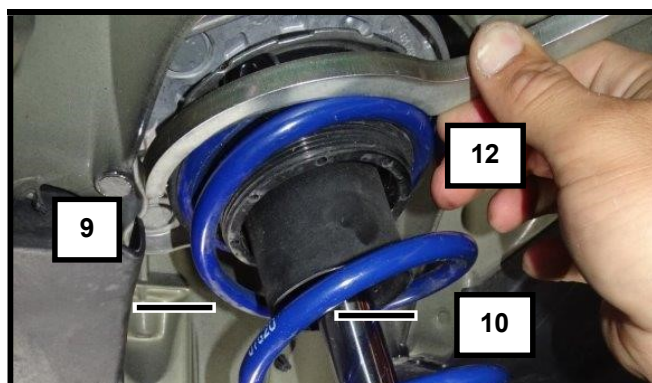


Fig. 10

Adjust vehicle height, rear axle:

- 5 Dismantle rear wheels.
- 6 Loosen the threaded pin at the TECHART threaded ring (9).
- 7 Use the hook wrench RA (15) to adjust the TECHART adjusting spring seat (5).
- 8 Mount the wheels.

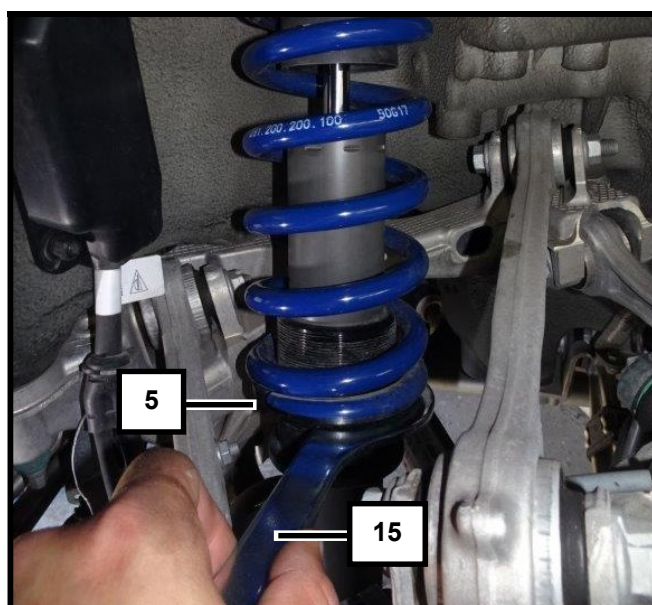


Fig. 11



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5 Suspension alignment

- 1 Due to the changed height the vehicle has to be aligned and if necessary, install the new vehicle's values. The chassis suspension alignment has to be performed according to the manufacturer's guidelines. The basis is provided by the standard settings of the manufacturer.
- 2 Program the height values at the PIWIS.

6 Final inspection

- 1 Perform a test drive.
- 2 Use the PIWIS system tester II to read out all of the fault memories of the individual vehicle components and rectify or erase any faults displayed.



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