

# ASSEMBLY INSTRUCTIONS TECHART Spring Set

for 991

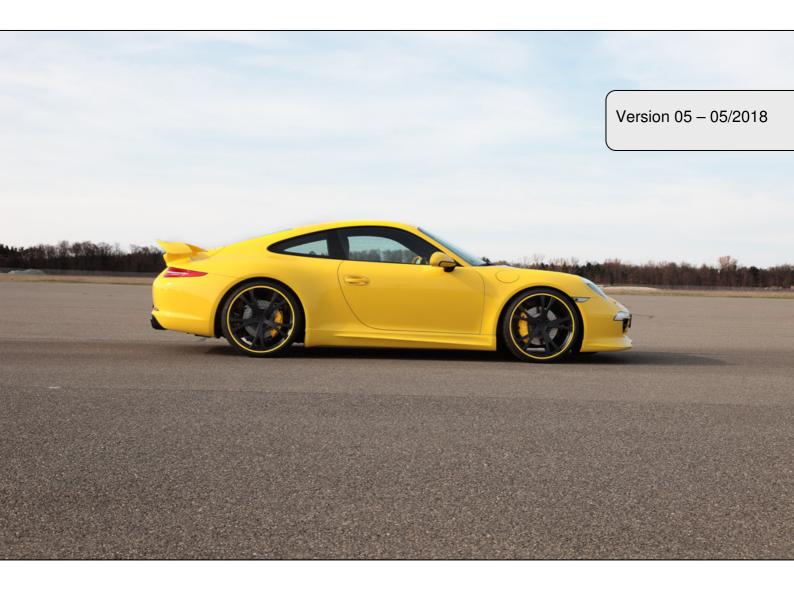
Part-no. 091.200.120.009 TECHART Spring Set for 991 Carrera (S/GTS)

Part-no. 091.200.140.009 TECHART Spring Set for 991 Turbo (S)

Part-no. 091.200.200.009 TECHART Spring Set for 991 Carrera 4 (S/GTS)

Part-no. 091.200.180.009 TECHART Spring Set for 991 Carrera 2 / 4 (S/GTS)) from MY17

Part-no. 091.200.160.009 TECHART Spring Set for 991 Targa 4 (S/GTS) from MY17





### **TECHART Spring Set**

#### **Contents**

| l   | Important safety information |                                  | 3  |
|-----|------------------------------|----------------------------------|----|
| II  | Preparation                  |                                  |    |
| III | Installation                 |                                  |    |
|     | 1                            | Preparing vehicle                | 7  |
|     | 2                            | Dismantle and install springs RA | 8  |
|     | 3                            | Dismantle and install springs FA |    |
|     | 4                            | Suspension alignment             | 11 |
|     | 5                            | Perform a test drive             | 11 |



#### **TECHART Spring Set**

#### I Important safety information

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



### **⚠** WARNING

Vehicle lifts with an insufficient lifting capacity can collapse under the weight of the vehicle and crush any persons standing underneath.



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.





Risk of injury from electric current.



Switch off the ignition and disconnect the battery when working on the vehicle electrical/electronics systems.





Risk of fire and explosion from ignition of windshield cleaning agents/antifreeze and their vapors.



Risk of poisoning from ingesting windshield cleaning agents/antifreeze and breathing in their vapors.



Risk of injury due to irritation caused by windshield cleaning agents/antifreeze coming into contact with eyes, skin and other parts of the body.



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.













#### **TECHART Spring Set**







Risk of injury from hands and arms being crushed, cut or lacerated when working with sharp-edged and bulky objects.



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.







Risk of injury to back, muscles, joints, tendons and ligaments from lifting and carrying heavy and/or bulky objects.



Lift and transport heavy and/or bulky objects with the help of other people and/or with suitable aids.



#### NOTICE

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.



#### **NOTICE**

All body parts must be prepared and painted in accordance with the attached painting quide.



#### **TECHART Spring Set**

### **II** Preparation

### **Help and support**

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

#### **Check TECHART parts kit for completeness**

| Quantity       | Part number       | Part designation                       |
|----------------|-------------------|--|
| 1              | 091.200.120.009   | TECHART spring set for Carrera (S/GTS) |
| Consisting of: |                   |  |
| 2              | 091.200.120.200   | Spring TA 091 FA                       |
| 2              | 091.200.120.201   | Spring TA 091 RA                       |
| 2              | 991.34third301.05 | Helper spring FA                       |

| Quantity       | Part number       | Part designation                         |
|----------------|-------------------|--|
| 1              | 091.200.200.009   | TECHART spring set for Carrera 4 (S/GTS) |
| Consisting of: |                   |  |
| 2              | 091.200.150.200   | Spring TA 091 FA                         |
| 2              | 091.200.120.201   | Spring TA 091 RA                         |
| 2              | 991.34third301.05 | Helper spring FA                         |

| Quantity       | Part number     | Part designation                 |  |
|----------------|-----------------|----------------------------------|--|
| 1              | 091.200.140.009 | TECHART spring set for Turbo (S) |  |
| Consisting of: |                 |                                  |  |
| 2              | 091.200.150.200 | Spring TA 091 FA                 |  |
| 2              | 091.200.140.201 | Spring TA 091 RA                 |  |
| 2              | 28880 VA-Z      | Helper spring FA                 |  |

| Quantity       | Part number     | Part designation                                       |
|----------------|-----------------|--|
| 1              | 091.200.180.009 | TECHART spring set for Carrera 2 / 4 (S/GTS) from MY17 |
| Consisting of: |                 |  |
| 2              | 091.200.150.200 | Spring TA 091 FA                                       |
| 2              | 091.200.120.201 | Spring TA 091 RA                                       |
| 2              | 991.343.301.05  | Helper spring FA                                       |

| Quantity       | Part number     | Part designation                       |
|----------------|-----------------|--|
| 1              | 091.200.160.009 | TECHART spring set for Targa 4 (S/GTS) |
| Consisting of: |                 |  |
| 2              | 091.200.150.200 | Spring TA 091 FA                       |
| 2              | 091.200.140.201 | Spring TA 091 RA                       |
| 2              | 28880 VA-Z      | Helper spring FA                       |



**TECHART Spring Set** 

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.



#### **TECHART Spring Set**

#### III Installation

### 1 Preparing vehicle

- 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.



#### **TECHART Spring Set**

#### 2 Dismantle and install springs RA

- Detach the rear wheels.
- 2 Loosen the suspension strut from the wheel carrier.
- 3 Loosen the suspension strut support bearing on the top. For that dismantle the inner lining.

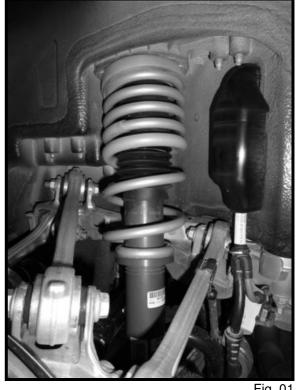


Fig. 01

# On vehicles with PASM disconnect the electrical connections.

4 Adjust the level of the spring seat at the rear axle damper according to the vehicle's shape:



Fig. 02



#### **TECHART Spring Set**

The rear axle height has to be set individually due to various configurations and different versions of suspension struts; and has to be tested after the test drive. Starting from the rear axle damper number 991.333.053.08 the notch has to be set to one additional notch, counted from the top.

TECHART recommends for rear axle dampers until part-no. 991.333.053.08

- 991 C2 (S/GTS) Coupe: third notch from the top
- 991 C2 (S/GTS) Cabriolet: second notch from the top
- 991 C4 (S/GTS) Coupe: third notch from the top
- 991 C4 (S/GTS) Cabriolet: second notch from the top
- 991 Targa 4 (S/GTS): fourth notch from the top

TECHART recommends for rear axle dampers from part-no. 991.333.053.08

- 991 C2 (S/GTS) Coupe: fourth notch from the top
- 991 C2 (S/GTS) Cabriolet: third notch from the top
- 991 C4 (S/GTS) Coupe: fourth notch from the top
- 991 C4 (S/GTS) Cabriolet: third notch from the top
- 991 Targa 4 (S/GTS): fifth notch from the top
- 991 Turbo (S) Coupe: second notch from the top
- 991 Turbo (S) Cabriolet: second notch from the top
- 5 Install the suspension strut in reverse order.
- The rear axle height measured from the wheel center to the fender seam should be between 360mm and 375mm.



#### **TECHART Spring Set**

#### 3 Dismantle and install springs FA

- 1 Detach the front wheels
- 2 Loosen the wheel carrier clamping of the suspension strut! On vehicles with PDCC you have to dismount the hydraulic cylinder at the suspension strut.
- 3 Loosen the strut mount and remove the suspension strut.



Fig. 03 (for example a vehicle with PDCC)

# On vehicles with PASM disconnect the electrical connections.

- 4 Exchange the original spring with the TECHART spring. To do that pretension the spring with a spring compressor until the piston rod is unloaded, and then unscrew the strut mount.
- 5 Exchange the helper spring with the supplied shorter version!
- 6 Install the suspension strut in reverse order.



Fig. 04



#### **TECHART Spring Set**

#### 4 Suspension alignment

- 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.
- The camper value may possibly change slightly towards the top tolerance due to the lower height.

#### 5 Perform a test drive

1 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.



#### **TECHART Spring Set**



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