



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers for all Porsche Types

### Part-no. Spacer-Sets

093.280.003.009	3 mm Sports car
091.280.005.009	5 mm Sports car
096.280.005.009	5 mm Sports car
091.280.007.009	7 mm Sports car
096.280.007.009	7 mm Sports car
000.280.010.009	10 mm Sports car
091.280.010.009	10 mm Sports car
055.280.003.009	3 mm SUV
058.280.005.009	5 mm SUV
058.280.105.009	5 mm SUV black
058.280.007.009	7 mm SUV
058.280.107.009	7 mm SUV black
055.280.010.009	10 mm SUV
093.280.015.009	15 mm
086.280.015.009	15 mm
068.280.018.009	18 mm
086.280.018.009	18 mm
064.280.021.009	21 mm
086.280.021.009	21 mm
093.280.023.009	23 mm
086.280.023.009	23 mm
093.280.026.009	26 mm
086.280.026.009	26 mm
011.280.031.009	31 mm
055.280.031.009	31 mm
011.280.035.009	35 mm
096.280.035.009	35 mm
055.280.038.009	38 mm
011.280.043.009	43 mm
048.280.043.009	43 mm
096.280.057.009	57 mm

### Performance-Kits

096.280.100.009	Performance-Kit I
086.280.100.009	Performance-Kit II
096.280.200.009	Performance-Kit III
096.280.300.009	Performance-Kit IV
096.280.400.009	Performance-Kit V
096.280.500.009	Performance-Kit VI
096.280.600.009	Performance-Kit VII
096.280.700.009	Performance-Kit VIII
087.280.019.009	Performance-Kit Widebody 19"
087.280.020.009	Performance-Kit Widebody 20"
048.280.100.009	Performance-Kit Magnum Formula
058.280.120.009	Performance-Kit Magnum Formula + Formula II 23"
048.280.110.009	Performance-Kit Magnum Formula II+III 22"
048.280.130.009	Performance-Kit Magnum Formula II 22"
058.280.110.009	Performance-Kit Magnum Formula II 22"
058.280.100.009	Performance-Kit Magnum Formula 20"- 22" and Formula III 21", 22"
055.280.100.009	Performance-Kit Magnum Formula 23"
058.280.080.009	Performance-Kit Magnum orig. 21"
058.280.090.009	Performance-Kit Magnum orig. 19" + 20"
070.280.022.009	Performance-Kit GrandGT Formula III 22"
070.280.020.009	Performance-Kit GrandGT Formula 20"
070.280.021.009	Performance-Kit GrandGT Formula + origin.
070.280.321.009	Performance-Kit GrandGT Formula III 21"
B95.280.100.009	Performance-Kit Macan 18" and 19" original

### Bolt Circle Adapter

B95.280.250.009	Bolt circle adapter 25mm Macan
B95.280.300.009	Bolt circle adapter 30mm Macan
B95.280.350.009	Bolt circle adapter 35mm Macan
B95.280.400.009	Bolt circle adapter 40mm Macan



# ASSEMBLY INSTRUCTIONS

TECHART Spacers

## Contents

<b>I</b>	<b>Important safety information .....</b>	<b>3</b>
<b>II</b>	<b>Preparation .....</b>	<b>4</b>
<b>III</b>	<b>Installation .....</b>	<b>10</b>
1	Prepare vehicle.....	10
2	Mount spacers 3-10 mm.....	11
3	Mount spacers 15-57 mm.....	14














# ASSEMBLY INSTRUCTIONS

TECHART Spacers

## I Important safety information











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

	<div> <b>WARNING</b></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> <b>WARNING</b></div> <p>Risk of injury from electric current.</p> <p>Switch off the ignition and disconnect the battery when working on the vehicle electrical/electronics systems.</p>	
<div>   </div>	<div> <b>WARNING</b></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>  </div> <div></div>



# ASSEMBLY INSTRUCTIONS

TECHART Spacers

 	 <b>CAUTION</b>	 
	<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>	
	 <b>CAUTION</b>	
	<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>	
	<b>NOTICE</b>	
	<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>	
	<b>NOTICE</b>	
	<p>All body parts must be prepared and painted in accordance with the attached painting guide.</p>	

## II Preparation

### Help and support

If you have any technical queries, please contact us immediately:  
**[support@techart.de](mailto:support@techart.de)**



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

**Check that TECHART Aerokit I parts kit is complete**

### Spacer sets 3-10 mm

Quantity	Part number	Part designation
	<b>093.280.003.009</b>	<b>Spacer set 3 mm sports car</b>
2	093.280.003.200	Spacer 3 mm
		incl. 2 flat head screw M6x16 per disk
1	997.900.999.999	Aluminum-grease 5 gram
	<b>091.280.005.009</b>	<b>Spacer set 5 mm sports car</b>
2	096.280.005.200	Spacer 5 mm
		incl. 2 flat head screw M6x16 per disk
10	WHT004676A	Wheel bolt black
1	997.900.999.999	Aluminum grease 5 gram
	<b>096.280.005.009</b>	<b>Spacer set 5 mm sports car</b>
2	096.280.005.200	Spacer 5 mm
		incl. 2 flat head screw M6x16 per disk
10	997.361.980.07	Wheel bolt 34 mm
1	997.900.999.999	Aluminum grease 5 gram
	<b>091.280.007.009</b>	<b>Spacer set 7 mm sports car</b>
2	096.280.007.200	Spacer 7 mm
		incl. 2 Flat head screw M6x25 per disk
10	091.210.100.036	Wheel bolt 36 mm
1	997.900.999.999	Aluminum grease 5 gram
	<b>096.280.007.009</b>	<b>Spacer set 7 mm sports car</b>
2	096.280.007.200	Spacer 7 mm
		incl. 2 Flat head screw M6x25 per disk
10	997.361.980.07	Wheel bolt 34 mm
1	997.900.999.999	Aluminum grease 5 gram
	<b>000.280.010.009</b>	<b>Spacer set 10 mm sports car</b>
2	087.280.010.200	Spacer 10 mm
		incl. 2 Flat head screw M6x25 per disk
10	087.210.100.042	Wheel bolt 42 mm
1	997.900.999.999	Aluminum grease 5 gram



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

Quantity	Part number	Part designation
	<b>091.280.010.009</b>	<b>Spacer set 10 mm sports car</b>
2	087.280.010.200	Spacer 10 mm
		incl. 2 Flat head screw M6x25 per disk
10	091.210.100.039	Wheel bolt 39 mm
1	997.900.999.999	Aluminum grease 5 gram
	<b>055.280.003.009</b>	<b>Spacer set 3 mm SUV</b>
2	093.280.003.200	Spacer 3 mm plugged
2	055.280.012.025	Hexagon socket screw, flat head M12x25
1	997.900.999.999	Aluminum grease 5 gram
	<b>058.280.005.009</b>	<b>Spacer set 5 mm SUV</b>
2	096.280.005.200	Spacer 5 mm
10	087.210.100.042	Wheel bolt 42 mm
2	055.280.012.025	Hexagon socket screw, flat head M12x25
1	997.900.999.999	Aluminum grease 5 gram
	<b>058.280.105.009</b>	<b>Spacer set 5 mm SUV black</b>
2	096.280.005.200	Spacer 5 mm
10	091.210.100.042	Wheel bolt 42 mm black
2	055.280.012.025	Hexagon socket screw, flat head M12x25
1	997.900.999.999	Aluminum grease 5 gram
	<b>058.280.007.009</b>	<b>Spacer set 7 mm SUV</b>
2	096.280.007.200	Spacer 7 mm
10	087.210.100.042	Wheel bolt 42 mm
2	055.280.012.025	Hexagon socket screw, flat head M12x25
1	997.900.999.999	Aluminum grease 5 gram
	<b>058.280.107.009</b>	<b>Spacer set 7 mm SUV black</b>
2	096.280.007.200	Spacer 7 mm
10	091.210.100.042	Wheel bolt 42 mm black
2	055.280.012.025	Hexagon socket screw, flat head M12x25
1	997.900.999.999	Aluminum grease 5 gram
	<b>055.280.010.009</b>	<b>Spacer set 10 mm SUV</b>
2	087.280.010.200	Spacer 10 mm
2	055.280.012.025	Hexagon socket screw, flat head M12x25
10	055.210.100.048	Wheel bolt 48 mm
1	997.900.999.999	Aluminum grease 5 gram



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

### Spacer Sets 15-57 mm

All spacer kits consist of 2 spacers and 10 wheel nuts and 5 gram aluminum grease

**Wheel nuts in steel for vehicles wheel nuts**

**Wheel nuts in aluminum black for vehicles with wheel bolts**

Vehicles with wheel nuts	Vehicles with wheels bolts	
Part number	Part number	Part description
093.280.015.009	086.280.015.009	Spacer set 15 mm
068.280.018.009	086.280.018.009	Spacer set 18 mm
064.280.021.009	086.280.021.009	Spacer set 21 mm
093.280.023.009	086.280.023.009	Spacer set 23 mm
093.280.026.009	086.280.026.009	Spacer set 26 mm
011.280.031.009	055.280.031.009	Spacer set 31 mm
011.280.035.009	096.280.035.009	Spacer set 35 mm
	055.280.038.009	Spacer set 38 mm
011.280.043.009	048.280.043.009	Spacer set 43 mm
	096.280.057.009	Spacer set 57 mm



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

### Performance Kits

All Performance Kits consist of 4 spacers, 16 or 20 wheel nuts or wheel screw, partly one wheellock set and 5 gram aluminium grease

Part number	Part description	Spacer size	Mounting parts
096.280.100.009	Performance-Kit I	2x 15 and 2x 18 mm	16x Wheel nut 4x Wheellock nut
086.280.100.009	Performance-Kit II	2x 15 and 2x 21mm	16x Wheel nut 4x Wheellock nut
096.280.200.009	Performance-Kit III	2x 15 and 2x 23 mm	16x Wheel nut 4x Wheellock nut
096.280.300.009	Performance-Kit IV	2x 15 and 2x 23 mm	16x Wheel nut 4x Wheellock nut
096.280.400.009	Performance-Kit V	4x 5 mm	16x Wheel bolt 4x Wheellock bolt
096.280.500.009	Performance-Kit VI	4x 7 mm	16x Wheel bolt 4x Wheellock bolt
096.280.600.009	Performance-Kit VII	4x 15 mm	16x Wheel nut 4x Wheellock nut
096.280.700.009	Performance-Kit VIII	2x 15 and 2x 26 mm	16x Wheel nut 4x Wheellock nut
087.280.019.009	Performance-Kit Widebody 19"	2x 18 and 2x 35 mm	16x Wheel nut 4x Wheellock nut
087.280.020.009	Performance-Kit Widebody 20"	2x 26 and 2x 43 mm	16x Wheel nut 4x Wheellock nut
048.280.100.009	Performance-Kit Magnum Formula	2x 43 and 2x 48 mm	16x Wheel nut 4x Wheellock nut
058.280.120.009	Performance-Kit Magnum Formula + Formula II 23"	2x 18 and 2x 38 mm	16x Wheel nut 4x Wheellock nut
048.280.110.009	Performance-Kit Magnum Formula II + III 22"	2x 43 and 2x 31 mm	16x Wheel nut 4x Wheellock nut
048.280.130.009	Performance-Kit Magnum Formula II 22"	2x 31 and 2x 38 mm	16x Wheel nut 4x Wheellock nut
058.280.110.009	Performance-Kit Magnum Formula II 22"	2x 31 and 2x 35 mm	16x Wheel nut 4x Wheellock nut
058.280.100.009	Performance-Kit Magnum Formula 20" - 22" und Formula III 21", 22"	2x 31 and 2x 48 mm	16x Wheel nut 4x Wheellock nut
055.280.100.009	Performance-Kit Magnum Formula 23"	2x 31 and 2x 35 mm	16x Wheel nut 4x Wheellock nut
058.280.080.009	Performance-Kit Magnum original 21"	2x 23 and 2x 43 mm	16x Wheel nut 4x Wheellock nut
058.280.090.009	Performance-Kit Magnum orig. 19" + 20"	2x 43 and 2x 57 mm	16x Wheel nut 4x Wheellock nut
070.280.022.009	Performance-Kit GrandGT Formula	2x 26 and 2x 43 mm	16x Wheel nut 4x Wheellock nut
070.280.020.009	Performance-Kit GrandGT Formula 20"	2x 15 and 2x 38 mm	16x Wheel nut 4x Wheellock nut
070.280.021.009	Performance-Kit GrandGT Formula + original rims	2x 26 and 2x 38 mm	16x Wheel nut 4x Wheellock nut
070.280.321.009	Performance-Kit GrandGT Formula III	2x 26 and 48 mm	16x Wheel nut 4x Wheellock nut
B95.280.100.009	Performance-Kit Macan 18" and 19"	2x 10 and 15mm	10x wheel screws 39mm 10x wheel screws 42mm





# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

### Bolt circle adapter 25-40 mm

All bolt circle adapter consist of two bolt circle adapter disks, 10 wheel nuts and 5 gram aluminium grease

Part number	Part description	Spacer size	Mounting parts
B95.280.025.009	Bolt circle adapter 25mm BC 112/5-130/5	2x 25 mm	10x Wheel nut
B95.280.030.009	Bolt circle adapter 30mm BC 112/5-130/5	2x 30 mm	10x Wheel nut
B95.280.035.009	Bolt circle adapter 35mm BC 112/5-130/5	2x 35 mm	10x Wheel nut
B95.280.040.009	Bolt circle adapter 40mm BC 112/5-130/5	2x 40 mm	10x Wheel nut

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.



# ASSEMBLY INSTRUCTIONS

TECHART Spacers

## III Installation

### 1 Prepare vehicle

- 1 Raise vehicle at the factory-fitted lift support points.
- 2 Mark the installation position of the wheels.
- 3 Remove the wheels.
- 4 Clean the wheel hub and the contact surface of the spacers as well as the contact surface and the hub center of the rim from dirt and corrosion.



**Please care that the thread inside the wheel hub is clean and free of corrosion!**

### 2 Mount spacers 3-10 mm (15mm Macan)

- 1 Apply a thin layer of the supplied grease onto the cleaned hub. (Fig. 01)
- 2 Set the spacer evenly onto the hub without wedging.
- 3 Tighten the spacer to the hub with the supplied fixing screws.

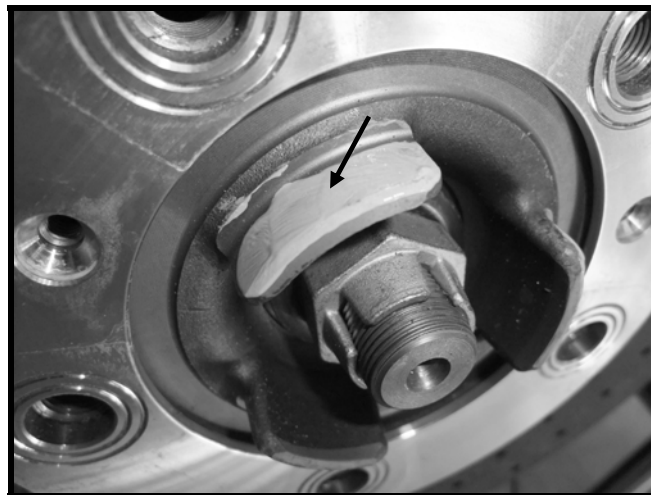


Fig. 01

**i** At the Macan the fixation of the spacers will be performed only with wheel bolts!

**i** Use the supplied fixing screws with the spacers 3-10 mm!

**Sports car: (Fig. 02)**

Hexagon socket with flat head screw  
M6

Tightening torque M6 10 Nm

**SUV: (Fig. 03)**

Hexagon socket with flat head screw  
M12

Tightening torque M12 14 Nm

**Macan: (no picture.)**

No extra fixation

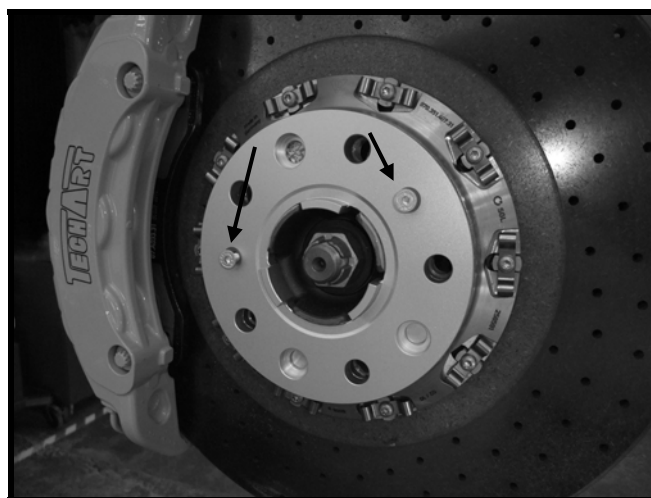


Fig. 02

- 4 Also apply a thin layer of the supplied grease onto the hub center of the spacer.
- 5 Set the rim now on the wheel hub and/or on the spacer. Please note the installation position of the wheel. (note the marking).

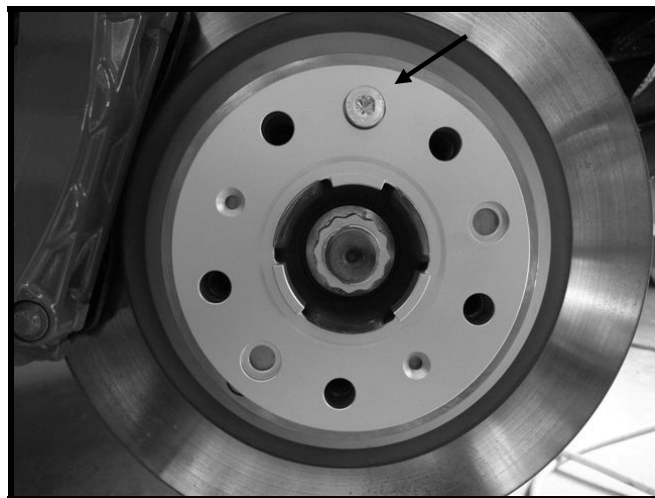


Fig. 03

**i** **Balance the used wheel again, since it is possible that unbalancing can increase after the installation of the spacers!**

Use the right wheel bolts depending on the vehicle and size of the spacers.

**i** **Do not use an impact wrench when tightening the screws!**



Sports car and SUV 3 mm spacer:  
 (1) Orig. Wheel bolt sports car shank length 29mm  
 (3) Orig. Wheel bolt SUV until MY10 shank length 36mm  
 (2) Orig. Wheel bolt SUV from MY11 shank length 34mm  
 (movable calotte)

Sports car 5 and 7mm spacer:  
 (2) Wheel bolt GT shank length 34 mm  
 (movable calotte)

Sports car 10 mm spacer:  
 (4) Techart wheel bolt shank length 42 mm  
 (movable calotte)

SUV 5 and 7 mm spacer:  
 (4) Techart wheel bolt shank length 42 mm  
 (movable calotte)

SUV 10 mm spacer:  
 (5) Techart wheel bolt shank length 48 mm  
 (movable calotte)  
 (Fig. 04)

Macan 10mm spacer:  
 (-) TECHART wheel bolt shank length 39 mm  
 (movable calotte)

Macan 10mm spacer:  
 (4) TECHART wheel bolt shank length 42 mm  
 (movable calotte)

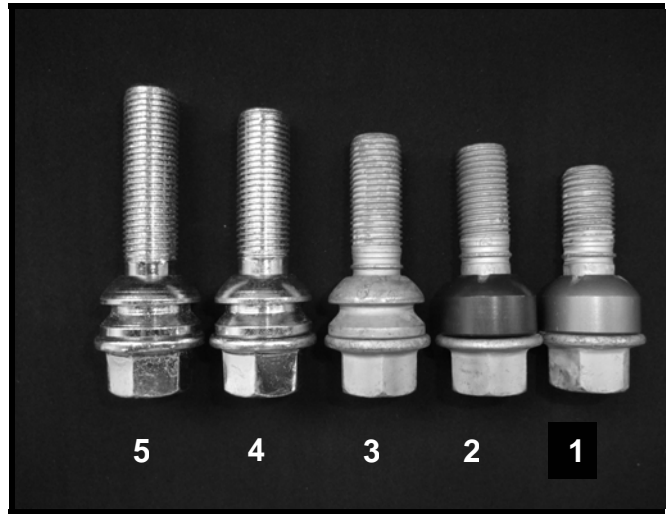


Fig. 04

6 Tighten wheel bolt crosswise, first with 50 Nm and then with

**tightening torque sports car 130 Nm**  
**tightening torque sports car from MY11 160 Nm**  
**tightening torque Cayenne 160 Nm**  
**tightening torque Panamera 180 Nm**  
**tightening torque Macan 160 Nm**

7 Check wheel clearance and wheel cover!

8 Perform a test drive.

### 3 Mount spacers 15-57 mm or bolt circle adapter 25-40mm

- 1 Apply a thin layer of the supplied grease onto the cleaned hub. (Fig. 05)
- 2 Set the spacer evenly onto the hub without wedging.
- 3 Tighten the spacer to the hub with the supplied fixing screws.

**i Do not use an impact wrench when tightening the screws!**

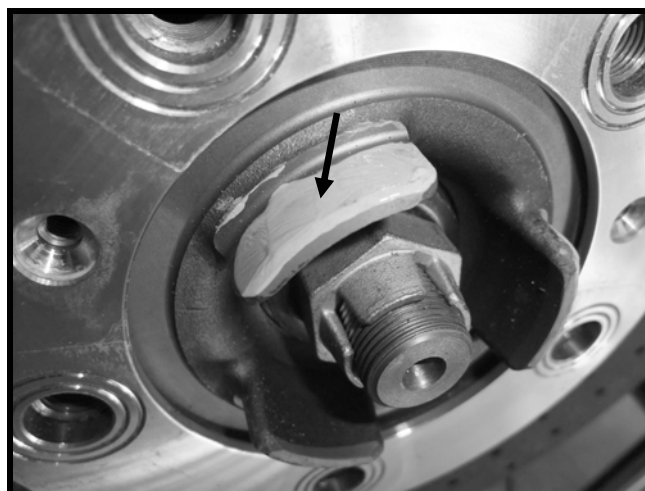


Fig. 05

**i Use the original wheel bolts from the vehicle with the spacers 15-57 mm!**

**Sports car:**

Orig. wheel bolt M14 with movable calotte

(1) Shank length 29 mm

(2) Shank length 34 mm

**SUV:**

Orig. wheel bolt M14 with movable calotte

(3) Shank length 36 mm Cayenne until MY10

(2) Shank length 34 mm Cayenne from MY11

(Fig. 06)

**Macan:**

Original wheel bolt M14 with movable calotte

(1) Shank length 29 mm

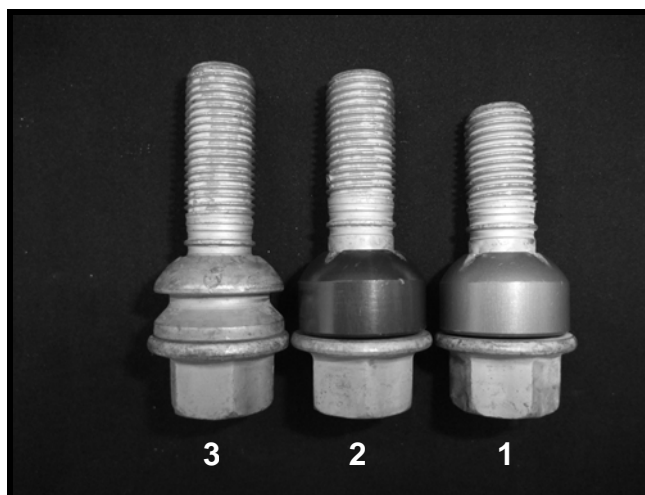


Fig. 06



# ASSEMBLY INSTRUCTIONS

## TECHART Spacers

- 4 Tighten wheel bolt crosswise, first with 50 Nm and then with

**tightening torque sports car 130 Nm**

**tightening torque sports car from MY11 160 Nm**

**tightening torque Cayenne 160 Nm**

**tightening torque Panamera 180 Nm**

**tightening torque Macan 160 Nm**

- 5 Also apply a thin layer of the supplied grease onto the hub center of the spacer.
- 6 Set the rim now on the wheel hub and/or on the spacer. Please note the installation position of the wheel. (note the marking)



**Balance the used wheel again, since it is possible that unbalancing can increase after the installation of the spacers!**

- 7 Fasten the rims with the supplied wheel nuts.
- 8 Tighten wheel nuts crosswise, first with 50 Nm and then with

**tightening torque sports car 130 Nm**

**tightening torque sports car from MY11 160 Nm**

**tightening torque Cayenne 160 Nm**

**tightening torque Panamera 180 Nm**

**tightening torque Macan 160 Nm**

- 9 Check wheel clearance and wheel cover!
- 10 Perform a test drive.



# ASSEMBLY INSTRUCTIONS

TECHART Spacers

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**TECHART AUTOMOBILDESIGN GMBH**

RÖNTGENSTRASSE 47  
D-71229 LEONBERG / GERMANY  
TEL +49 7152 / 9339- 0  
FAX +49 7152 / 9339-33  
info@techart.de  
www.techart.de

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Version 07/2014  
Artikel-Nr./Part No. 000.280.005.099