



ASSEMBLY INSTRUCTIONS

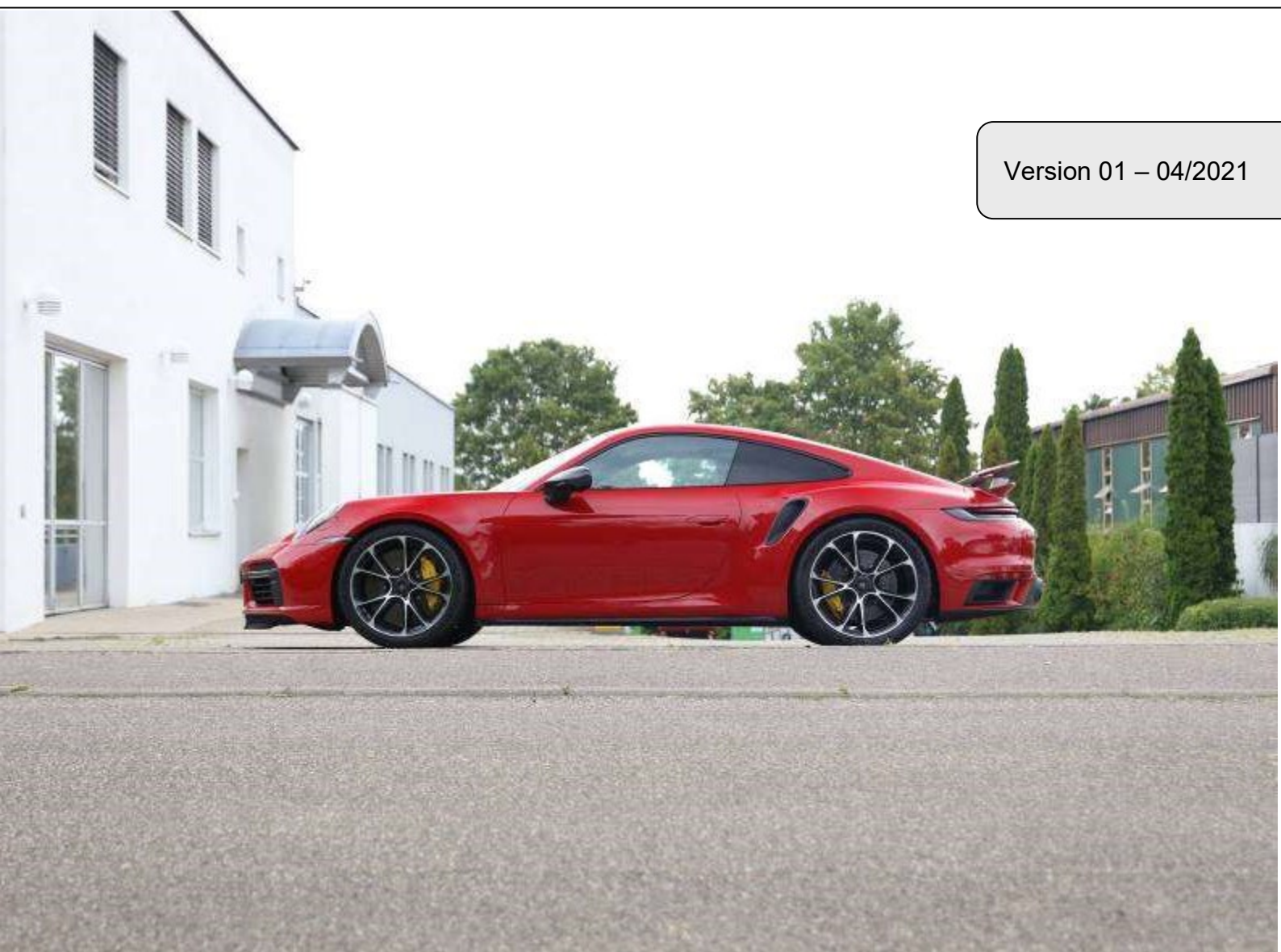
TECHART Modification-Kit Wheel Hub

for Turbo (S)

Part-no. 092.200.900.099
Part-no. 092.200.901.099

Center Lock to 5-Hole connection
5-Hole connection to Center Lock

Version 01 – 04/2021





ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

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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> WARNING</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> WARNING</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> WARNING</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>



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



ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

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	092.200.900.009	Modification Kit Center Lock to 5-Hole Connection
consisting of:		
2	9P1407615	Wheel hub FA
2	992501651C	Wheel hub R
4	N10456004	Hexagon socket countersunk round head screw, M6x12
20	WHT006978	Wheel bolt, M14x1.5x24
2	9P1407621	Angular ball bearing
2	95833158300	Angular ball bearing
8	N10806301	Hexagon collar screw, M8x35
4	WHT007021	Hexagon nut, M22x1.5
8	WHT004835	Ball screw, M12x1.25x46
4	PAF908088	Hexagon collar nut, self-locking, M12x1.5
2	WHT006151	Hexagon collar nut, self-locking, M14x1.5
8	PAF909664	Hexagon collar nut, self-locking, M14x1.5
4	WHT008186	Cylinder head screw, M12x1.5x62
4	9A700758500	Cylinder head screw, M12x1.5x85
6	9A700867700	Hexagon screw, M12x1.5x80
2	PAF008389	Hexalobular internal driving feature flat screw, M12x1.5x72
2	PAF008674	Hexagon screw with flange, M12x1.5x105
2	PAF008675	Hexagon screw with flange, M12x1.5x90
2	9A700872500	Hexagon nut, M12x1.5
2	WHT008717	Hexalobular internal driving feature fitting screw, M12x1.5
4	9A700704400	Cylinder screw, M8x38
4	N91183701	Screw, M12x1.5x115



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Quantity	Part number	Part designation
1	092.200.901.009	Modification Kit 5-Hole Connection to Center Lock
consisting of:		
2	9P1407581	Wheel hub center-lock FA
2	992501651E	Wheel hub center-lock RA
20	9P1401111A	Follower pin
20	PAF008885	Hexagon socket round screw, M6x30
1	9P1012218	Tool center-lock
1	9P1012243	Tool wheel hub cover
2	9P1407621	Angular ball bearing
2	95833158300	Angular ball bearing
8	N10806301	Hexagon collar screw, M8x35
4	WHT007021	Hexagon nut, M22x1.5
8	WHT004835	Ball screw, M12x1.25x46
4	PAF908088	Hexagon collar nut, self-locking, M12x1.5
2	WHT006151	Hexagon collar nut, self-locking, M14x1.5
8	PAF909664	Hexagon collar nut, self-locking, M14x1.5
4	WHT008186	Cylinder head screw, M12x1.5x62
4	9A700758500	Cylinder head screw, M12x1,5x85
6	9A700867700	Hexagon screw, M12x1.5x80
2	PAF008389	Hexalobular internal driving feature flat screw, M12x1.5x72
2	PAF008674	Hexagon screw with flange, M12x1.5x105
2	PAF008675	Hexagon screw with flange, M12x1.5x90
2	9A700872500	Hexagon nut, M12x1.5
2	WHT008717	Hexalobular internal driving feature fitting screw, M12x1.5
4	9A700704400	Cylinder screw, M8x38
4	N91183701	Screw, M12x1.5x115

Bitte überprüfen Sie anhand der Tabelle, ob alle notwendigen Teile vorhanden sind.
Nach Entnahme der Teile aus der Originalverpackung ist auf sachgemäße Handhabung und Lagerung zu achten.

III Installation

1 Prepare vehicle

- 1 Before starting work, check that the vehicle is free of defects. Use the PIWIS system tester 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 Modify front axle

- 1 Remove the central screw of the drive shaft!
- 2 Press the brake.
- 3 Unplug the brake wear sensor.
- 4 Loosen the brake caliper screw connection and hang it to a suitable position! Do not leave it hanging on the brake hose.
- 5 Dismantle the brake disk! Be special careful with the PCCB-brake disk.
- 6 Dismantle the cover sheet for the brake disk.



Fig. 01



ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

- 7 Loosen the height level sensor.



Fig. 02



ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

- 8 Open the quick-release fastener of the lifting system.



Fig. 03



ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

9 Loosen the stabilizer.



Fig. 04

10 Loosen the nut of the tie rod end and press the taper bolt with ejector! Do not damage the sleeve.

11 Press out the drive shaft with a suitable tool.

12 Loosen the nut of the axle guide at the wheel bearing housing and then press out the taper bolt with the ejector tool.



Fig. 05



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TECHART Modification-Kit Wheel Hub

- 13 Support the wheel bearing housing.
- 14 Loosen the plug connection for the PASM.
- 15 Loosen the strut bearing connections.
- 16 Remove the wheel bearing housing.



Fig. 06

- 17 Press out the wheel hub.



Fig. 07



ASSEMBLY INSTRUCTIONS

TECHART Modification-Kit Wheel Hub

18 Loosen the connection for the wheel bearing and remove the cover.

19 Press out the wheel bearing.



Fig. 08

- 20 Press in the new wheel bearing until it stops! The magnetic side of the wheel bearing has to point to the rotational-speed-sensor! Watch the pressure increase on the manometer.
- 21 Mount the retaining plate! Torque 37Nm.



Fig. 09

- 22 Press in the new wheel hub until it stops! Watch the pressure increase on the manometer.
- 23 Insert the wheel carrier into the vehicle again.
- 24 Install in reverse order to the previous disassembly.
- 25 Pay attention to the following torques.



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TECHART Modification-Kit Wheel Hub

Screw connection	Part number	Torque	Size	New
Retaining plate wheel bearing	N10806301	37Nm	M8x35	
Axle guide	PAF908088 or WHT006151	100Nm	M12x1.5 M14x1.5	Yes + Corrosion protection
Steering link	PAF908088	85Nm	M12x1.5	Yes
Height level sensor		8Nm	M6x12	
Support stabilizer	PAF909664	20Nm + 60°	M14x1.5	Yes
Line holder lift		4Nm	M5x14	
Brake hose holder		10Nm	M6x16	
Cover sheet		4Nm + 45°	M6x16	
Brake disk 5-hole	N10456004	5Nm	M6x12	Yes
Brake disk center- lock	PAF008885	14Nm	M6x30	Yes
Brake caliper	WHT008186 or 9A700758500	30Nm + 75°	M12x1.5x62 M12x1.5x85	Yes
Drive shaft	WHT007021	250Nm + 60°	M22x1.5	Yes

3 Modify rear axle

- 1 Loosen parking brake.
- 2 Loosen the center screw of the drive shaft! Press the brake.
- 3 Loosen the brake line at the brake caliper.
- 4 Loosen the brake caliper connections and remove.
- 5 Dismantle the brake disk! Be special careful with the PCCB-brake disk.
- 6 Remove the lining of the parking brake (Press the torsional spring and turn clockwise).
- 7 Dismantle the cover of the brake disk.
- 8 Unplug rotational-speed-sensor.
- 9 Loosen the screw at the rear axle steering.
- 10 Loosen the screw of the stabilizer at the wheel carrier.
- 11 Loosen the screw of the top transverse control arm.
- 12 Dismantle the actuator of the parking brake.



Fig. 10

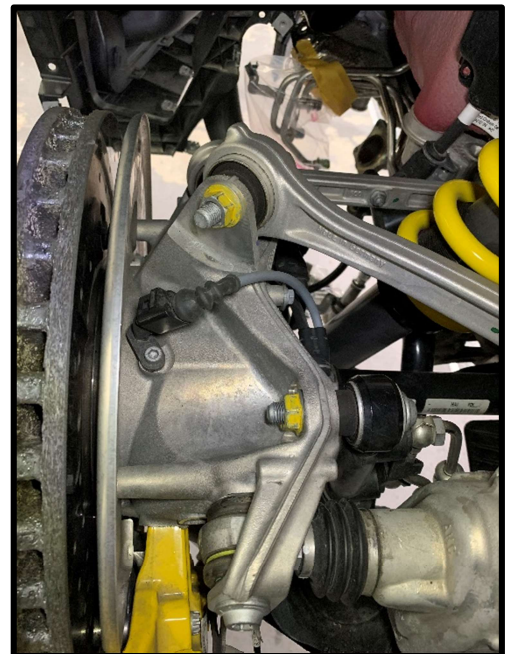


Fig. 10



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TECHART Modification-Kit Wheel Hub

- 13 Dismantle the holder for the cable set.
- 14 Loosen the top transverse control arm.
- 15 Loosen the axle drive on the bottom.
- 16 Loosen the lower front transverse control arm.
- 17 Loosen the shock absorber on the bottom.
- 18 Remove the wheel carrier.



Fig. 11

- 19 Loosen the wheel bearing connection.
- 20 Remove the wheel bearing incl wheel hub.
- 21 Press in the new wheel hub into the new wheel bearing.



Fig. 13

- 22 Install in reverse order.



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Screw connection	Part number		Torque	New
Wheel bearing	WHT004835	M12x1.25x46	80+120°	Yes
Suspension strut	9A700872500 with WHT008717	M12x1,5x85 M12x1,5	110Nm	
Steering front top	9A700867700	M12x1.5x80	70Nm + 180°	Yes
Steering link / rear axle steering	9A700867700	M12x1.5x80	60Nm + 90°	Yes
Steering front bottom	PAF008675 with PAF90664	M12x1.5x90	70Nm + 180°	Yes
Axle steering bottom	PAF008674 with PAF909664	M12x1.5x105 M12x1.5	70Nm + 180°	Yes
Coupling bar	PAF909664	M12x1.5	50Nm + 40°	Yes
Coupling bar PDCC	PAF909664	M12x1.5	50Nm + 50°	Yes
Brake actuator	9A700704400	M8x38	10Nm+60°	
Cable holder		M6x16	10Nm	
Cover sheet		M6x16	4Nm + 45°	
Brake disk 5-hole	N10456004	M6x12	5Nm	Yes
Brake disk center-lock	PAF008885 with 9P1401111A	M6x30	14Nm	Yes
Brake caliper	N91183701	M12x1.5x115	30Nm + 75°	Yes
Drive shaft	WHT007021	M22x1.5	250Nm + 60°	Yes



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4 Finishing touches

- 1 Ventilate the brake entirely.
- 2 Control the axle adjustment.
- 3 Program the height level with the PIWIS.

5 Final inspection

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



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TECHART Modification-Kit Wheel Hub



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