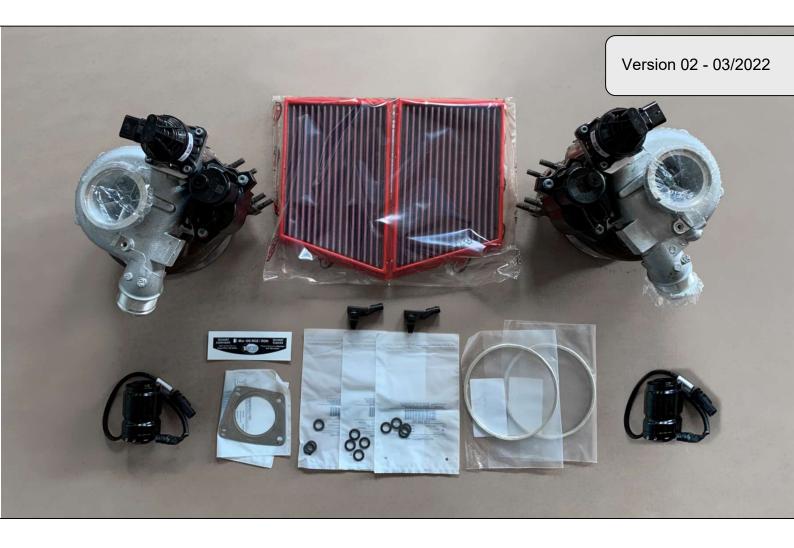
TECHART

ASSEMBLY INSTRUCTIONS

TECHART Power-Kit 092 TA / T2.1 for 992 Turbo S

Part-no. 092.300.800.009 for 992 Turbo S as of MY20 with GPF Part-no. 092.300.820.009 for 992 Turbo S as of MY20 w/o GPF





TECHART Power-Kit 092 TA / T2.1

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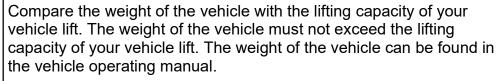
I Important safety information

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





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

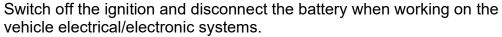








Risk of injury from electric current.









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.







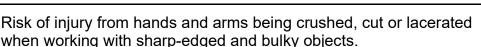




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⚠ CAUTION







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.





⚠ CAUTION

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 guide.



TECHART Power-Kit 092 TA / T2.1

II Preparation

Number of people required



For the installation of this product at least two persons are needed.

Help and support

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

Quantity	Part number	Part designation
1	092.300.800.009	Power-kit TA 092 / T2.1 for 992 Turbo S with GPF
Consisting	of:	
1	092.300.800.100	Data status TA 092 / T2.1
1	092.300.800.200	Data status 092 T2.1 PDK
1	000.300.102.OKT	Octane 100 decal
1	092.300.820.101	Turbocharger T55 VTG right cylinder. 1-3
1	092.300.820.102	Turbocharger T55 VTG left cylinder. 4-6
2	092.300.820.300-01	Diverter valve
2	000.300.350.051	Pressure- / temperature sensor
2	9A725311500	Seal
12	PAF008288	O-Ring
8	PAF008276	O-Ring
2	0PB145039A	Seal



TECHART Power-Kit 092 TA / T2.1

Quantity	Part number	Part designation			
1	092.300.820.009	Power-kit TA 092 / T2.1 for 992 Turbo S w/o GPF			
Consisting of:					
1	092.300.820.100	Data status TA 092 / T2.1			
1	092.300.800.200	Data status 092 T2.1 PDK			
1	000.300.102.OKT	Octane 100 decal			
1	092.300.820.101	Turbocharger T55 VTG right cylinder. 1-3			
1	092.300.820.102	Turbocharger T55 VTG left cylinder. 4-6			
2	092.300.820.300-01	Diverter valve			
2	000.300.350.051	Pressure- / temperature sensor			
2	9A725311500	Seal			
12	PAF008288	O-Ring			
8	PAF008276	O-Ring			
2	0PB145039A	Seal			

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 Power-Kit 092 TA / T2.1

III Installation

- 1 Prepare vehicle
- 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.
 - 1 Raise vehicle at the factory-fitted jacking points.
 - 2 Check the oil level of the PDK gear according to the manufacturer's specifications.



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- 2 Detach original parts
- 2.1 Detach original engine- and PDK-control unit
- Please note the required security advice of the manufacturer and the local applicable law and regulations on occupational safety and accident prevention!
- The engine- and the PDK-control unit has to be dismantled and has to be sent to the TECHART plant to input the new data.
- Switch off the ignition and disconnect the battery when working on the vehicle's electrical system.
- After dismantling the engine control unit, it is no longer possible to change gears or start the engine. The vehicle must first be professionally secured against rolling away.
 - 1 The engine control unit is located on the right in the direction of travel in the engine compartment.



Fig. 01

- 2 Make sure that the battery is disconnected before you dismantle the engine control unit according to the manufacturer's specifications.
- 3 Disconnect all combination plugs from the control unit.
- 4 Loosen the nuts on the engine control unit bracket.
- 5 Remove the control unit.

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6 The PDK control unit is located on the left in the direction of travel under the emergency seat.



Fig. 02

- 7 First remove the rear bench seat if present; to do this, remove the cover on the seat belt buckles.
- 8 Remove the lower rear seat cushions.
- 9 Then remove the buckle cover and the screws underneath (be careful not to damage the cables).



Fig. 03

- 10 Now carefully remove the rear seat bench, lift up the carpet and unscrew the 3 screws.
- 11 Then remove the PDK control unit from the holder.



Fig. 04



TECHART Power-Kit 092 TA / T2.1

Mark the original control units with VIN-number as well as the order number and send to the following address:
TECHART Automobildesign GmbH
Wareneingang
Roentgenstrasse 47
71229 Leonberg
GERMANY



TECHART Power-Kit 092 TA / T2.1

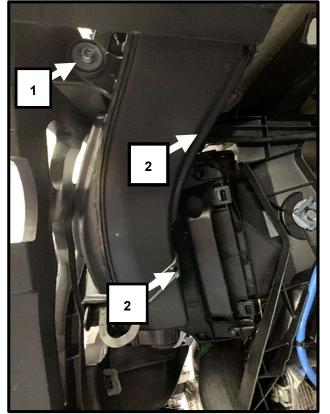
2.2 Dismantle rear apron



Dismantle the rear apron as wen as me non-Dismantle the rear apron as well as the heat protection sheets and the bumper

2.3 **Exchange the air filter against the TECHART air filter**

- Dismantle the rear wheel arch liners.
- Loosen the screw on the suction 2 funnel (1).
- Slide the intake funnel up and out of 3 the holder.
- Loosen the Torx screws (2) on the air filter holder.
- 5 Remove and replace the air filter.
- Assemble in reverse order. 6





TECHART Power-Kit 092 TA / T2.1

2.4 Dismantle the original exhaust turbocharger



Please note the required security advice of the manufacturer and the local applicable law and regulations on occupational safety and accident prevention!

Caution: Care for absolute cleanliness when dismantling the exhaust turbocharger!

Motor oil and coolant may run out, please collect it in a suitable receptacle!

- 1 Loosen the hose clamp on the pressure hose and pull off the pressure hose.
- 2 Right only: Loosen the vent line.
- 3 Loosen the V-band clamps for the suction pipe and dismantle the suction pipe.
- 4 Loosen the tank ventilation on the turbocharger.
- 5 Loosen the oil supply and return lines on the turbocharger.
- 6 Oil leakage possible! Seal the lines with a suitable plug.
- 7 Loosen the coolant lines on the turbocharger and close with plugs.
- 8 Unlock and disconnect the plugs of the electrical cables for the waste gate and VTG.



Fig. 06



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- 9 Loosen the support on the catalytic converter.
- 10 Loosen the V-band clamp between the catalytic converter and the turbocharger.
- 11 Loosen the nuts from the turbocharger on the manifold.
- 12 Remove the turbocharger.



Fig. 07



TECHART Power-Kit 092 TA / T2.1

- 3 Install TECHART parts
- 3.1 Install TECHART turbocharger
- Caution: Care for absolute cleanliness when installing the exhaust turbo charger!

Part number TECHART exhaust turbocharger right: 092.300.820.102

- Part number TECHART exhaust turbocharger left: 092.300.820.101
 - 1 Replace the sealing rings on all water and oil lines with the supplied sealing rings.
 - 2 Attach the TECHART exhaust turbocharger and first mount the V-band clamp to the catalytic converter.
 - 3 Mount the catalytic converter support.
 - 4 Connect the oil and water supply.



Fia 08



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- 5 Insert and lock electrical cables for wastegate and VTG control.
- 6 Fit the compressed air hose and tighten the clamp.
- 7 Attach suction hose with V-band clamp and tighten.



Fig. 09



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3.2 Installation pressure sensors

1 Replace the sensor on the rear of the suction pipe.



Fig. 10

- 2 Replace the sensor in front of the throttle valve.
- 3 Make sure that all red latches are locked again.



Fig. 11



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3.3 Installation of diverter valves

- 1 Unplug the control cable of the diverter valves.
- 2 Dismantle both diverter valves.
- 3 Mount the diverter valves supplied (screws 4Nm).
- 4 Connect and secure plugs.



Fig. 12

3.4 Install control units

- 1 Install and connect the engine- and the PDK-control unit according to the manufacturer's specifications.
- 2 Complete the interior.



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3.5 Installation rear apron



Install the rear apron as well as the heat protection sheets and the bumper beam according to the manufacturer's specifications.

4 Final check

- 1 Complete vehicle.
- 2 Refill coolant, thoroughly ventilate cooling circuit.
- 3 Check oil-level and correct it if necessary.
- 4 Use the PIWIS system tester to read out all of the fault memories and rectify.
- 5 Warm up the engine, check the engine oil-level and perform a leakage test.
- 6 Finally carry out a test drive and then read out the fault memories again.
- 7 Check all operating liquids.



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5 Tightening torques

Location	Description	Basic value
Coolant lines at the turbo charger	M6x10	10 Nm
Holder turbocharger lines	M6	10 Nm
Turbocharger to exhaust manifold	M8	25 Nm
Oil lines (pressure side) to turbocharger	M6x10	10 Nm
Oil lines (suction side) to turbocharger	M6x20	10 Nm
Oil lines (ventilation) to turbocharger	M6x20	10 Nm
Holder for tank ventilation line to turbocharger	M6	10 Nm
Intake pipe to air filter housing	Screw clamp	2.5 Nm
Intake pipe to turbocharger	V-band clamp	5.5 Nm
Hose to turbocharger	Screw clamp	5.5 Nm
Hose catalytic converter	M8x20	23 Nm
Catalytic converter to turbocharger	V-band clamp	20 Nm
Catalytic converter to muffler	Clamping sleeve	30 Nm



TECHART Power-Kit 092 TA / T2.1



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