

ASSEMBLY INSTRUCTIONS

TECHART Power-Kit B95FL/S1.1 and T1

Part-no. B95.300.500.009

for Macan GTS as of MY19

Part-no. B95.300.510.009

for Macan Turbo as of MY19













Version 04 – 10/2023

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I. Important safety information

All necessary working steps are only allowed to be performed by trained people with the according knowledge and trainings.

	<p style="text-align: center;">⚠ WARNING</p> <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>	
	<p style="text-align: center;">⚠ WARNING</p> <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>	
 	<p style="text-align: center;">⚠ CAUTION</p> <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 style="text-align: center;">⚠ CAUTION</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 style="text-align: center;">NOTICE</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>	

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	B95.300.500.009	Techtronic for GTS of MY19
Consisting of:		
1	000.300.101.105	Techtronic auxiliary control unit ET6
1	09Y.300.200.200-02	Cable set Techtronic
1	000.300.100.OKT	Octane 100 decal

or

Quantity	Part number	Part designation
1	B95.300.510.009	Techtronic for Turbo of MY19
Consisting of:		
1	000.300.101.105	Techtronic auxiliary control unit ET6
1	09Y.300.200.200-02	Cable set Techtronic
1	000.300.100.OKT	Octane 100 decal

1. Plug & Play-wiring harness
2. CAN-wiring harness
3. Bracket
4. Octane decal
5. Cable ties
6. Techtronic module

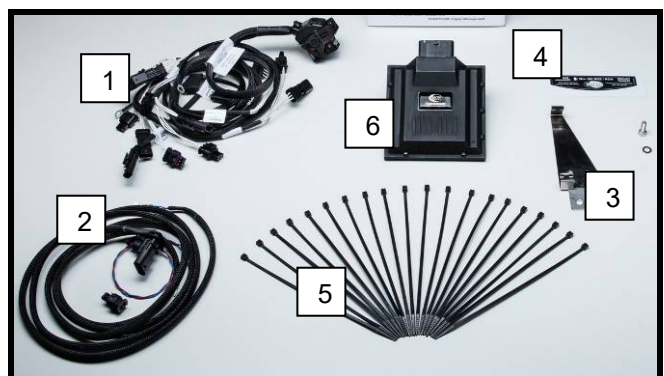



Fig. 01

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.

III. Installation

1. Prepare vehicle

-  Before starting to 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.

Please read the assembly instructions thoroughly and observe the specified procedure and instructions. Due to the technical complexity we recommend to let this installation to be carried out solely by an authorized partner. We can only grant guarantee if the installation has been done correctly.

In respect to the driving safety, one should inform the customer that the vehicle is equipped with a Techtronic KIT.

2. Dismantle original parts

1. Disconnect the battery.
2. Remove the entire cover for the engine compartment.



Fig. 02

3. Detach the cover for the water container entirely.



Abb.03

4. Remove the filler neck for the washer fluid. Make sure the container is not completely full.



Fig. 04

5. Open the lid at the fuse box in the water container.



Fig. 05

3. TECHART CAN wiring harness

1. The TECHART CAN wiring harness has to be insert in the compact plug (white) of the just opened fuse box. For that unlock the PIN-lock (violet) at the white plug.
2. Remove the CAN cable from the plug and connect according to the wiring diagram (see fig. 07).
3. Unpin cable 14 (OG/BK) from the compact plug and pin into the TECHART plug Pin 1.
4. Pin in the blue TECHART cable into the free pin shaft PIN 14.
5. Proceed the same way on Pin 13 (OG/BN) and pin the red TECHART cable into the free pin shaft.
6. After that close the lock of both compact plugs (violet).
7. Connect all compact plugs.

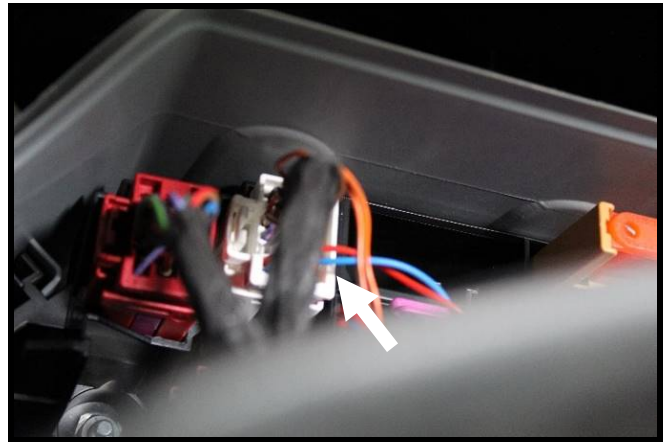


Fig. 06

1. Wiring diagram

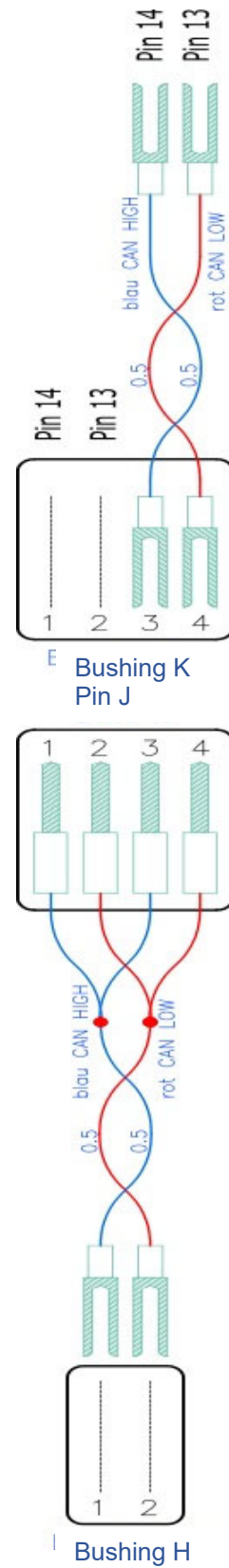


Fig. 07

4. TECHART Plug & Play wiring harness

1. Install the Plug & Play wiring harness.



Fig. 08

2. Remove the compact plug of the boost pressure sensor in front of the throttle and insert it at the TECHART wiring harness into the mating plug, which is marked with "boost pressure in front of throttle valve". Then attach the compact plug "boost pressure in front of throttle valve" of the TECHART wiring harness to the sensor. The sensor can be found below the left headlight.

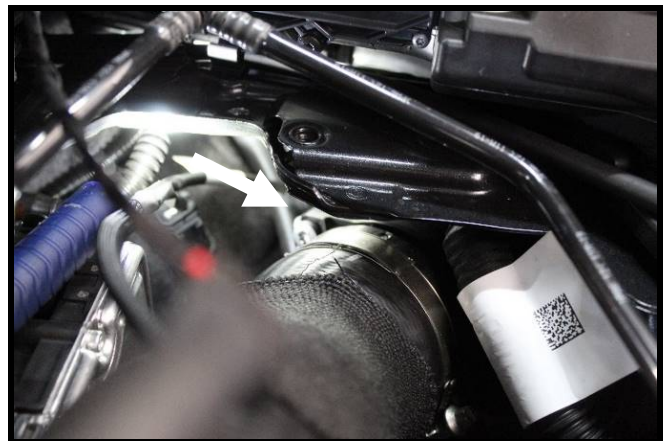


Fig. 09

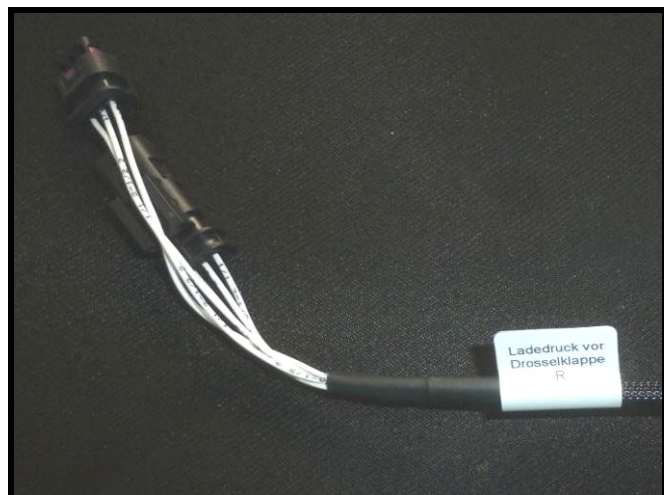


Fig. 10

3. Remove the compact plug of the boost pressure sensor after the throttle and insert it at the TECHART wiring harness into the mating plug, which is marked with “boost pressure behind throttle valve”. Then attach the compact plug “boost pressure behind throttle valve” of the TECHART wiring harness to the sensor.

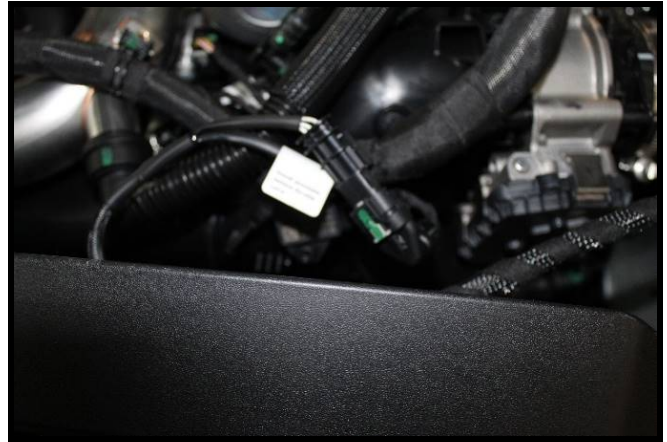


Fig. 11

4. Remove the compact plug of the rail pressure sensor and insert it at the TECHART wiring harness into the mating plug, which is marked with “rail pressure”. Then attach the compact plug “rail pressure” of the TECHART wiring harness to the sensor.



Fig. 12

5. Route the TECHART Plug & Play and the CAN wiring harness along the front brake line into the engine compartment.



Fig. 13

6. Mount the positive cable including the fuse to the positive distributor at the fuse box.

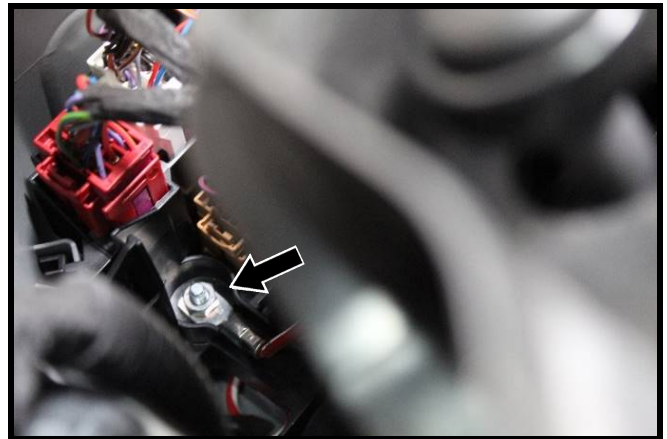


Fig. 14

7. Tighten the black cable to the ground point at the firewall directly in front of the fuse box.



Fig. 15

- Pin the CAN-cable into the supplied 2-pole plug.
Pin 1 = blue
Pin 2 = red
Connect the plug with the TECHART Plug & Play wiring harness. Make sure that blue is connected to blue and red to red.

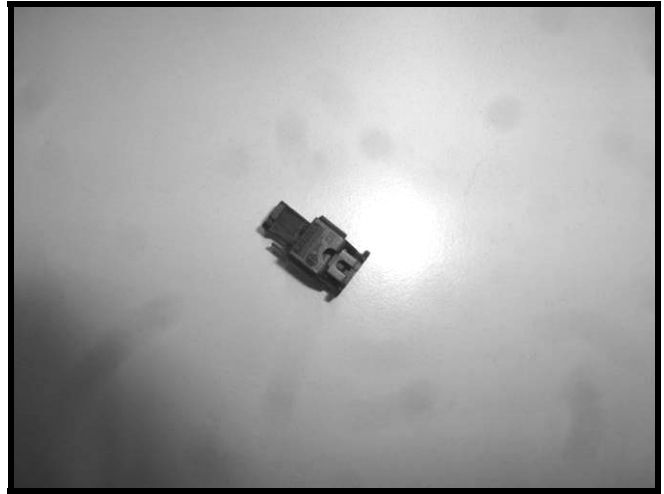


Fig. 16

- Mount the TECHART Techtronic module below the original engine control unit. For that remove the bracket of the original control unit. Modify the bracket so the Techtronic can be fastened as shown on fig. 19. Install the bracket with the Techtronic.



Fig. 17

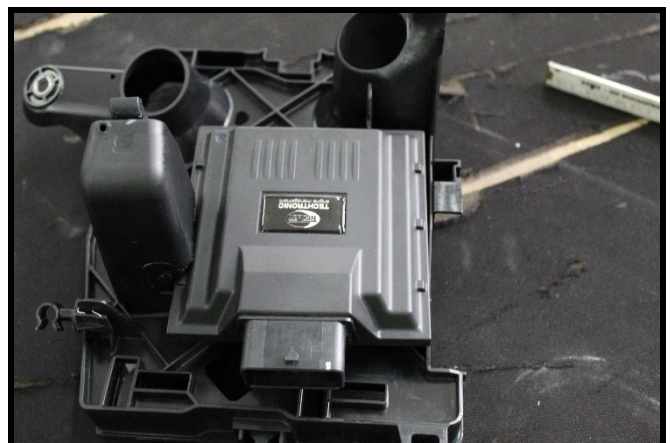


Fig. 18



Fig. 19

10. Reinstall the bracket with the Techtronic into the vehicle and connect.

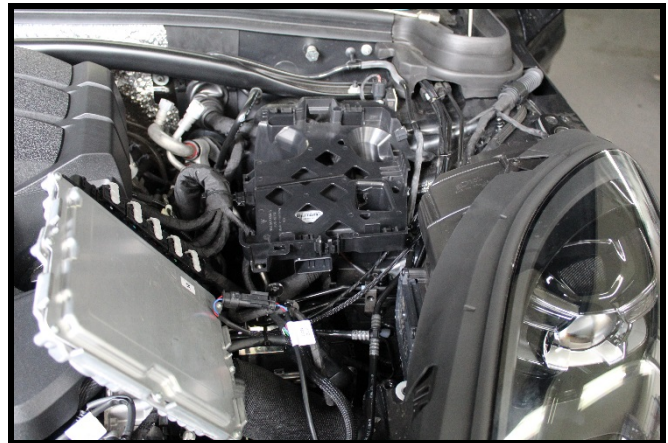


Fig. 20

11. Fix both TECHART wiring harnesses with cable ties. Care for a tension-free routing and sufficient clearance to all rotating, sharp-edged or hot parts.

12. Attach the supplied 100-Octane-decal to the fuel cap in exchange of the original octane decal.



Fig. 21

5. Function check

1. Check if all components are carefully installed and reliable fastened.
2. Reconnect the battery
3. Turn the ignition on.
4. With the different colors of the LEDs various operational states are shown:

LED red: ignition off or the signals are not recognized completely.

LED green: all signals recognized, tuning inactive

LED blue: engine warmed-up, sport-mode recognized, tuning activated



The LED status “blue” will be reached after a short drive with permanent engine running.

5. Install dismantled covers.
6. Perform a test drive and read out all fault codes.



Fig. 22

- i** The activation of the power increase will be effected by the travel mode-switch at the steering wheel. If the sport-/sport plus mode is not chosen or the sport response button at the normal mode was not pressed then the engine will run with the standard power.
- i** Please consider that the power values of the Techtronic power increase will only be reached with an activated sport mode, operating temperature and a fuel quality of 100 octane.

If these requirements are complying then the power increase will be activated progressively.

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