

ASSEMBLY INSTRUCTIONS

TECHART Rear Spoiler III

Part-no. 092.121.820.009 for 992 Carrera Coupé & 992 GT3 Touring



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I Important safety information

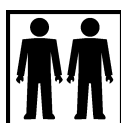
All of the necessary work must be performed by qualified persons with an appropriate level of expertise.

	<div data-bbox="659 562 962 618" data-label="Section-Header">  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 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 data-bbox="659 857 962 913" data-label="Section-Header">  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/electronic systems.</p>	
   	<div data-bbox="659 1104 962 1160" data-label="Section-Header">  WARNING </div> <p>Risk of fire 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 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 data-bbox="595 1630 1098 1765">    </div>	  

 	<div data-bbox="657 369 960 430" style="text-align: center;"> CAUTION</div> <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>	 
	<div data-bbox="657 689 960 750" style="text-align: center;"> CAUTION</div> <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>	
	<div data-bbox="306 974 590 1034" style="text-align: center;">NOTICE</div> <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

Number of people required



For the installation of this product at least one person is needed.

Assembly time



It takes at least 2.5 hours to assemble this product.

Help and support

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

Check TECHART Rear Spoiler III parts kit for completeness

Quantity	Part-Number	Part Designation
1	092.121.820.009	Rear spoiler III
Consisting of:		
1	092121820100	Base frame rear spoiler III
1	092100820200	Air duct rear spoiler III
1	092100820210	Adapter
1	092100820300	Housing air outlet rear spoiler III
1	092100820310	Grille air outlet rear spoiler III
1	092100820100	Support 1 R rear spoiler III
1	092100820102	Support 2 R rear spoiler III
1	092100820104	Support 3 R rear spoiler III
1	092100820101	Support 1 L rear spoiler III
1	092100820103	Support 2 L rear spoiler III
1	092100820105	Support 3 L rear spoiler III
1	092100820110	Bracket side R rear spoiler III
1	092100820111	Bracket side L rear spoiler III
1	092100820120	Bracket front R
1	092100820121	Bracket front L
1	092100820122	Bracket top R
1	092100820123	Bracket top L
1	992945277A	Auxiliary brake light
1	092.121.820.990	Accessory kit rear spoiler III
Consisting of:		
16	001900M05X16912	Hexagon socket head screw, M 5x16, galvanized
8	001900M05X20912	Hexagon socket head screw, M 5x20, galvanized
12	001900M03685	Hexagon nut self-locking, M 5 galvanized
34	001900M05X15A2	Washer M 5x15, A2, DIN 9021
4	001900M5X107380A2	Fillister head screw with flange M 5x10 / A2
4	001900M5X12A2KTX	Cylinder head screw M5x12 A2K TX25
2	001900M4X107380	Fillister screw with flange M 4x10 black
2	0019009002520	Threaded sleeves round M4x20, internal thread
4	001900M5X127380A2	Fillister head screw with flange M 5x12 / A2
15	00010040066	Expanding rivet plastic PA, black
8	001900M5X167380-2SWM	Fillister head screw M5x16/A2 black matt
8	0001005310010	Washer black TPG, 5.3x10x1mm
3	99950788901	U-clip
2	001900M05W379005	Speed nut with wave washer, M5, galvanized A2K
2	0005905616648	Cable feedthrough

and

1	+92121820200	V01: paintable
Consisting of:		
1	092121820200	Spoiler lip rear spoiler III, paintable

or

1	+92121820200G	V01: Visible carbon glossy
Consisting of:		
1	092121820200G	Spoiler lip rear spoiler III, glossy

or

1	+92121820200M	V01: Visible carbon matt
Consisting of:		
1	092121820200M	Spoiler lip rear spoiler III, matt

and

1	+92121820300	V02: for Carrera
Consisting of:		
1	092100810500	Cover center mounted brake lamp, blank, rear spoiler II

or

1	+92121820301	V02: for GT3 Touring
Consisting of:		
1	092140820100	Cover rear lamp

and

1	+92540810300	V03: Rear spoiler control North America
Consisting of:		
1	092540810300	Rear spoiler control North America

or

1	+92540810200	V03: Rear spoiler control RoW
Consisting of:		
1	092540810200	Rear spoiler control

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 Component identification

1 Inner component identification

- i** The inner component designations applied by TECHART must be masked off before painting. These are decisive to TECHART-Support for possible component tracking, complaints or in the event of damage.

- 1 Internal component markings can either be applied directly to the component in the tool or glued in as a label. (Figure on the right exemplary).



Fig. 01

2 Outer component identification

- i** The external component designations applied by TECHART must be masked off before painting.

- 1 External component markings are usually attached to the underside of the component in the non-visible area. Only if these remain visible does the parts certificate retain its effect. (Figure on the right exemplary).



Fig. 02

IV Paintwork

1 Material of the component



It is important that the paintwork matches to the surface which will be painted.

- 1 Before painting, the material to be painted can be read from the inner component identification.

2 Component labels



All internal and external component labels must be masked off before painting. These must still be legible after painting in the desired color.

- 1 The final layer of clear coat can then be applied over the entire surface of the component, thus avoiding deep rims around component markings.

3 Adhesive tape and mounting fixtures



The body tape applied by TECHART is used for later assembly and must be protected over the entire surface before painting.

- 1 The edges of the adhesive body tape must also be free of paint in order not to impair the elasticity of the tape.
- 2 Drilled holes made at the factory that will later be used for screws or rivets may have to be re-drilled to the nominal size depending on the amount of paint.

V Installation

1 Prepare vehicle

- i** Before starting work, check that the vehicle is free from defects. Use the PIWIS system tester to read out all the fault memories of the individual vehicle components and first rectify any faults displayed.

2 Prepare TECHART rear spoiler III

- i** The bonding surfaces must be dry and free from dust and paint spray mist!
Use cleaning agent to thoroughly degrease bonding surfaces. Then sand it down using 100-180 grade abrasive paper and finally use cleaning agent to degrease it again.

Do not touch the surfaces after they have been cleaned.

- 1 Fix the grille in the air outlet all around with adhesive dots in the non-visible area.
- 2 Glue the air outlet with grille into the painted base body so that the openings are aligned with each other.

3 Dismantle original rear spoiler

- i** Heat all butt connectors with the hot air gun after crimping so that the butt connectors are welded watertight.
- i** Assembly may only be carried out when the engine has cooled down - risk of burns!

- 1 Turn the ignition on.
- 2 Deploy the rear spoiler.
- 3 Turn the ignition off.



Fig. 03

- 4 Unscrew the original rear spoiler (16) from the carrier.

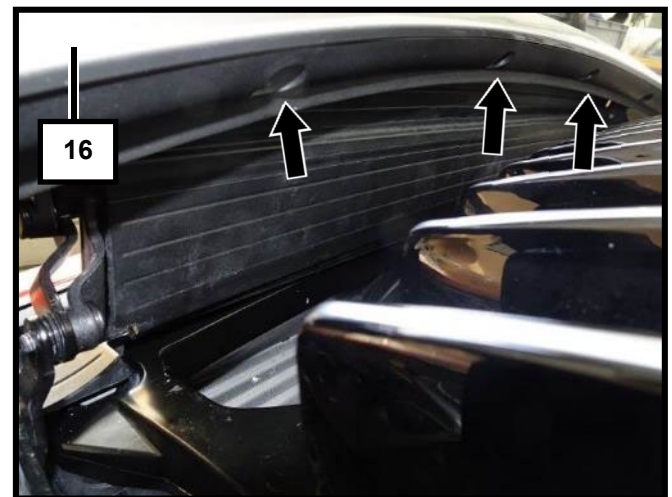


Fig. 04

- 5 Dismantle the center stop lamp from the rear spoiler bottom part (17).
- 6 Dismantle the cable of the center stop lamp.
- 7 Unscrew the original rear spoiler bottom part (17), one screw from the top and two from the bottom.

i The original rear spoiler and carrier are no longer required.

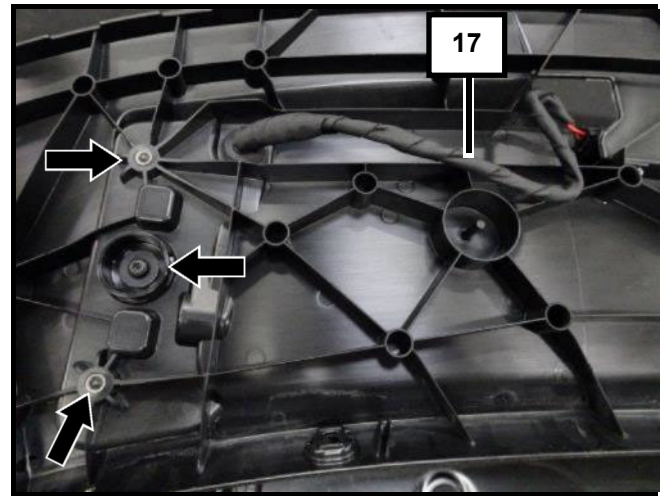


Fig. 05

- 8 Unclip the cover right and left (18).



Fig. 06

- 9 Unscrew the oil and water lid.
- 10 Remove the engine-cover over the flushing blower (21).
- 11 Fasten the oil and water lid again.

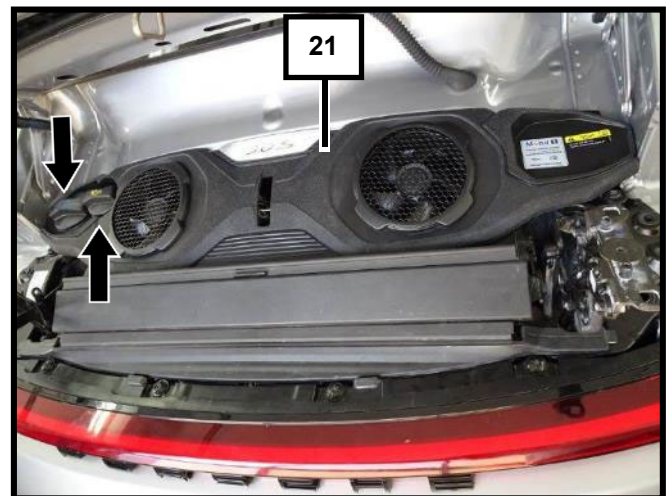


Fig. 07

- 12 Unscrew both louvers (22) of the rear spoiler unit (23) and unclip on the bottom.



The louvers and the rear spoiler unit are no longer required.

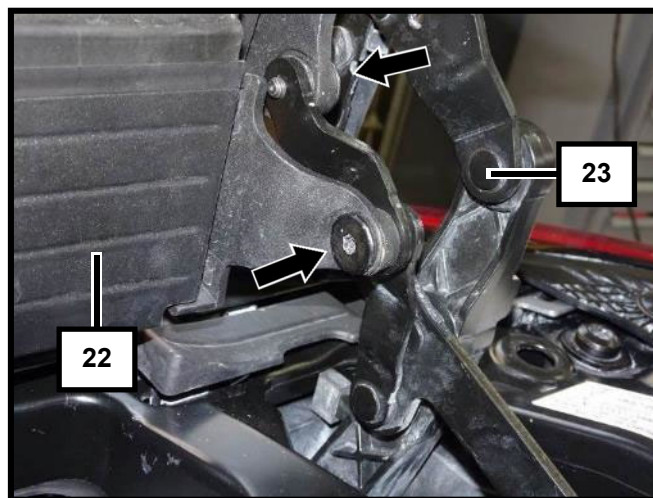


Fig. 08

- 13 Unclip both aerators (24) and separate the electrical connection.

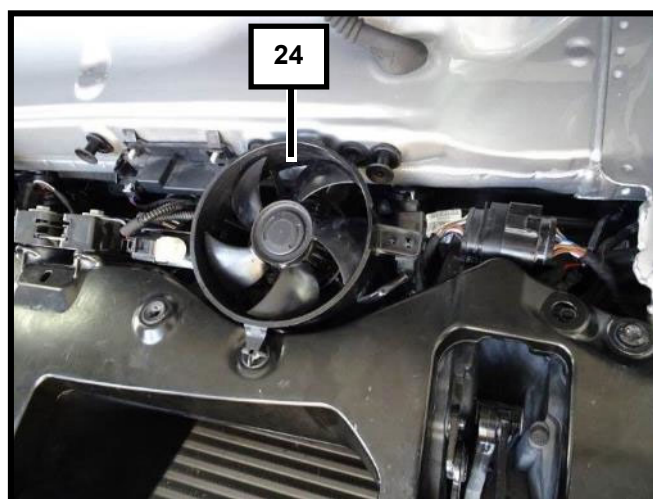


Fig. 09

- 14 Unscrew the taillight strip (25), pull it out and separate both electrical connections.

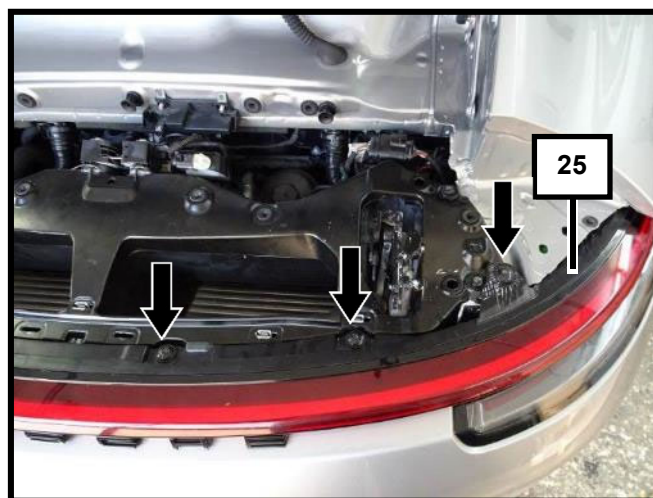


Fig. 10

- 15 Untighten the screw of the taillight and the rear apron.
- 16 Separate the electrical connection of the rear spoiler.

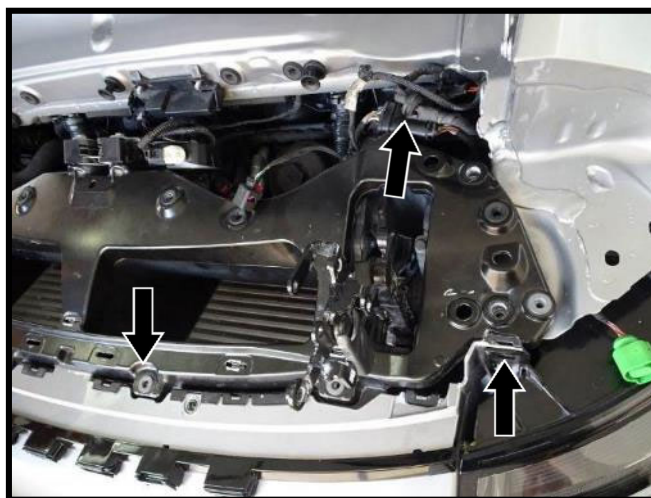


Fig. 11

- 17 Unscrew the complete rear spoiler unit ((23) with the carrier (20) and twist to pull out towards the top.

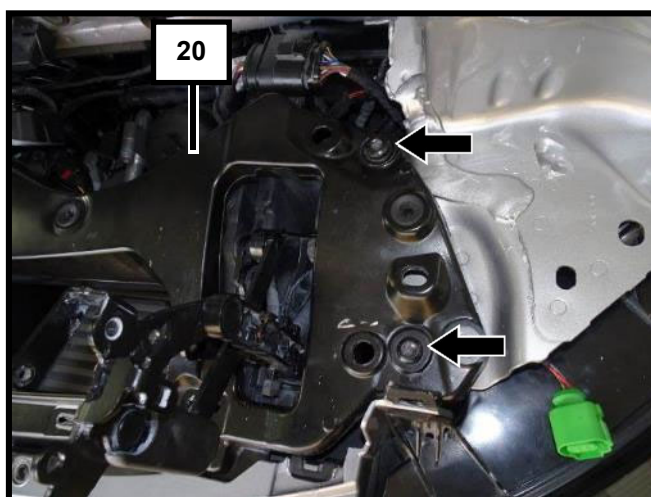


Fig. 12

- 18 Unscrew the rear spoiler unit (23) from the carrier (20).

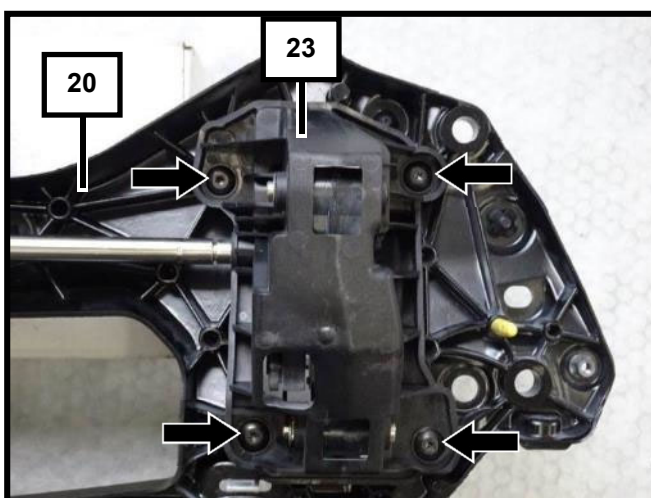


Fig. 13

- 19 Untighten the drive motor (26) from the carrier (20).
- 20 Unplug the electrical connection from the drive motor.
- 21 Cut the cable of the drive about 20mm behind the cable sleeve and seal watertight with the heat-shrinking tube 3.2/1.6 thin-walled.

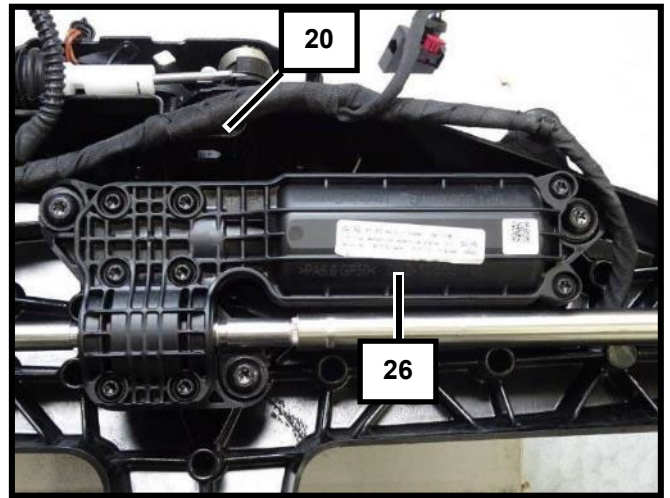


Fig. 14

- 22 Dismantle the Hall sensor (27) of the rear spoiler unit (20).
- 23 Secure the Hall sensor (27) and the cable from the drive motor with cable ties to the wiring harness.



Drive unit with drive motor is no longer needed.

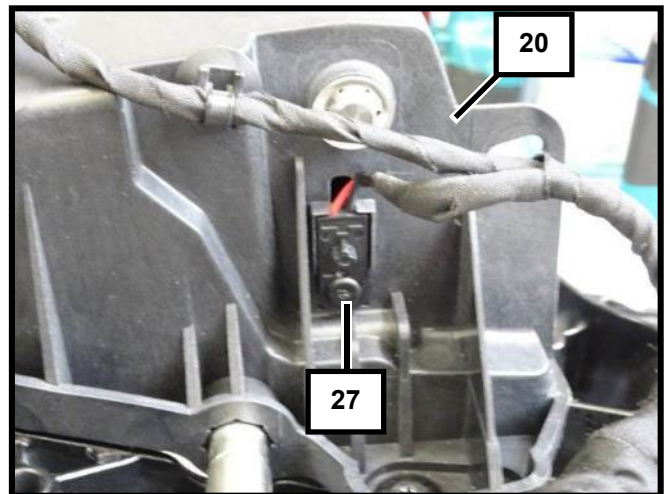


Fig. 15

- 24 Dismantle both centered retaining clips from the carrier (20); these will be replaced by new clips.

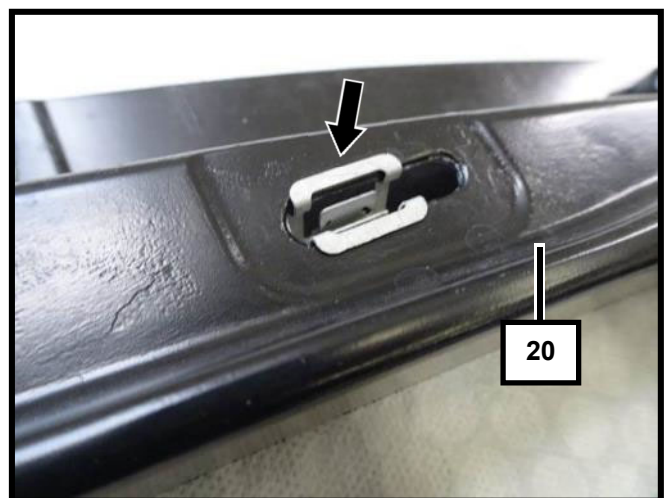


Fig. 16

- 25 Dismantle the center-mounted brake lamp (30).
- 26 Separate the electrical connection.

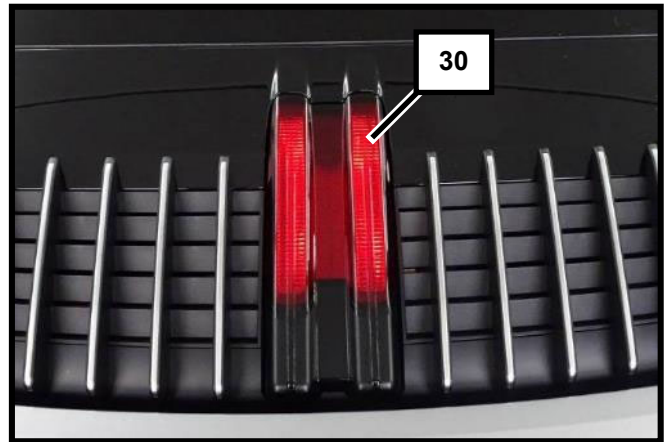


Fig. 17

- 27 Pinch of the cable about 20mm behind the plug.
- 28 Pull the wiring harness of the center-mounted brake lamp (31) from the service hatch and route to the plug rear spoiler (maintenance area right). For that twist the rubber sleeve at the metal sheet.
- 29 Reinstall the center-mounted brake lamp (30).

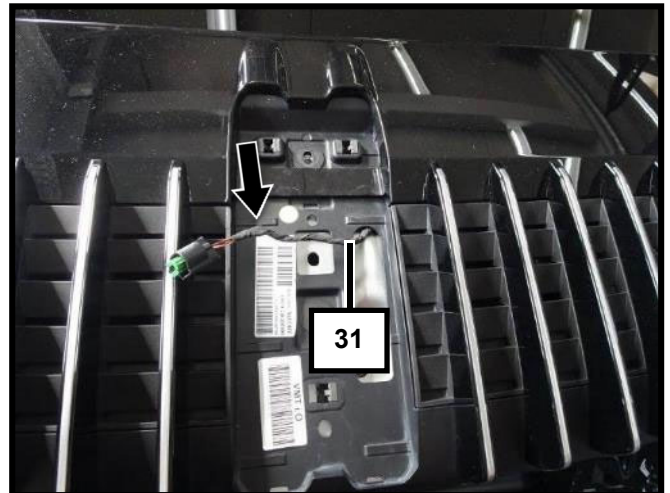


Fig. 18

- 30 Separate the cable red Pin 1 about 20mm in front of the 14-way plug at the vehicle.
- 31 Clamp the cable black/red of the wiring harness of the center-mounted stop lamp (31) to the separated cable.



Fig. 19

4 Install TECHART rear spoiler III

- 1 The 3-part support is screwed together loosely with the M5x16 and screwed from below to the mounting carrier with the M5x16 in the central hole position. After each of the 4 screws to the mounting beam have been tightened with a torque of 6Nm, each of the 4 screws connecting the support parts are tightened with 6Nm. The screws must be provided with a medium-strength threadlocker.



Fig. 20

- 2 Mount the top and front bracket to the supports of the top hole position with the M5x20 hand-tight.

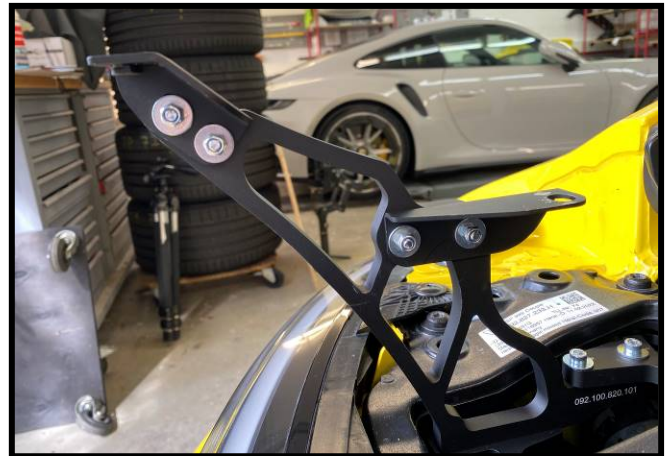


Fig. 21

- 3 Preassemble the holder on the side as shown in the picture (adjustment plate mounted on holder with M5x10). Screw the holder to the body at the points marked in the picture in the central hole position.



Fig. 22

- 4 Clip the 3 clamps into the mounting bracket or replace them. The adapter is pushed onto the center of the clips.



Fig. 23

- 5 Screw the brake light into the top of the base body and press the rubber grommet into the oblong hole in the side of the base body.
- 6 Place the base body on the holders and align it with the holders on the support and the adjustable bolts on the holders on the side of the vehicle.
- 7 Once the base body is aligned, apply threadlocker to the screws of the holders on the support as well as to the holders on the side and fasten them with 6 Nm. The lamp is connected with the plug and the base body is screwed onto the holders with 6 Nm.

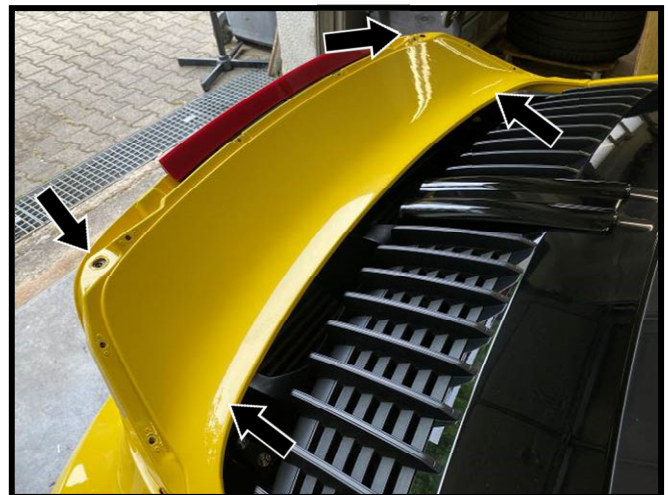


Fig. 24

- 8 Fasten the air duct to the base body and to the adapter using the expanding rivets from the center outwards. It is advisable to place a cloth or similar over the openings in the engine compartment to prevent the mounting parts from falling in.
- 9 The spoiler lip is mounted on the base body. To do this, use the screws with the black head and the rubber washers.



When installing the spoiler lip, make sure that the screws are only tightened enough to slightly compress the rubber washers.

5 Rear spoiler control**5.1 Rear spoiler control Coupé (not North America) 092.540.810.200**

- 1 Fold the rear seat.
- 2 Lift the carpet of the parcel shelf to the top.
- 3 Remove the 4-pole plug from the control unit rear spoiler (53).

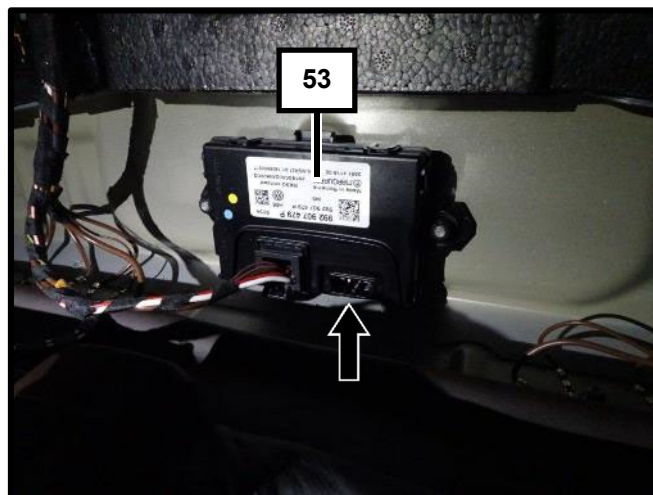


Fig. 25

- 4 Open the plug (54).
- 5 Unpin all 4 pins with the supplied tool from the plug (54).
 - brown 0.75mm
 - green
 - red / white
 - brown 2mm

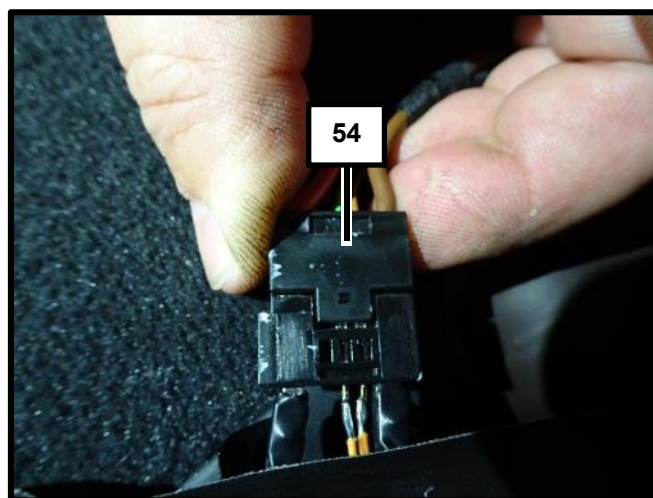


Fig. 26

- 6 Pin the red / white cable into the TECHART plug gray 3-fold (55) pin 2.
- 7 Pin the brown cable 2mm into the TECHART plug gray 3-fold (55) pin 1.
- 8 Pin 3 stays void.

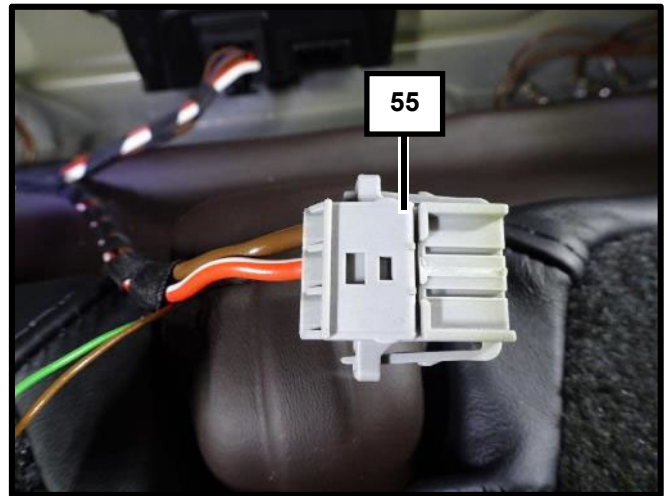


Fig. 27

- 9 Pin the green cable into the TECHART plug 3-fold (56) pin 2.
- 10 Pin the brown cable 0.75mm into the TECHART plug 3-fold (56) pin 1.
- 11 Pin 3 stays void.

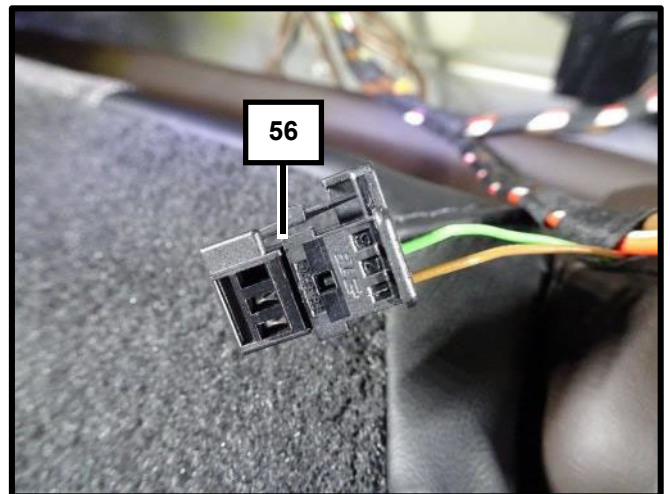


Fig. 28

- 12 Insert both plugs into the TECHART wiring harness.
- 13 Insert the TECHART wiring harness into the TECHART control unit.
- 14 Stick both plugs (55+56) to a hook and loop tape.

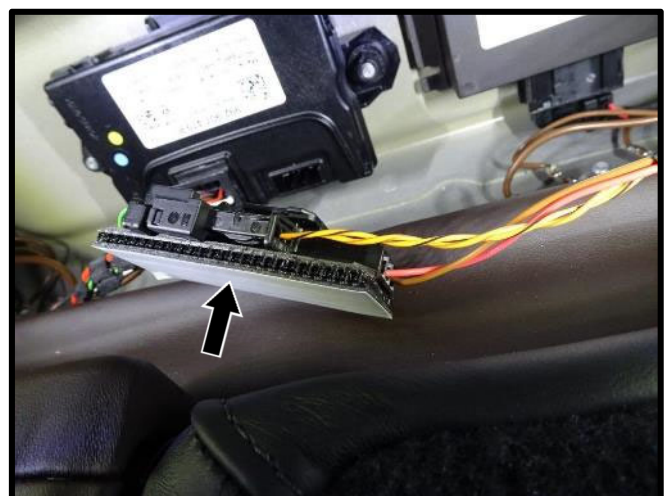


Fig. 29

- 15 Stick the TECHART control unit (57) with the hook and loop tape next to the control unit rear spoiler (53).
- 16 Stick the TECHART plugs (55+56) near the control unit rear spoiler (53).
- 17 Set the carpet of the parcel shelf back down.
- 18 Fold the rear seats back.

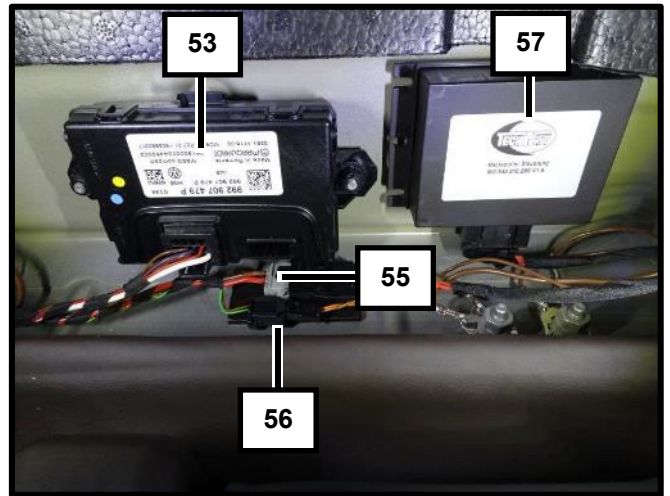


Fig. 30



The plug at the control unit rear spoiler stays void.

Ignore the errors at the PIWIS "Aerodynamic control unit".

- 19 read out all the fault memories and rectify any faults displayed.

5.2 Rear spoiler control, Coupé North America 092.540.810.300

- 1 Fold down rear seats.
- 2 Fold the parcel shelf carpet upwards.
- 3 Unplug both connectors.

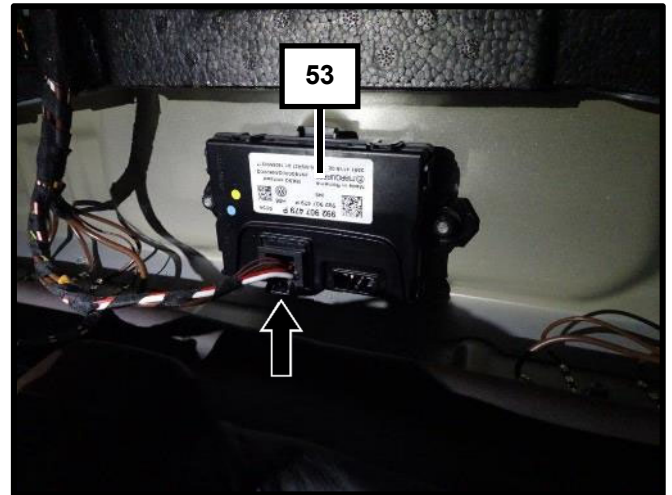


Fig. 31

- 4 Open plug (54).
- 5 Unpin the red/white pin and plug it into the supplied connector so that the red and the red/white cable connect when plugged together. Plug the red cable of the TECHART wiring harness back into the original plug. Do not plug this connector into the original control unit until everything else is finished.

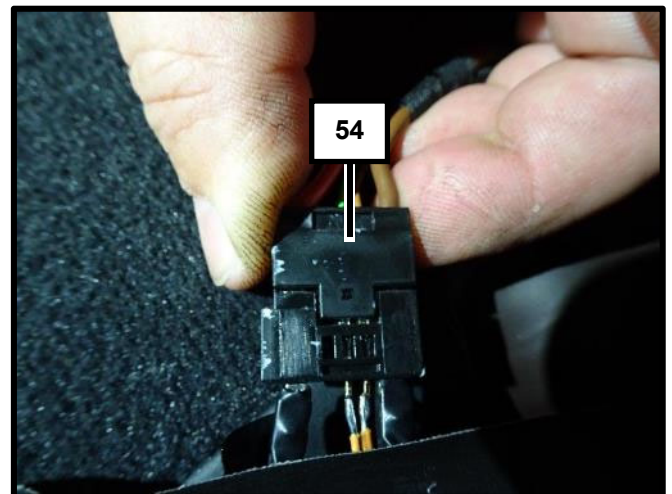


Fig. 32

- 6 Fasten the ground cable with the eyelet to the body.



Fig. 33

- 7 Compare the allocation of the large, rectangular plug (12-pole) of the TECHART wiring harness with the original plug. If more slots are occupied in the original connector, all cables that are not present in the TECHART connector must be transferred from the original connector to the TECHART connector.

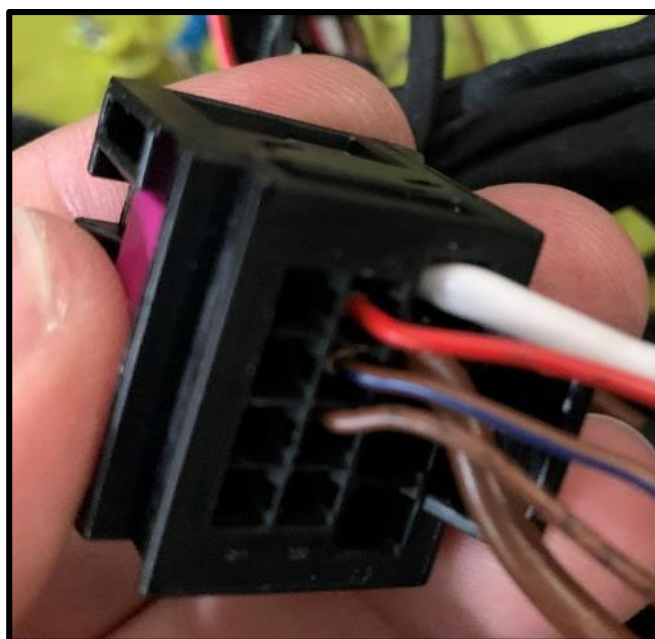


Fig. 34

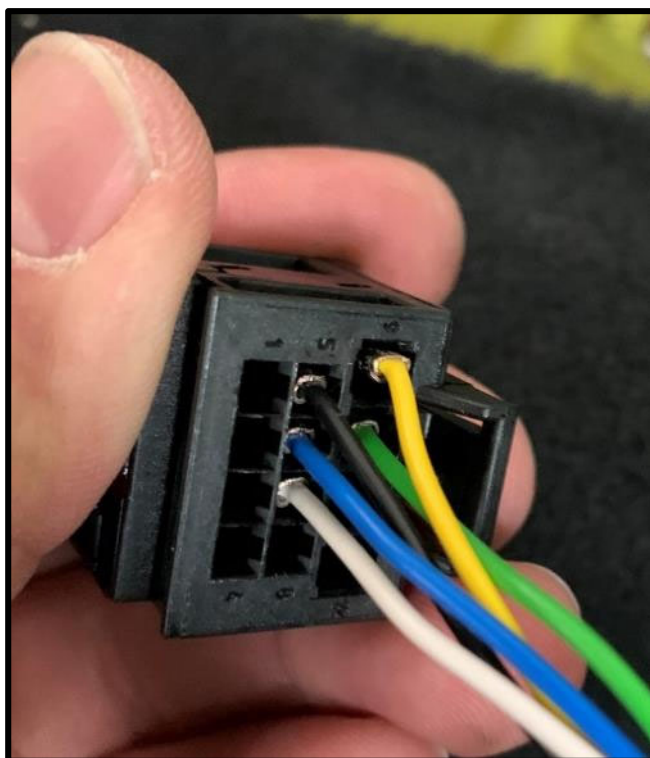


Fig. 35

- 8 Connect the TECHART wiring harness to the TECHART control unit. Now plug the large 12-pin plug into the original control unit. Only **NOW** plug the 4-pin plug into the original control unit.

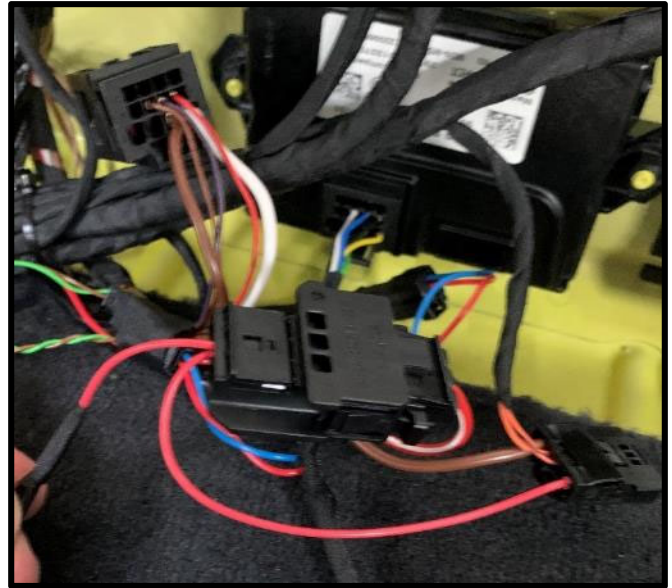


Fig. 36

- 9 Glue the TECHART control unit (57) with the Velcro next to the rear spoiler control unit (53).
- 10 Glue the TECHART connector (55+56) in the area of the rear spoiler control unit (53).
- 11 Fold the parcel shelf carpet down.
- 12 Fold back the rear seats.

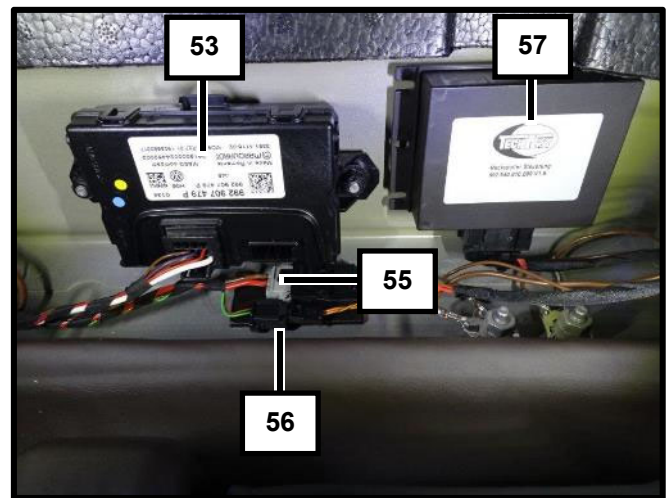


Fig. 37

- 13 Read out error memory, rectify existing errors. Teach rear spoiler.
- 14 Check the function of the rear spoiler control, both via the PCM (manually) and with a test drive (at least 120 km/h).



The connector on the rear spoiler control unit remains unconnected.

6 Final check

- 1 Perform a general function check on vehicle. Check the illumination.

TECHART

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