

ASSEMBLY INSTRUCTIONS

TECHART Rear Spoiler III

Part-no. 092.121.821.009 for 992 Turbo Coupé



Contents

I Important safety information3

II Preparation4

III Component identification7

1 Inner component identification7

2 Outer component identification7

IV Paintwork8

1 Material of the component8

2 Component labels8

3 Adhesive tape and mounting fixtures.....8

V Installation.....9

1 Prepare vehicle9

2 Prepare TECHART rear spoiler III9

3 Dismantle original rear spoiler10


















4 Install TECHART rear spoiler III.....13










5 Rear spoiler control17

6 Final check21

I Important safety information

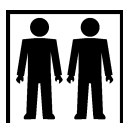
All of the necessary work must be performed by qualified persons with an appropriate level of expertise.

	<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="659 864 962 920" 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 1111 962 1167" 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="657 369 960 432" 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="657 689 960 752" 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 1037" 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	092.121.821.009	Rear spoiler III
Consisting of:		
1	092121821100	Base frame
1	092100821200	Air duct rear spoiler III
1	092100821300	Housing air outlet
1	092100821310	Grille air outlet
1	092100821220	Cover
1	092100821210	Adapter
2	092100821100	Support 1
2	092100820110	Support 2
1	092100820120	Bracket front R
1	092100820121	Bracket front L
1	092100820122	Bracket top R
1	092100820123	Bracket top L
1	092540810500	Rear spoiler control Turbo S
1	092.121.821.990	Accessory kit rear spoiler III
Consisting of:		
12	001900M05X16912	Hexagon socket head screw, M 5x16, galvanized
4	001900M05X20912	Hexagon socket head screw, M 5x20, galvanized
8	001900M03685	Hexagon nut self-locking, M 5 galvanized
20	001900M05X15A2	Washer M 5x15, A2, DIN 9021
8	001900M5X167380-2SWM	Fillister head screw M5x16/A2 black matt
8	0001005310010	Washer black TPG, 5.3x10x1mm
3	001900M6X187380-2SW	Fillister head screw with flange M 6x18/A2 black
13	00010040067	Spreizniete Kunststoff PA, schwarz
2	0039003913A2	Collar screw Torx 3.9x13, A2 , black
2	0029003.9/16X11	Speed nut, 3.9/16x11, yellow galvanized
3	000590502111	Cable tie with plastic tongue, 2.5x100mm, black
4	000590963531-1	Tyco single cable seal blind white, 1.5mm
2	000590282081-1	Tyco single cable seal blind red, 1.5mm
0,1	00090125,4/12,702	Shrink tubing 24.0/8.0 with inner adhesive
2	001900M06X16933	Hexagon socket screw M 6x16, galvanized
2	008903176	Hexagon nut M6
2	001900M06X20	Washer DIN 522, 6.4x20x1.25mm, galvanized
2	001900M6X20	Spacer sleeve 6-ct. M6 x 20
2	001900M06W379006	Nut with wave washer, M6, galvanized A2K
2	00092110108455	Rubber-metal buffer version D, M6x25/13.5
8	0019005150060606	Washer, M 6, black

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.

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.

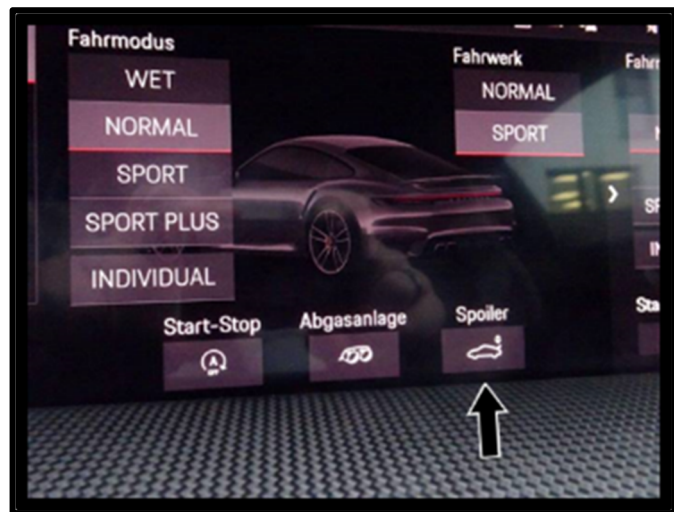


Fig. 03

- 4 Remove the screws below the rear spoiler and remove it.



Fig. 04

- 5 Open the engine service flap using the switch in the front entrance.
- 6 Unscrew the oil cover.
- 7 Remove the engine cover over the scavenging blower. Dismantle the scavenging blower.
- 8 Reattach the oil cover.
- 9 Disconnect the electrical plug connections of the rear spoiler support plate and the center brake light.
- 10 Unscrew the 3 screws in the front area of the original base body.

- 11 Pull the main body backwards out of the anchorage and remove upwards.
- 12 Remove the center brake light including wiring harness from the original body.



The original base body is no longer required.

- 13 Unscrew the light strip, pull it out and disconnect the two electrical connections.
- 14 Unscrew the screws from the top of the rear apron.
- 15 Unscrew four screws from the carrier plate.
- 16 Remove the carrier plate from the vehicle and disconnect the electrical connections.

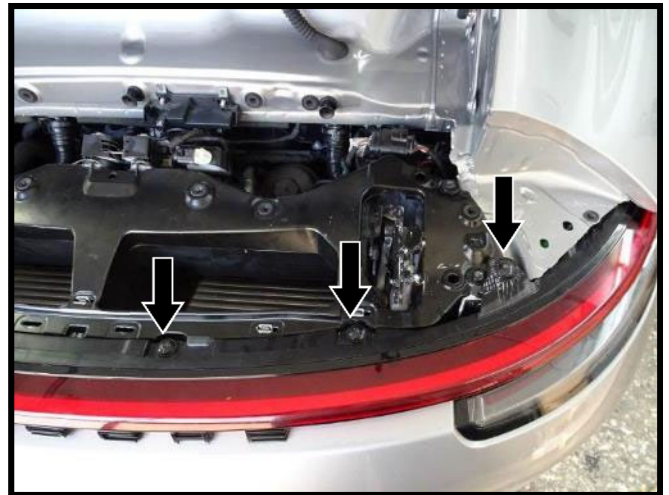


Fig. 05

- 17 Disconnect the cable tie from the electric motor.
- 18 Unscrew the heat sink from the motor housing.
- 19 Pull off the rubber cap and remove the motor plug.

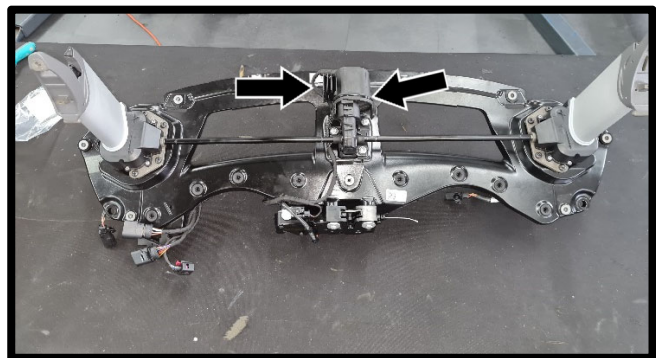


Fig. 06

- 20 Disconnect the plug connections on the left and right of the spoiler support from the underside.



Fig. 07

- 21 Remove the screw on the Hall sensor of the right-hand support and pull it downwards.
- 22 Secure the Hall sensor with a cable tie.
- 23 Unscrew and remove the spoiler supports and the engine from the carrier plate.
- 24 Screw the carrier plate, rear lights and the light strip without the plastic holders to the vehicle using the original screws.



Fig. 08

i Original drive unit with drive motor is no longer required.

4 Install TECHART rear spoiler III

- 1 Unpin the original 2-pin and 4-pin plugs and seal them watertight with the supplied sealing plugs (white / red).
- 2 Seal the cable from the electric motor watertight using the heat-shrink tubing supplied. Press the ends together by hand. Caution: Use gloves - risk of burns!



Fig. 09

- 3 Secure the cable with cable ties.

- 4 Insert the hexagon bolt M6x16 with washer 6.4x20 from below into the outer hole of the body. Place washer 6.4x20 from the upper side and screw tight with nut and corrugated washer. Press the screw inwards. Then screw on the M6x20 threaded sleeve and tighten. Screw the M6 nut with rubber metal buffer completely onto the threaded sleeve, but do not tighten it yet.



Fig. 10

- 5 Remove the two central screws above the light strip and fit the TECHART adapter 092.100.812.210 there using the original screws. 2 Fit the sheet metal nut 3.9 on the TECHART adapter.
- 6 Screw the TECHART cover 092.100.821.220 to the carrier plate using the M6x18 A2 black screws. Secure the screws with Loctite.

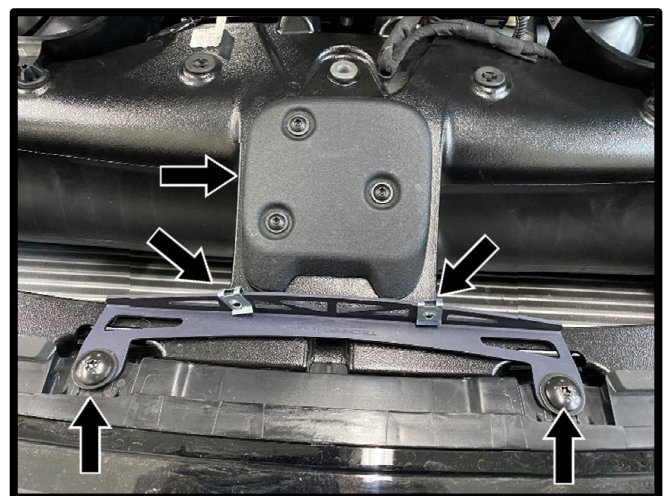


Fig. 11

- 7 Screw TECHART supports 1 and 2 092.100.821.1_0 with the M5x20 screws from below, secure with Loctite once for the right side and once for the left side.
- 8 Pre-assemble the TECHART bracket left and right, top and front 092.100.820.12_ with the supplied screws M5x16, washers 5x15 and M5 hexagon nut, self-locking. Do not tighten them yet!

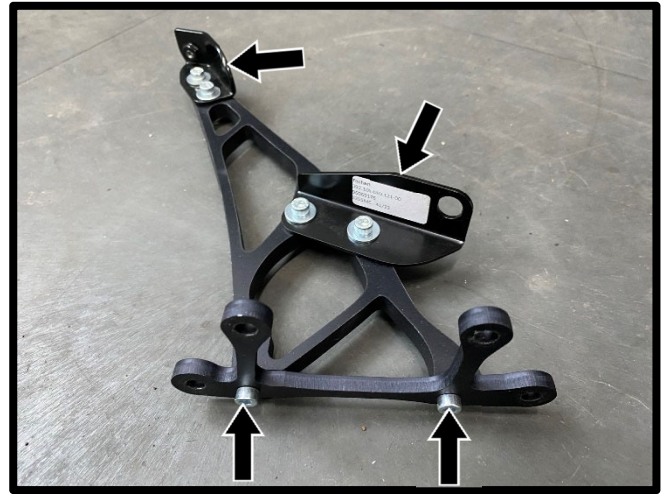


Fig. 12

- 9 Fit TECHART supports 1 and 2 to the support plate using the original screws, secure with Loctite!
- 10 Dismantle the lateral height adjustment and underlay with the black washers supplied. Use 2 washers per screw. Push the bracket all the way up and do not tighten it completely.

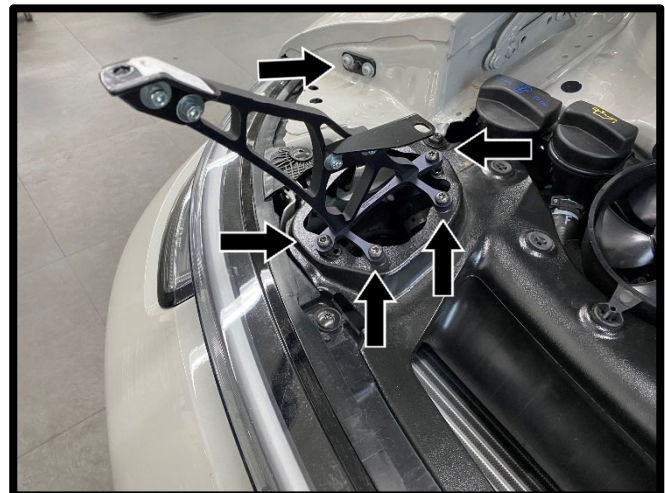


Fig. 13

- 11 Place the TECHART base body on the TECHART supports and make sure that the base body is pushed into the side pins.
- 12 Screw the TECHART base body with the M5x16 screws and the 5x15 washers to the TECHART bracket on the left and right, top and front.

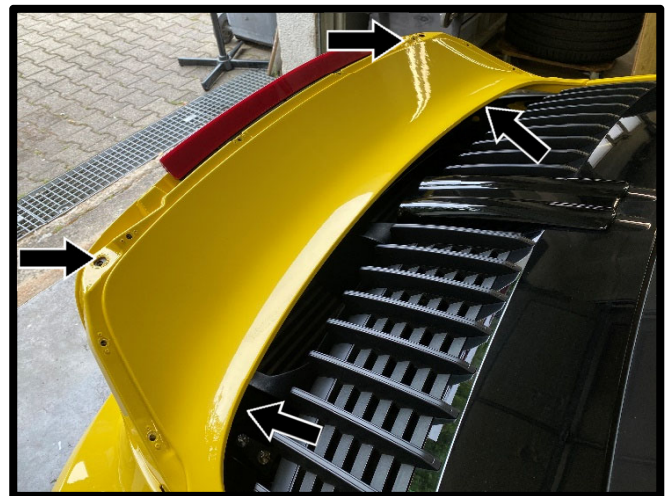


Fig. 14

- 13 Align the gap dimensions using the adjustment plates on the brackets so that it matches the bodywork; the pins on the vehicle can also be adjusted. Then turn up the bump stops from the inside and fit them with a slight preload. Check the gap dimensions again.
- 14 Once the base body is aligned, all screws on the TECHART brackets on the left and right, top and front must be tightened.
- 15 Unscrew and remove the TECHART base body again.
- 16 Secure the bump stop against twisting with an M6 nut. Unscrew the original height adjustment screw on the left and right and secure with Loctite. Be careful not to adjust the holder! Then secure the other screw with Loctite as well and tighten it securely.
- 17 Fix the TECHART grille air outlet 092.100.821.310 in the TECHART housing air outlet 092.100.821.300 all around with adhesive dots in the non-visible area.
- 18 Glue the TECHART air outlet with grille into the painted TECHART base body so that the openings are aligned.
- 19 Install the original centered brake light with cable in the TECHART base body 091.121.812.100.
- 20 Place the TECHART base body back on the vehicle and align it. Apply threadlocker to the screws of the brackets on the support and on the side brackets and tighten with 6 Nm. Caution: The washer at the top will deform. Retighten several times if necessary!



Fig. 15

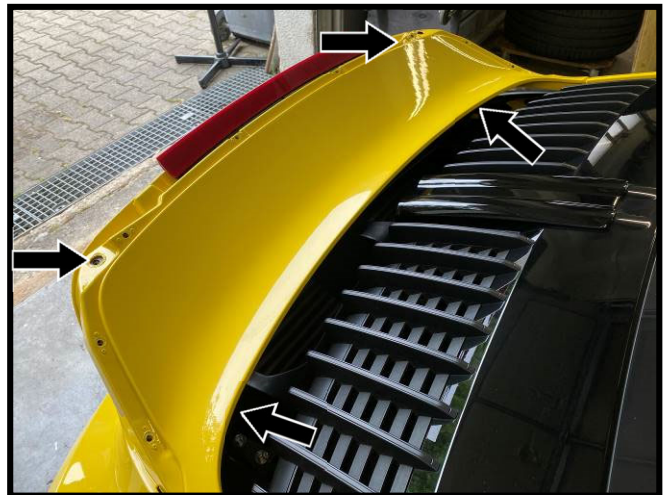


Fig. 16

- 21 Reconnect the brake light electrically and secure the cable to the right-hand TECHART support with cable ties.

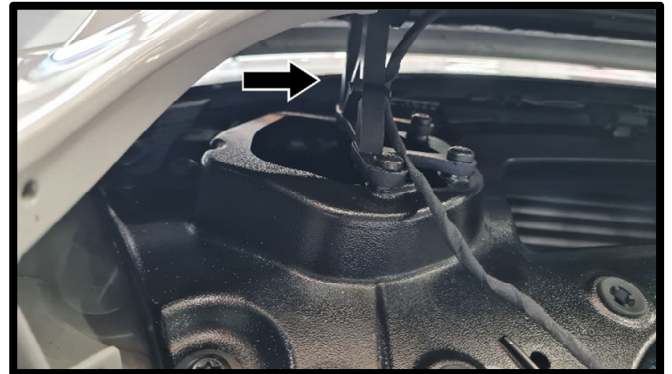


Fig. 17

- 22 TECHART air duct 092.100.821.200 is attached to the base body from the center outwards using the expanding rivets. It is recommended to place a cloth or similar over the openings in the engine compartment to prevent the mounting parts from falling in.
- 23 Screw the TECHART air duct to the TECHART adapter using a 4.8x16 black screw.
- 24 Mount the TECHART spoiler lip 092.121.821.200 _ with the M5x16A2 black screws and the rubber washers on the TECHART base body.

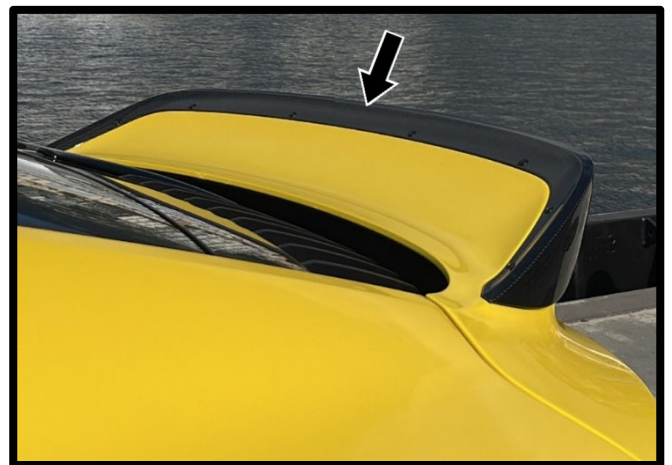


Fig. 18



When fitting the spoiler lip, make sure that the screws are only tightened so firmly that the rubber washers are slightly compressed.

5 Rear spoiler control

Coupé

- 1 Fold down rear seats.
- 2 Remove the rear linings in the inside.

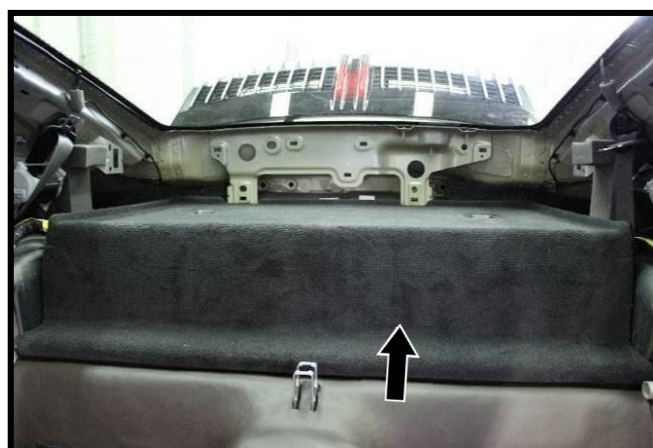


Fig. 19

Cabriolet

- 3 First bring the convertible top into the service position. Then unhook the steel cables of the locking mechanism for the windshield.
- 4 To dismantle the lining use a wedge to lift the lid.



Fig. 20

- 5 Unscrew the screws and dismantle the lining.



Fig. 21

- 6 Unhinge the carpet.



Fig. 22

- 7 Fold both backseats and remove the panel on the rear.

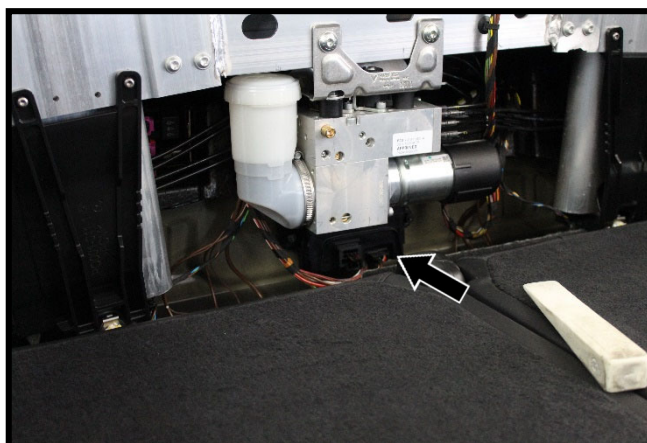


Fig. 23

All:

- 8 Disconnect the 16-pin connector from the rear spoiler control unit.
- 9 Open the connector.
- 10 Unpin pin 8 red / white and pin it into the supplied connector so that the red and red/white cables connect when plugged together.
Do not plug in again.

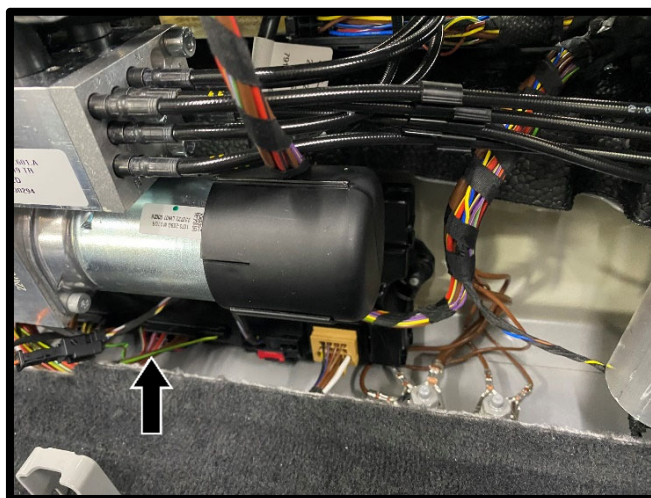


Fig. 24

- 11 Pin the red / white cable into the TECHART connector gray 3-way pin 2.
- 12 Pin brown cable 2mm into the TECHART connector gray 3-fold pin 1.
- 13 Pin 3 remains empty.

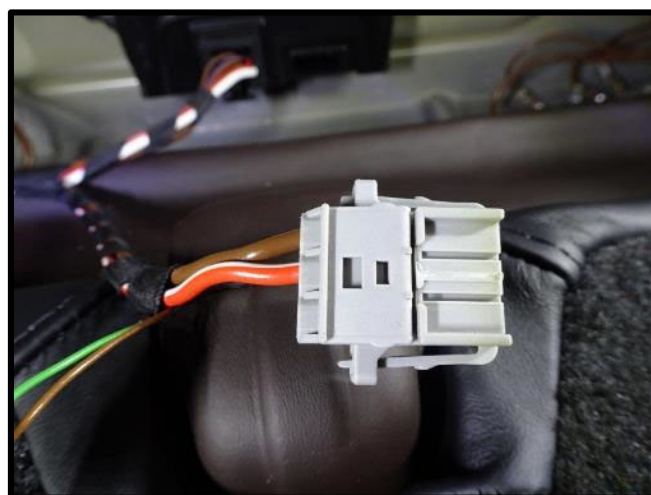


Fig. 25

- 14 Attach the ground cable to the body using the ring eyelet.

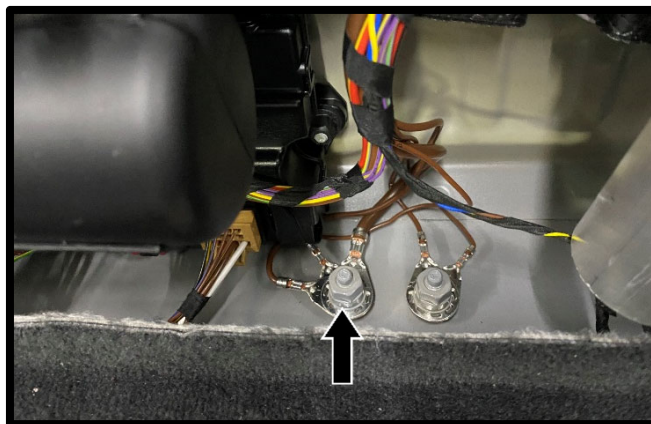


Fig. 26

- 15 Disconnect the 12-pin connector from the rear spoiler control unit.
- 16 Compare the assignment of the 12-pin connector of the TECHART wiring harness with the original connector. 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.

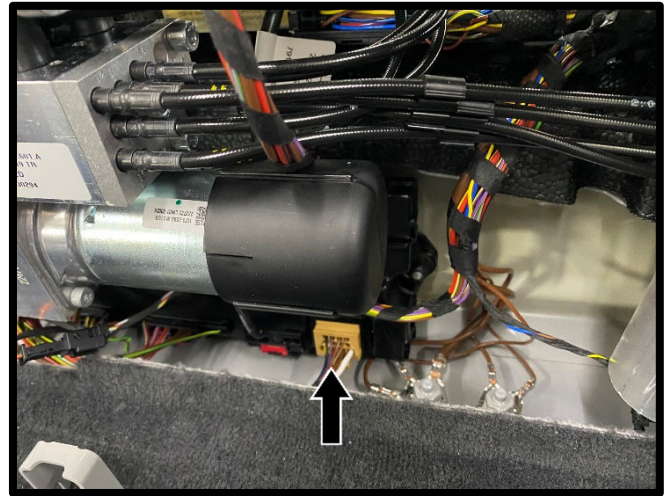


Fig. 27

- 17 Connect the TECHART wiring harness to the TECHART control unit. Now plug the large 12-pin connector into the original control unit. Only **NOW** plug the 16-pin connector into the original control unit.
- 18 Stick the TECHART control unit with the hook and loop tape next to the control unit rear spoiler.
- 19 Stick the TECHART plugs near the control unit rear spoiler.
- 20 Fold the carpet of the parcel shelf down.
- 21 Fold the rear seats back.
- 22 Read out the fault memory and rectify any faults displayed.



Fig. 28



Ignore the errors at the PIWIS “Aerodynamic control unit”.

6 Final check

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

TECHART

TECHART AUTOMOBILDESIGN GMBH

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

Subject to change at any time without prior notice.
Copyright 2024 by **TECHART** Automobildesign GmbH