ASSEMBLY INSTRUCTIONS
TECHART Rear spoiler II for 718 Cayman

Part-no. 082.100.813.009

Version 01 – 06/2017

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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.

⚠ WARNING

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

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.

⚠ WARNING

Risk of injury from electric current.

Switch off the ignition and disconnect the battery when working on the vehicle electrical/electronics systems.

⚠ WARNING

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.

CAUTION

Risk of injury from hands and arms being crushed, cut or lacerated when working with sharp-edged and bulky objects.

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.

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

Check TECHART parts kit for completeness

1	**082.100.811.009**	**Rear spoiler II**
Consisting of:		
1	082.100.811.100FS	Base frame
1	081.100.811.202FS	Insert sheet mounting plate right
1	081.100.811.203FS	Insert sheet mounting plate left
1	081.100.811.210	Base sheet plate right
1	081.100.811.211	Base sheet plate left
1	081.100.811.220	Base sheet PU right
1	081.100.811.221	Base sheet PU left
2	081.100.811.212FS	Polystyrene sheet
6	001900M5X16A27380	Fillister head screw, M 5x16, stainless steel A2
6	001900M8X307380A2	Fillister head screw with flange M 8x30 / A2
4	001900M06X12912	Hexagon head screw, M 6x12, galvanized
1	00059056118	Dummy plug, electro 8mm
2	001900M05	Speed nut, M5
2	001900M05X10912	Hexagon socket head screw, M 5x10, galvanized
2	001900M05X15	Washer, M 5x15, galvanized
2	048100150615	Bracket turn-signal accessories bag Magnum/Widebody
2	001900M06X40933	Hexagon screw, M 6x40, galvanized
4	001900M06X35X1,5	Washer DIN 522, 6.4x35x1.5mm, A2
4	001900M05986G	Self-locking nut, M5, yellow galvanized
1	081.100.801.500	Bracket magnet
1	081.100.801.503	Feeder
1	001900M06X167380	Hexagon head screw, M 6x16, flange, black galvanized
2	081.100.811.300	Damper
4	081.100.811.301	Ball head M6 - Plastic
0.4	000961894910-05	Double-sided adhesive tape 6mm
1	00091089010031	Bond and Seal black, tube 70ml
1	081.100.811.500	Drilling template
1	081.140.811.009	Foil black, rear spoiler II
1	081.140.812.009	Foil transparent, rear spoiler II
1	000100850150	Catch-rope for rear spoiler
1	001900M6X167380	Fillister head screw with flange M 6x16
1	001900M05986	Hexagon nut self-locking M6
1	000900M835912	Polyamide screw M8 x 35 DIN 912 black
1	081.100.811.204SWFS	Mounting plate right black
1	081.100.811.205SWFS	Mounting plate left black

Part set options

1	**+81.100.811.001**	**V01: Rear spoiler supports painted in custom color**
Consisting of:		
1		Mounting plate right in custom color
1		Mounting plate left in custom color

or

1	**+81.100.811.000**	**V01: Rear spoiler supports aluminum black**
Consisting of:		
1	081.100.811.204SW	Mounting plate right black
1	081.100.811.205SW	Mounting plate left black

1	**+91.100.810.200**	**V02: Profile paintable**
Consisting of:		
1	091.100.810.200	Rear spoiler II, wing profile

or

1	**+91.121.810.200**	**V02: Profile in carbon graphite matt**
Consisting of:		
1	091.121.810.200	Rear spoiler II, wing profile

or

1	**+91.121.810.200G**	**V02: Profile in carbon graphite glossy**
Consisting of:		
1	091.121.810.200G	Rear spoiler II, wing profile

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

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.

1 TECHART rear spoiler II for 718 Cayman

1.1 Modify original rear spoiler

1 Open tailgate.

2 Remove the stopper for the fitting of the taillight.

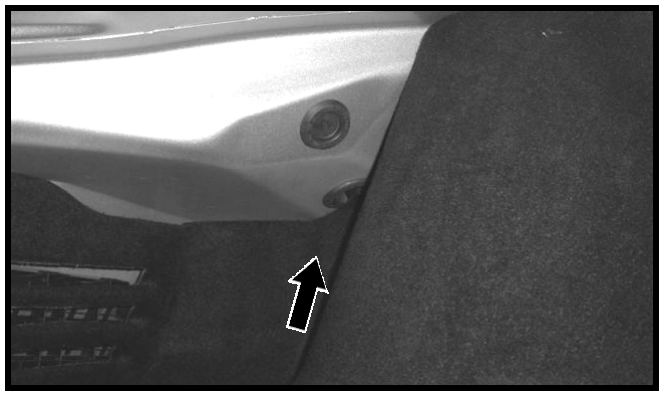

Fig. 01

3 Loosen the screw of the taillight.

4 Pull out the taillight towards the rear, disconnect the electrical connection.

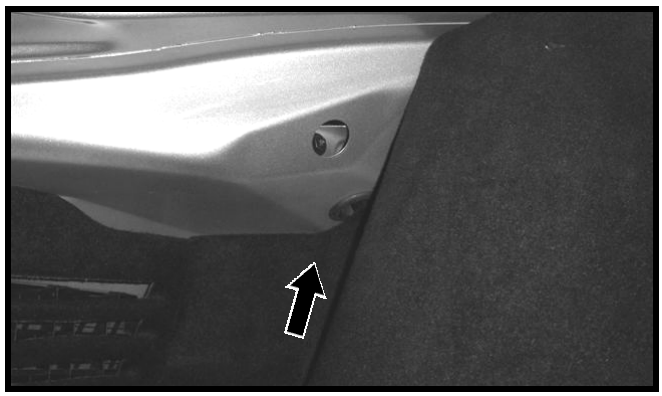

Fig. 02

5 Switch the ignition on.

6 Extend the rear spoiler (switch center console).

7 Loosen the screws of the rear spoiler top part and remove it.

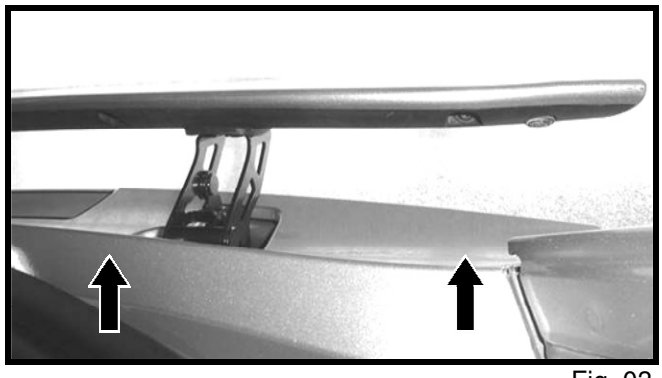

Fig. 03

8 Dismantle the rear spoiler lower part.

9 Retract the rear spoiler (switch center console).

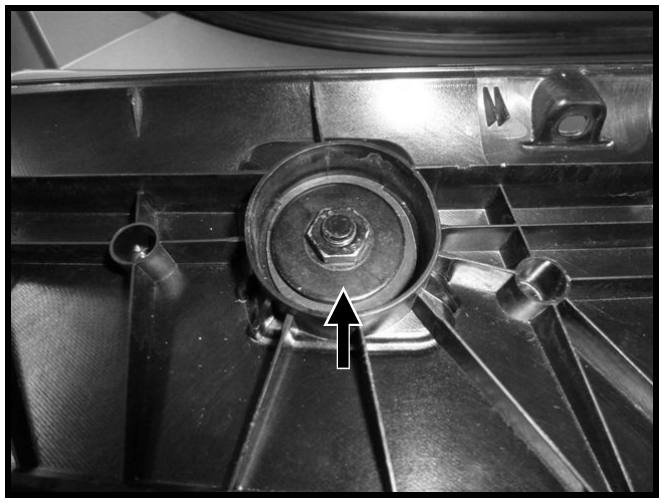

Fig. 04

Dismantle the rear apron. For that loosen the following screws.
See arrows fig. 05 to 09.

10 Rear apron on the top.

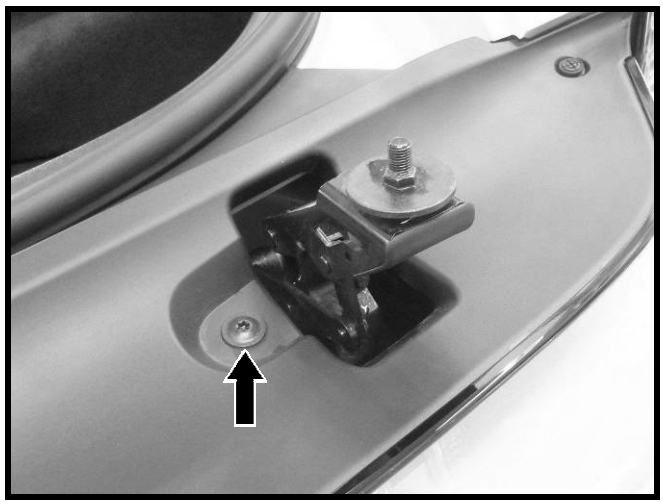

Fig. 05

11 Below the taillight.

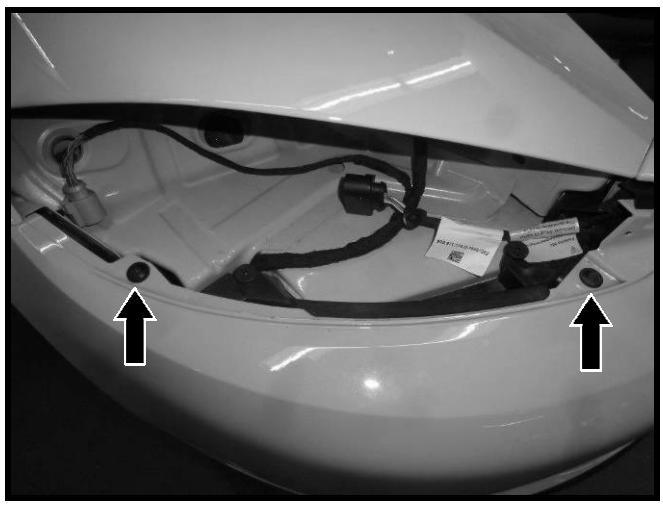

Fig. 06

12 Rear apron at the wheel house.

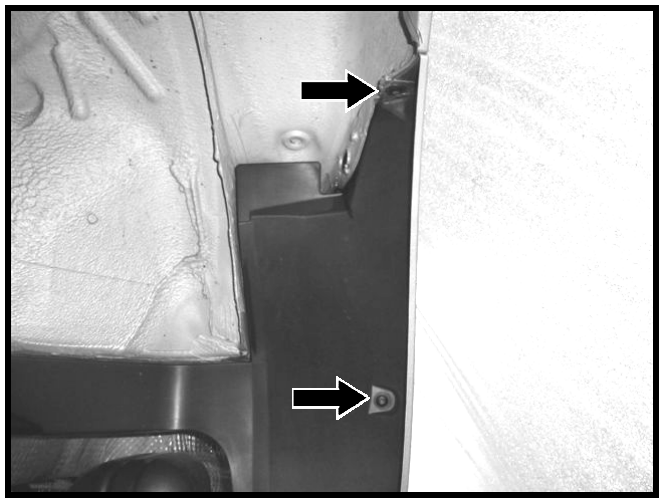

Fig. 07

13 Rear apron bottom side.

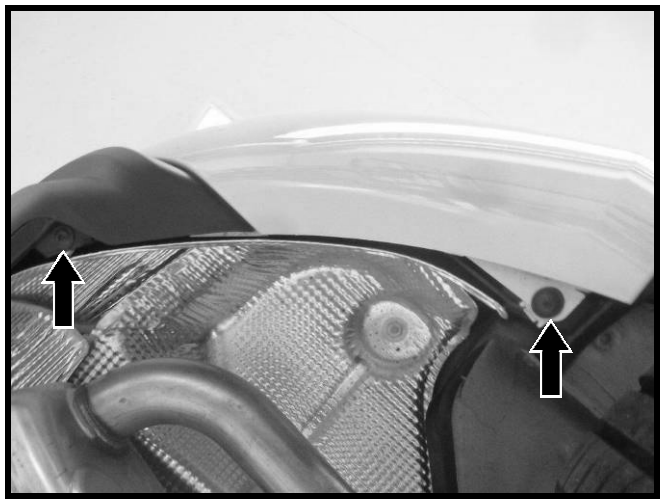

Fig. 08

14 Rear apron bottom center.

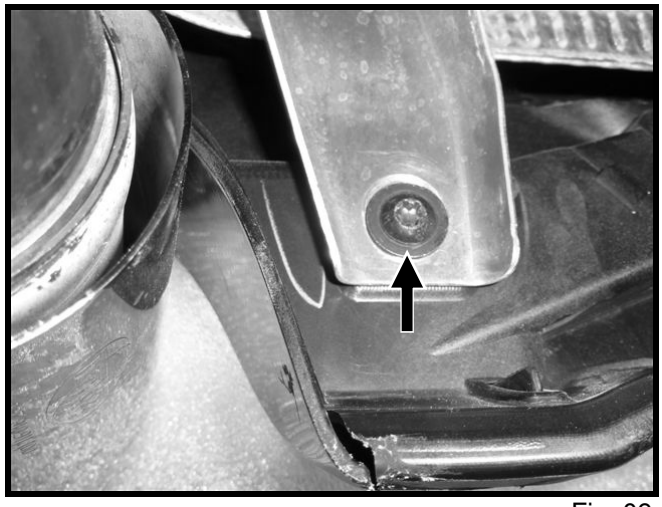

Fig. 09

15 Remove rear apron, disconnect the electrical connection.

16 Disconnect the electrical connection of the rear spoiler drive.

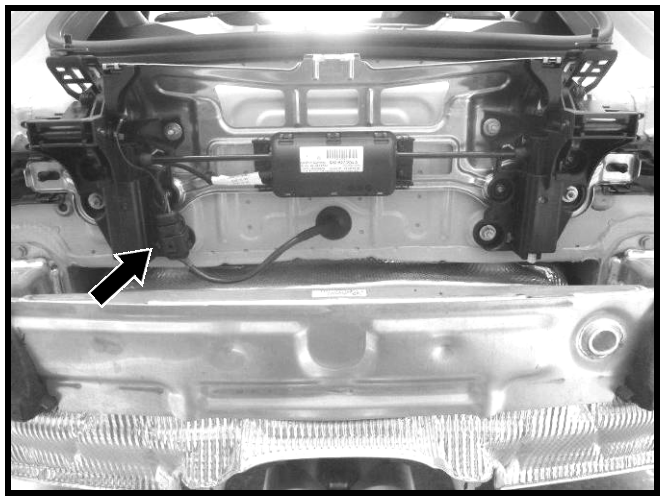

Fig. 10

17 Dismantle the rear spoiler drive incl. retaining plate.

18 Remove the speed nut of the retaining plate / rear spoiler drive.

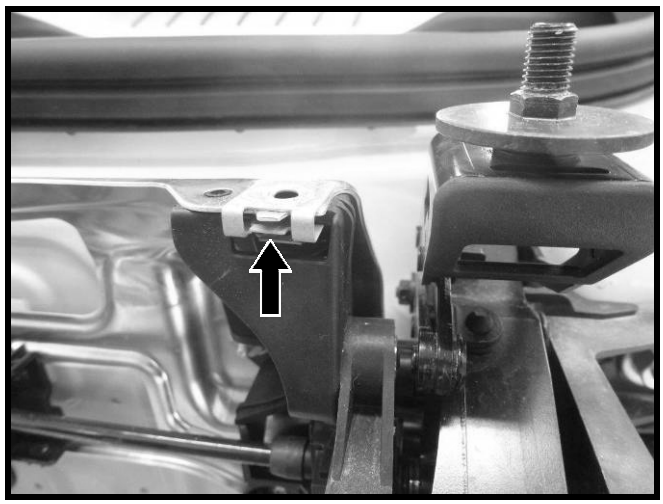

Fig. 11

19 Dismantle the rear spoiler drive on the right of the retaining plate (see arrows) and remove it incl. the drive shaft.

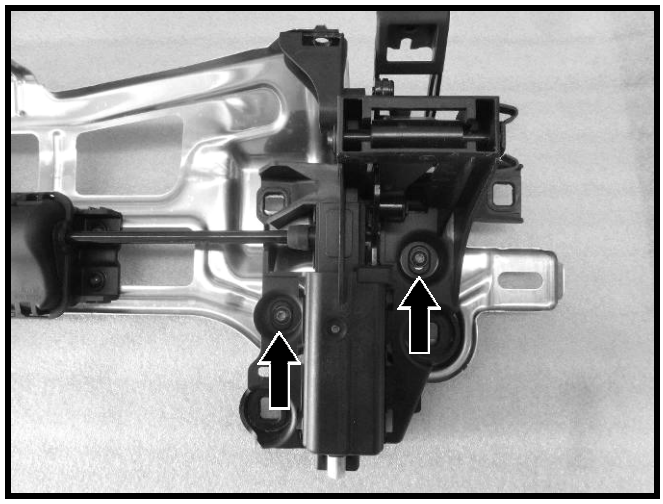

Fig. 12

The rear spoiler drive incl. the right drive shaft is no longer needed.

20 Insert the dummy plug Ø 8mm 00059056118 (1) into the drive motor (5) to close the hole of the drive shaft.

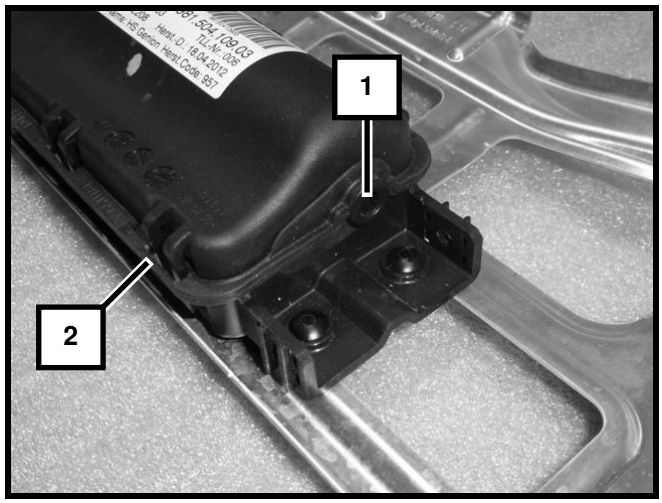

Fig. 12

21 Loosen the drive unit left (3) from the retaining plate (4), the drive shaft (5) will remain in the drive motor (2).

22 Unclip the clip the sensor (6) and remove it.

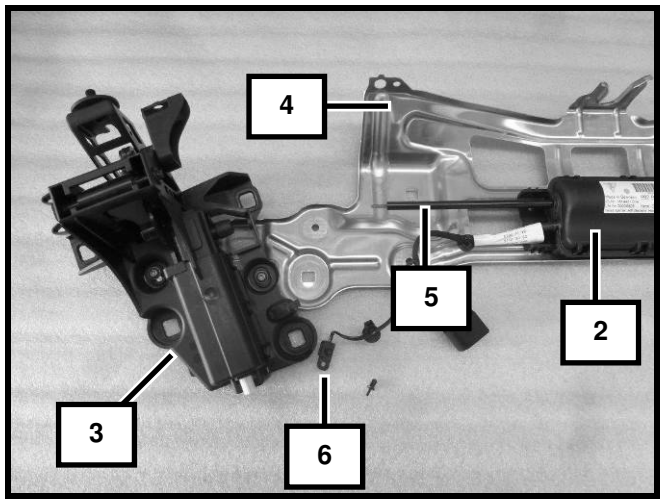

Fig. 14

23 Unclip the cover (7) of the drive unit left (3) and remove it.

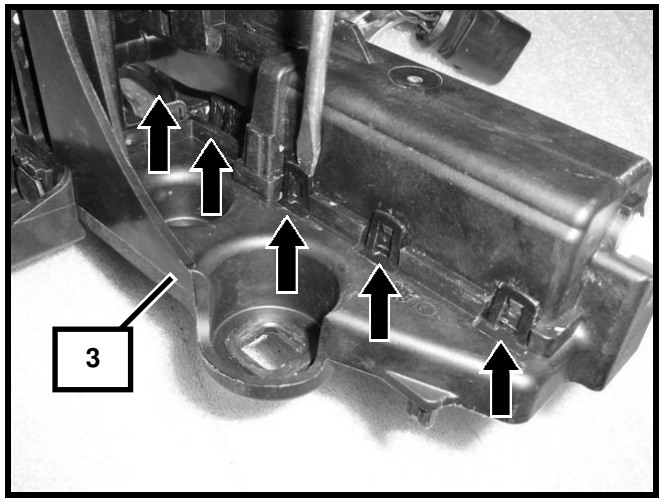

Fig. 15

24 Take the plastic shaft (8) from the drive unit (3) and unhinge the deflection (9).

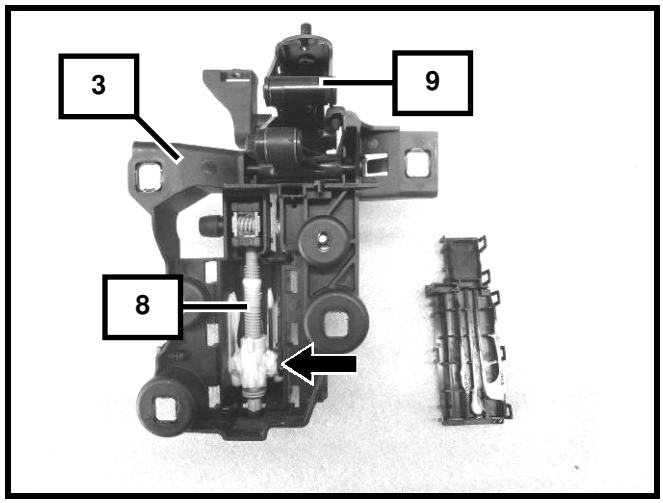

Fig. 16

25 Unclip and remove the retaining bolts (10) from the drive unit (3).

26 Remove the deflection (9) from the drive unit (3).

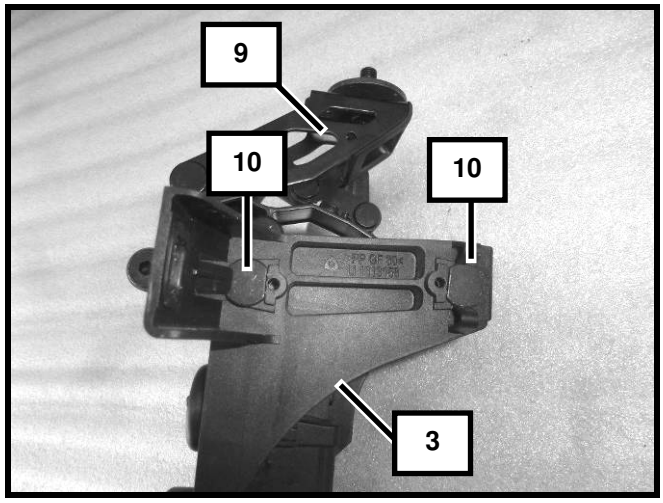

Fig. 17

Drive unit (3)

Plastic shaft (8)

Deflection (9)

Retaining bolts (10)

Cover of the drive unit (7)

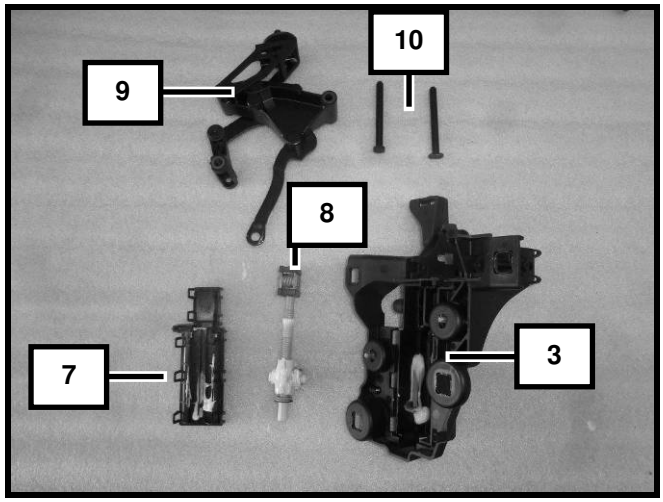

Fig. 18

27 Unclip the feeding clip (11) from the deflection (11).

28 Clip the feeding clip into the TECHART feeder 082.100.801.503 (12) with TECHART bracket 081.100.801.501-01 (13).

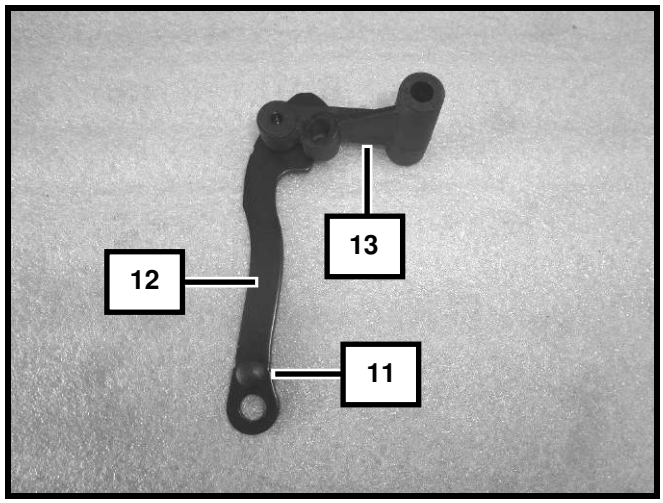

Fig. 18

The left deflection is no longer required.

29 Insert the TECHART feeder (12) into the drive unit (3).

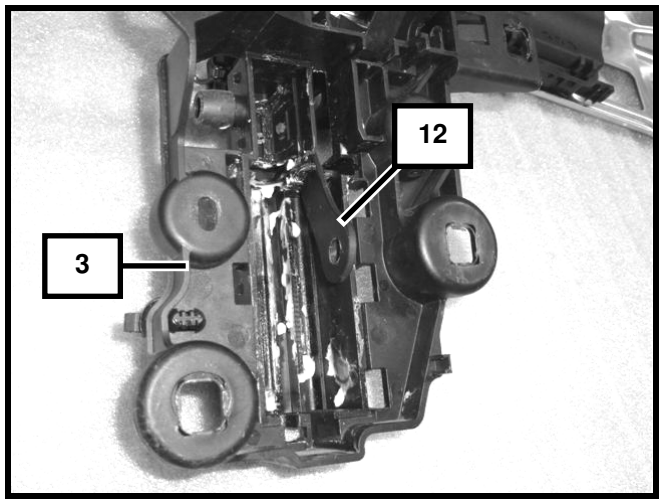

Fig. 20

30 Insert the plastic shaft (9) into the drive unit (7) and hook the TECHART feeder (13) into it.

31 Press the plastic shaft (9) all the way into the drive unit (7).

32 Attach the cover of the drive unit (12) to the drive unit (7) and snap into place.

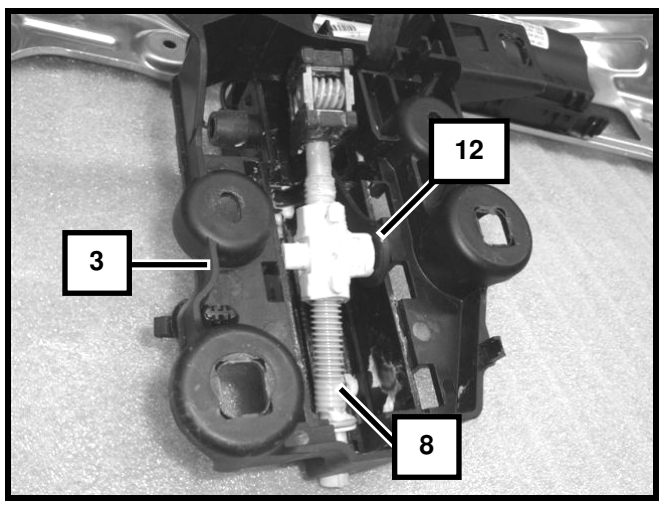

Fig. 21

33 Insert the drive shaft (5) into the drive unit (3).

34 Tighten the drive unit (3) and the retaining plate (4) with the original screws.

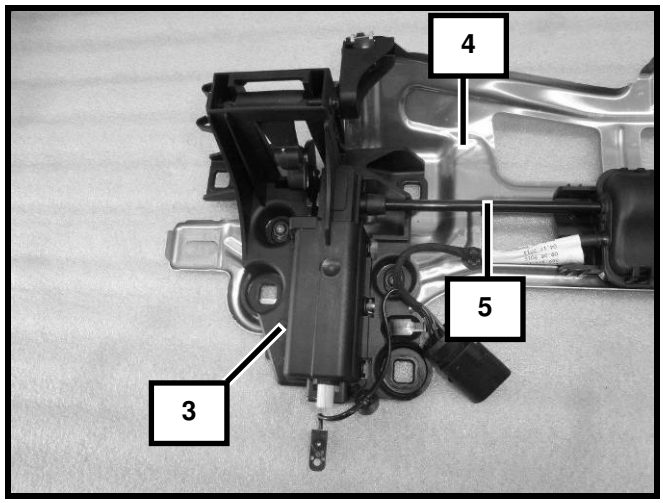

Fig. 22

35 Mount the drive unit (3) incl. the retaining plate (4) with the original screws to the vehicle.

36 Connect the electrical connection of the rear spoiler drive.

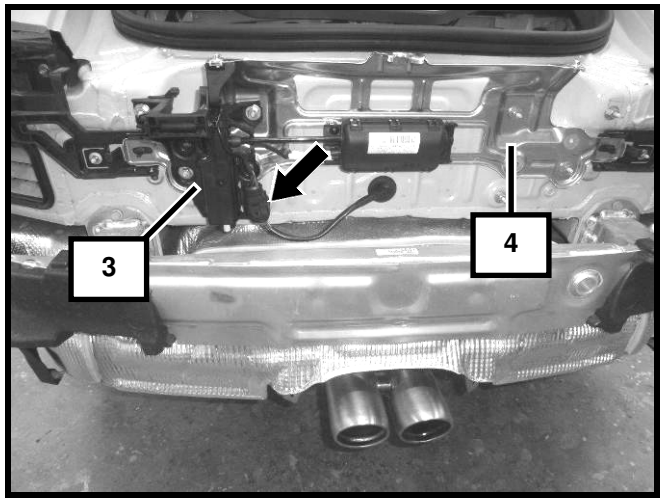

Fig. 23

37 Slide the TECHART Bracket (13) into the drive unit (11). Insert the retaining bolt (10) all the way to the stop and snap into place.

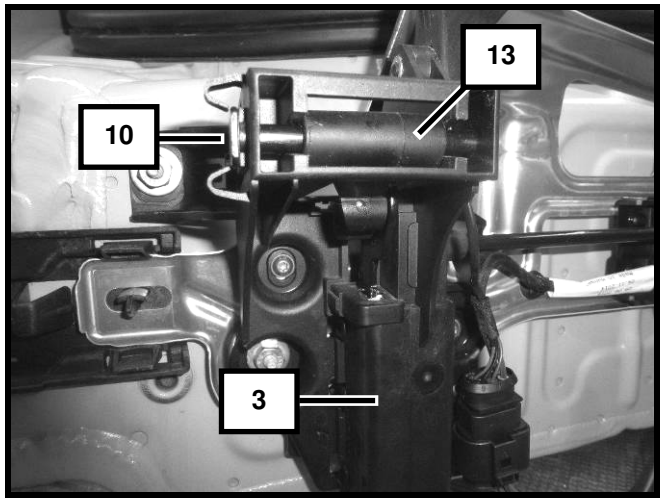

Fig. 24

38 Install the sensor (6) into the drive unit left (3) and secure with the clip.

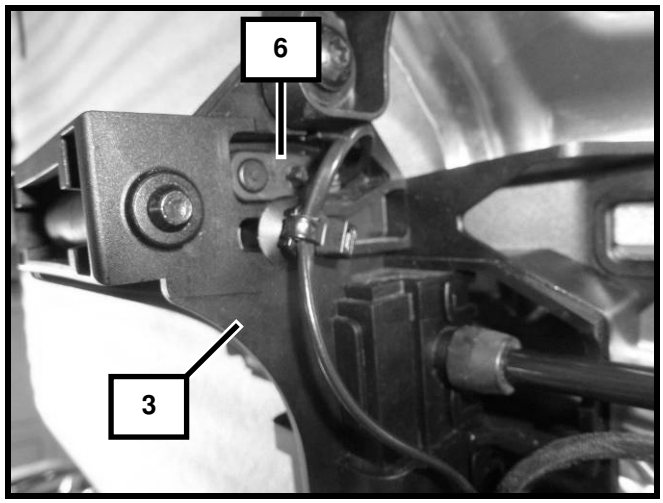

Fig. 25

39 Attach the speed nut M5 to the retaining plate (4) and the drive unit (3).

40 Screw the hexagon socket head screw, M 5x10 with the washer 5x15 into the speed nut and tighten.

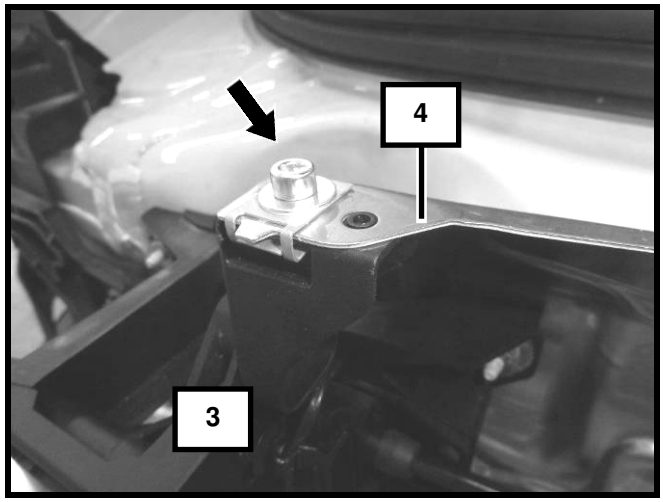

Fig. 26

41 Attach the TECHART bracket screw 082.100.800.400 (14) into the rear spoiler bottom part (15). Arrow points towards driving direction.

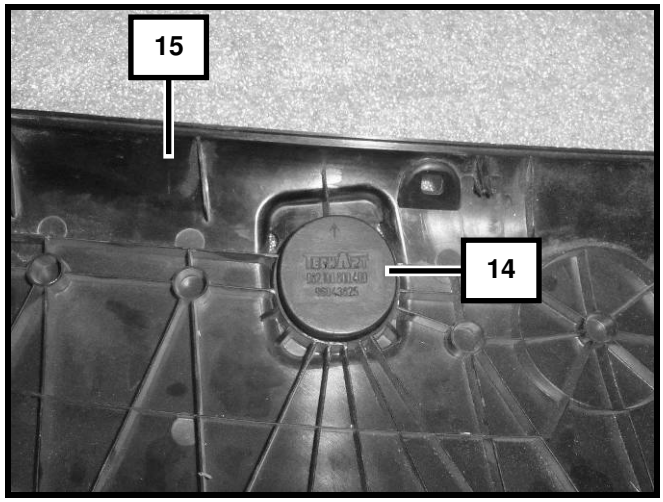

Fig. 27

42 Mount the rear spoiler top part (16) to the rear spoiler bottom part (15) and tighten with the original screws.

43 Attach the TECHART bracket OE spoiler 081.100.801.30_ onto the rear spoiler bottom part (15)

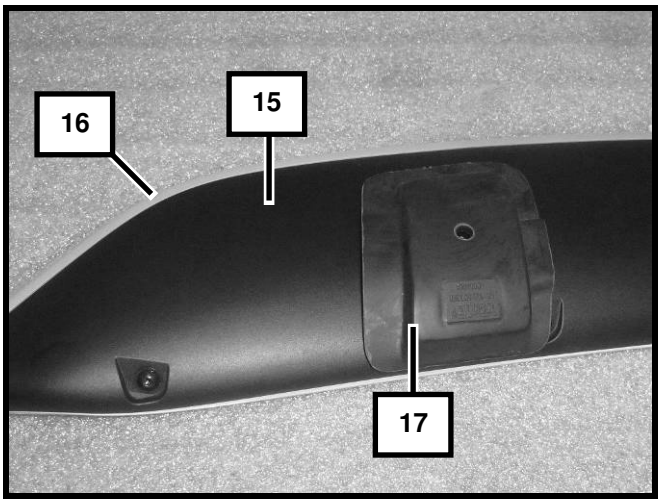

Fig. 28

44 Attach the rear spoiler to the rear apron.

45 Tighten the rear spoiler with the screw M6x25 and the TECHART bracket 048.100.150.615 (18) to the rear apron.

46 Install the rear apron to the vehicle, connect the electrical connections and tighten on the original fixing points.

47 Install taillights.

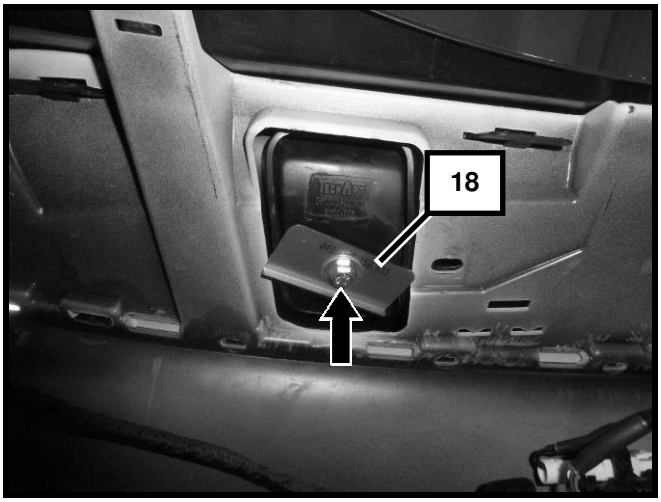

Fig. 29

1.2 Install TECHART rear spoiler II

The bonding surfaces on the TECHART rear spoiler and original tailgate must be dry and free from dust and paint spray mist.

Use cleaning agent to thoroughly degrease bonding surfaces on the TECHART rear spoiler and original tailgate. 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 Open tailgate.

2 Remove both stoppers at the tailgate.

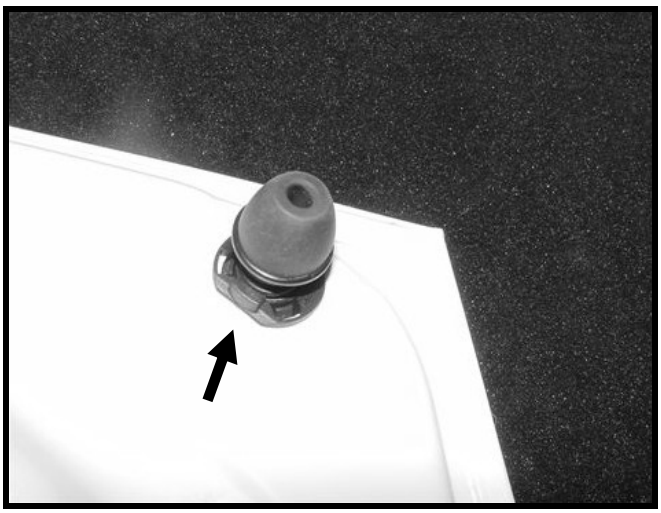

Fig. 29

3 Cut out the TECHART drilling template 081.100.811.500.

4 Align the TECHART drilling template onto the original tailgate.

5 Mark the drilling holes and pre-drill with a bit of Ø = 3mm and then with Ø = 6mm.

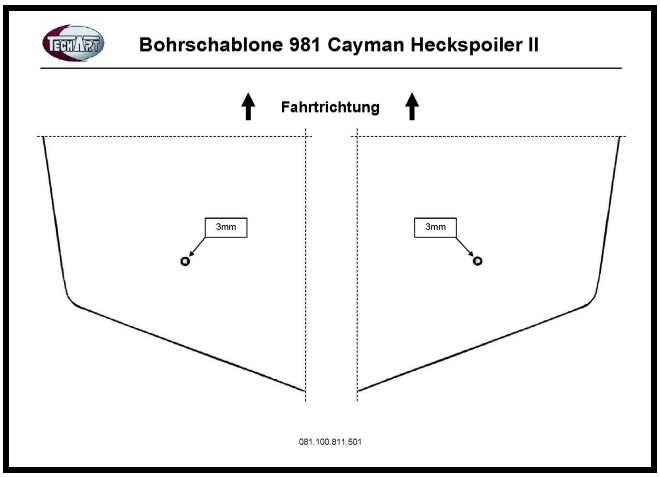

Fig. 30

Protect the drill hole in the metal from corrosion.

6 Stick the TECHART transparent foil 081.140.812.009 to the rear area of the TECHART base frame 082.100.811.100FS (19) (see arrows).

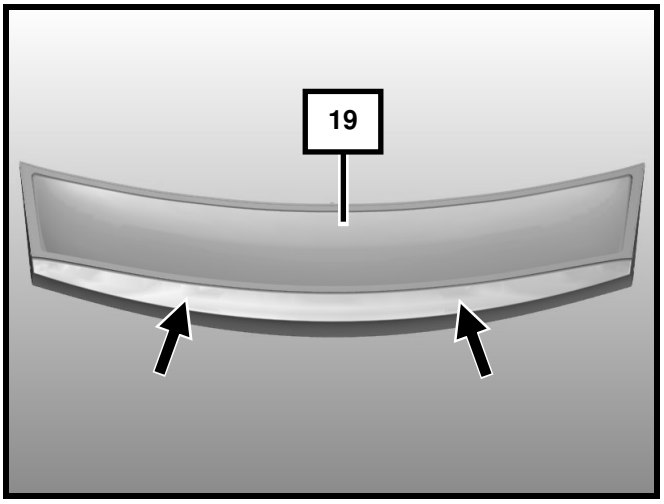

Fig. 31

7 Apply the double-sided adhesive tape to the bottom side of the TECHART mounting sheet 081.100.811.204/205SW (20).

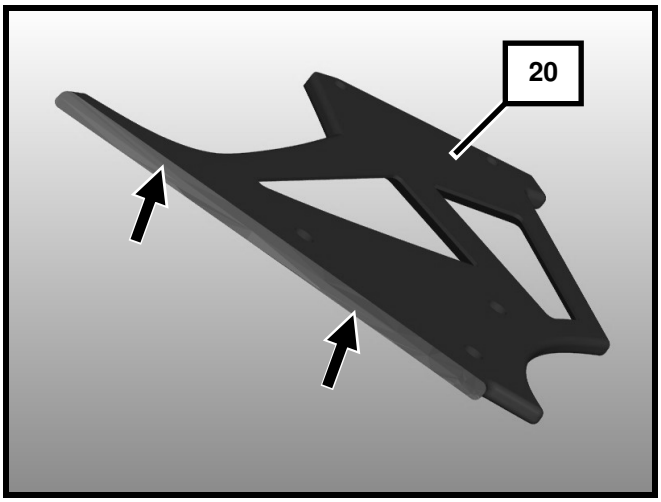

Fig. 32

8 Feed the TECHART catch-rope 000.100.850.150 (21) from the inside through:
- the TECHART mounting plate 081.100.811.202/3 (22),
- the TECHART polystyrene sheet 081.100.811.212 (23) and the TECHART base frame (19).

9 Tighten the TECHART catch-rope (21) with the screw M6x16 and the nut self-locking to the TECHART mounting plate (20).

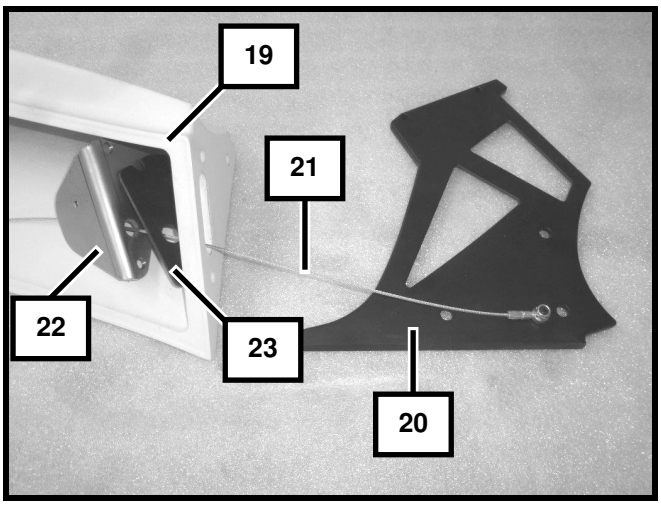

Fig. 33

10 Screw the TECHART mounting plate (20) with the screws M8x35 through the TECHART base frame (19) and the TECHART polystyrene sheet (23) into the TECHART insert sheet (22); do not tighten yet! Fasten the screws AFTER the installation of the TECHART profile!

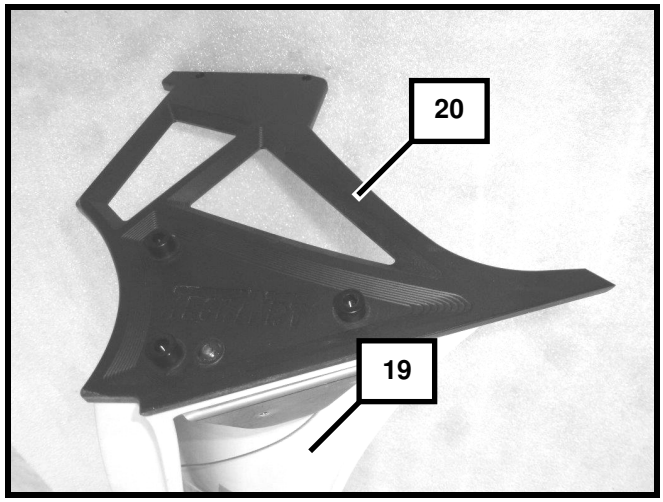

Fig. 33a

11 Apply the PU-glue onto the TECHART base frame (19).

12 Fit the TECHART base frame (19) onto the original tailgate.

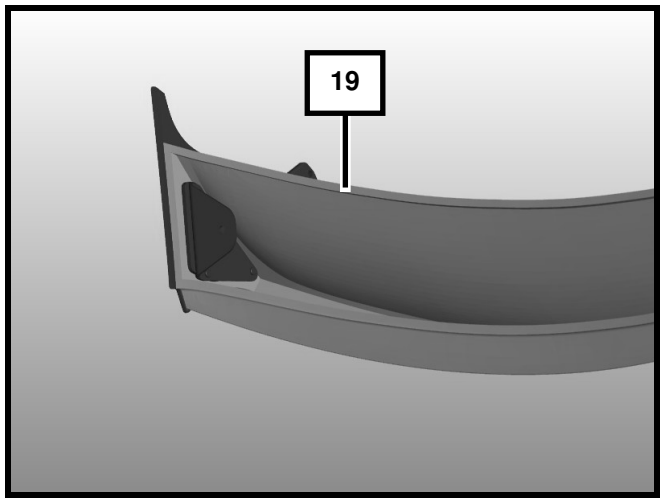

Fig. 34

13 Tighten the TECHART insert sheet (22) with the screw M5x16 through the hole of the stopper at the tailgate.

14 Re-install both stoppers into the tailgate.

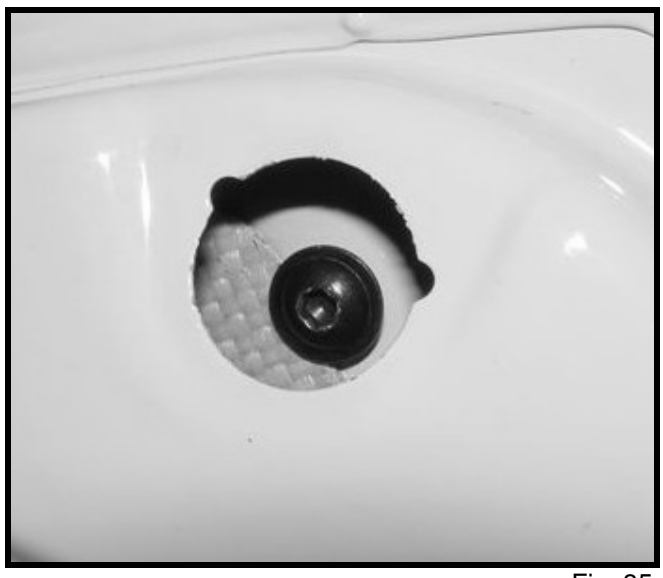

Fig. 35

Press on firmly in areas coated with adhesive. Check for an accurate fit – Immediately remove any PU adhesive that escapes using a cleaning agent.

Allow to dry for at least 12 hours.

For the Cayman GTS only the "A"-setting is permitted.

There are 2 profile settings:

- A = street version
- B = racing version

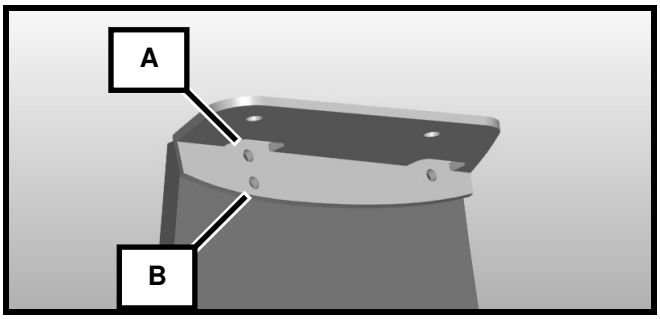

Fig. 36

A = street version

15 Tighten the TECHART base sheet plate right and left 081.100.811.210/211 (24) with the screw M6x12 to the TECHART mounting sheet (20).

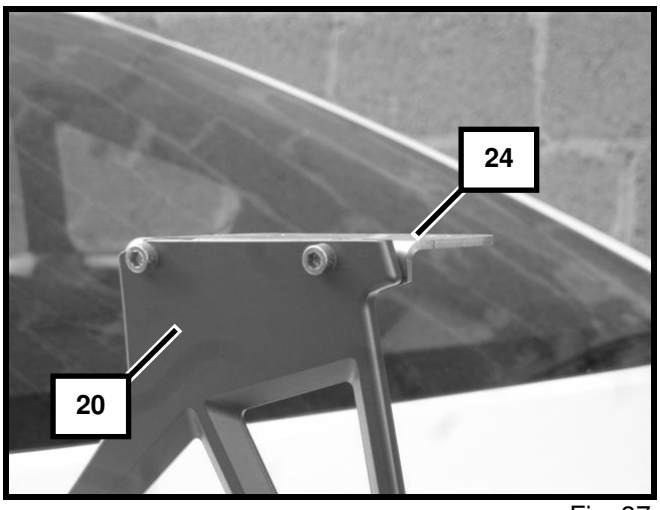

Fig. 37

B = racing Version (not permitted for the GTS)

16 Tighten the TECHART base sheet plate right and left 081.100.811.210/211 (24) with the screw M6x12 to the TECHART mounting sheet (20).

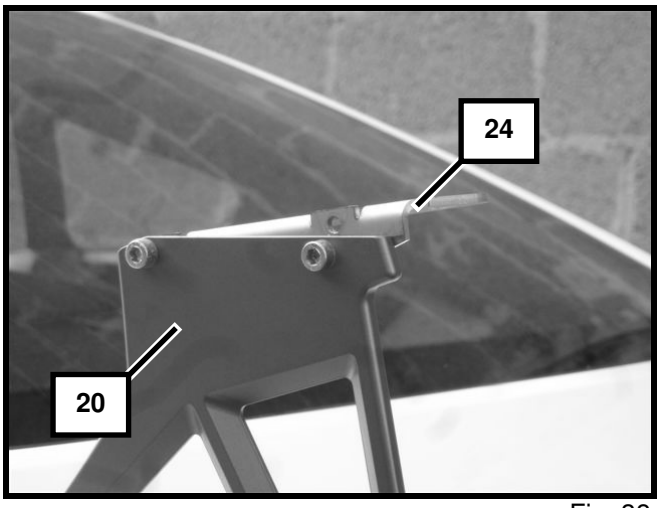

Fig. 38

17 Stick the TECHART black foil 081.140.811.009 in to the recess of the TECHART wing profile 091.1__.810.200 (25).

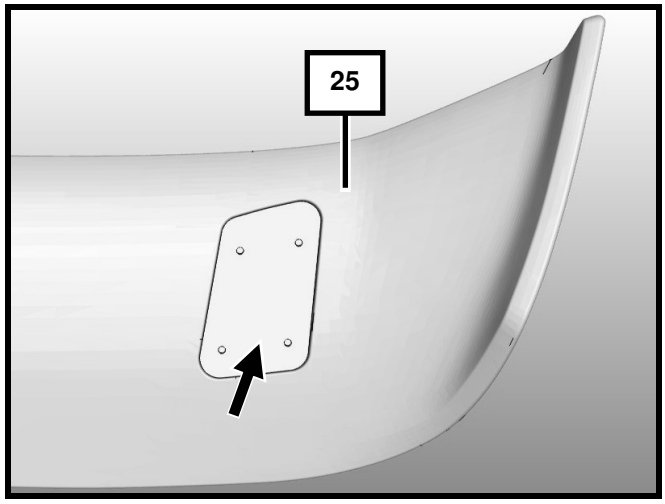

Fig. 39

18 Apply the TECHART wing profile (25) to the TECHART mounting sheet (20) and the TECHART base metal sheet (24).

19 Tighten the TECHART wing profile (25) with the screw M5x16 through the TECHART base sheet PU 081.100.811.220/221 (26) and the TECHART base metal sheet (24).

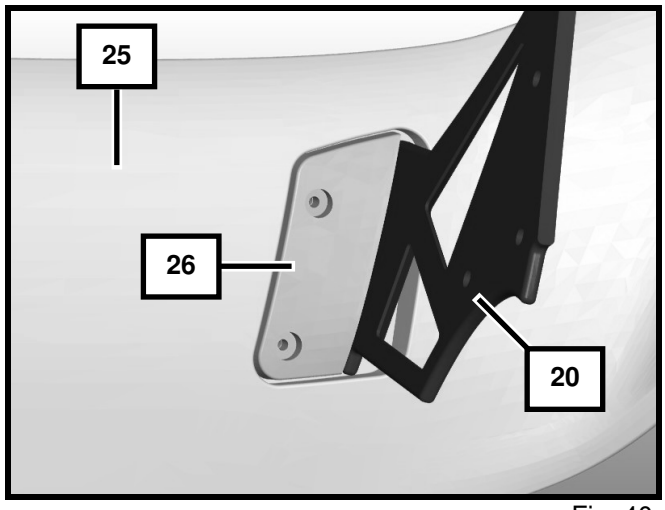

Fig. 40

20 Replace the original tailgate damper by the TECHART damper 081.100.811.400 (27).

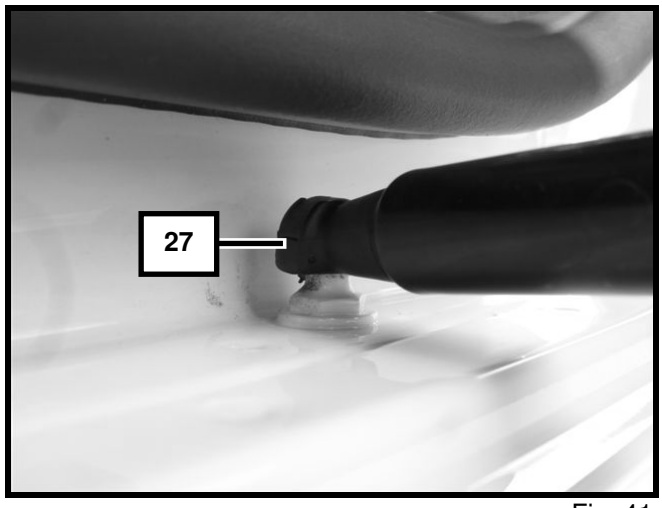

Fig. 41

2 Final inspection

1 Perform a general function test of the vehicle. Check the illumination.

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