Sports Exhaust System - Silver (0P8) / Dark Bronze (0P9)

Information

Please pass all this information on to the customer.

Also give the customer a copy of the first pages of these Installation and Conversion Instructions, including the legal regulations.

Change Overview:

Revision	Date	Modification
0	10/11/2024	▪ Original publication
1	05/08/2025	▪ Update to Model Year
2	09/19/2025	▪ Update to Assembly section

Model Year: **2024**

Vehicle Type: **Cayenne (9YA)** including associated Coupé variant (9YB)

Engine Type: **DCB** (basic engine – T9I / DC5) = 3.0-liter V6 turbo engine

- **DCBF** = Cayenne = 260 kW (353 hp)

Cause: **Retrofitting**

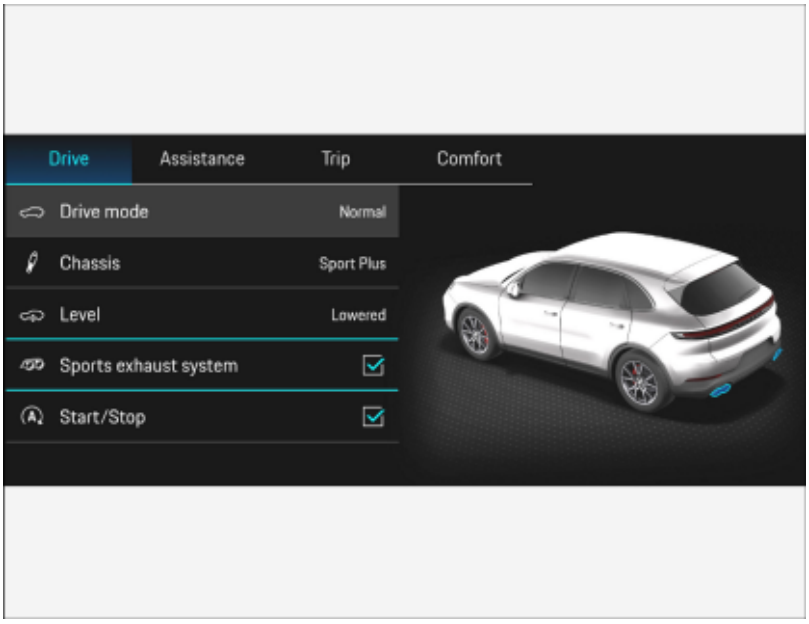

Figure 1

Notes:

In the sports exhaust system, the signal for activating the flaps in the rear silencers (NSD) comes from the respective current map in the DME control unit. The driving status and accelerator pedal position, for example, are decisive factors.

The sports exhaust system can be switched on and off separately using the Porsche Communication Management system (PCM ⇒*Figure 1*). To do this, select the menu “Car”, then “Drive” and then “Exhaust system”.

The sports exhaust system is also active in the “SPORT” or “SPORT PLUS” driving modes.

The engine power and exhaust behavior of the vehicle are not affected.

Under the individual equipment “0P8 - Sport exhaust system (tailpipe in silver)” or “0P9 - Sport exhaust system (tailpipe in dark bronze)”, the sport exhaust system is also available ex works for new vehicles.

Parts Info:

ONLY for vehicles WITHOUT petrol particulate filter (PPF; emissions concept = 0GB / 7CE / 7GH / 7MM):

9Y0.044.232		⇒ Sports exhaust system (0P8) –Tailpipe in silver–, set
9Y0.044.232.A		⇒ Sports exhaust system (0P9) –Tailpipe in dark bronze–, set
N.105.184.05[1]	1 x	⇒ Cheese head bolt with multiple-tooth socket head, self-locking (universal joint for steering gear)

[1] Also order the following **IF** necessary!

ONLY for vehicles WITH PPF (emissions concept = 4WE / 7CR / 7CV):

9Y0.044.232.B	⇒ Sports exhaust system (0P8) –Tailpipe in silver–, set
9Y0.044.232.C	⇒ Sports exhaust system (0P9) –Tailpipe in dark bronze–, set

Parts list:

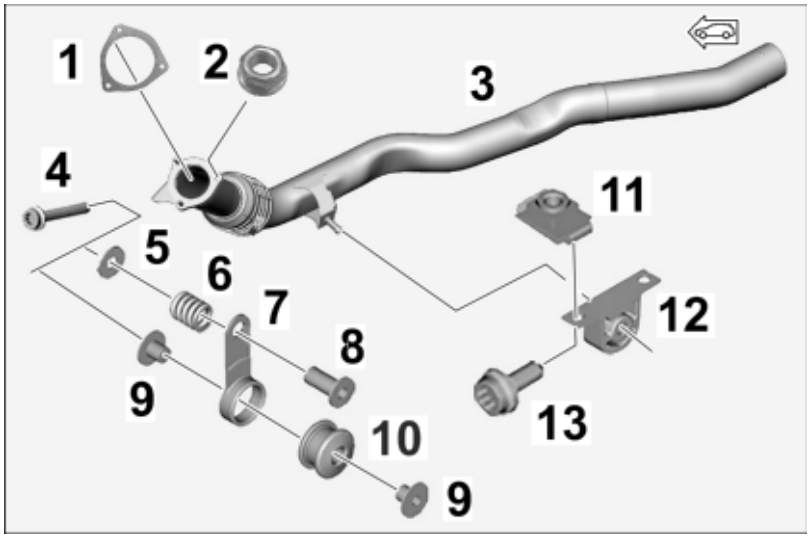

Figure 2

Scope of exhaust system – exhaust pipe area (⇒ *Figure 2* = vehicle WITHOUT PPF):

PAB. 253.115.20	1 x	Seal (exhaust pipe / manifold) ⇒ *Figure 2* **-1-**
PAF.911.308	3 x	Hexagon collar nut, M8, self-locking (flange manifold) ⇒ *Figure 2* **-2-**
9Y0.253.301.H	1 x	Exhaust pipe (–PPF) assembly (ASSY) ⇒ *Figure 2* **-3-**
N.106.720.01	2 x	Cheese head bolt with multiple-tooth internal M8 x 50 (tab on exhaust pipe / transmission) ⇒ *Figure 2* **-4-**
PAF.011.670.26	1 x	Washer, 8.4 x 24 x 2 (tab on exhaust pipe) ⇒ *Figure 2* **-5-**
PAB.253.353.00	1 x	Pressure spring (tab) ⇒ *Figure 2* **-6-**
PAC.253.295	1 x	Tab AL552 ⇒ *Figure 2* **-7-**
PAB.253.205.00	1 x	Spacer tube, ∅ 24 x 32 (upper tab) ⇒ *Figure 2* **-8-**
PAB.253.205.A	2 x	Spacer tube, ∅ 30 x 16 (lower tab) ⇒ *Figure 2* **-9-**
PAB.253.149	1 x	Rubber bushing, ∅ 42 x 29 (lower tab) ⇒ *Figure 2* **-10-**
4H0.821.213	2 x	Speed nut 28 x 18 x 11 ⇒ *Figure 2* **-11-**
PAB.253.099.00	1 x	Exhaust pipe holder ⇒ *Figure 2* **-12-**
N.107.367.01	2 x	Cylinder collar screw with multiple-tooth socket M8 x 20 (exhaust pipe holder) ⇒ *Figure 2* **-13-**

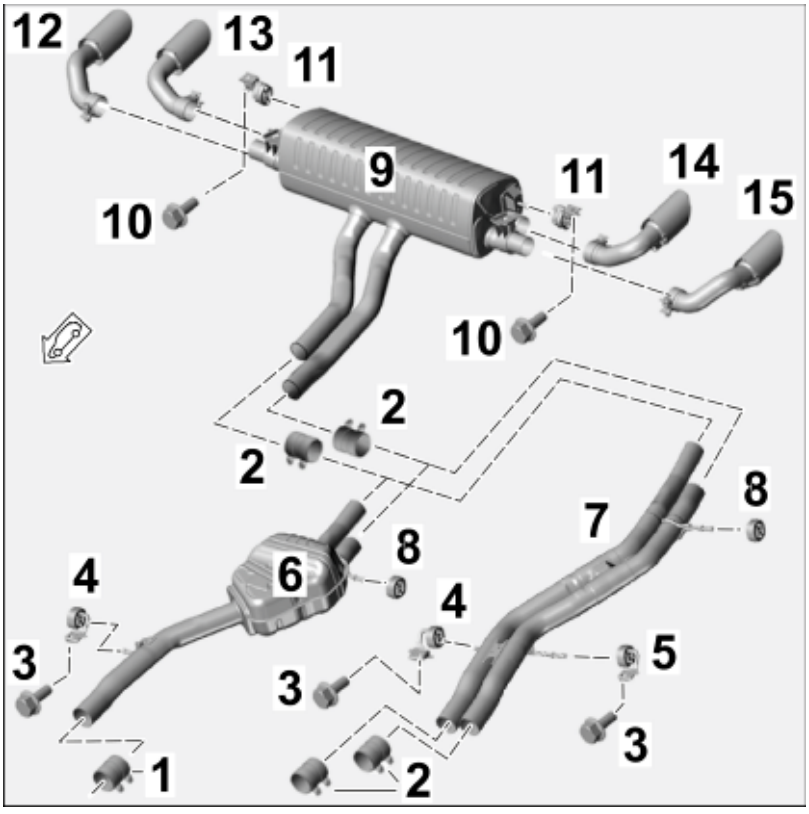

Figure 3

Scope of exhaust system – center, rear silencer (NSD) and sports tailpipes area (⇒*Figure 3*):

PAB.253.141.20[2]	1 x	Clamping sleeve, ∅ 75 x 88 ⇒*Figure 3* **-1-**
958.111.220.10[3]	2 x	Clamping sleeve, ∅ 65 x 88 ⇒*Figure 3* **-2-**
N.106.978.01[3]	1 x	Hexagon-head bolt, M10 x 30 ⇒*Figure 3* **-3-**
PAB.253.144.01	1 x	Holder for center silencer (MSD), front right ⇒*Figure 3* **-4-**
PAB.253.144.10[4]	1 x	Holder for center silencer, front, left ⇒*Figure 3* **-5-**
PAB.253.409[2]	1 x	Center silencer assembly (MSD, –PPF) ⇒*Figure 3* **-6-**
9Y0.253.088.L[4]	1 x	Center silencer assembly (+PPF)⇒*Figure 3* **-7-**
PAB.253.147.00	1 x	Retaining ring for center silencer, rear left ⇒*Figure 3* **-8-**
9Y0.253.125.C	1 x	Rear silencer assembly ⇒*Figure 3* **-9-**
N.106.421.01	2 x	Hexagon-head bolt, M8 x 25 ⇒*Figure 3* **-10-**
PAB.253.144.03	2 x	Holder for rear silencer (NSD) ⇒*Figure 3* **-11-**
N.038.549.4	8 x	Expansion rivet, A8 x 12 (air guide for tunnel, underbody panelling, not shown)
N.106.296.02	8 x	Hexagon head screw M10 x 35 (underbody crossbeam)
9Y0.253.824.DG[5]	1 x	Sports tailpipe in silver, outer right ⇒*Figure 3* **-12-**
9Y0.253.824.DL[5]	1 x	Sports tailpipe in silver, inner right ⇒*Figure 3* **-13-**

9Y0.253.823.EC[5]	1 x	Sports tailpipe in silver, inner left ⇒*Figure 3* **-14-**
9Y0.253.823.DQ[5]	1 x	Sports tailpipe in silver, outer left ⇒*Figure 3* **-15-**
9Y0.253.824.DH[5]	1 x	Sports tailpipe in dark bronze, outer right (not shown)
9Y0.253.824.DM[5]	1 x	Sports tailpipe in dark bronze, inner right (not shown)
9Y0.253.823.ED[5]	1 x	Sports tailpipe in dark bronze, inner left (not shown)
9Y0.253.823.DT[5]	1 x	Sports tailpipe in dark bronze, outer left (not shown)

[2] **ONLY** contained in set for vehicles WITHOUT PPF (9Y0.044.232 / 9Y0.044.232.A).

[3] **Double quantity** in set for vehicles WITH PPF (9Y 0.044.232.B / 9Y0.044.232.C).

[4] **ONLY** contained in set for vehicles WITH PPF (9Y0.044.232.B / 9Y0.044.232.C).

[5] **ONLY** contained in respective set.

Figure 4

Scope of electrics – engine noise area (⇒*Figure 4*):

9Y0.907.159.CL	1 x	Engine noise control unit ⇒*Figure 4* **-1-**
PAB.907.249.00	1 x	Engine noise control unit holder ⇒*Figure 4* **-2-**

4H0.907.601.E	1 x	Engine noise pulse sender ⇒ *Figure 4* **-3-**
N.908.877.03	1 x	M6 hexagon nut, self-locking ⇒ *Figure 4* **-4-**
9Y0.044.210	1 x	Wire harness assembly engine noise ⇒ *Figure 4* **-5-**
— — —[6]	1 x	Base cable ties (CL 611) ⇒ *Figure 4* **-6-**
— — —[6]	1 x	Cable holder (white) ⇒ *Figure 4* **-7-**
— — —[6]	1 x	Base cable ties, externally toothed (CL 614) ⇒ *Figure 4* **-8-**
— — —[6]	1 x	Connector housing (4-pin) ⇒ *Figure 4* **-9-**
999.607.083.00[6]	2 x	7.5 A fuse (not shown)
999.607.085.00	1 x	15 A fuse (not shown)

[6] Contained in the "Wire harness assembly for engine noise (9Y0.044.210)" set.

Figure 5

Scope of electrical system – exhaust flaps and interior mechanism area (⇒ *Figure 5*):

9Y0.044.210.A	1 x	Wire harness assembly for exhaust flaps ⇒ *Figure 5* **-1-**
— — —[7]	1 x	Grommet (internal ∅ 66.5 – left side) ⇒ *Figure 5* **-2-**
— — —[7]	1 x	Grommet (internal ∅ 46 – right side) ⇒ *Figure 5* **-3-**
— — —[7]	1 x	Corrugated hose, 4.5 x 7.6 x 220 ⇒ *Figure 5* **-4-**

— — —[7]	1 x	Corrugated hose, 4.5 x 7.6 x 230 (not shown)
— — —[7]	2 x	Plug socket (4-pin) ⇒*Figure 5* **-5-**
— — —[7]	2 x	15-A fuse (not shown)
N.020.902.2	20 x	Tie-wrap, 3.6 x 246 (not shown)
999.513.052.40	10 x	Tie-wrap, 4.8 x 188 (not shown)
PAB.886.373	5 x	Fixing clip for seat cushion ⇒*Figure 5* **-6-**
N.912.052.01	8 x	Cheese head bolt with multiple-tooth internal M10 x 35 (front and rear seat) ⇒*Figure 5* **-7-**
PAF.912.664	4 x	Hexagon flange bolt, M12 x 1.5 x 40 (rear seat) ⇒*Figure 5* **-8-**

[7] Contained in the "Wire harness assembly for exhaust flaps (9Y0.044.210.A)" set.

Information

ONLY in the event of repairs/replacement:
Items **WITH / WITHOUT** a part number in the parts list can be found/ordered from the Porsche Electronic Parts Catalogue = PET.

Check model year and vehicle equipment (I-no.) in the standard catalogue!

Material:

000.043.172.00	1 x	Sealing cord
— — —	1 x	Commercially available rust solvent, e.g. WD40
— — —	1 x	Wrapping / insulating tape (commercially available)
— — —	1 x	Auxiliary line (Tekalan or Teflon hose) approx. 1,500 mm long

Tool:

P90999 - P90999 - PIWIS Tester 4

VAS 6935 - Pole terminal puller

VAS 6931A - Transmission and gearbox jack

V.A.G 1331A - Torque wrench 6-50 Nm (4.5-37 ftlb.)

Assembly:

1 Preparatory work

1.1 Drive the vehicle onto a vehicle lift and connect a battery charger. ⇒*Workshop Manual '2X00IN Battery trickle charging'*

Information

The help of another person is required for this step.

1.2 Removing the seats

1.2.1 Remove trunk cover.

1.2.2 Remove padding for rear seat surface (2 / 3–split folding rear seat). ⇒*Workshop Manual '744919 Removing and installing padding for rear seat surface (2 / 3-split folding rear seat)'*

1.2.3 Remove 2 / 3-split folding rear seat. ⇒*Workshop Manual '724819 Removing and installing rear seat'*

1.2.4 Carefully lift the 2 / 3-split folding rear seat out of the vehicle via the trunk.

1.2.5 Remove (left) front seat. ⇒*Workshop Manual '720119 Removing and installing front seat'*

1.2.6 Carefully lift the front seat (left) from the vehicle to the rear via the trunk.

1.3 Remove passenger compartment trim panels (left side).

1.3.1 Expose the A-pillar area (side): (⇒*Figure 8*)

1 – Front side-section trim panel
2 – Footrest
3 – Inner door sill trim (front)
4 – A-pillar trim panel (lower part)
5 – 1 / 3 rear seat

Remove the A-pillar trim panel (lower part). ⇒*Workshop Manual '705719 Removing and installing A-pillar trim panel (lower part)'*

Figure 8

1.3.2 Expose the B-pillar area (left side): (⇒ *Figure 9*)

1 – B-pillar trim panel (upper part)
2 – B-pillar trim panel (lower part)
3 – Door sill trim (inner)
4 – C-pillar trim panel (lower part)
5 – Side trim panel of the trunk (left side)
6 – Bulkhead cover

Remove B-pillar trim panel (lower part). ⇒ *Workshop Manual '706719 Removing and installing B-pillar trim panel (lower part)'*

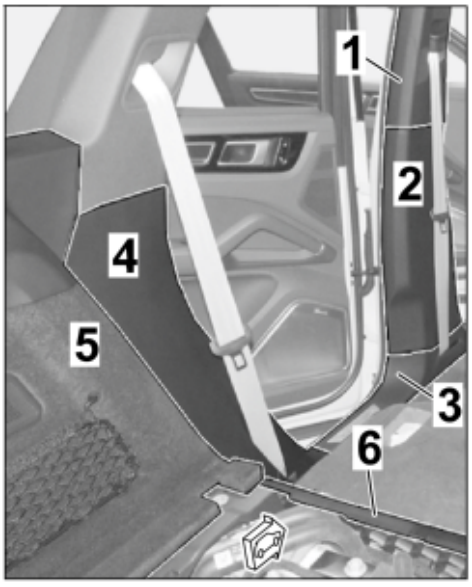

Figure 9

1.3.3 Expose trunk area:
Remove side trim panel for trunk (left / right).

- Basic version: ⇒ *Workshop Manual '700319 Removing and installing rear boot side trim panel'*
- Coupé: ⇒ *Workshop Manual '700319 Removing and installing rear boot side trim panel'*

1.3.4 Expose C-pillar area (left side):
Remove C-pillar trim panel (lower part) on left side. ⇒ *Workshop Manual '706819 Remove and install C-pillar trim panel (lower part)'*.

1.3.5 Push the 1 / 3 rear seat forward and remove the cover on the firewall.

1.4 Exposing the plenum panel area ⇒ *Figure 10*

1.4.1 Remove the cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*

1.4.2 Remove filler neck from windshield-washer reservoir (⇒ *Figure 10* **-1-**). ⇒ *Workshop Manual '926019 Removing and installing windscreen-washer reservoir'*

1 – Filling neck for windshield-washer reservoir
2 – Engine cover (design cover)
3 – Strut brace (installation position of engine sound control unit)

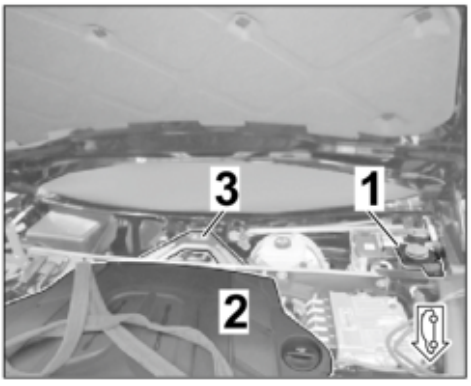

Figure 10

1.5 **ONLY** for vehicles WITHOUT petrol particulate filter (PPF; emissions concept = 0GB / 7CE / 7GH / 7MM):

1.5.1 Remove engine cover (design cover) (⇒ *Figure 10* **-2-**). ⇒ *Workshop Manual '108319 Removing and installing engine cover - T9I'*

1.5.2 Remove air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing - T9I,TB5'*

1.5.3 Raise the vehicle ⇒ *Workshop Manual '4X00IN Raising the vehicle'*

1.5.4 Remove the catalytic converter. ⇒ *Workshop Manual '267319 Removing and installing catalytic converter'*

1.6 Raise the vehicle ⇒ *Workshop Manual '4X00IN Raising the vehicle'*

⚠ CAUTION

Hot components

- **Risk of burns**

⇒ **Let hot components cool down.**

⇒ **Wear personal protective gear.**

1.7 Work in the exhaust system area

1 – Rear underbody cover
2 – Rear tunnel cover
3 – Front underbody cover (rear section)
4 – Tailpipe (left / right)

1.7.1 Remove rear underbody cover and rear tunnel cover (⇒ *Figure 11* **-1 and 2-**). ⇒ *Workshop Manual '519419 Removing and installing rear underbody cover'*

1.7.2 Remove front underbody cover (rear section) (⇒ *Figure 11* **-3-**). ⇒ *Workshop Manual '51921900 Removing and installing front underbody cover'*

1.7.3 Remove tailpipe (left / right) (⇒ *Figure 11* **-4-**). ⇒ *Workshop Manual '263419 Removing and installing tailpipe - T9I'*

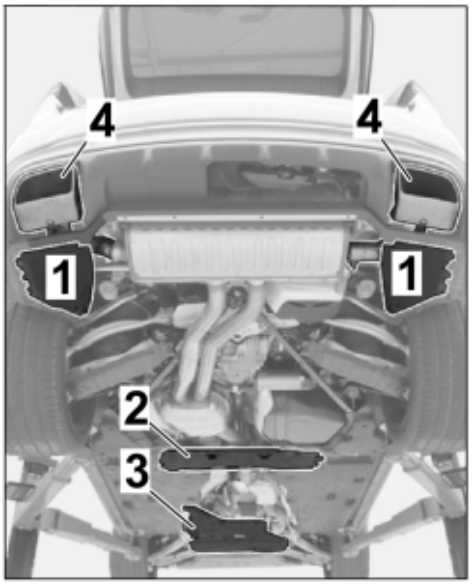

Figure 11

CAUTION

Heavy components

- **Risk of squashing**

⇒ **Wear personal protective gear.**

⇒ **Get someone to help if necessary.**

1.7.4 Remove exhaust system **WITHOUT** removing tunnel strut. ⇒ *Workshop Manual '260119 Removing and installing exhaust system - T9I'*

2 Install engine noise control unit and pulse sender

2.1 Installing the engine noise control unit

2.1.1 Check whether there is a tie-wrap on the side tab on the engine noise control unit. Remove the tie-wrap if necessary.

2.1.2 Insert the engine noise control unit at the underside in the control unit holder (⇒ *Figure 12* **-A-**).

1 – Engine noise control unit
2 – Control unit holder
3 – Locking / unlocking

2.1.3 Push the engine noise control unit in the holder to the opposite side of the plug connection (⇒ *Figure 12* **-B-**) until control unit engages in the holder.

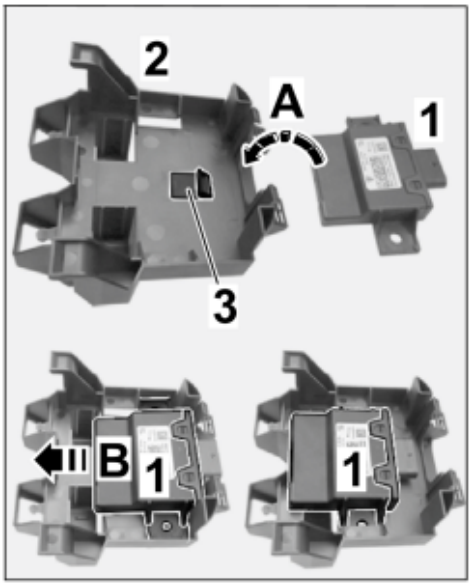

Figure 12

2.1.4 Establish a plug connection from the wire harness for the engine noise control unit (⇒ *Figure 13* **-3-**) to the engine noise control unit (6-pin ⇒ *Figure 13* **-2-**).

1 – Control unit holder
2 – Engine noise control unit
3 – Wire harness engine noise
4 – Line clip
5 – Dome strut
6 – Engine noise pulse sender (LHD position)

2.1.5 Fit the holder with the engine noise control unit to the strut brace (plenum panel area) (⇒ *Figure 13*).

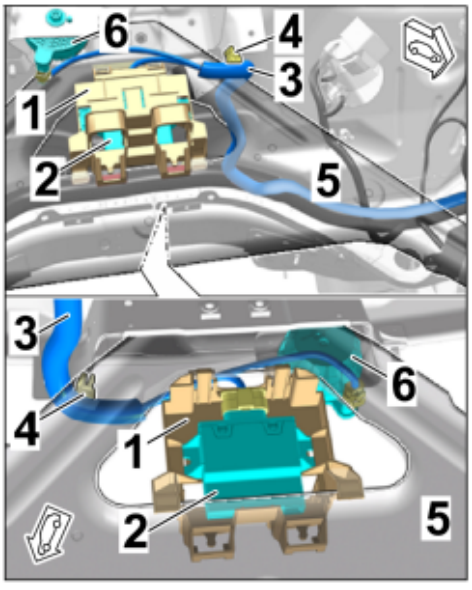

Figure 13

Information

Check that the electric line for the plug connection for the engine noise pulse sender is routed correctly.

- The line must **NOT** be touching the engine noise pulse sender holder (on the body side)!
- Route the line differently if necessary and use a tie-wrap to secure the line to existing lines or holders without tensile stress and so that no chafing or rattling occurs.

2.2 Install engine noise pulse generator ⇒ *Workshop Manual '260219A3 Removing and installing acoustic simulator'*

A – Installation position of pulse sender – LHD
B – Installation position of pulse sender – RHD
1 – Engine noise pulse sender
2 – Bulkhead holder
3 – Wire harness engine noise
4 – Dome strut

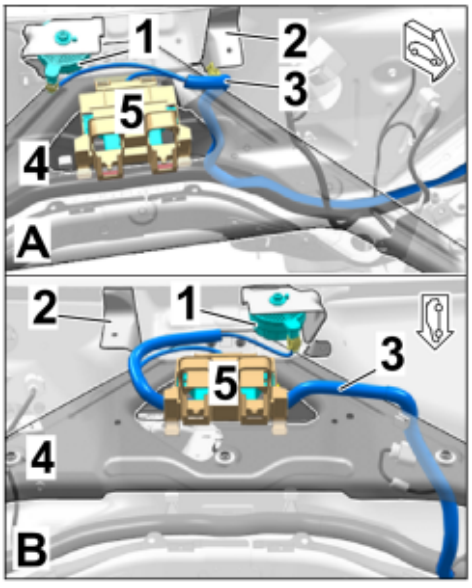

Figure 14

2.2.1 Establish electric plug connections to the engine noise pulse sender (2-pin).

2.2.2 Guide the pin (underside of engine noise pulse sender) into the hole on the firewall holder from below (⇒ *Figure 14* **-2-**, plenum panel).

2.2.3 Secure the engine noise pulse sender in the firewall holder (plenum panel) using an M6 hexagon nut (1 x) (⇒ *Figure 14*)

Tightening torque 5 Nm (3.7 ftlb.) +/-0.75 Nm (0.6 ftlb.)

NOTICE

Incorrect line routing

- **Risk of damage to lines and hoses**
- **Risk of malfunction and storing fault codes in the control unit**

⇒ **Avoid small bending radii when routing lines.**

⇒ **File down edges and burrs in the routing area or mask them with adhesive tape.**

⇒ **Maintain a sufficient distance from components exposed to high temperatures while driving.**

2.3 Lay the electric wire harness for the engine noise to the connection point (preparation)

Connections for the wire harness for the engine noise:

1 – Engine noise control unit connector (6-pin)
2 – Engine noise pulse sender connector (2-pin)
3 – Connection point lines for engine noise
4 – Connector housing (4-pin)

Figure 15

2.3.1 Cut off the cone (repair opening) on the grommet on the firewall (in the A-pillar plenum panel area – left) (⇒ *Figure 16*).

A – Right-hand drive
B – Left-hand drive
1 – Cone (repair opening)
2 – Grommet on firewall
3 – Dome strut

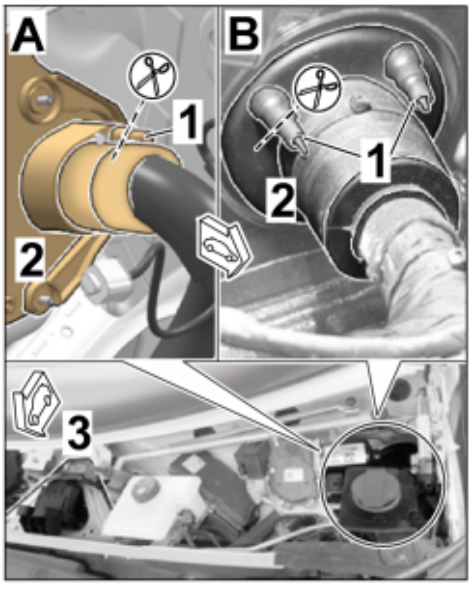

Figure 16

2.3.2 Lay the wire harness for the engine noise to the grommet on the firewall (in the A-pillar plenum panel area – left) (⇒ *Figure 17*):

A – Left-hand drive
B – Right-hand drive
1 – Dome strut
2 – Cable clip
3 – Grommet on firewall
4 – Wire harness engine noise

- Strut brace → cable clip on holder → along wire harness → beneath brake booster → grommet on firewall (area of plenum panel A-pillar – left) → passenger compartment

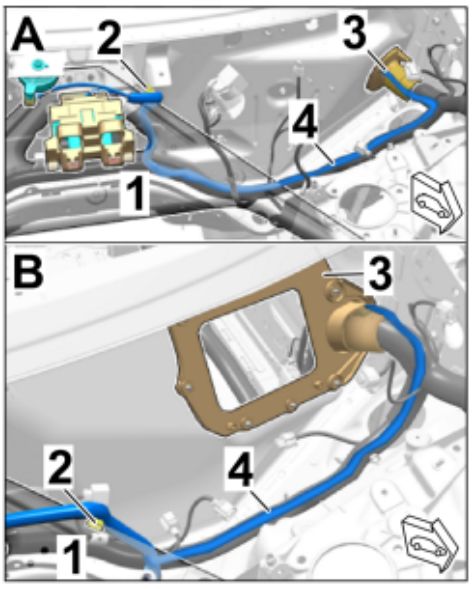

Figure 17

2.3.3 Securing the wire harness for engine noise in the strut brace area

Left-hand drive: Fitting the cable clip on the firewall holder (⇒ *Figure 18*)

1 – Holder with engine noise control unit
2 – Engine noise pulse sender
3 – Cable clip
4 – Wire harness engine noise

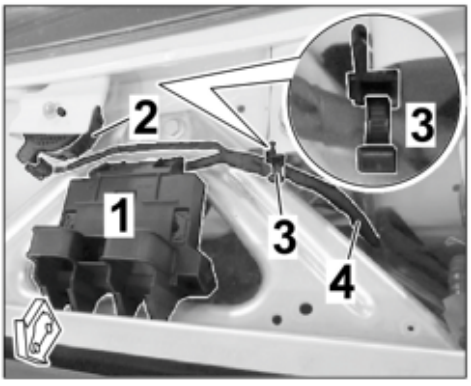

Figure 18

Right-hand drive (RHD): Fit cable clip on control unit holder and strut brace (⇒*Figure 19 (RHD)*).

1 – Wire harness engine noise
2 – Cable clip
3 – Control unit holder
4 – Dome strut

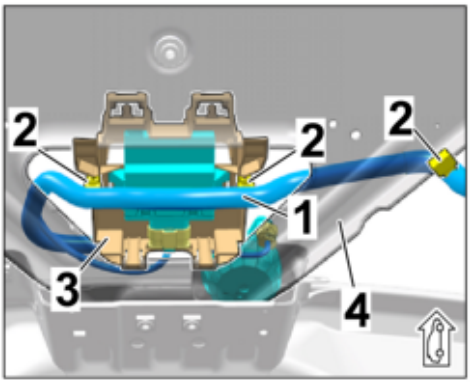

Figure 19 (RHD)

2.3.4 Loosen front left floor carpeting and fold it up as far as possible (⇒*Figure 20*). ⇒*Workshop Manual '704119 Removing and installing front floor covering'*

1 – Front left floor carpeting
2 – Connection point with foam (protection from chafing / movement)

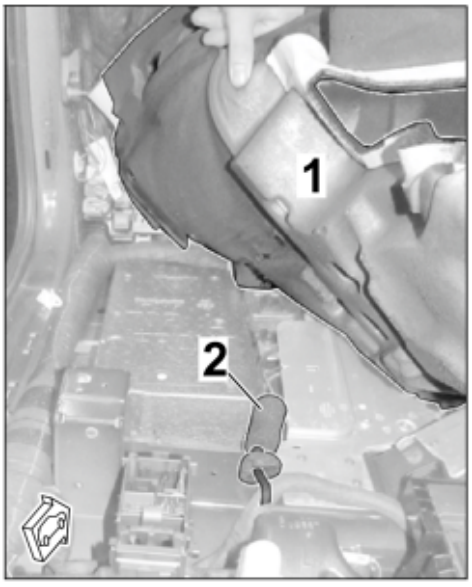

Figure 20

2.3.5 Lay the wire harness for engine noise to the connection point (preparation in the floor group area, front seat – left)

Left-hand drive: (⇒*Figure 21*)

1 – Grommet on firewall
2 – Fuses / relays
3 – Fuse box
4 – Wire harness engine noise

- Grommet on firewall (passenger compartment A-pillar, left) → beneath the fuse box (**DO NOT** remove the fuse box!) → Lower A-pillar (left)

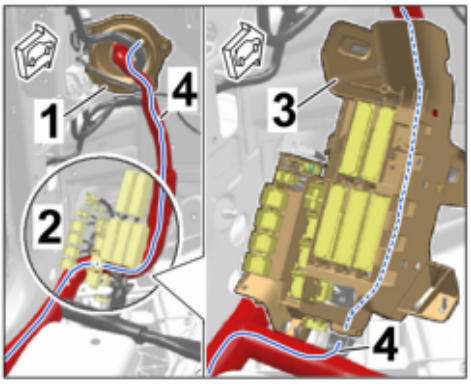

Figure 21

Right-hand drive (RHD):
(⇒ *Figure 22 (RHD)*)

1 – Grommet on firewall
2 – Fuse box
3 – Wire harness engine noise

- Grommet on firewall (passenger compartment area, A-pillar, left) → along wire harness for A-pillar → lower A-pillar (left)

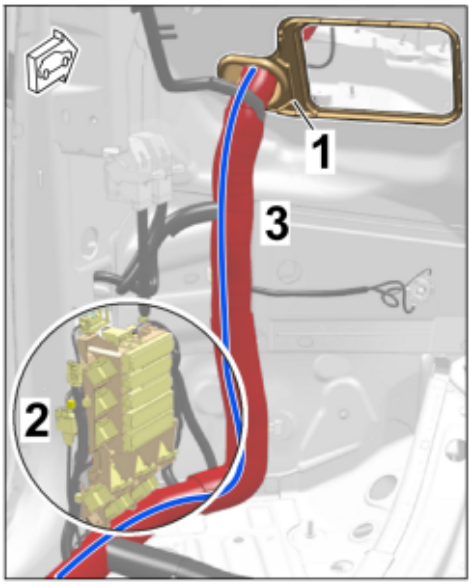

Figure 22 (RHD)

Lower A-pillar (left) → along wire harness for door entry (left) → connection point (preparation) area of front seat, left (⇒ *Figure 23*)

1 – Wire harness engine noise
2 – Threaded bush for mounting left front seat
3 – Connection point (preparation)

2.4 Connecting the electric wire harness for engine noise at the connection point (preparation)

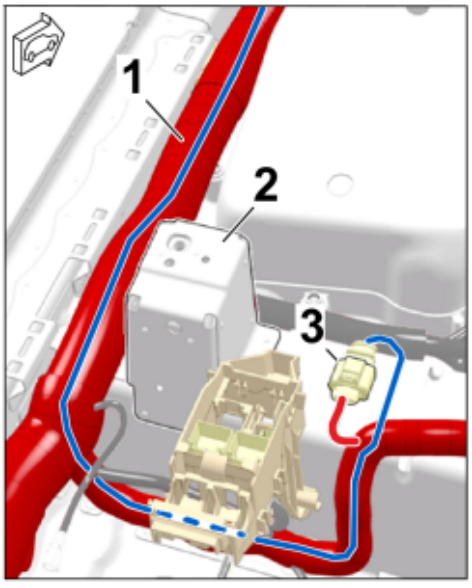

Figure 23

2.4.1 Unlocking the socket housing (4-pin, see parts list) (⇒*Figure 24*).

1 – Fuse
2 – Pin connector socket (4-pin)

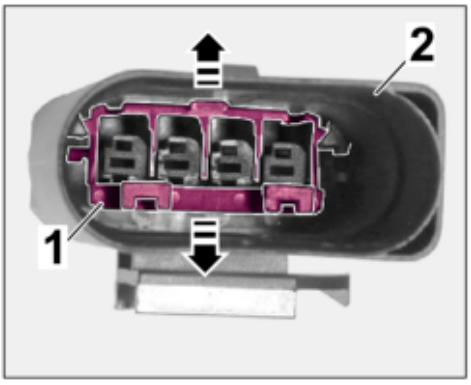

Figure 24

2.4.2 Connect the lines with pin contact and single-core seal (wire harness for engine noise) in the connector housing (4-pin, see parts list ⇒ *Figure 25* -**Magnifier**-) as follows:

Connector (4-pin)	**Line / function**
Chamber 1	RT / SW; 0.75² = Power supply, fuse box D3
Chamber 2	BN; 0.75² = Ground
Chamber 3	OR / BN; 0.35² = CAN Bus Extended Low
Chamber 4	GR; 0.35² = CAN Bus Extended High

2.4.3 Lock connector housing (4-pin) and establish a plug connection to the connection point (⇒*Figure 25*).

1 – Pin connector socket (4-pin)
2 – Plug connection to connection point
3 – Foam (protection from chafing / movement)

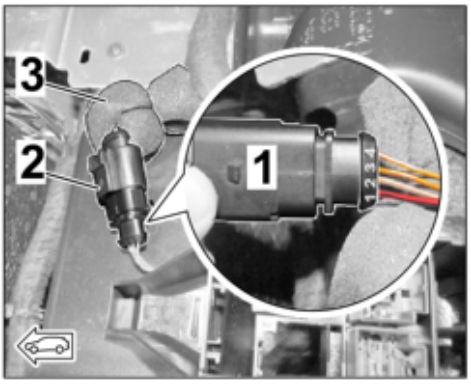

Figure 25

2.4.4 Re-position the foam (protection from chafing / movement) over the plug connection.

2.5 Use tie-wraps to secure the motor noise wire harness in the passenger compartment to existing lines / components, avoiding tensile stress so that no chafing occurs.

2.6 Seal the wire harness for engine noise at the bushing in the passenger compartment (grommet on firewall; A-pillar plenum panel area – left ⇒*Figure 16*) from the inside and outside using adhesive sealant / sealing compound.

3 Routing and connecting wire harness for exhaust flaps

Connections for wire harness for exhaust flaps (⇒*Figure 26*):

1 – Connector for connection point (preparation of exhaust flaps, 6-pin)
2 – Branch for exhaust flap (left)
3 – Branch for exhaust flap (right)

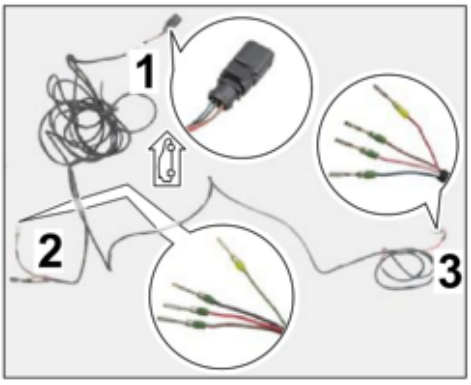

Figure 26

3.1 Make a plug-in connection (6-pin) between the connection point (preparation) and exhaust flaps

3.1.1 Expose the connection point (preparation = socket connector, 6-pin) in the passenger compartment of the vehicle, area of firewall grommet, A-pillar left. ⇒*Figure 27* **-A-**

1 – Foam preparation (socket connector, 6-pin)
2 – Grommet on firewall (LHD vehicle)
3 – Connector for wire harness for exhaust flaps (6-pin)

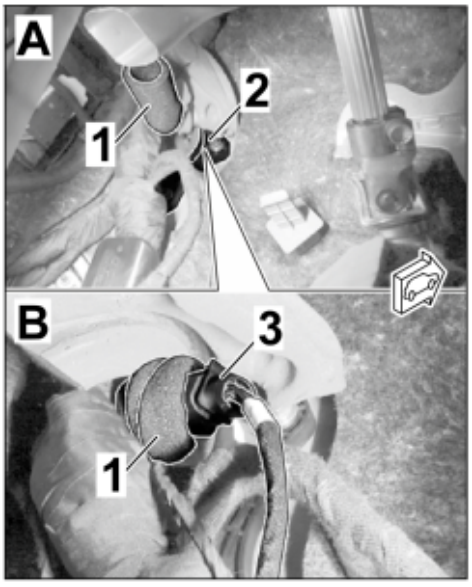

Figure 27

3.1.2 Push the foam preparation (socket connector, 6-pin) onto the line on the vehicle side.

3.1.3 Establish a connection between the plug connection preparation and the wire harness for the exhaust flaps (6-pin). ⇒*Figure 27* **-B-**

3.1.4 Push the foam over the plug connection (6-pin).

3.2 Lay the wire harness for the exhaust flaps to the rear of the vehicle as follows

Route of the wire harness for exhaust flaps in the vehicle (⇒ *Figure 28*):

1 – Connection point (preparation)
2 – Grommet / stopper for trunk floor (left)
3 – Grommet / stopper for trunk floor (right)

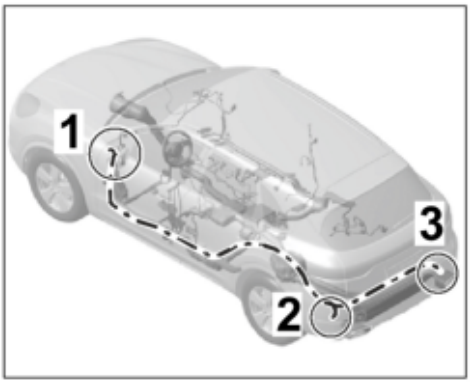

Figure 28

3.2.1 A-pillar area, left (⇒ *Figure 29*)

1 – Socket connector (6-pin, preparation)
2 – Pin connector (6-pin, wire harness for exhaust flaps)
3 – Fuses / relays (LHD vehicles)

- **Left-hand drive:** Connecting point (preparation = socket connector, 6-pin) → along wire harness A-pillar, left → beneath fuses / relays (DO **NOT** remove the relay carrier - at most loosen it.) → Door sill A-pillar, left
- **Right-hand drive:** Connecting point (preparation = socket connector, 6-pin) → along wire harness A-pillar, left → door sill A-pillar, left

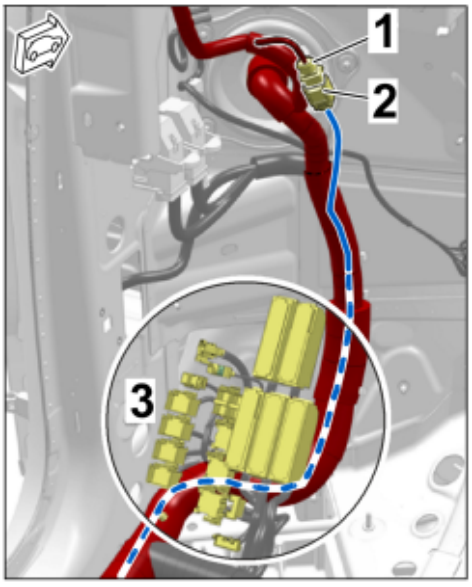

Figure 29

3.2.2 Door sill area, left (⇒ *Figure 30*)

1 – Wire harness for exhaust flaps
2 – Cable holder, door sill B-pillar area (left)
3 – Cable duct, rear door sill area (left)

- Door sill A-pillar, left → along wire harness for door sill, left (open cable ducts / holders if necessary) → wheel housing, rear left

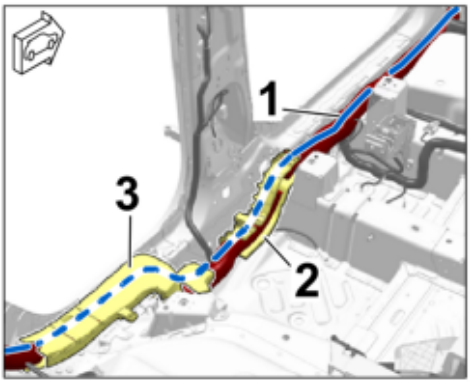

Figure 30

3.2.3 Wheel housing area. left (⇒ *Figure 31*)

1 – Cable duct, rear door sill area (left)
2 – Cable duct, rear wheel housing area (left)
3 – Fuse box in trunk (left)
4 – Grommet / stopper for trunk floor, left (∅ 66.5 mm)
5 – Branch for exhaust flap, right side

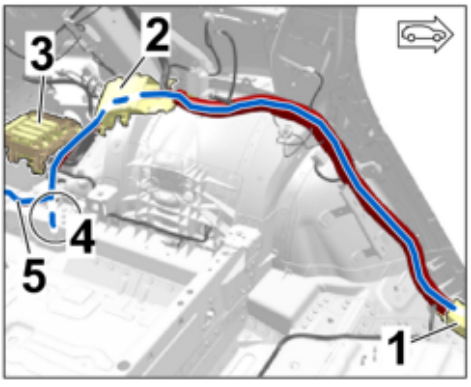

Figure 31

- Door sill, left → above wheel housing, left → branch for exhaust flap (left) to grommet / stopper for trunk floor, left (beneath fuse / relay carrier) → branch for exhaust flap, right of the rear end plate

3.2.4 Rear end plate area and grommet / stopper for trunk floor (⇒*Figure 32*)

1 – Branch for exhaust flap (left)
2 – Branch for exhaust flap (right)
3 – Fuse box in trunk (left)
4 – Grommet / stopper for trunk floor, left (∅ 66.5 mm)
5 – Grommet / stopper for trunk floor, right (∅ 46 mm)

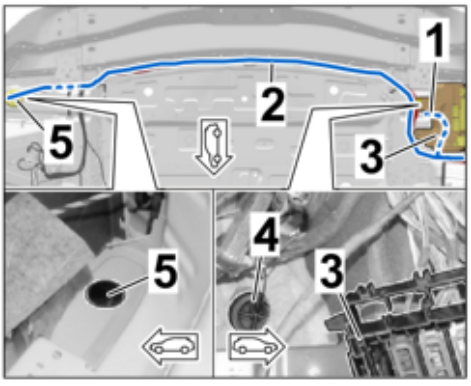

Figure 32

- Branch for exhaust flap (left) to grommet / stopper for trunk floor, left (beneath fuse box in trunk (left) → branch for exhaust flap on the right to rear closing panel → along rear closing panel (⇒*Figure 32* **-top-**) → grommet / stopper for trunk floor, right.

3.3 Lay the branch for the exhaust flap (left / right) to the underside of the vehicle

3.3.1 Loosen fuse box with holder in left rear trunk and swivel it aside (⇒*Figure 33*). ⇒*Workshop Manual '978409 Loosening and securing fuse box in the boot'*

1 – Fuse box with holder
2 – Grommet (left = ∅ 66.5 mm)

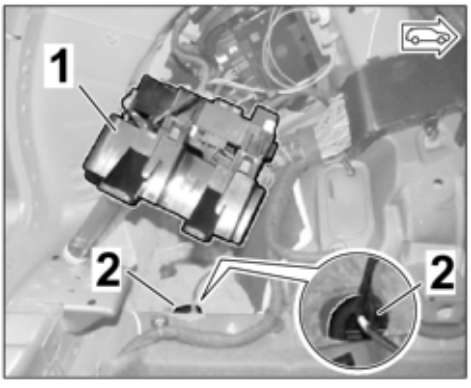

Figure 33

3.3.2 Loosen the heat shield on the underside of the vehicle in the area of the grommet (right / left) and stopper (right / let) and bend it down slightly.

3.3.3 Remove the stoppers in the trunk floor (left = ∅ 66.5 mm / right = ∅ 46 mm). The stopper is replaced by a corresponding grommet (see parts package).

3.3.4 **ONLY** if a grommet with several lines is installed on the underside (including an exhaust flap branch (left / right of the standard rear silencer ⇒*Figure 34*):

1 – Grommet
2 – Branch for exhaust flap
3 – Exhaust flap (standard rear silencer)

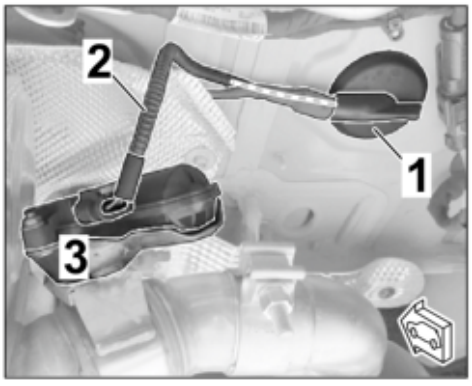

Figure 34

- Remove grommet(s) (left / right) with branches and guide it into the passenger compartment.
- Remove the connector housing from the respective exhaust flap branch (left / right of the standard rear silencer).
- Spread the grommet using a three mandrel pliers for hoses and grommets (commercially available) and remove adhesive residue from the grommet.
- **CAREFULLY** guide the exhaust flap standard branch through the grommet into the passenger compartment and wrap it with insulating tape and secure it.
- Guide the new branch for the exhaust flap (left / right) through the neck of the grommet (see also 3.3.6) **OR** through another hole in the grommet collar (⇒*Figure 35*) **CAREFULLY** to the underside of the grommet.

1 – Grommet
2 – Branch for exhaust flap (left / right)
3 – Additional electric line

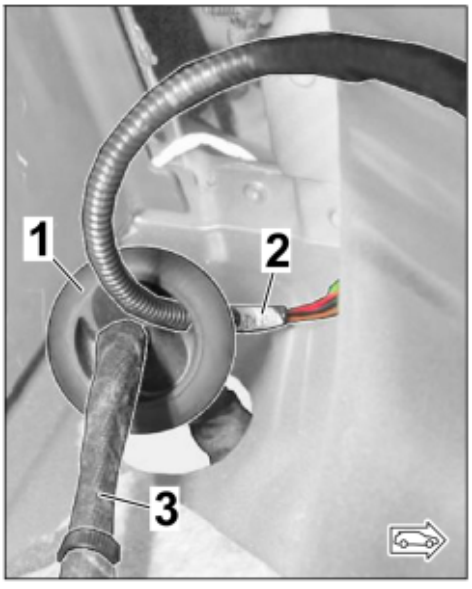

Figure 35

3.3.5 **ONLY** if a grommet is installed with the exhaust flap branch (left / right of the standard rear silencer):

- Remove grommet(s) with branch connections to the exhaust flap (left / right) and guide it / them into the passenger compartment.
- Tie back the exhaust flap branch (left / right) with the connector and grommet on the wire harness on the vehicle side in the passenger compartment.
- Use a new grommet (left = ∅ 66.5 mm / right = ∅ 46 mm, see scope of parts) (see also 3.3.6).

3.3.6 **ONLY** if stopper (left = ∅ 66.5 mm / right = ∅ 46 mm) is installed:

- Remove the stoppers (left = ∅ 66.5 mm / right = ∅ 46 mm).
- Use a new grommet (left = ∅ 66.5 mm / right = ∅ 46 mm, see scope of parts) (see also 3.3.6).

3.3.7 Guide the new branch for the exhaust flap (left / right) through the new grommet (left = ∅ 66.5 mm / right = ∅ 46 mm⇒*Figure 36*) using three mandrel pliers and an auxiliary line (Tekalan or Teflon tube).

1 – Three mandrel pliers
2 – Grommet, right (∅ 46 mm)

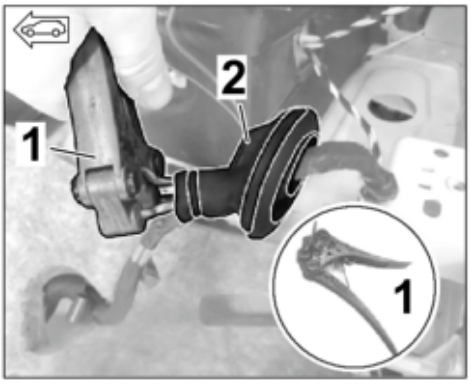

Figure 36

3.4 Fitting the socket housing on the exhaust flap branch

3.4.1 Release the socket housing (4-pin, see parts list). ⇒*Figure 37* **-A-**

1 – Fuse
2 – Plug socket (4-pin)

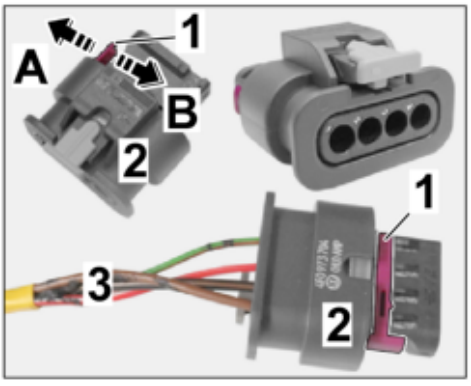

Figure 37

3.4.2 Connect the lines with female contacts and single-core seals (wire harness for exhaust flaps) in the socket housing (4-pin, see parts list) as follows:

- Left exhaust flap:

Plug socket (4-pin)	**Line / function**
Chamber 1	BN; 0.5² = Terminal 31 (ground)
Chamber 2	SW / BN; 0.75² = Pulse Width Module (PWM)
Chamber 3	RT / WS; 0.5² = Terminal 87 (power supply, fuse)
Chamber 4	GN / RT; 0.35² = Pulse Width Module out (PWM)

- Right exhaust flap:

Plug socket (4-pin)	**Line / function**
Chamber 1	BN; 0.5² = Terminal 31 (ground)

Chamber 2	SW / BL; 0.5² = Pulse Width Module (PWM)
Chamber 3	RT / WS; 0.5² = Terminal 87 (power supply, fuse)
Chamber 4	RT / SW; 0.35² = Pulse Width Module out (PWM)

3.4.3 Lock the socket housing (4-pin, see parts list). ⇒*Figure 37* **-B-**

3.4.4 Wrap cables (4 x) with insulating tape from a distance of approx. 30 mm from the connector (socket housing 4-pin) as far as the underbody.

3.4.5 Fit corrugated hose 4.5 x 7.6 x X to each branch from a distance of approx. 30 mm from the connector (socket housing 4-pin) to the underbody. ⇒*Figure 38*

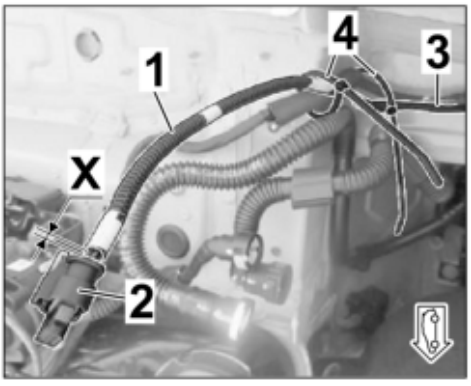

Figure 38

1 – Corrugated hose, 4.5 x 7.6 x X
2 – Connector (socket housing 4-pin)
3 – Branch for exhaust flap (right)
4 – Cable tie
X – approx. 30 mm

- Left side: Corrugated hose, 4.5 x 7.6 x 220
- Right side: Corrugated hose, 4.5 x 7.6 x 230

3.5 Check fuse assignment of exhaust flaps and engine sound pulse generator in the fuse box (left A-pillar footwell ⇒*Figure 39*) (⇒ Cayenne Driver's Manual, section on “Fuses”)

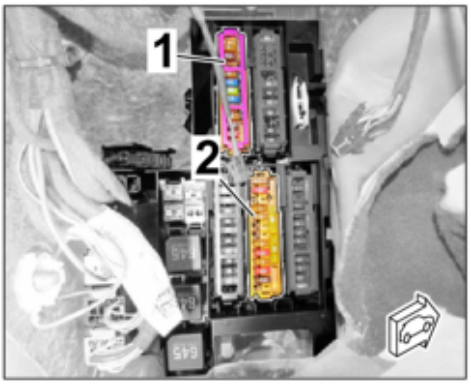

Figure 39

1 – Fuse strip A
2 – Fuse strip D

3.5.1 Check that slot A4 is inserted into fuse strip A (exhaust flaps) and secure with a new fuse if necessary.

Fuse: **Nominal value 7.5 A**

3.5.2 Check that slot D3 is inserted into fuse strip D (structure-borne noise control unit, engine noise generator) and secure with a new fuse if necessary.

Fuse: **Nominal value 15 A**

4 Installing new exhaust system

4.1 **ONLY** for vehicles WITHOUT petrol particulate filter (PPF; emissions concept = 0GB / 7CE / 7GH / 7MM):

1 – Spacer tube ∅ 24 x 32
2 – Tab AL552
3 – Compression spring
4 – Washer, 8.4 x 24 x 2
5 – Cheese head bolt with multiple-tooth socket, M8 x 50
6 – Spacer pipe, ∅ 30 x 16
7 – Rubber bushing, ∅ 42 x 29

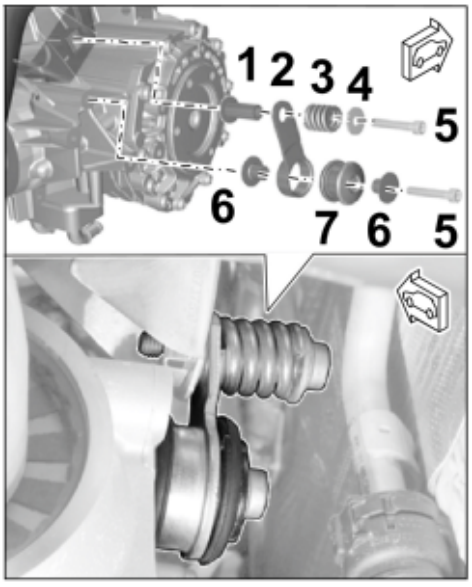

Figure 40

4.1.1 Install new exhaust pipe with a new seal and new spring/tab assembly (⇒ *Figure 40*). ⇒ *Workshop Manual '261719 Removing and installing exhaust pipe - T9I'*

Secure exhaust pipe on the transmission support using restraining strap for securing loads, for example, to prevent it from bending down.

4.1.2 Install the air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing - T9I, TB5'*

4.1.3 Install engine cover (design cover). ⇒ *Workshop Manual '108319 Removing and installing engine cover - T9I'*

4.2 Install new center silencer with new clamping sleeve ∅ 65 x 88 (2 x – vehicles WITH PPF, emissions concept = 4WE / 7CR / 7CV) or clamping sleeve ∅ 75 x 88 (1 x – vehicle WITHOUT PPF = 0GB / 7CE / 7GH / 7MM).

1 – Clamping sleeve, ∅ 75 x 88
2 – Holder for center silencer, front, right
3 – Center silencer (WITHOUT PPF)
4 – Center silencer retaining ring
5 – Clamping sleeve, ∅ 65 x 88
6 – Rear silencer
7 – Sports tailpipes in dark bronze, left
8 – Sports tailpipes in dark bronze, right

- Hexagon flange bolt, M10 x 30 (center silencer holder): **Tightening torque 49 Nm (36.1 ftlb.)**
- Clamping sleeve, ∅ 65 x 88 / ∅ 75 x 88: **Tightening torque 30 Nm (22.1 ftlb.)**

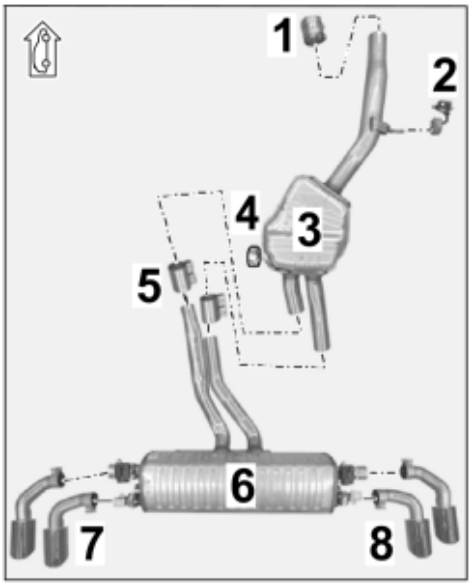

Figure 41

4.3 Install new rear silencer with a new clamping sleeve, ∅ 65 x 88 (2 x). ⇒ *Workshop Manual '263355 Replacing rear silencer'*

- Hexagon flange bolt, M8 x 25 (rear silencer holder): **Tightening torque 23 Nm (17 ftlb.)**
- Clamping sleeve, ∅ 65 x 88: **Tightening torque 30 Nm (22.1 ftlb.)**

4.4 Connect electric plug connections for servo motor for exhaust flap (left / right).

4.4.1 Pull the excess branch wire for the exhaust flap (left / right) towards the grommet in the floor of the vehicle.

4.4.2 Seal the line bushing for the exhaust flap in the grommets (left / right) from the inside and outside using sealing cord.

4.5 Fit new sports tailpipes (silver or dark bronze) and align them with the rear apron. ⇒*Installation and Conversion Instructions '263400 Sports tailpipe, twin-branch – silver (0P3) / dark bronze (0P6)'*

1 – Sports tailpipe – inner (right)
2 – Sports tailpipe – outer (right)
3 – Exhaust system panel (rear panel)

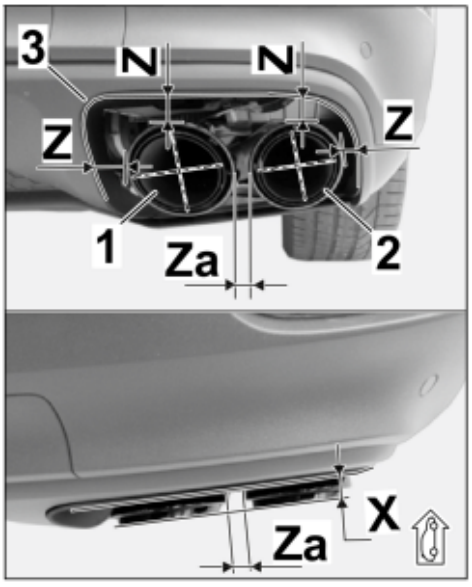

Figure 42

4.5.1 Check that the gap between the new sports tailpipes and the exhaust system cover (rear panel – left and right side of vehicle) is symmetrical and consistent. Adjust if necessary.

⇒*Figure 42* **-Z-**: **Check value 21 mm +/-1 mm**

4.5.2 Check spacing of inner / outer sports tailpipe (left and right side of vehicle). Adjust if necessary.

⇒*Figure 42* **-Za-**: **Check value 11 mm +/-1 mm**

4.5.3 Tighten pan head screw, M6 x 12 (underside of sports tailpipe cover).

Tightening torque 8 Nm (5.9 ftlb.) +/-1 Nm (0.7 ftlb.)

4.6 Fit all covers to the underbody of the vehicle.

5 Concluding work for vehicle interior / engine compartment

5.1 Secure routed wire harness (engine sounds / exhaust flaps) to existing lines / components in the vehicle with tie-wraps without tensile stress and so that no chafing occurs.

5.2 Install firewall cover and install C-pillar trim panel. ⇒*Workshop Manual '706819 Removing and installing C-pillar trim panel (lower part)'*

5.3 Install side trim panel for trunk (left / right).

- Basic version: ⇒*Workshop Manual '700319 Removing and installing rear boot side trim panel'*
- Coupé: ⇒*Workshop Manual '700319 Removing and installing rear boot side trim panel'*

5.4 Install B-pillar trim panel (lower part). ⇒*Workshop Manual '706719 Removing and installing B-pillar trim panel (lower part)'*

5.5 Install A-pillar trim panel (lower part). ⇒*Workshop Manual '705719 Removing and installing A-pillar trim panel (lower part)'*

5.6 Installing the seat assembly

5.6.1 Carefully lift the front seat into the vehicle via the trunk and install it with a new cheese head bolt. ⇒*Workshop Manual '720119 Removing and installing front seat'*

5.6.2 Carefully lift the 2 / 3-split folding rear seat into the vehicle via the trunk and install it with a new cheese head bolt. ⇒*Workshop Manual '724819 Removing and installing rear seat'*

5.6.3 Install padding for rear seat surface (2 / 3-split folding rear seat) and if necessary, install with new fixing clip. ⇒*Workshop Manual '744919 Removing and installing padding for rear seat surface (2 / 3-split folding rear seat)'*

5.7 Complete the engine compartment / plenum panel area.

5.7.1 Install filler neck on windshield-washer reservoir. ⇒*Workshop Manual '926019 Removing and installing windscreen-washer reservoir'*

5.7.2 Install cowl panel cover. ⇒*Workshop Manual '508719 Removing and installing cowl panel cover'*

Coding: 6 Coding / programming sports exhaust system - silver (0P8) / dark bronze (0P9)

NOTICE

Voltage drop

- **Risk of irreparable damage to control unit**
- **Risk of damage to control unit**
- **Fault entries in the control unit**
- **Coding in the control unit is aborted**
- **Malfunctions in control unit, even during programming**

⇒ **Prior to disconnecting the control unit, switch off ignition and remove ignition key.**

⇒ **Ensure that the power supply is not interrupted during programming.**

⇒ **Connect a battery charger with a current rating of at least 90 A to the vehicle battery.**

6.1 Preparatory work – Coding

NOTICE

Control unit programming will be aborted if the WLAN connection is unstable.

- **An unstable WiFi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.**

⇒ **During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.**

6.1.1 Connect **P90999 - P90999 - PIWIS Tester 4** to the vehicle and switch it on.

6.1.2 Switch on ignition **AND** hazard warning lights on the vehicle.

Information

The **PIWIS Tester** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms. Different text or additional information may appear on the **PIWIS Tester**.

6.1.3 Select the “Diagnostics” menu item on the PIWIS Tester.

6.1.4 If **P90999 - P90999 - PIWIS Tester 4** is connected correctly, a connection to the vehicle will be established: “Cayenne” model line is detected.

6.1.5 Press F12 to go to the control unit search screen.

6.1.6 Question: “Should an FAP be created?” If “Yes”, press F12 to confirm.

6.1.7 Select "KD-FAP" in the next menu item and press F8 to start.

Information

The function is **ONLY** available when the Tester is online!

6.2 Enter the new vehicle equipment in the vehicle data using “PIWIS Online”

6.2.1 Press F7 in the control unit overview to switch to the “Additional menu”.

6.2.2 Select the “Maintain vehicle data with PIWIS-ONLINE” function.

A message appears informing you that the “Actual” (vehicle) data and “Required” (PIWIS Online) data will be compared.

Press F12 to continue.

6.2.3 Confirm the message “The vehicle data was compared with PIWIS Online. Significant differences were found with F12 .

6.2.4 Look for the option “INTERIOR SOUND MEASURES (VW SILENCERS)” in the “Family” column.

Select the option “2HB – INTERIOR SOUND MEASURES (SHAKER)” from the drop-down menu in the “Value” column.

6.2.5 Look for the option “EXHAUST TAILPIPE” in the “Family” column.

Select “0P8 – SPORTS EXHAUST SYSTEM – STAINLESS-STEEL TAILPIPES” or “0P9 – SPORTS EXHAUST SYSTEM – BLACK TAILPIPES” from the drop-down menu in the “Value” column, depending on the installed option.

Press F12 to continue.

6.2.6 A table containing the coding value and the columns “new value” and “old value” is displayed in the overview. Press F8 to continue.

6.2.7 Data is then written / saved. The following messages appear one after the other:

- Transferring vehicle data to PIWIS Online.
- Writing and transferring vehicle data to the vehicle.
- Vehicle order was written successfully.
- A check was performed in order to check whether control units have to be coded or programmed as a result of the changes that were made.

6.3 Code / program the new vehicle equipment.

6.3.1 Confirm the table containing a list of control units that must be coded / programmed, by pressing F12 .

6.3.2 Individual data records will be loaded, depending on the number of control units to be coded / programmed.

Wait until messages “Creating backup documentation.” Please wait ... and “Coding was completed successfully”. Press F12 to continue.

Repeat the process for other control units if necessary.

6.3.3 Wait for the “Adaptation of the control units is complete.” message and check the coding status of the control units in the displayed table.

Continue by pressing F12 to return to the control unit overview.

6.4 Read out the fault memory of all systems, work through any existing faults and erase the fault memory. ⇒ *Workshop Manual '0335IN Diagnostics maintenance: Diagnostic system and maintenance inter...'*

6.5 Switch off ignition and disconnect **P90999 - P90999 - PIWIS Tester 4**.

6.6 Drive the vehicle off the vehicle lift.

7 Perform “Sports exhaust system” function test

7.1 Start the engine.

7.2 Activate / deactivate the sports exhaust system, depending on vehicle equipment, using the following option:

- Porsche Communication Management: Select the menu “Car” → “Drive” → “Sports exhaust system”
- Porsche Communication Management: Select “SPORT” or “SPORT PLUS”

7.3 Switching off ignition

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26 01 31 00: **ONLY** for vehicles WITHOUT petrol particulate filter (PPF; emissions concept = 0GB / 7CE / 7GH / 7MM):

– Retrofitting sports exhaust system (1 x)– Labor time: **667 TU**

Includes: Install pulse sender and engine noise control unit;
Routing and connecting electric wire harnesses;
Install new exhaust pipe (WITHOUT PPF);
Install new center and rear silencers;
Install and align new sports tailpipes (4 x);
Code the sports exhaust system;
Read out fault memory, correct faults and delete them.

Without: Test drive