

Installation and Conversion Instructions

Cayenne (9YA)

2/26 ENU 2601

2

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.

Vehicle Type: **Cayenne E-Hybrid (9YA)/Cayenne E-Hybrid Coupé (9YB)/Cayenne S E-Hybrid (9YA)/Cayenne S E-Hybrid Coupé (9YB)** including the associated **Black Edition** variants

Model Year: **As of 2025**

Engine Type: **DCB** (basic engine – T91/DC5) = 3.0-liter V6 turbo engine

- **DCBG** = Cayenne E-Hybrid = 224 kW (304 hp)/system power 346 kW (470 hp)
- **DCBF** = Cayenne S E-Hybrid = 260 kW (353 hp)/system power = 382 kW (519 hp)

Restrictions: **ONLY** approved together with BOSE® Surround Sound System (9VL) or Burmester® 3D High-End Surround Sound System (9VJ)!

Cause: **Retrofitting**

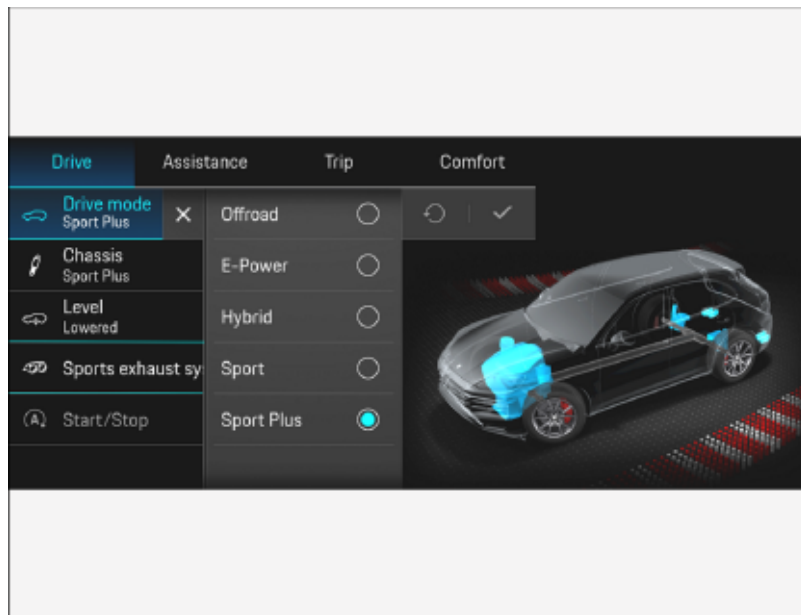


Figure 1

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. Among other factors, the driving state and accelerator pedal position are decisive.

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.

Engine power and exhaust behavior of the vehicle are not affected.

Under the individual equipment "OP8 - Sport exhaust system (tailpipe in silver)" or "OP9 - 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 = OGB/7CE/7GH/7MM):

9Y0.044.244¹

⇒ Sports exhaust system (OP8) – Tailpipe in silver–, set

9Y0.044.244.A

⇒ Sports exhaust system (OP9) – Tailpipe in dark bronze–, set

N.105.184.05²

1 x

⇒ Cheese-head screw with multiple-tooth socket head M8 x 30 – self-locking (universal joint for steering gear)

¹ **NOT** approved for Black Edition variants!

² Also order the following **IF** necessary!

Parts List:

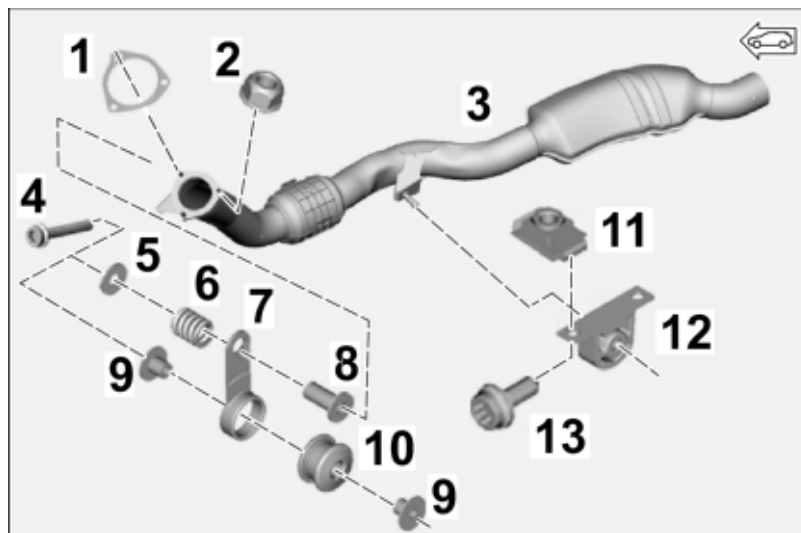


Figure 2

Scope of exhaust system – exhaust pipe area with front silencer (VSD) for vehicle WITHOUT PPF ⇒ *Figure 2*

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) ⇒ <i>Figure 2 -2-</i>
9Y0.253.301.G	1 x	Assembly (ASSY) exhaust pipe with front silencer (– PPF) ⇒ <i>Figure 2 -3-</i>
N.106.720.01	2 x	Cheese head bolt with multiple-tooth internal M8 x 50 (tab on exhaust pipe/transmission) ⇒ <i>Figure 2 -4-</i>
PAF.011.670.26	1 x	Washer 8.4 x 24 x 2 (tab on exhaust pipe) ⇒ <i>Figure 2 -5-</i>
PAB.253.353.00	1 x	Pressure spring (tab) ⇒ <i>Figure 2 -6-</i>
PAC.253.295	1 x	Tab AL552 ⇒ <i>Figure 2 -7-</i>
PAB.253.205.00	1 x	Spacer tube Ø 24 x 32 (upper tab) ⇒ <i>Figure 2 -8-</i>
PAB.253.205.A	2 x	Spacer tube Ø 30 x 16 (lower tab) ⇒ <i>Figure 2 -9-</i>
PAB.253.149	1 x	Rubber bush, Ø 42 x 29 (lower tab) ⇒ <i>Figure 2 -10-</i>
4H0.821.213	2 x	Speed nut 28 x 18 x 11 ⇒ <i>Figure 2 -11-</i>
PAB.253.099.00	1 x	Exhaust pipe holder with front silencer ⇒ <i>Figure 2 -12-</i>
N.107.367.01	2 x	Cheese head bolt with internal multiple-tooth socket M8 x 20 (exhaust pipe holder with front silencer) ⇒ <i>Figure 2 -13-</i>

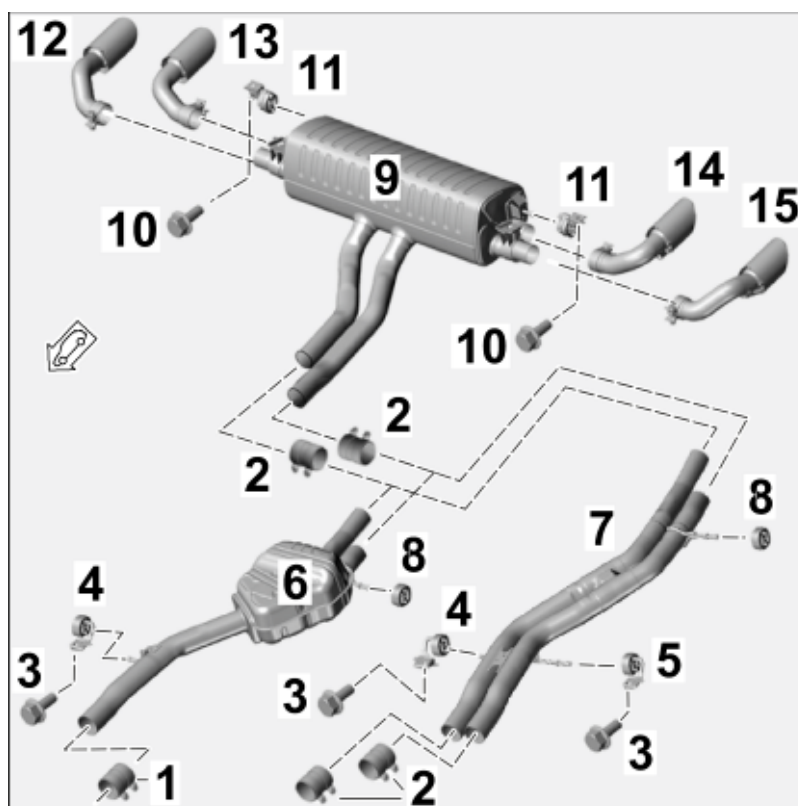


Figure 3

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

PAB.253.141.20 ³	1 x	Clamping sleeve, Ø 75 x 88 ⇒ <i>Figure 3 -1-</i>
958.111.220.10	2 x	Clamping sleeve, Ø 65 x 88 ⇒ <i>Figure 3 -2-</i>
N.106.978.01	1 x	Hexagon-head bolt, M10 x 30 ⇒ <i>Figure 3 -3-</i>
PAB.253.144.01	1 x	Holder for center silencer (MSD), front right ⇒ <i>Figure 3 -4-</i>
PAB.253.144.10	1 x	Holder for center silencer, front, left ⇒ <i>Figure 3 -5-</i>
PAB.253.409 ³	1 x	Center silencer assembly (MSD, –PPF) ⇒ <i>Figure 3 -6-</i>
9Y0.253.088.L	1 x	Center silencer assembly (+PPF) ⇒ <i>Figure 3 -7-</i>
PAB.253.147.00	1 x	Retaining ring for center silencer, rear left ⇒ <i>Figure 3 -8-</i>
9Y0.253.125.C	1 x	Rear silencer assembly ⇒ <i>Figure 3 -9-</i>
N.106.421.01	2 x	Hexagon-head bolt, M8 x 25 ⇒ <i>Figure 3 -10-</i>
PAB.253.144.03	2 x	Holder for rear silencer (NSD) ⇒ <i>Figure 3 -11-</i>
PAF.038.549	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	1 x	Sports tailpipe in silver, outer right ⇒ <i>Figure 3 -12-</i>
9Y0.253.824.DL	1 x	Sports tailpipe in silver, inner right ⇒ <i>Figure 3 -13-</i>
9Y0.253.823.EC	1 x	Sports tailpipe in silver, inner left ⇒ <i>Figure 3 -14-</i>
9Y0.253.823.DQ	1 x	Sports tailpipe in silver, outer left ⇒ <i>Figure 3 -15-</i>
9Y0.253.824.DH	1 x	Sports tailpipe in dark bronze, outer right (not shown)
9Y0.253.824.DM	1 x	Sports tailpipe in dark bronze, inner right (not shown)
9Y0.253.823.ED	1 x	Sports tailpipe in dark bronze, inner left (not shown)
9Y0.253.823.DT	1 x	Sports tailpipe in dark bronze, outer left (not shown)

³ **ONLY** contained in set for vehicles WITHOUT PPF (9Y0.044.244/9Y0.044.244.A). **ONLY** contained in respective set.



Figure 4

Scope of electrical system – exhaust flaps and interior mechanism area (⇒ Figure 4):

9Y0.044.210.A	1 x	Wire harness assembly for exhaust flaps ⇒ Figure 4 -1-
— — — ⁴	1 x	Grommet (internal Ø 66.5 – left side) ⇒ Figure 4 -2-
— — — ⁴	1 x	Grommet (internal Ø 46 – right side) ⇒ Figure 4 -3-
— — — ⁴	1 x	Corrugated hose, 4.5 x 7.6 x 220 ⇒ Figure 4 -4-
— — — ⁴	1 x	Corrugated hose, 4.5 x 7.6 x 230 (not shown)
— — — ⁴	2 x	Plug socket (4-pin) ⇒ Figure 4 -5-
— — — ⁴	2 x	15-A fuse (not shown)
N.912.052.01	4 x	Cheese head bolt with internal multiple-tooth socket M10 x 35 (front seat) ⇒ Figure 4 -6-
N.106.622.01	20 x	Tie-wrap 4.6 x 377 (not shown)
999.513.052.40	10 x	Tie-wrap 4.8 x 188 (not shown)

⁴ Contained in the “Wire harness assembly for exhaust flaps (9Y0.044.210.A)” set.

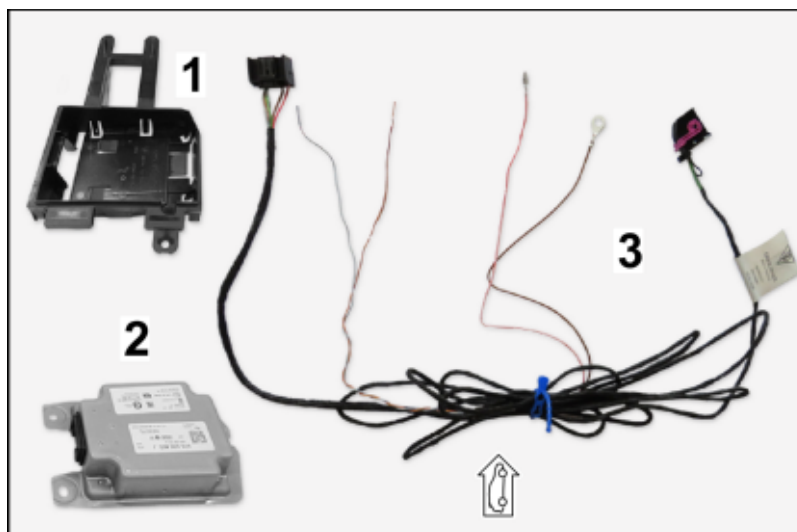


Figure 5

Scope of electrics – engine noise area (interior sound ⇒ Figure 5):

9Y0.907.113	1 x	Holder for engine noise control unit (interior sound) ⇒ Figure 5 -1-
976.035.465.J	1 x	Engine noise control unit (interior sound, 2HD) ⇒ Figure 5 -2-
— — —	1 x	ASSY wire harness for engine noise (interior sound) ⇒ Figure 5 -3-
PAF.015.082	1 x	Hexagon collar nut M6 (not shown)



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 / 59.05 in long

Tools:	P90999 - P90999 - PIWIS Tester 4
	VAS 6935 - Pole terminal puller
	VAS 6931A - Transmission and engine jack
	V.A.G 1331A - Torque wrench 6-50 Nm (4.5-37 ftlb.)

Installing: 1 Preparatory work

- 1.1 Drive the vehicle onto a lifting platform and connect a battery charger. ⇒ *Workshop Manual '2X00INC8 Battery trickle charge'*
- 1.2 Expose the sill area (left) in the passenger compartment

**Information**

The help of another person is required for this step.

- 1.2.1 Remove (left) front seat. ⇒ *Workshop Manual '720119A6 Remove and install front seat'*
- 1.2.2 Remove the lower part of the A-pillar trim panel (left). ⇒ *Workshop Manual '705719A5 Removing and installing A-pillar trim panel (lower part)'*
- 1.2.3 Remove the lower part of the B-pillar trim panel (left). ⇒ *Workshop Manual '706719A4 Removing and installing B-pillar trim panel (lower part)'*
- 1.2.4 Remove side trim panel for luggage compartment (left/right).
 - Basic version: ⇒ *Workshop Manual '700319A4 Removing and installing side trim panel for rear luggage compartment'*
 - Coupé: ⇒ *Workshop Manual '700319A4 Removing and installing side trim panel for rear luggage compartment'*
- 1.2.5 Remove the lower part of the C-pillar trim panel (left). ⇒ *Workshop Manual '706819A2 Remove and install C-pillar trim panel (lower part)'*

**Hot components**

- **Risk of burns**

⇒ **Let hot components cool down.**

⇒ **Wear personal protective gear.**

- 1.3 **ONLY** for vehicles WITHOUT petrol particulate filter (PPF; emissions concept = OGB/7CE/7GH/7MM):
 - 1.3.1 Remove the engine cover (design cover). ⇒ *Workshop Manual '108319 Removing and installing engine cover - T9I'*
 - 1.3.2 Remove air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing - T9I, TB5'*
 - 1.3.3 Remove the exhaust pipe with front silencer. ⇒ *Workshop Manual '267319 Removing and installing catalytic converter'*

1.4 Raise the vehicle. ⇒ Workshop Manual '4X00INE2 Raising the vehicle'

CAUTION

Hot components

- Risk of burns

⇒ Let hot components cool down.

⇒ Wear personal protective gear.

1.5 Work in the exhaust system area

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

1.5.1 Remove the rear underbody cover and rear tunnel cover (⇒ Figure 9 -1 and 2-). ⇒ Workshop Manual '519419 Removing and installing rear underbody cover'

1.5.2 Remove the front underbody cover (rear section) (⇒ Figure 9 -3-). ⇒ Workshop Manual '51921900 Removing and installing front underbody cover'

1.5.3 Remove the tailpipe (left/right) (⇒ Figure 9 -4-). ⇒ Workshop Manual '263419 Removing and installing tailpipe - T9I'

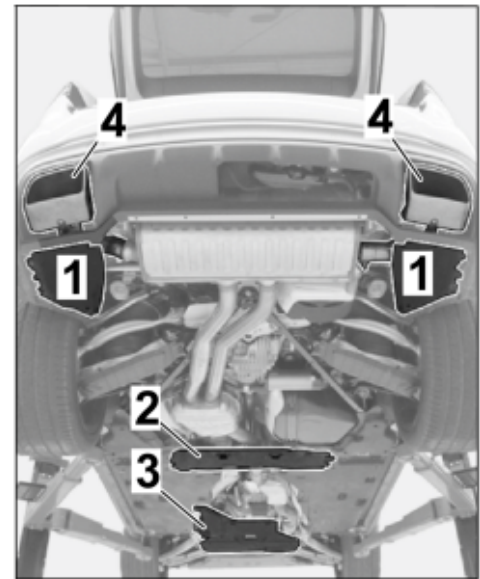


Figure 9

CAUTION

Heavy components

- Risk of squashing

⇒ Wear personal protective gear.

⇒ Get someone to help if necessary.

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



Information

Route electric wire harness along existing wiring, if installed.

Make sure that safety components (airbags, etc.) are still working correctly!

2 Installing and connecting engine noise control unit (CU) (interior sound)

- Course of wire harness for engine noise (interior sound) in luggage compartment ⇒ *Figure 10*

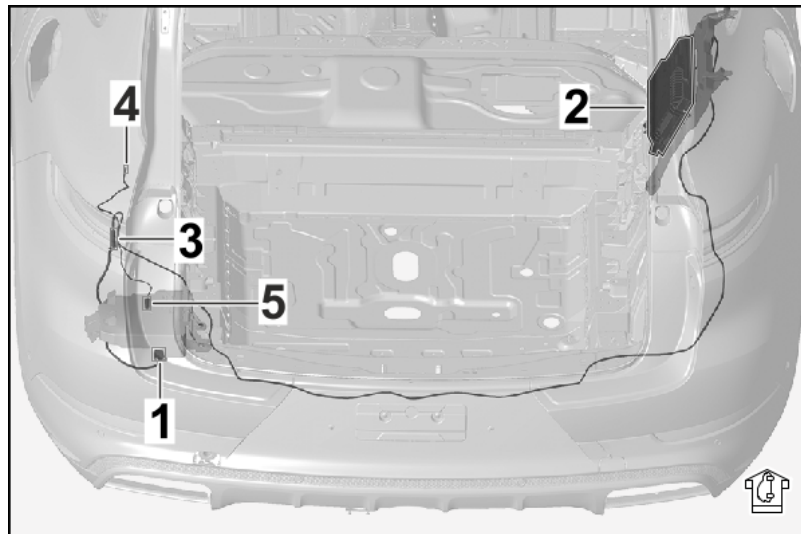


Figure 10

- 1 – Engine noise control unit (2HD)
 - 2 – BOSE (9VL) or Burmester (9VJ) amplifier
 - 3 – Main wiring harness splice (TirePressureMonitor control unit - TPM/7K3)
 - 4 – Ground pin MB25
 - 5 – Fuse holder C
- Wiring diagram for engine noise wire harness, see also ⇒ Wiring Diagram for loudspeaker sheet 1, area of interior sound

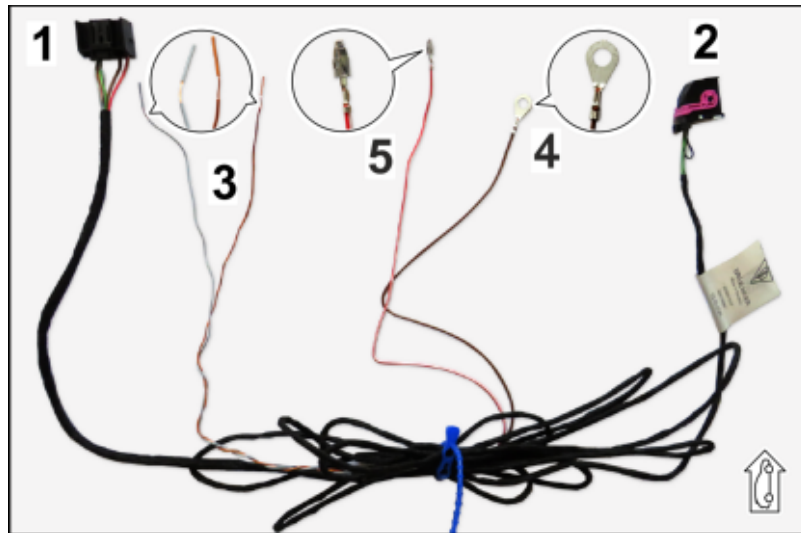


Figure 11

- 1 – Connector for engine noise control unit (2HD)
- 2 – Connector for BOSE amplifier (9VL)
- 3 – CAN lines
- 4 – Cable ring eyelet A6
- 5 – Spring contact

Item ⇒ Figure 11	Naming (function)	Work Procedure
1	Connector - 16-pin / J1167.3	Plug-in connection ⇒ engine noise control unit (2HD)
2	Connector - 18-pin / R184.2 (LS Plus/minus)	Plug connection ⇒ Bose amplifier (9VL) ONLY for Burmester (9VJ): Unpin lines GR/BKHW; 0.35 ² (speaker, plus) and GN; 0.35 ² (speaker, minus) Insert lines into connector B, Burmester (9VJ) as follows: - GR/BK; 0.35 ² (speaker, plus) ⇒ chamber 23 - GN; 0.35 ² (speaker, minus) ⇒ chamber 31
3	CAN lines (Extended High & Low)	OR/BN; 0.35 ² (CAN Ex Low) ⇒ Splice OR/BN; 0.35 ² TPM control unit (7K3) GR; 0.35 ² (CAN Ex High) ⇒ GR splice; 0.35 ² TPM control unit (7K3)

4	Cable ring eyelet A6 (earth)	BN; 0.75 ² (terminal 31) with cable ring eyelet A6 ⇒ earth pin MB25
5	Spring contact (voltage)	RD/WH; 0.75 ² (terminal 30) with spring contact ⇒ fuse holder C (brown), chamber 7

- 2.1 Loosen retaining frame fuse box in the luggage compartment. ⇒ *Figure 12 ⇒ Workshop Manual '978409A8 Loosening and securing fuse box in the luggage compartment'*

- 1 – Retaining frame fuse box
- 2 – Holder for rear-end electronics control unit

- 2.2 Loosen holder with rear-end electronics control unit. ⇒ *Figure 12 ⇒ Workshop Manual '578919A2 Remove and install control unit for rear-end electronics'*

- 2.3 Installing engine noise control unit ⇒ *Figure 13*

- 1 – Engine noise control unit
- 2 – Holder
- 3 – Connector (16-pin) – Wire harness for engine noise

- 2.3.1 Push control unit into holder and lock. ⇒ *Figure 13 -A and B-*

- 2.3.2 Establish a plug connection (16-pin) between the wire harness for engine noise / engine noise control unit. ⇒ *Figure 13 -C-*

- 2.3.3 Fit holder with engine noise control unit to body. ⇒ *Figure 13 -D-*

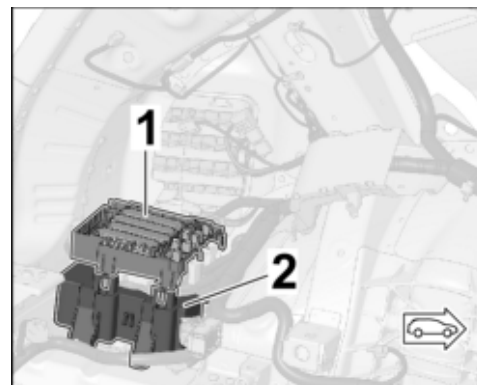


Figure 12

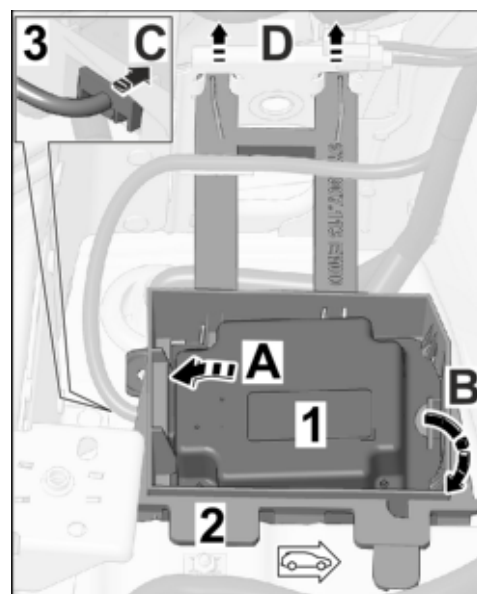


Figure 13

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.**

2.4 Amplifier connection for BOSE® Surround Sound System (9VL) or Burmester® 3D High-End Surround Sound System (9VJ)

2.4.1 Lay branch for amplifier connection with connector (18-pin⇒ *Figure 11 -2-*) from the engine noise control unit along existing lines on the rear-end plate to the amplifier (9VL/9VJ). ⇒ *Figure 10*

2.4.2 **ONLY** for BOSE sound system (9VL):
Insert connector (18-pin) into a free slot on the amplifier and lock it.
⇒ *Figure 14*

- 1 – Connector (18-pin)
- 2 – Amplifier branch
- 3 – BOSE amplifier (9VL)

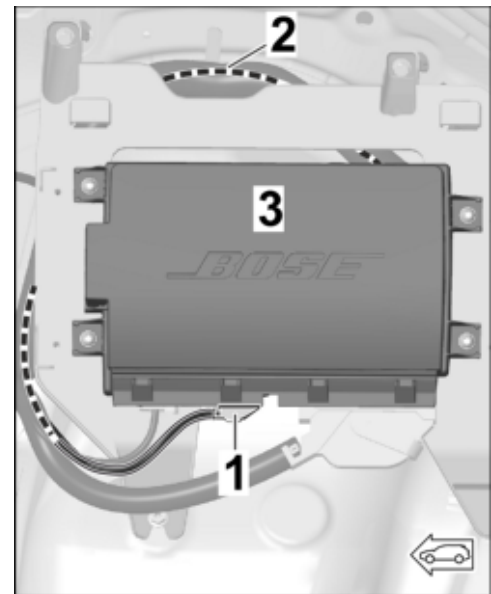


Figure 14

2.4.3 **ONLY** for Burmester sound system (9VJ): ⇒ *Figure 15*

- 1 – Connector B (38-pin)
- 2 – Amplifier branch
- 3 – Burmester amplifier (9VJ)

Disconnect plug connection B (38-pin) to the Burmester amplifier. ⇒ *Figure 15 -1-*

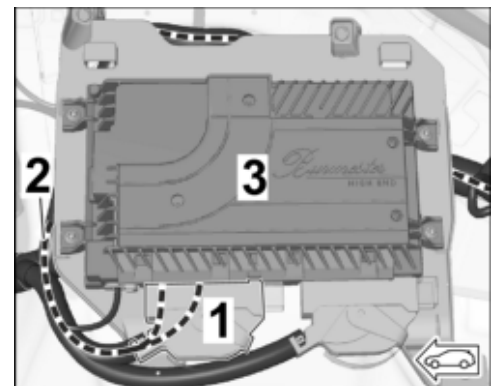


Figure 15

Release connector B (38-pin) and remove and release contact strip (16-pin). ⇒ *Figure 16 -2-*

- 1 – Connector B (38-pin)
- 2 – Connector (16-pin)
- 3 – Connector (18-pin) – Motor noise wire harness
- 4 – Speaker lines (minus/plus)

Release connector (18-pin, wire harness for engine noise) and carefully unpin lines GR/BKWH; 0.35² and GN; 0.35². ⇒ *Figure 16 -A-*

Connector is no longer needed.

Insert pin contacts into connector (16-pin) as follows: ⇒ *Figure 16 -B-*

- Line GR/BK; 0.35² (speaker, plus) ⇒ chamber 23
- Line GN; 0.35² (speaker, minus) ⇒ chamber 31

Refit connector B in reverse order.

2.5 Connection of CAN signals High/Low

2.5.1 Carefully remove top of the winding of the wire harness in the rear left wheel housing cable duct (luggage compartment) area. ⇒ *Figure 17*

- 1 – Wire harness winding
- 2 – Twisted CAN lines (TPM control unit/7K3)
- 3 – Rear left wheel housing cable duct

2.5.2 Carefully expose twisted CAN lines OR/BN; 0.35² (CAN Low) and GR; 0.35² (CAN High) to the TirePressureMonitor control unit (TPM, 7K3). ⇒ *Figure 17 -2-*

2.5.3 Carry out electrical continuity test using **9900/ET 420 - measuring technology for PIWIS Tester 3 & 4** to the Tire Pressure Monitor control unit (7K3).

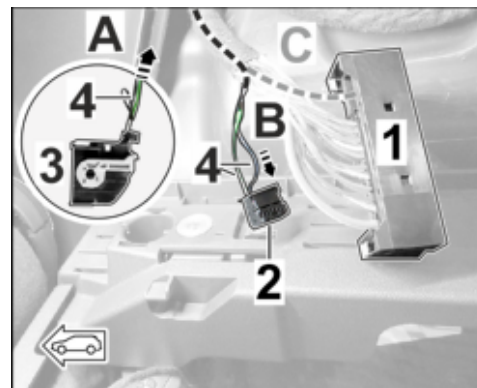


Figure 16

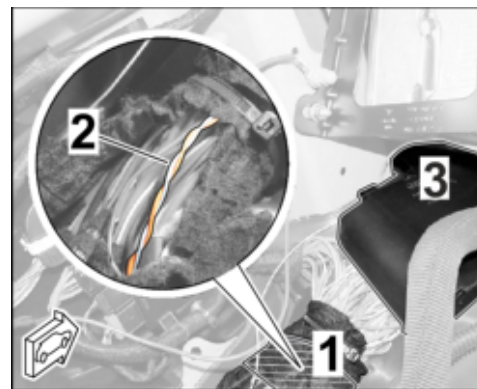


Figure 17

2.5.4 Establish splice connections to CAN lines (TPM control unit): ⇒ *Figure 18*

- 1 – Twisted CAN lines (Tire pressure monitor control unit)
- 2 – CAN lines wire harness for engine noise
- 3 – Shrink-fit hose

- Pull out fuse F6 on fuse holder C (brown).
- Disconnect lines OR/BN; 0.35² (CAN Low) and GR; 0.35² (TPM control unit).
- Attach shrink-fit hose to one end at a time.
- Crimp lines OR/BN; 0.35² (CAN Low) and GR; 0.35² (CAN High) from wire harness for engine noise (internal sound) to the corresponding line in the standard wiring harness with one insulated cable connection each as a splice.
- Slide shrink-fit hose over the splice connection and shrink the hose to make it water-tight using a hot-air gun.
- Function test: Insert fuse F6 on fuse holder C (brown) and measure again.

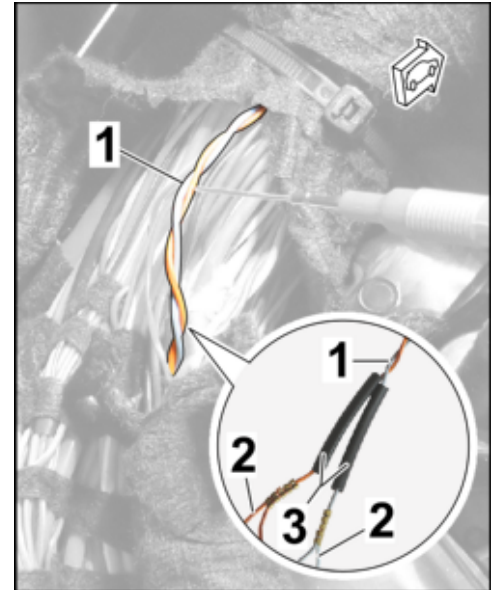


Figure 18

2.6 Earth connection (terminal 31) ⇒ *Figure 19*

2.6.1 Route line BN; 0.75² (terminal 31) to earth bolt MB25.

2.6.2 Install cable ring eyelet A6 on earth bolt MB25.

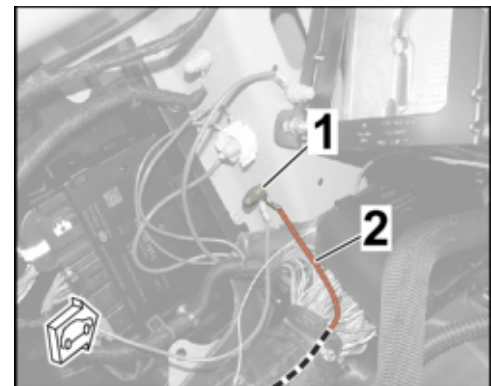


Figure 19

2.7 Power supply connection (terminal 30)

⇒ Figure 20

- 1 – Line RD/WH; 0.75² (terminal 30)
- 2 – Fuse holder C (brown)

2.7.1 Route line RD/WH; 0.75² (terminal 30) to fuse holder C (brown).

2.7.2 Release fuse holder C (brown) and insert pin in chamber 7.

2.7.3 Lock fuse holder C (brown) and install it in the fuse holder.

2.7.4 Secure slot C7 in fuse strip C (engine noise) with new fuse.

Fuse: **Target value 7.5 A**

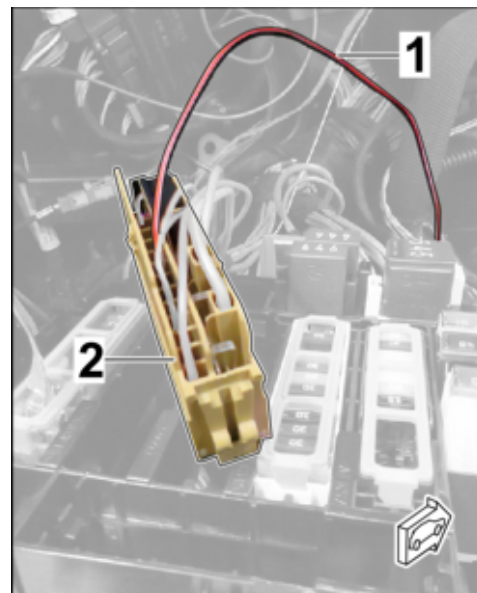


Figure 20

3 Routing and connecting wire harness for exhaust flaps

Connections for wire harness for exhaust flaps

(⇒ Figure 21):

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

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

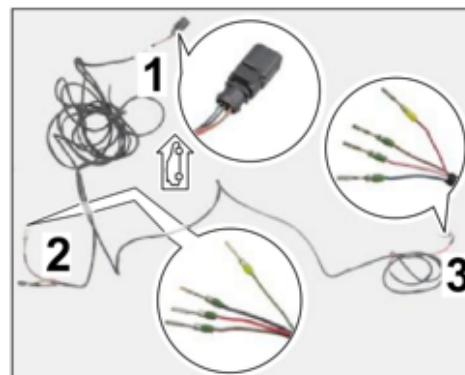


Figure 21

- 3.1.1 Expose the connection point (preparation = socket connector, 6-pin) or plug connection in the passenger compartment of the vehicle, area of bulkhead grommet, A-pillar left. ⇒ *Figure 22 (similar) -A-*

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

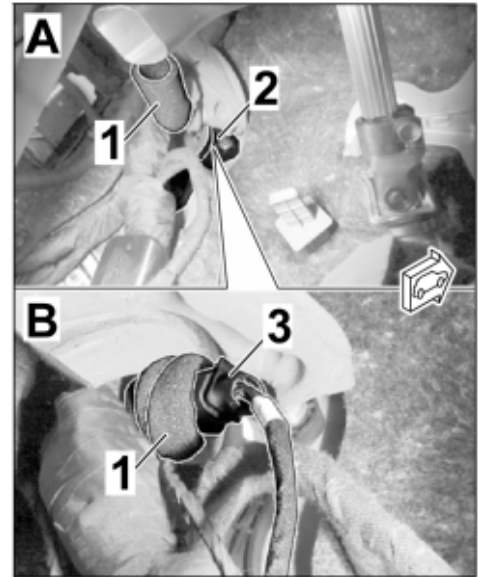


Figure 22 (similar)

- 3.1.2 Push the foam preparation (socket connector, 6-pin) onto the line on the vehicle side and separate any plug connections.

- 3.1.3 Establish plug connection with wire harness for the exhaust flaps (6-pin). ⇒ *Figure 22 (similar) -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 23*):

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

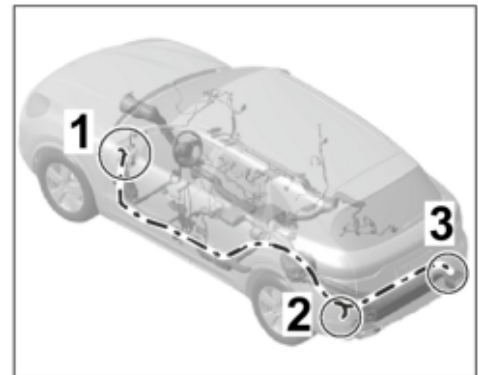


Figure 23

3.2.1 A-pillar area, left (⇒ Figure 24)

- 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

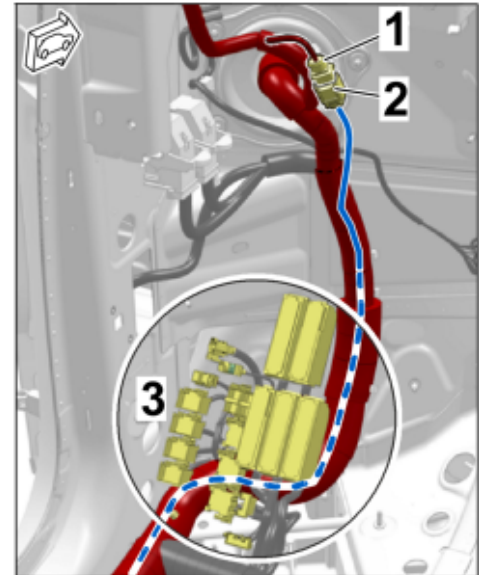


Figure 24

3.2.2 Door sill area, left (⇒ Figure 25)

- 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

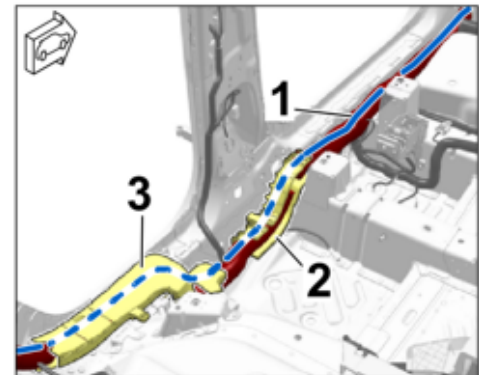


Figure 25

3.2.3 Wheel housing area. left (⇒ Figure 26)

- 1 – Cable duct, rear door sill area (left)
- 2 – Cable duct, rear wheel housing area (left)
- 3 – Fuse box in boot (left)
- 4 – Grommet/stopper for boot floor, left (Ø 66.5 mm / 2.61 in)
- 5 – Branch for exhaust flap, right side

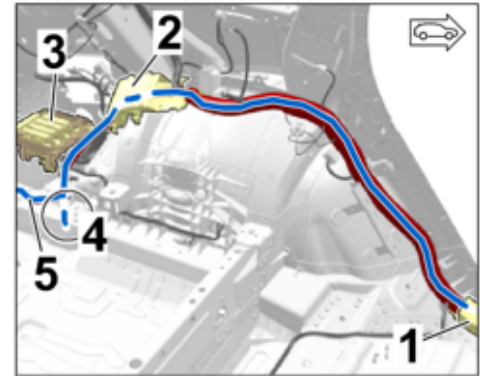


Figure 26

- Door sill, left → above wheel housing, left → branch for exhaust flap (left) to grommet/stopper for boot 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 boot floor (⇒ Figure 27)

- 1 – Branch for exhaust flap (left)
- 2 – Branch for exhaust flap (right)
- 3 – Fuse box in boot (left)
- 4 – Grommet/stopper for boot floor, left (Ø 66.5 mm / 2.61 in)
- 5 – Grommet/stopper for boot floor, right (Ø 46 mm / 1.81 in)

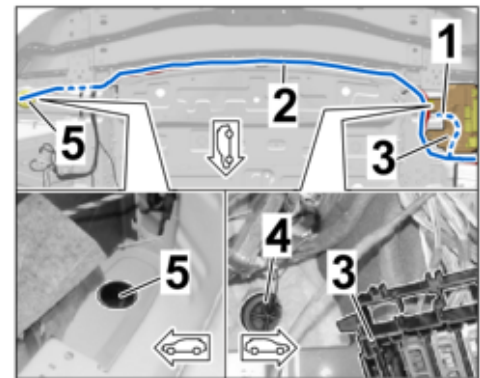


Figure 27

- Branch for exhaust flap (left) to grommet/stopper for boot floor, left (beneath fuse box in boot (left) → branch for exhaust flap on the right to rear closing panel → along rear closing panel (⇒ Figure 27 -top-) → grommet/stopper for boot 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 boot and swivel it aside (⇒ Figure 28). ⇒ Workshop Manual '978409 Loosening and securing fuse box in the boot'

- 1 – Fuse box with holder
- 2 – Grommet (left = Ø 66.5 mm / 2.61 in)

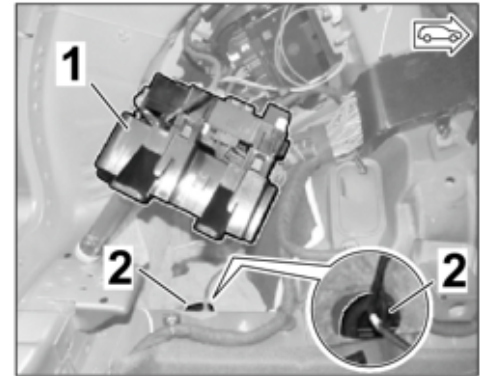


Figure 28

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

- 3.3.3 Remove the stoppers in the boot floor (left = Ø 66.5 mm (2.61 in) / right = Ø 46 mm (1.81 in)). 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 29):

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

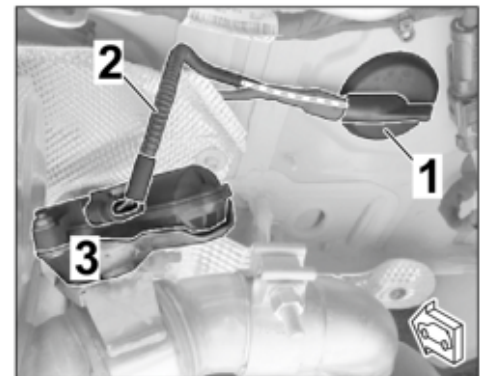


Figure 29

- 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 ($\Rightarrow$ Figure 30) **CAREFULLY** to the underside of the grommet.

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

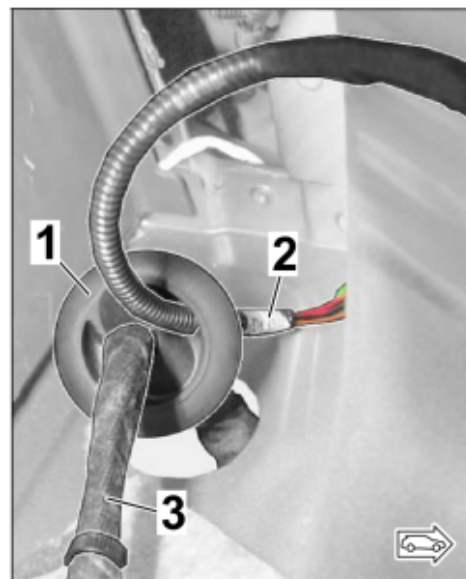


Figure 30

3.3.5 **ONLY** if a grommet is fitted 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 = $\varnothing$ 66.5 mm (2.61 in) / right = $\varnothing$ 46 mm (1.81 in), see scope of parts) (see also 3.3.6).

3.3.6 **ONLY** if stopper (left = $\varnothing$ 66.5 mm (2.61 in) / right = $\varnothing$ 46 mm (1.81 in)) is fitted:

- Remove the stoppers (left = $\varnothing$ 66.5 mm (2.61 in) / right = $\varnothing$ 46 mm (1.81 in)).
- Use a new grommet (left = $\varnothing$ 66.5 mm (2.61 in) / right = $\varnothing$ 46 mm (1.81 in), 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 = $\varnothing$ 66.5 mm (2.61 in) / right = $\varnothing$ 46 mm (1.81 in) $\Rightarrow$ Figure 31) using three mandrel pliers and an auxiliary line (Tekalan or Teflon tube).

- 1 – Three mandrel pliers
- 2 – Grommet, right ($\varnothing$ 46 mm (1.81 in))

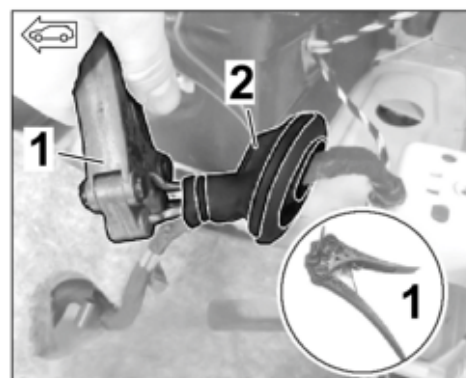


Figure 31

3.4 Fitting the socket housing on the exhaust flap branch

3.4.1 Release the socket housing (4-pin, see parts list). ⇒ Figure 32 -A-

- 1 – Fuse
- 2 – Plug socket (4-pin)

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:

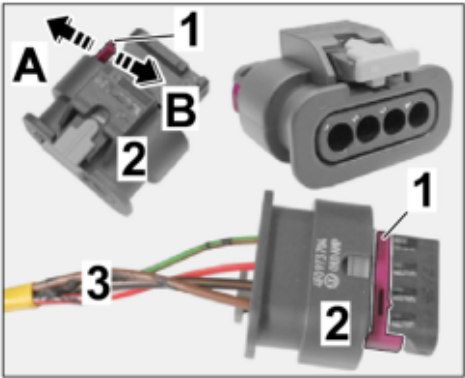


Figure 32

Plug socket (4-pin)	Line/function
Chamber 1	BN; 0.5 ² = Terminal 31 (ground)
Chamber 2	BKWH/BN; 0.75 ² = Pulse Width Module (PWM)
Chamber 3	RT/WS; 0.5 ² = Terminal 87 (power supply, fuse)
Chamber 4	GN/RD; 0.35 ² = Pulse Width Module out (PWM)

- Right exhaust flap:

Plug socket (4-pin)	Line/function
Chamber 1	BN; 0.5 ² = Terminal 31 (ground)
Chamber 2	BKWH/BL; 0.5 ² = Pulse Width Module (PWM)
Chamber 3	RT/WS; 0.5 ² = Terminal 87 (power supply, fuse)
Chamber 4	RD/BKWH; 0.35 ² = Pulse Width Module out (PWM)

3.4.3 Lock the socket housing (4-pin, see parts list). ⇒ Figure 32 -B-

3.4.4 Wrap cables (4 x) with insulating tape from a distance of approx. 30 mm (1.18 in) from the connector (socket housing 4-pin) as far as the underbody.

- 3.4.5 Install corrugated hose 4.5 x 7.6 x X to each branch from a distance of approx. 30 mm (1.18 in) from the connector (socket housing 4-pin) to the underbody. ⇒ *Figure 33*

- 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 (1.18)

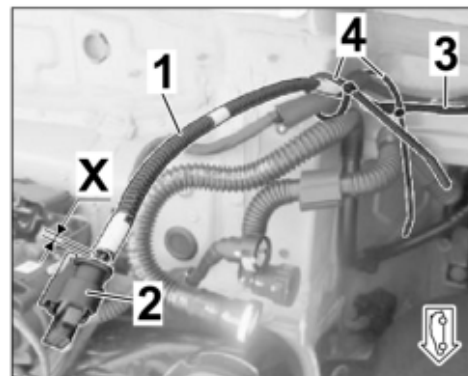


Figure 33

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

- 3.5 Secure holder with rear-end electronics control unit to engine noise control unit. ⇒ *Figure 34 -3 & 4-* ⇒ *Workshop Manual '578919A2 Remove and install control unit for rear-end electronics'*

- 1** – Holder for engine noise control unit
- 2** – Engine noise control unit
- 3** – Rear-end electronics control unit
- 4** – Holder for rear-end electronics control unit
- 5** – Retaining frame fuse box

Secure retaining frame for fuse box to rear-end electronics control unit holder. ⇒ *Figure 34 -5-* ⇒ *Workshop Manual '978409A8 Loosening and securing fuse box in the luggage compartment'*

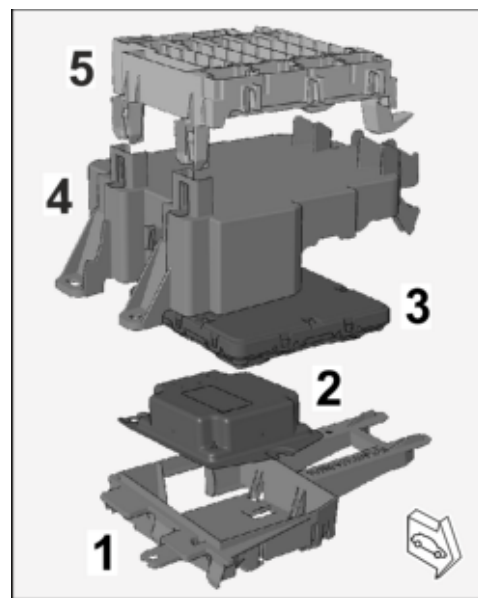


Figure 34

- 3.6 Check the fuse assignment of exhaust flaps and engine sound pulse generator in the fuse box (left A-pillar footwell ⇒ *Figure 35 (similar)*).

1 – Fuse strip A

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**



Figure 35 (similar)

4 Installing the new exhaust system

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

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

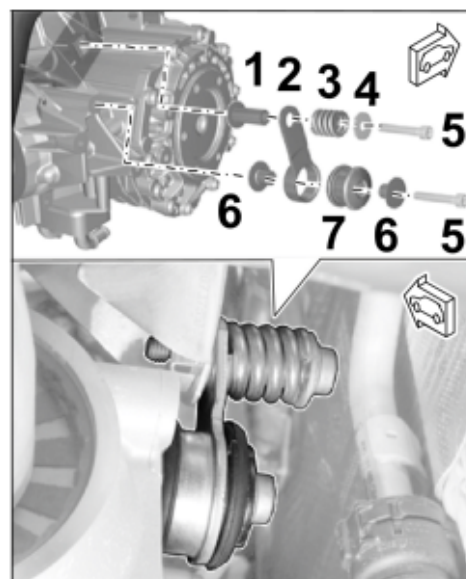


Figure 36

- 4.1.1 Install exhaust pipe with front silencer. ⇒ *Workshop Manual '267319 Removing and installing catalytic converter'*

Install new exhaust pipe with a new seal and new spring/tab assembly (⇒ *Figure 36*).

Secure exhaust pipe on the transmission support using restraining strap or suchlike for securing loads, 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 $\varnothing 75 \times 88$ (1 x – vehicle WITHOUT PPF = 0GB/7CE/7GH/7MM).

- 1 – Clamping sleeve, $\varnothing 75 \times 88$
- 2 – Holder for front center silencer, right
- 3 – Center silencer (WITHOUT PPF)
- 4 – Center silencer retaining ring
- 5 – Clamping sleeve $\varnothing 65 \times 88$
- 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 $\varnothing 65 \times 88 / \varnothing 75 \times 88$: **Tightening torque 30 Nm (22.1 ftlb.)**

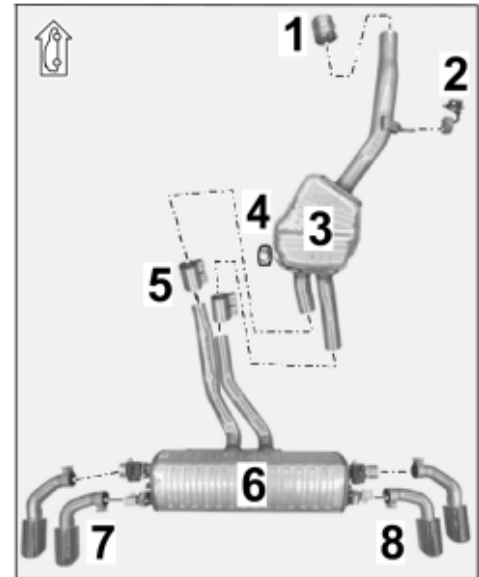


Figure 37

- 4.3 Install new rear silencer with a new clamping sleeve $\varnothing 65 \times 88$ (2 x). $\Rightarrow$ Workshop Manual '263355 Replacing the rear silencer'

- Hexagon flange bolt M8 x 25 (rear silencer holder): **Tightening torque 23 Nm (17 ftlb.)**
- Clamping sleeve $\varnothing 65 \times 88$: **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 (OP3)/dark bronze (OP6)'*

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

- 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 and adjust if necessary.

⇒ *Figure 38 -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 38 -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 Install all covers to the underbody of the vehicle.

- 5 Concluding work for vehicle interior/engine compartment



Information

Route electric wire harness along existing wiring, if installed.

Make sure that safety components (airbags, etc.) are still working correctly!

- 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 the lower part of the C-pillar trim panel (left). ⇒ *Workshop Manual '706819A2 Removing and installing C-pillar trim panel (lower part)'*
- 5.3 Install side trim panel for boot (left/right).
 - Basic version: ⇒ *Workshop Manual '700319A4 Removing and installing side trim panel for rear luggage compartment'*
 - Coupé: ⇒ *Workshop Manual '700319A4 Removing and installing side trim panel for rear luggage compartment'*

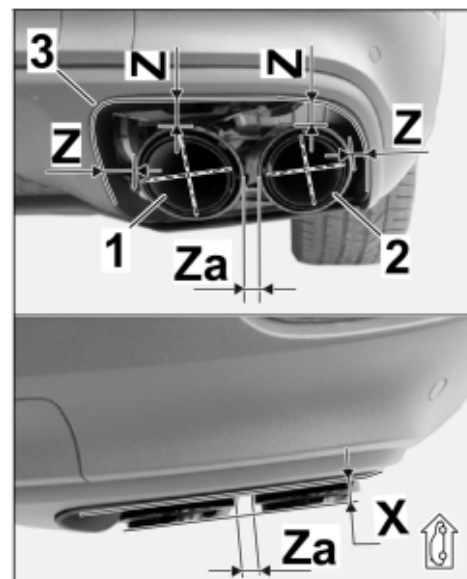


Figure 38

- 5.4 Install the lower part of the B-pillar trim panel (left). ⇒ *Workshop Manual '706719A4 Removing and installing B-pillar trim panel (lower part)'*
- 5.5 Install the lower part of the A-pillar trim panel (left). ⇒ *Workshop Manual '705719A5 Removing and installing A-pillar trim panel (lower part)'*
- 5.6 Install front seat (left) ⇒ *Workshop Manual '720119A6 Removing and installing front seat'*

Coding: 6 Coding / programming sports exhaust system - silver (OP8) / dark bronze (OP9)

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 VAL be created?" If "Yes", press **F12** to confirm.
- 6.1.7 Select "KD-VAL" 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 "2HD – INTERIOR SOUND INFOTAINMENT (PASD-R)" from the drop-down menu in the "Value" column.
- 6.2.5 Look for the option "EXHAUST TAILPIPE" in the "Family" column.
- Select "OP8 – SPORTS EXHAUST SYSTEM – STAINLESS-STEEL TAILPIPES" or "OP9 – 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 '033500A3 Fault memory for on-board diagnosis'*

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

6.6 Drive the vehicle off the lifting platform.

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

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

– Sports exhaust system (1 x) retrofitted –

Labor time: **530 TU**

Includes: Install the engine noise control unit;
Route and connect electric wire harnesses for exhaust flaps, engine noise.
Install new exhaust pipe with front silencer (WITHOUT PPF);
Install new center and rear silencers;
Install and align new sports tailpipes (4 pcs);
Code the sports exhaust system;
Read out the fault memory, correct faults and delete them.

Without: Test drive

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