

Sports Exhaust System - Silver (OP8) / Black (OP9)

Change
Overview:

Release	Date	Change
1	08/02/2022	▪ First publication
2	12/20/2022	▪ Update of part numbers and installation
3	02/25/2025	▪ Update of tools to PIWIS Tester 4

Model Year: **As of 2022**

Vehicle Type: **Macan / Macan T**

Engine Type: **DMT** (basic engine) = R4 / 2.0 liter / 195 kW (265 hp)
 ▪ **DMTB** with performance class **D3Q** = 195 kW (265 hp)

Restrictions: **ONLY** approved for vehicles produced from 49/2021 (week/year)!
ONLY Macan T: Sports exhaust system – tailpipe in silver chrome-plated look– (OP8) is not approved!

Cause: **Retrofitting**



Information

ONLY for markets in which new vehicles are certified in accordance with the Worldwide Harmonised Light Vehicles Test Procedure (WLTP): Retrofitting of components **BEFORE** the date of first registration of the vehicle is not permitted!

Background:

Technical modifications (additions/conversions) made between the vehicle delivery date (reference point for creation of the Certificate of Conformity (CoC) document) and the date of first registration can render the CoC document and the actual vehicle configuration inconsistent, thereby failing to comply with the requirement for WLTP certification.



Figure 1

Notes:

In the sports exhaust system, the signal for activating the flaps in the rear silencers comes from the respective current map in the DME control unit (DME SG). This depends on the driving status and the accelerator pedal position among other things.

The sports exhaust system can be activated and deactivated separately using the new "Twin tailpipe" button (center console control panel ⇒ *Figure 1*) or the standard "Sport" button. The sports exhaust system is active in "Sport" and "Sport Plus" modes on vehicles with Sport Chrono Package.

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

Under the individual equipment "OP8 - Sport exhaust system incl. sport tailpipes silver" or "OP9 - Sport exhaust system incl. sport tailpipes black", the sport exhaust system is also available ex works for new Macan Basic vehicles. Only the "OP9 – Sports exhaust system including sports tailpipes in black" can be ordered straight from the factory for the Macan T.

Parts Info:

95B.044.220¹

⇒ Sports exhaust system – Tailpipe in Silver chrome-plated look, set

95B.044.220.A

⇒ Sports exhaust system – Tailpipe in Black chrome-plated look, set

¹ **NOT** approved for Macan T!

Parts List:

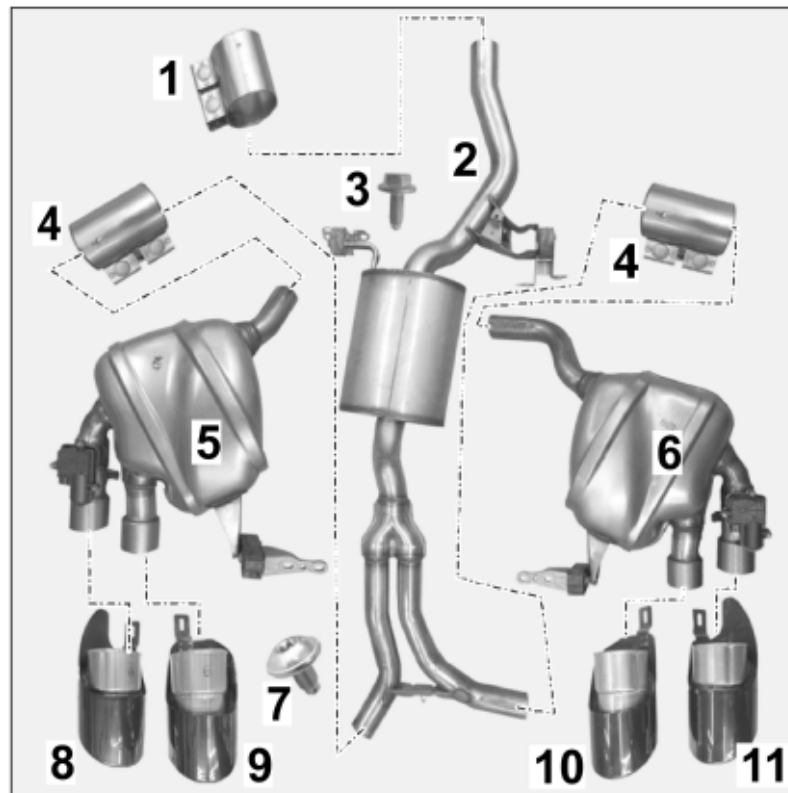


Figure 2

Parts included for exhaust system (⇒ Figure 2):

958.111.220.10	1 x	Clamping sleeve, Ø 65 x 88 ⇒ Figure 2 -1-
95B.253.435.AY	1 x	Center silencer assembly ⇒ Figure 2 -2-
N.106.620.01	4 x	Hexagon-head shoulder bolt M8 x 40 (⇒ Figure 2 -3-
958.111.220.20	2 x	Clamping sleeve, Ø 55 x 88 ⇒ Figure 2 -4-
95B.253.601.CY	1 x	Rear silencer assembly – left ⇒ Figure 2 -5-
95B.253.600.BY	1 x	Rear silencer assembly – right ⇒ Figure 2 -6-
9A7.008.019.00	4 x	Countersunk screw, M6 x 12 PA ⇒ Figure 2 -7-
95B.253.681.R ²	1 x	Sports tailpipe, black chrome-plated, outer left ⇒ Figure 2 -8-
95B.253.681.Q ²	1 x	Sports tailpipe, black chrome-plated, inner left ⇒ Figure 2 -9-
95B.253.682.Q ²	1 x	Sports tailpipe, black chrome-plated, inner right ⇒ Figure 2 -10-
95B.253.682.R ²	1 x	Sports tailpipe, black chrome-plated, outer right ⇒ Figure 2 -11-
95B.253.681.P ²	1 x	Sports tailpipe, silver chrome-plated, outer left (not shown)
95B.253.682.N ²	1 x	Sports tailpipe, silver chrome-plated, inner left (not shown)
95B.253.682.N ²	1 x	Sports tailpipe, silver chrome-plated, inner right (not shown)
95B.253.682.P ²	1 x	Sports tailpipe, silver chrome-plated, outer right (not shown)

² **ONLY** contained in respective set.



Figure 3

Parts included for electrical system (⇒ Figure 3):

95B.907.159.M	1 x	Engine noise control unit ⇒ Figure 3 -1-
999.076.081.40	2 x	Hexagon collar nut, T5/16 x 11.2 (plastic) ⇒ Figure 3 -2-
4H0.907.601.E	1 x	Engine noise pulse sender ⇒ Figure 3 -3-
N.908.877.03	1 x	M6 hexagon collar nut, self-locking ⇒ Figure 3 -4-
95B.044.200.25	1 x	Wire harness for engine noise control unit/pulse sender including adapter cable (secured) ⇒ Figure 3 -5-
95B.044.213.B	1 x	Wire harness for connection point/exhaust flap – left-hand drive vehicle ⇒ Figure 3 -6-
N.912.098.01	1 x	Flat screw with internal serration, 7/16 ⇒ Figure 3 -7-
999.513.052.40	25 x	Tie-wrap, 4.8 x 188 (not shown)



Information

ONLY in the event of repairs/replacement:

Items **WITHOUT** a part number in the parts list can be found/ordered from the Porsche Electronic Parts Catalog = PET.

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

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

Tools: **VAS 6931 Transmission and gearbox jack**

Nr.90 Pos.1 - Torque wrench

VAS 6935 Pole terminal puller

9873 - Bonnet stay

3438 - Hooks

P90999 - PIWIS Tester 4

Three-mandrel pliers for hoses and sleeves (commercially available)

Restraining strap for securing loads

- Installation: 1 Preliminary work
- 1.1 Drive the vehicle onto a lifting platform. ⇒ *Workshop Manual '4X00IN Lift vehicle'*
 - 1.2 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*



Hot components

- **Risk of burns**

⇒ **Let hot components cool down.**

⇒ **Wear personal protective gear.**

- 1.3 Work in the exhaust system area

- 1.3.1 Remove tunnel cover on central underbody. ⇒ *Figure 5*, ⇒ *Workshop Manual '519319 Removing and installing cover for central underbody cover'*

- 1 – Tunnel cover on –centre– underbody
- 2 – Exhaust system (standard)

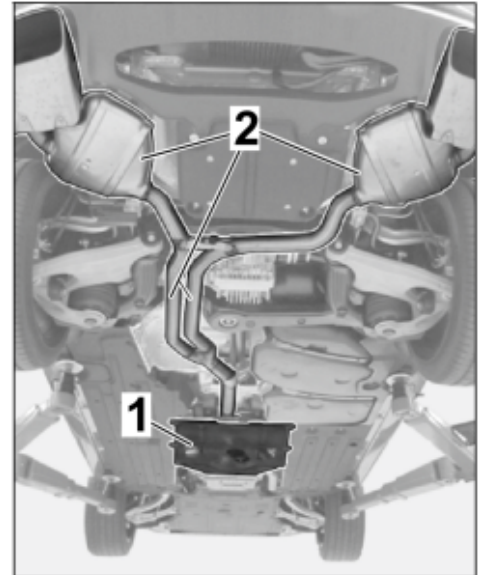


Figure 5

- 1.3.2 Remove hexagon flange bolt, M8 x 25 (2 x) on the heat shield holder. ⇒ *Figure 6*

- 1 – Hexagon flange bolt, M8 x 25
- 2 – Heat shield holder

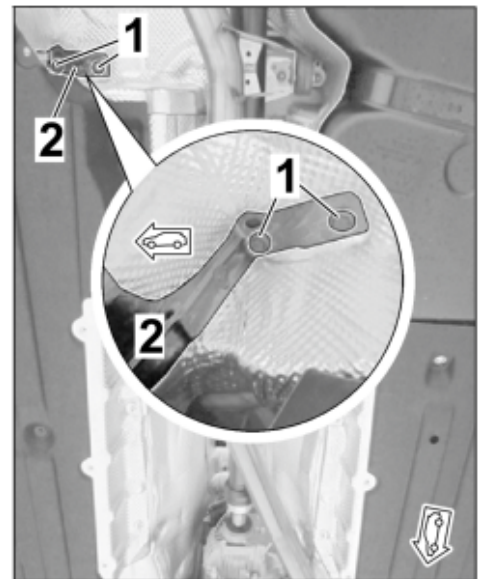


Figure 6

1.3.3 Secure catalytic converter exhaust pipe on the transmission support using restraining strap for securing loads, for example, to prevent it from bending down. ⇒ *Figure 7*

- 1 – Restraining strap for securing loads
- 2 – Transmission support
- 3 – Clamping sleeve, Ø 65 x 88

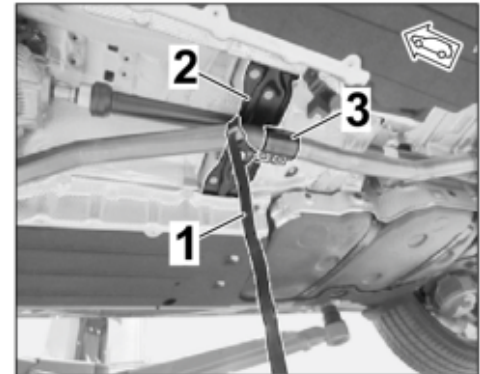


Figure 7

1.3.4 Position **engine and gearbox jack** under exhaust system (in transfer case area). Secure exhaust system against falling with restraining straps. ⇒ *Figure 8*

- 1 – Transmission and gearbox jack
- 2 – Exhaust system
- 3 – Transfer gear on rear axle

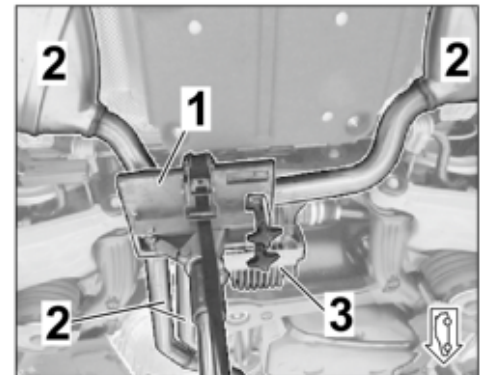


Figure 8

 **CAUTION**

Hot components

- **Risk of burns**
- ⇒ **Let hot components cool down.**
- ⇒ **Wear personal protective gear.**

 **CAUTION**

Heavy components

- **Risk of squashing**
- ⇒ **Wear personal protective gear.**
- ⇒ **Get someone to help if necessary.**

**Information**

The help of another person is required for this step.

- 1.3.5 Remove exhaust system including central / rear silencers and tailpipes.
⇒ *Workshop Manual '260119 Removing and installing exhaust system'*

- 1 – Hexagon-head bolts, M8 x 40
- 2 – Rear muffler, left

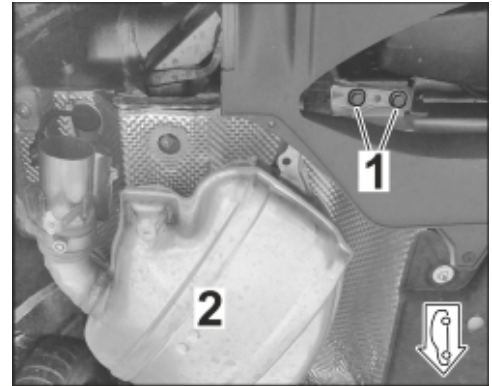


Figure 9

- 1.3.6 Detach heat shield in the rear silencer area – at the right (⇒ *Figure 10*) and bend it down slightly.

- 1 – Cap nut
- 2 – Heat shield
- 3 – Dummy plug
- 4 – Filler

- 1.3.7 Remove dummy plug on underbody and de-burr using a spatula (⇒ *Figure 10 -Magnifier-*).

- 1.4 Expose the plenum panel area

- 1.4.1 Move front lid to service position. ⇒ *Workshop Manual '552213 Securing front lid (service position)'*

- 1.4.2 Remove wiper arms. ⇒ *Workshop Manual '922519 Removing and installing wiper arm'*

- 1.4.3 Remove cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*

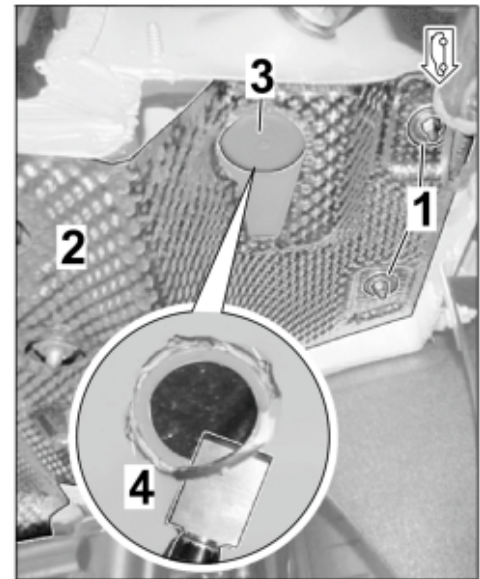


Figure 10

1.4.4 Remove cover on fuse box (E-box) in cowl panel (⇒ *Figure 11*).
⇒ *Workshop Manual '978409 Loosening and securing fuse box'*

- 1 – Fuse box (E-box) in cowl panel
- 2 – Foam pads on bulkhead

1.4.5 Remove foam pads on bulkhead (⇒ *Figure 11 -2-*).

1.5 Expose A-pillar area (on driver's side)

1.5.1 Remove dashboard trim panel (⇒ *Figure 12 -1-*). ⇒ *Workshop Manual '701619 Remove and install dashboard trim panel'*

- 1 – Dashboard trim panel
- 2 – Air vent (instrument cluster)
- 3 – Trim panel under dashboard

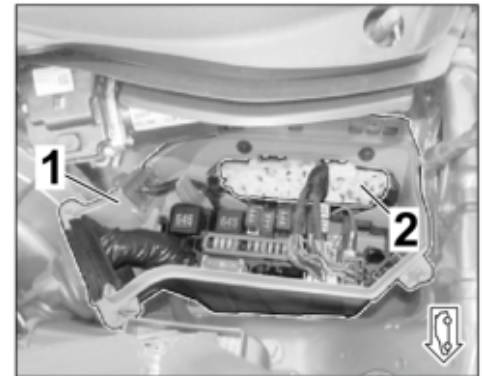


Figure 11

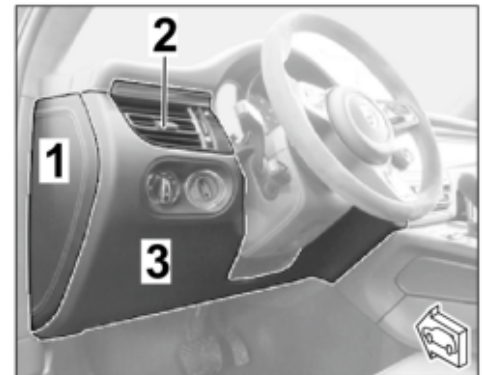


Figure 12

1.5.2 Remove air vent (on instrument cluster ⇒ *Figure 12 -2-* / ⇒ *Figure 13 -1-*) and air vent unit (underneath the PCM ⇒ *Figure 13 -3-*).

- 1 – Air vent (instrument cluster)
- 2 – Dashboard moulding (right)
- 3 – Air vent unit (PCM)
- 4 – Trim panel under dashboard

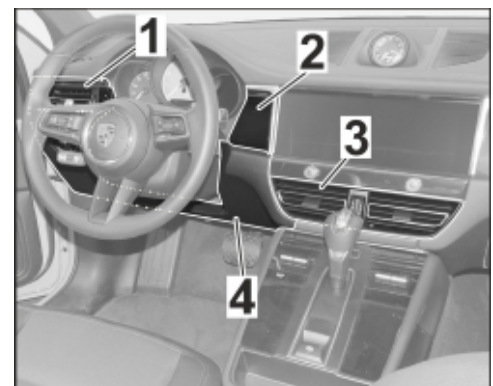


Figure 13

1.5.3 Remove dashboard moulding/trim panel (at the right ⇒ *Figure 13 -2-*).
⇒ *Workshop Manual '70581902 Removing and installing dashboard moulding on driver's side (right)'*

- 1.5.4 Remove trim panel under dashboard (⇒ Figure 14). ⇒ Workshop Manual '701919 Removing and installing trim panel under dashboard on driver's side'

- 1 – Trim panel under dashboard
- 2 – Dashboard

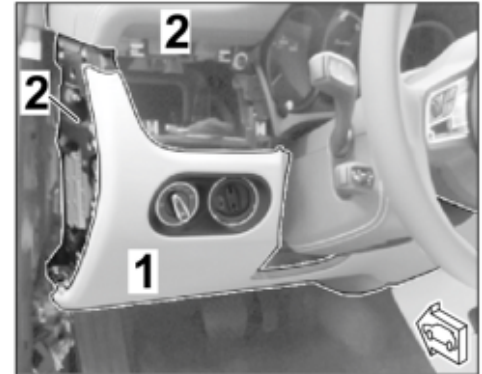


Figure 14

- 1.5.5 Remove front inner door sill trim (⇒ Figure 15). ⇒ Workshop Manual '680519 Removing and installing front inner door sill trim'

- 1 – Front lid release
- 2 – Front inner door sill trim (on driver's side)



Figure 15

- 1.6 Expose B-pillar area (on driver's side)

- 1.6.1 Remove luggage compartment cover and empty the luggage compartment.

- 1.6.2 Detach/remove rear backrest (⇒ Figure 16 -1-) ⇒ Workshop Manual '724719 Removing and installing rear backrest'

- 1 – Rear backrest
- 2 – Rear seat
- 3 – Upper part of B-pillar trim panel (on driver's side)
- 4 – Lower part of B-pillar trim panel (on driver's side)



Figure 16

- 1.6.3 Remove rear seat (⇒ Figure 16 -2-). ⇒ Workshop Manual '724819 Removing and installing rear seat'

- 1.6.4 Remove upper part of B-pillar trim panel (on driver's side ⇒ Figure 16 -3-). ⇒ Workshop Manual '706719 Removing and installing upper part of B-pillar trim panel'

- 1.6.5 Remove lower part of B-pillar trim panel (on driver's side ⇒ *Figure 16 -4-*). ⇒ *Workshop Manual '70671903 Removing and installing lower part of B-pillar trim panel'*
- 1.7 Uncover C-pillar / luggage compartment area
 - 1.7.1 Remove side trim panel for rear luggage compartment (left/right). ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*
 - 1.7.2 Remove side luggage compartment trim panel (luggage compartment cover). ⇒ *Workshop Manual '700619 Removing and installing side luggage compartment trim (luggage compartment cover)'*
 - 1.7.3 **ONLY** for vehicles with spare wheel (space-saving – 1G1 / 1G4):
Remove compressor tool kit (⇒ *Figure 17*).
 - 1 – Compressor tool kit
 - 2 – Clamping washer 5 x 30
 - 1.7.4 Remove rear inner door sill trim (driver's side). ⇒ *Workshop Manual '680519 Removing and installing rear inner door sill trim'*

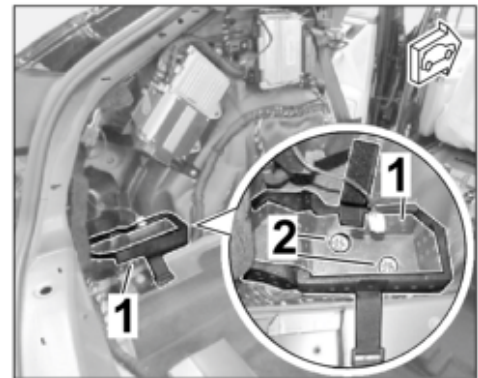


Figure 17

- 2 Install engine noise control unit and pulse sender
 - 2.1 Release secured adapter cable with plug connection (3-pin) and bag of small parts from electric wire harness for engine noise control unit/pulse sender (⇒ *Figure 18*).
 - 1 – Wire harness for engine noise control unit/pulse sender including adapter cable
 - 2 – Adapter cable with plug connection (3-pin)
 - 3 – Bag of small parts
 - 2.2 Install engine noise control unit (⇒ *Figure 19*)
 - 2.2.1 Connect plug connection for wire harness for engine noise control unit/pulse sender to the engine noise control unit (6-pin).

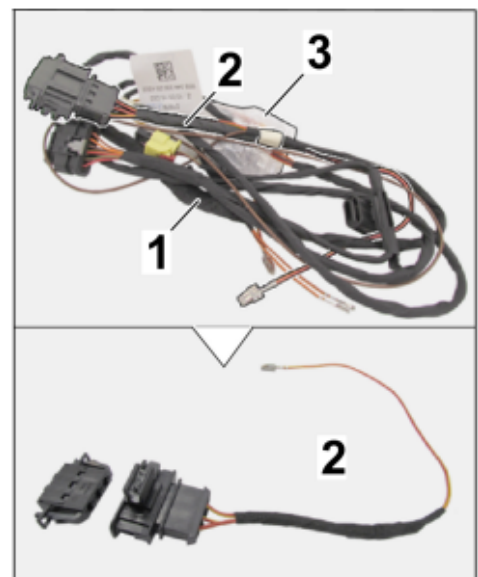


Figure 18

2.2.2 Position the engine noise control unit on stud bolt M6 (2 x) in the water tank and fasten with hexagon collar nut (2 x) (⇒ Figure 19).

- 1 – Engine noise control unit
- 2 – Wire harness for engine noise control unit/pulse sender
- 3 – Hexagon collar nut

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

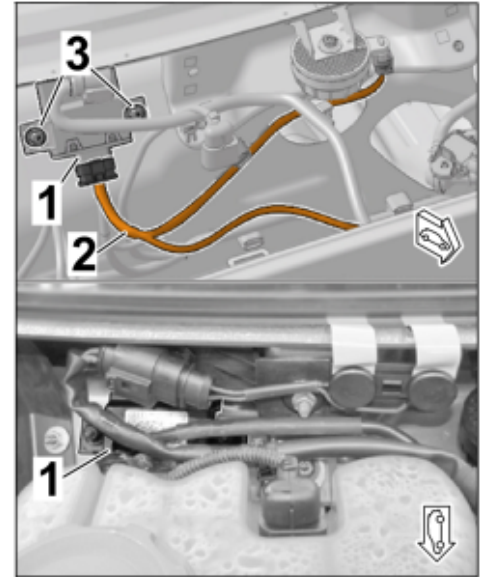


Figure 19

NOTICE

Incorrect line routing

- Risk of damage to lines and hoses
 - Malfunction and fault memory entry on 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 Install engine noise pulse sender (⇒ Figure 20)



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.

2.3.1 Route branch with connector (2-pin) to the engine noise pulse sender holder (⇒ *Figure 20 -top-*).

- 1 – Branch with connector (2-pin)
- 2 – Engine noise pulse sender
- 3 – Hexagon collar nut, M6
- 4 – Cable clip

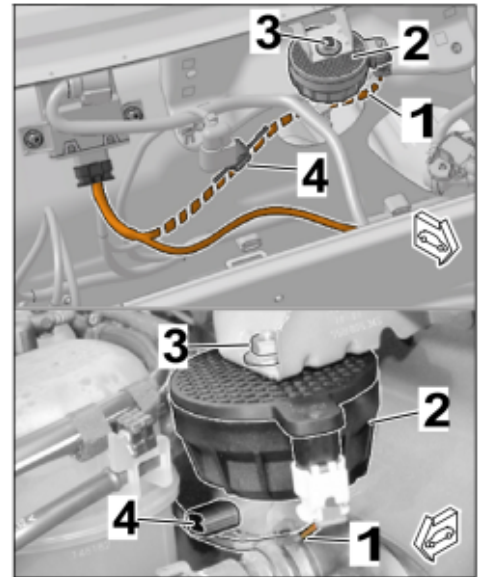


Figure 20

2.3.2 Connect plug connection for wire harness for engine noise control unit/pulse sender to the engine noise pulse sender (2-pin).

2.3.3 Guide pin on underside of engine noise pulse sender into the bore on the holder in the plenum panel.

Secure engine noise pulse sender, facing downwards, in the plenum panel holder using M6 hexagon collar nut (1 x) (⇒ *Figure 20*)

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

2.3.4 Install cable clip on bulkhead stud (⇒ *Figure 20 -4-*).

2.4 Route electric wire harness for engine noise control unit/pulse sender

Wire harness connections – left-hand drive vehicles (⇒ *Figure 21*)

- 1 – Engine noise control unit connector (6-pin)
- 2 – Engine noise pulse sender connector (2-pin)
- 3 – Line clip
- 4 – Socket contacts for CAN lines ⇒ connector (17-pin, white)
- 5 – Pin contacts for CAN lines ⇒ plug socket (2-pin)
- 6 – Socket contact for terminal 15 ⇒ plug socket (3-pin, adapter cable)
- 7 – Cable ring eyelet A6 ⇒ A-pillar ground pins

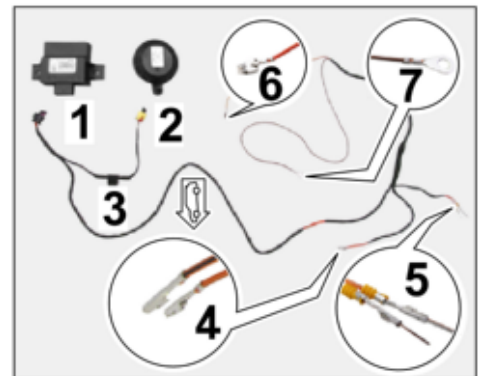


Figure 21

2.4.1 Carefully secure all contacts (⇒ *Figure 21 -4 to 7-*) to the wire harness for engine noise control unit/pulse sender using wrapping tape.

2.4.2 Route wire harness to the fuse box (E-box) in the cowl panel as follows:

- 1 – Engine noise control unit
- 2 – Engine noise pulse sender
- 3 – Coolant reservoir
- 4 – Brake booster
- 5 – Sleeve on fuse box (E-box)

- **Left-hand drive:** (⇒ *Figure 22*) Engine noise control unit/pulse sender → underneath coolant reservoir → underneath brake booster → sleeve on fuse box (E-box) in cowl panel (left side)

2.4.3 Secure wire harness for engine noise control unit/pulse sender to existing lines/components with tie-wraps without tensile stress and so that no chafing occurs.

2.4.4 Remove sleeve from fuse box (E-box) in cowl panel and cut off pre-shaped cone (repair opening) (⇒ *Figure 23*).

- 1 – Grommet
- 2 – Fuse box (E-box)

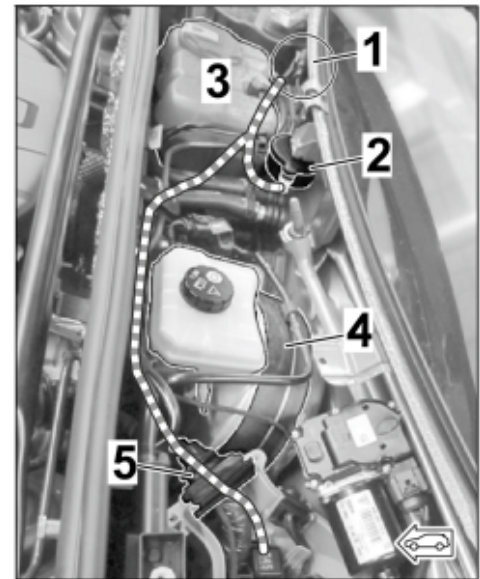


Figure 22

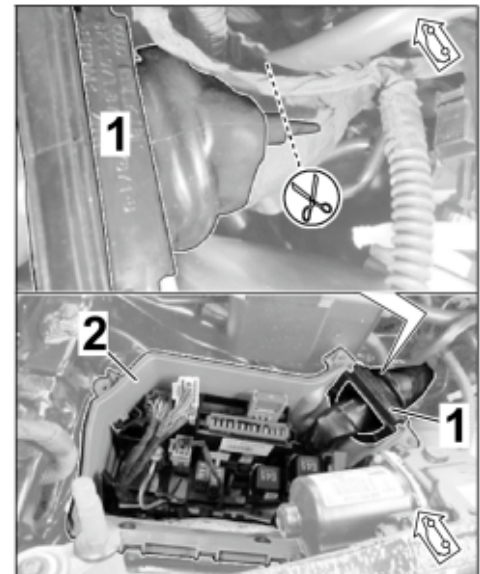


Figure 23



Information

Use three-mandrel pliers for hoses and sleeves (commercially available) if necessary.

2.4.5 Carefully guide wire harness for engine noise control unit/pulse sender through the new opening (sleeve) into the fuse box (E-box) (⇒ Figure 24).

- 1 – Wire harness for engine noise control unit/pulse sender
- 2 – Sleeve (fuse box – E-box)
- 3 – Branch for CAN lines
- 4 – Branch for power supply/ground
- 5 – Opening on bulkhead

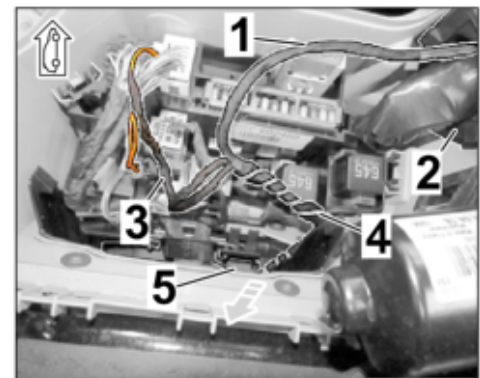


Figure 24

2.4.6 Seal wire harness in the sleeve using inner/outer sealing cord and install sleeve in the fuse box in the cowl panel.

2.4.7 Route branch for power supply/ground (line BN; 1.0² with cable ring eyelet and line RD/YE; 1.0²) from wire harness for engine noise control unit/pulse sender) to the passenger compartment as follows (⇒ Figure 25):

- 1 – Branch for power supply/ground
 - 2 – Ground pin 21 (left-hand drive)
 - 3 – Fuse strip A
- Fuse box (E-box) in cowl panel → above fuses/relays → through opening on bulkhead → fuse/relay carrier on A-pillar (on driver's side)

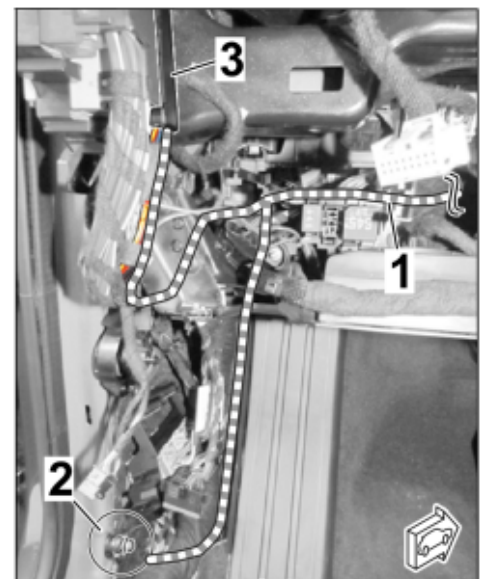


Figure 25

2.5 Connect CAN lines of electric wire harness for engine noise control unit/pulse sender

2.5.1 Take connector housing and plug socket (2-pin) for CAN lines out of the bag of small parts.

Insert a small screwdriver between the pin connector socket and connector housing (⇒ *Figure 26 -a-*).

- 1 – Pin connector socket (2-pin)
- 2 – Connector housing (2-pin)

Carefully lift up connector housing (⇒ *Figure 26 -b-*) and pull out pin connector socket.



Information

CAN lines must be twisted properly!

Manually re-twist untwisted lines at plug connections/splice greater than 50 mm/ 1.97 in.

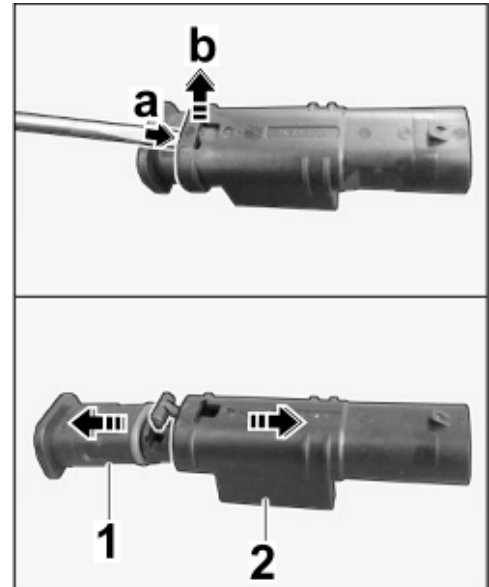


Figure 26



Information

Observe markings on the housing!

- 2.5.2 Connect CAN lines with pin contact/single-wire seal (wire harness for engine noise control unit/pulse sender) in the pin connector socket as follows (⇒ *Figure 27*):

- 1 – OG/BN line ⇒ chamber 1 (pin connector socket)
- 2 – OG/BK line ⇒ chamber 2 (pin connector socket)
- 3 – Connector (2-pin)

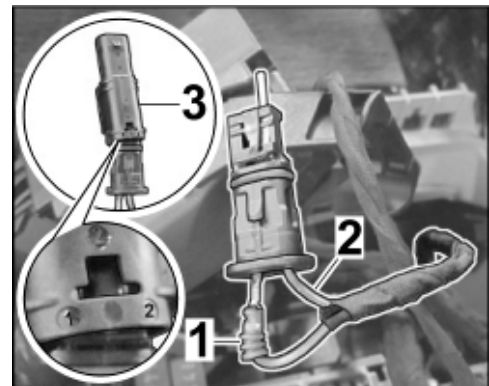


Figure 27

Function / line:	Pin connector socket (2-pin)
Control CAN drive LOW = OG/BN; 0.35 ²	⇒ insert into chamber 1 of pin connector socket (2-pin)
Control CAN drive HIGH = OG/BK; 0.35 ²	⇒ insert into chamber 2 of pin connector socket (2-pin)

Install pin connector socket (2-pin) back into the connector housing.

2.5.3 Release (2-pin) plug socket (⇒ Figure 28).

- 1 – Plug socket (2-pin)
- 2 – Secondary lock

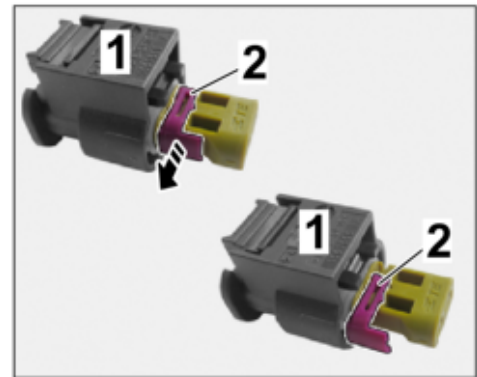


Figure 28

2.5.4 Remove and release connector (17-pin, white) from fuse/relay carrier (E-box, connection point X372.1A1) (⇒ Figure 29).

- 1 – Connector (17-pin, white)
- 2 – Fuse/relay carrier (E-box)
- 3 – Secondary lock

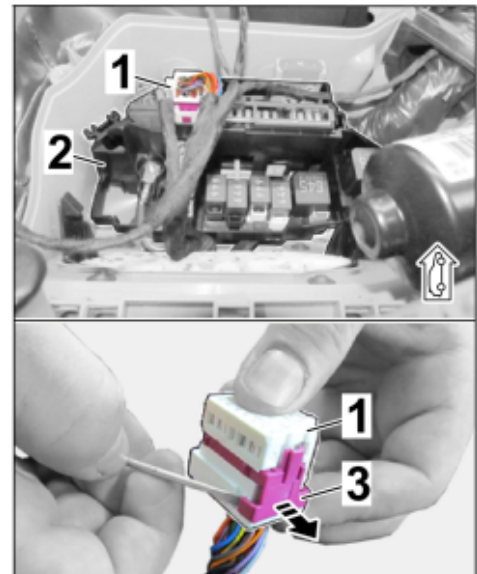


Figure 29

2.5.5 Change pin assignment of lines OG/BN / OG/BK in the connector (17-pin, white) as follows (\Rightarrow Figure 30):

- 1 – Connector (2-pin)
- 2 – Socket (2-pin)
- 3 – Connector (17-pin, white)
- 4 – Wire harness for engine noise control unit/pulse sender
- 5 – Vehicle wire harness

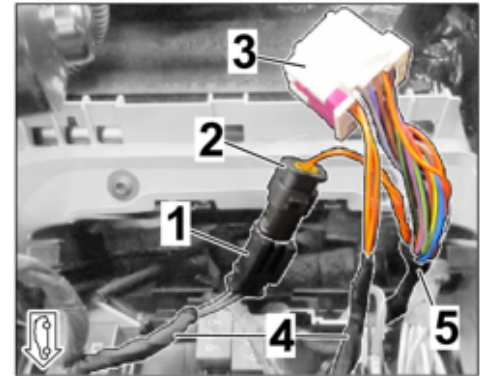


Figure 30

Function / line:	Connector (17-pin, white)
Control CAN drive LOW = OG/BN; 0.35 ²	Unpin socket from chamber 13 \Rightarrow Insert into chamber 1 of plug socket (2-pin \Rightarrow Figure 28)
Control CAN drive HIGH = OG/BK; 0.35 ²	Unpin socket from chamber 14 \Rightarrow Insert into chamber 2 of plug socket (2-pin \Rightarrow Figure 28)

Lock the plug socket (black, 2-pin) (\Rightarrow Figure 28).

2.5.6 Insert socket for lines OG/BN / OG/BK (wire harness for engine noise control unit/pulse sender) into the connector (white, 17-pin) as follows:

Function / line:	Wire harness (engine noise control unit/pulse sender)
Control CAN drive LOW = OG/BN; 0.35 ²	Socket \Rightarrow insert into chamber 13 of connector (17-pin, white \Rightarrow Figure 30 -3-)
Control CAN drive HIGH = OG/BK; 0.35 ²	Socket \Rightarrow insert into chamber 14 of connector (17-pin, white \Rightarrow Figure 30 -3-)

Lock the connector (17-pin, white) and install it in the fuse box (connection point X372.1A1).

2.5.7 Connect plug connection (2-pin) (\Rightarrow Figure 30 -1 & 2-).

2.6 Connect adapter cable with connector (3-pin) to terminal 15 and install it

2.6.1 Disconnect plug connection (3-pin) of adapter cable and release/open plug socket (3-pin) (⇒ Figure 31).

- 1 – Adapter cable with connector (3-pin)
- 2 – Plug socket (3-pin)
- 3 – Line RD/YE; 1.0² with socket ⇒ fuse strip A, chamber 3A

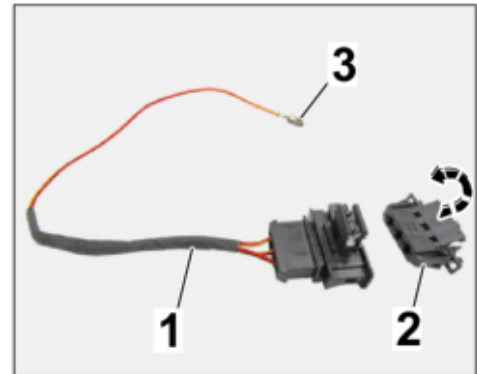


Figure 31

2.6.2 Release fuse strip A (black) using a screwdriver and remove it by pulling it to the rear and out of the fuse carrier (A-pillar area) (⇒ Figure 32).

- 1 – Fuse strip A (black)
- 2 – Cover

Release cover (⇒ Figure 32 -2-) on fuse strip A (black) at both sides and remove it.

Open secondary lock on fuse strip A (black) (⇒ Figure 32 -B-).

2.6.3 Remove wrapping tape from standard wire harness (⇒ Figure 32 -3-).

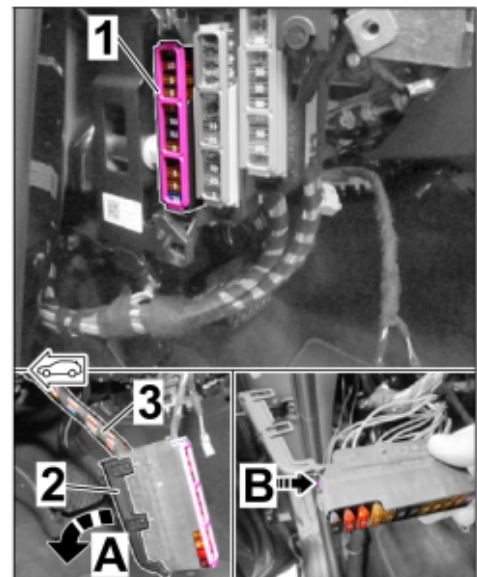


Figure 32

2.6.4 Assign plug socket (3-pin) as follows (⇒ *Figure 33*):

- 1 – Line RD/YE; 1.0² (in vehicle)
- 2 – Fuse strip A
- 3 – Line RD/YE; 1.0² (wire harness for engine noise control unit/pulse sender)
- 4 – Plug socket (3-pin)
- 5 – Pin connector socket (3-pin)

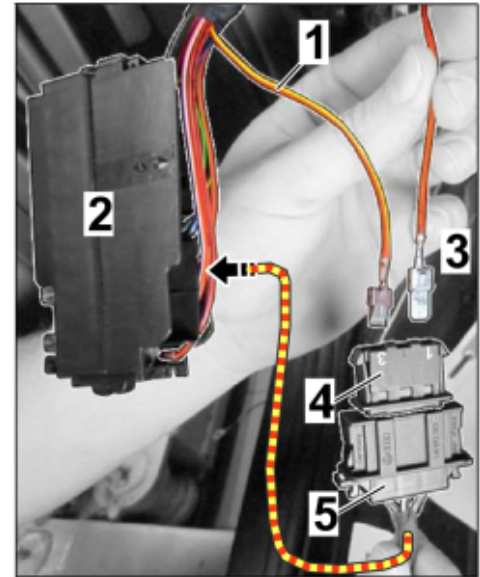


Figure 33

Function / line:	Plug socket (3-pin)
Terminal 15 RD/YE; 1.0 ²	Unpin line (in the vehicle ⇒ <i>Figure 33 -1-</i>) with socket from fuse strip A, chamber 3A ⇒ insert into chamber 1 of plug socket (3-pin)
Terminal 15 RD/YE; 1.0 ²	Line (wire harness for engine noise control unit/pulse sender ⇒ <i>Figure 33 -3-</i>) ⇒ Insert into chamber 3 of plug socket (3-pin)

2.6.5 Lock plug socket (3-pin) and wind wrapping tape around both lines RD/YE; 1.0².

2.6.6 Insert line RD/YE; 1.0² with socket from pin connector socket (black, 3-pin) into fuse strip A, chamber 3A.

2.6.7 Close secondary lock on fuse strip A (black).

Install cover on fuse strip A (black) and install fuse strip A (black) in the fuse carrier (A-pillar area).

2.6.8 Install pin connector socket (3-pin) with clip onto the dashboard bracket and connect plug connection (3-pin) (⇒ Figure 34).

- 1 – Connector (3-pin)
- 2 – Dashboard bracket

2.6.9 Secure adapter cable to existing lines/components with tie-wraps without tensile stress and so that no chafing occurs.

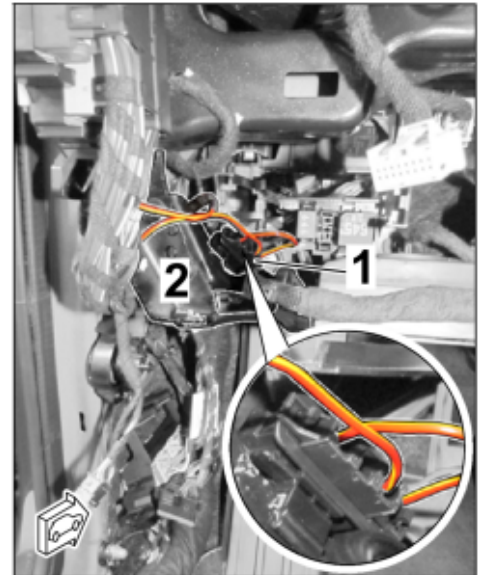


Figure 34

2.7 Route line BN; 1.0² with cable shoe (ground) to the ground pin MB 21 (left-hand drive) and install it (⇒ Figure 35).

- 1 – Line BN 1.0² with cable shoe (ground)
- 2 – Ground pin 21 (left-hand drive)

Tightening torque 9 Nm (6.6 ftlb.)

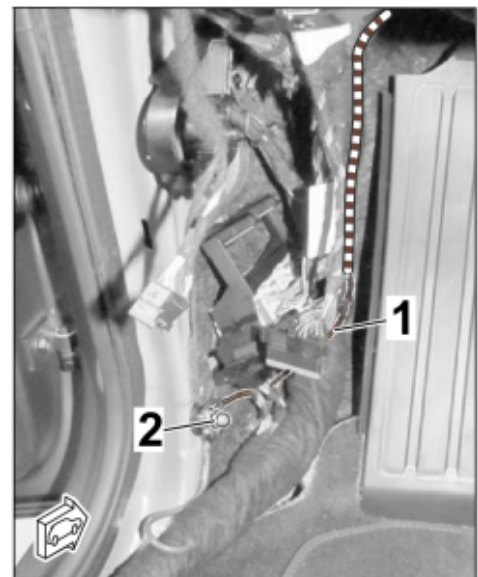


Figure 35

- 3 Route and connect wire harness for connection point/exhaust flap
- 1 – Pin connector socket (2-pin) with socket contact \Rightarrow connector (17-pin, red)
 - 2 – Cable ring eyelet A6 \Rightarrow ground pin 43
 - 3 – Connector (3-pin) \Rightarrow exhaust flap on rear silencer, right
 - 4 – Plug socket (2-pin) \Rightarrow pin connector socket (2-pin)
 - 5 – Socket contact, line VT/GN; 0.5² \Rightarrow connector (17-pin, red)

– Wire harness connections (\Rightarrow Figure 36):

- 3.1 Install ground line BN; 0.5² with cable ring eyelet A6



Figure 36

- 3.1.1 **ONLY** vehicles with Burmester® High-End Surround Sound System (9VJ):
Loosen the speaker amplifier and swing it aside. \Rightarrow *Workshop Manual '914419 Removing and installing loudspeaker booster'*

- 1 – Loudspeaker booster
- 2 – Ground pin 43
- 3 – Line BN; 0.5²

- 3.1.2 Route branch of line BN; 1.0² with cable ring eyelet A6 (ground) above the (left) wheel housing to the ground pin MB 43.

- 3.1.3 Install cable ring eyelet A6 (ground) on ground pin MB 43 (\Rightarrow Figure 37)

Tightening torque 9 Nm (6.6 ftlb.)

- 3.1.4 **ONLY** vehicles with Burmester® High-End Surround Sound System (9VJ):
Install loudspeaker booster. \Rightarrow *Workshop Manual '914419 Removing and installing loudspeaker booster'*

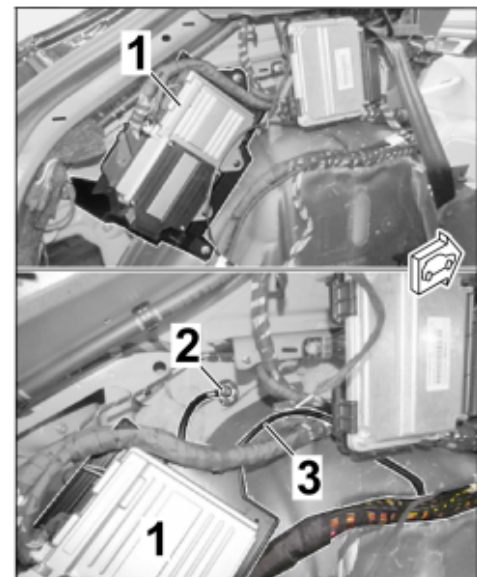


Figure 37

3.2 Route branch for exhaust flap (right) as follows:

- 1 – Ground pin 43
- 2 – Wheel housing liner (left)
- 3 – Rear closing panel
- 4 – Branch for exhaust flap (right)
- 5 – Branch for connection point

- Ground pin 43 (⇒ Figure 38 -1-) → main wire harness above wheel housing liner (left ⇒ Figure 38 -2-) → along main wire harness → rear closing panel (⇒ Figure 38 -3-) → fuse/relay carrier (rear right ⇒ Figure 39 -3-)



Figure 38

Detach fuse/relay carrier (rear right) if necessary (⇒ Figure 39 -3-)

- 1 – Branch for exhaust flap (right)
- 2 – Adhesive pad
- 3 – Fuse/relay carrier (rear right)

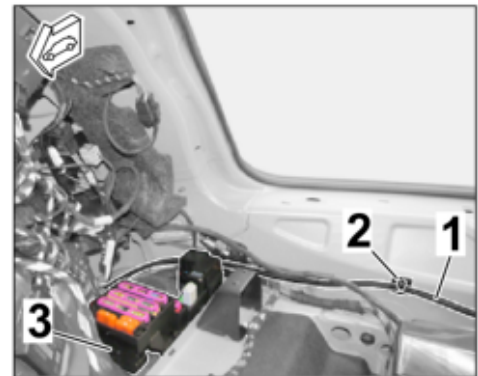


Figure 39

- 3.3 Guide connector (3-pin) through the bore to the underside of the vehicle and install sleeve into the bore (⇒ *Figure 40*).

- 1 – Grommet
- 2 – Branch for exhaust flap (right)
- 3 – Fuse/relay carrier (rear right)
- 4 – Bumper (rear right)

- 3.4 Route branch for connection point to the fuse box (E-box) in the cowl panel as follows:

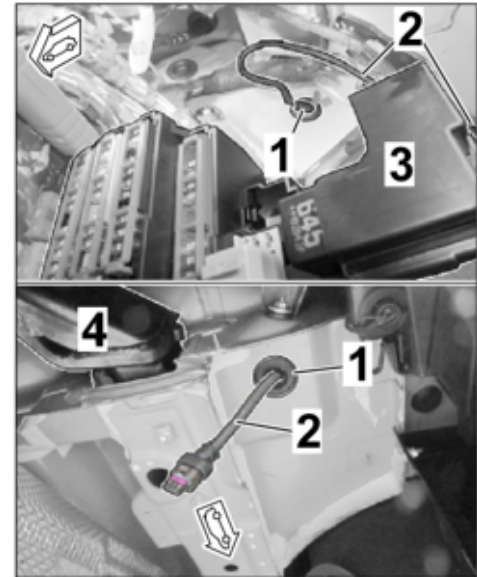


Figure 40

- 3.4.1 **ONLY** for left-hand drive vehicles (⇒ *Figure 41*):

Arrow – Ground pin 43

- Ground pin 43 → door sill at C-pillar (left) → door sill at B-pillar (left) → A-pillar (left) → opening on bulkhead (left) → fuse box (E-box) in cowl panel (left)



Figure 41

- 3.5 Connect branch for connection point

3.5.1 Remove and release connector (17-pin, red) from fuse/relay carrier (E-box, connection point X371.1A1) (⇒ Figure 44).

- 1 – Connector (17-pin, red)
- 2 – Fuse/relay carrier (E-box)
- 3 – Secondary lock

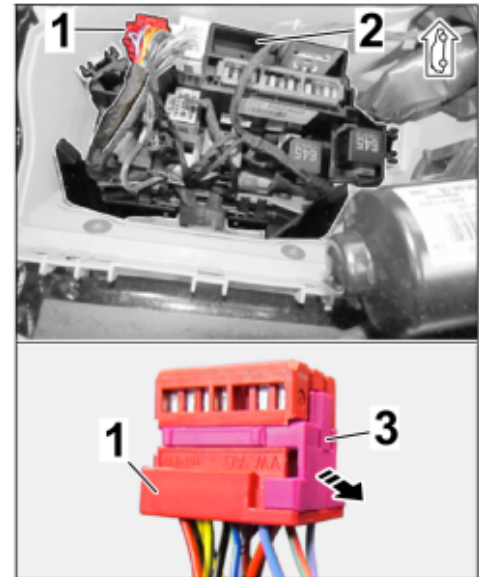


Figure 44

3.5.2 Change pin assignment of RD/GN and VT/GN lines in the connector (17-pin, red) and insert as follows:

- 1 – Connector (17-pin, red)
- 2 – Plug socket (2-pin)
- 3 – Pin connector socket (2-pin)
- 4 – Line VT/GN; 0.5² (wire harness for connection point/exhaust flap)
- 5 – Line RD/GN; 0.5²

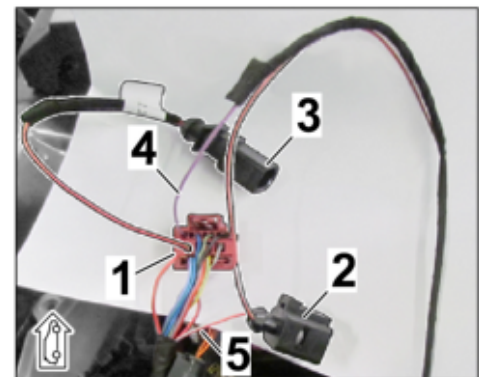


Figure 45

Function / line:	Connector (17-pin, red)
Terminal 87A (supply) Exhaust flap (left) = RD/GN; 0.5 ²	Unpin socket from chamber 17 ⇒ Insert into chamber 2 of plug socket (2-pin ⇒ Figure 45 -2-)
Terminal 87A (supply) Exhaust flap (new) = RD/GN; 0.5 ²	Socket of pin housing (2-pole, black) ⇒ plug into chamber 17 connector (17-pin, red ⇒ Figure 45 -1-)
Control Status Exhaust flap (new) = VT/GN; 0.5 ²	Bushing of line set coupling point / exhaust flap ⇒ plug into chamber 14 connector (17-pin, red ⇒ Figure 45 -1-)

- 3.5.3 Connect plug connection (2-pin).
- 3.6 Secure plug connections (CAN lines/terminal 87A) to existing lines/components in the fuse box (E-box) in the cowl panel with tie-wraps without tensile stress and so that no chafing occurs (⇒ Figure 46).

- 1 – Plug connection (terminal 87A)
- 2 – Plug connection (CAN lines)
- 3 – Tie-wrap

- 3.7 Secure routed wire harness for connection point/exhaust flap in the vehicle to existing lines/components with tie-wraps without tensile stress and so that no chafing occurs.

Secure extra length of line if necessary.

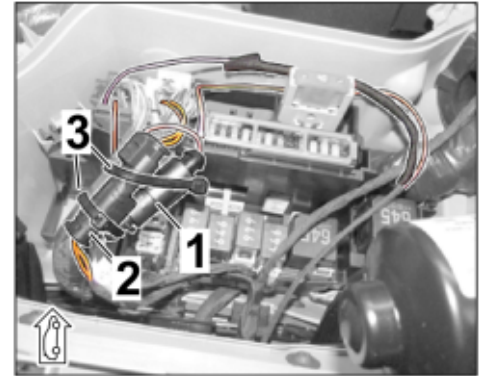


Figure 46

4 Concluding work in vehicle interior

4.1 Assemble luggage compartment/C-pillar area

- 4.1.1 Install the sill trim on the inside rear (driver's side). ⇒ *Workshop Manual '680519 Removing and installing rear inner door sill trim'*
- 4.1.2 **ONLY** for vehicles with spare wheel (space-saving – 1G1 / 1G4):
Remove compressor tool kit.
- 4.1.3 Installing (side) luggage compartment trim panel (luggage compartment cover). ⇒ *Workshop Manual '700619 Removing and installing side luggage compartment trim (luggage compartment cover)'*
- 4.1.4 Install side trim panel for rear luggage compartment (at the left / right). ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*

4.2 Assemble B-pillar area (on driver's side)

- 4.2.1 Install lower part of B-pillar trim panel (on driver's side). ⇒ *Workshop Manual '70671903 Removing and installing lower part of B-pillar trim panel'*
- 4.2.2 Install upper part of B-pillar trim panel (on driver's side). ⇒ *Workshop Manual '706719 Removing and installing upper part of B-pillar trim panel'*
- 4.2.3 Install rear seat. ⇒ *Workshop Manual '724819 Removing and installing rear seat'*
- 4.2.4 Secure/install rear backrest. ⇒ *Workshop Manual '724719 Removing and installing rear backrest'*

Secure belt installing on 1/3-split folding seat backrest using a flat screw with internal serration.

Tightening torque 50 Nm (36.9 ftlb.)

- 4.2.5 Place items in luggage compartment and install luggage compartment cover.
- 4.3 Assemble A-pillar area (on driver's side)
 - 4.3.1 Install front inner door sill trim. ⇒ *Workshop Manual '680519 Removing and installing front inner door sill trim'*
 - 4.3.2 Install trim panel under dashboard. ⇒ *Workshop Manual '701919 Removing and installing trim panel under dashboard on driver's side'*
 - 4.3.3 Install dashboard moulding/trim panel (at the right). ⇒ *Workshop Manual '70581902 Removing and installing dashboard moulding on driver's side (right)'*
 - 4.3.4 Install air vent (on instrument cluster) and air vent unit (underneath the PCM).
 - 4.3.5 Install dashboard trim panel. ⇒ *Workshop Manual '701619 Remove and install dashboard trim panel'*
- 4.4 Assemble plenum panel area
 - 4.4.1 Install foam pads on bulkhead (⇒ *Figure 47 -2-*).
 - 1 – Fuse box (E-box) in cowl panel
 - 2 – Foam pads on bulkhead
 - 4.4.2 Installing fuse box cover (E-box) on cowl panel (⇒ *Figure 47*). ⇒ *Workshop Manual '978409 Loosening and securing fuse box'*
 - 4.4.3 Installing cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*
 - 4.4.4 Installing wiper arms. ⇒ *Workshop Manual '922519 Removing and installing wiper arm'*
 - 4.4.5 Removing front lid service position. ⇒ *Workshop Manual '552213 Securing front lid (service position)'*
- 5 Install exhaust system ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*
 - 5.1 Position and secure heat insulation in the rear silencer area – on the right.

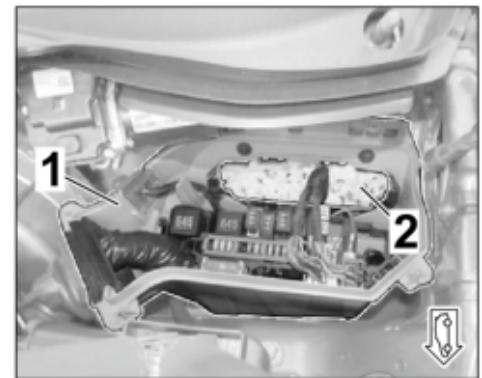


Figure 47

Tightening torque 2 Nm (1.5 ftlb.)

5.2 Install new center silencer ⇒ *Figure 48*

- 1 – Clamping sleeve, \varnothing 65 x 88
- 2 – Center silencer
- 3 – Hexagon flange bolt, M8 x 25

5.2.1 Install clamping sleeve (\varnothing 65 x 88) on catalytic converter exhaust pipe.

5.2.2 Secure new center silencer on **engine and gearbox jack** with straps and move it into installation position.

5.2.3 Install left holder hand-tight using new hexagon flange bolts (M8 x 40, 2 x).

5.2.4 Install right holder hand-tight using M8 hexagon nuts (2 x).

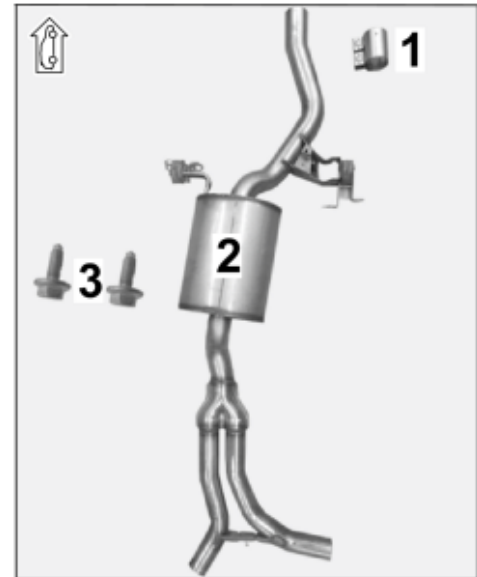


Figure 48

5.3 Install new rear silencers (⇒ *Figure 49*).

- 1 – Exhaust pipe
- 2 – Clamping sleeve, \varnothing 55 x 88
- 3 – Rear silencer (left)
- 4 – Rear silencer (right)
- 5 – Hexagon-head bolt, M8 x 40

5.3.1 Install new clamping sleeve (\varnothing 55 x 88, 2 x) on the exhaust pipe.

5.3.2 Pre-mount new rear silencer (left / right) hand-tight. ⇒ *Workshop Manual '263355 Replacing rear silencer'*

5.3.3 Establish electrical plug connection at the actuators of the exhaust flaps of the left and right rear silencers. ⇒ *Workshop Manual '265119 Removing and installing exhaust flap actuator'*

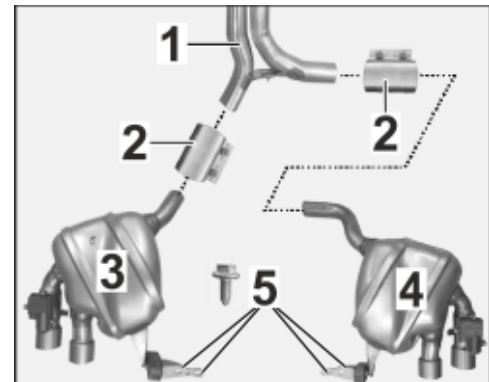


Figure 49

5.4 Install new sports tailpipes (⇒ Figure 50).

5.4.1 Carefully guide sports tailpipes (left/right) through the cut-out on the rear apron and as far as they will go onto the rear silencer connection piece.



Information

The tailpipes are adjusted in X direction using the slots in the tailpipe.



Figure 50

5.4.2 Check projection of tailpipe cover on sports tailpipes (left/right) and cover on exhaust system (rear apron) and adjust evenly.

Align the complete exhaust system if necessary.

5.4.3 Tighten countersunk screw M6 x 12 (on underside of cover on sports tailpipe).

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

5.5 Tighten all threaded connections on the exhaust system fully to the specified torque. ⇒ *Workshop Manual '2X00IN Technical values (R4)'*

Coding: 6 Entering the sports exhaust system (OP8 or OP9) in the vehicle data

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 Preliminary work

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 **P90999 - PIWIS Tester 4** must be connected to the vehicle and switched 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 In the PIWIS Tester, select "Diagnostics" from menu.

6.1.4 If **P90999 - PIWIS Tester 4** is connected correctly, a link to the vehicle will be established: "Macan model line" is detected.

6.2 Enter the new vehicle equipment in the vehicle data

6.2.1 Press **F7** in the control unit overview to switch to the "Additional menu".

Question "Should a Vehicle Analysis Log (VAL) be created?" Press **F12** to confirm.

6.2.2 Select the "Maintenance of vehicle data" function. Press **F12** until "PR numbers" appears in the Value group column.

6.2.3 Look for the option "INTERIOR SOUND MEASURES (SILENCERS)" in the "Family" column.

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

6.2.4 Look for the option "EXHAUST TAILPIPE" in the "Family" column.

Select the required option "OP8 – SPORTS EXHAUST SYSTEM – STAINLESS-STEEL TAILPIPES" or "OP9 – SPORTS EXHAUST SYSTEM – BLACK TAILPIPES" from the drop-down menu in the "Value" column.

6.2.5 Press **F12** to continue. A table containing coding values (old and new value) is displayed in the overview.

6.2.6 Press **F8** to continue. Data is written / stored.

6.2.7 Wait for the message "Creation of vehicle data has been completed." to be displayed. Press **F12** to go to Report management.

6.2.8 Press **F10** to open the log. Check that the selected vehicle equipment has been entered and close the log.

- 6.3 Code / program the new vehicle equipment.
- 6.3.1 Select **ALL** control units (**CTRL+A**) in the control unit overview and switch to the "Coding / programming" column.
- 6.3.2 Select the coding mode "Automatic coding". Press **F12** to continue.
- 6.3.3 Once "Automatic coding" is complete, the message "Coding was completed successfully" appears in the header. Press **F12** to continue."
Switch to the control unit overview.
- 6.4 Read out error memories of all systems, remedy any existing errors and erase the error memory.
⇒ *Workshop Manual 'OX03IN Diagnostics maintenance: Diagnostic system and maintenance inter...'*
- 6.5 Perform function test on engine noise pulse sender
- 6.5.1 Look for and select "Control unit for interior acoustics" in the control unit overview. Then select the "Drive links/checks" tab.
- 6.5.2 Then select "Sound symposer activation". Press **F12** to continue.
- 6.5.3 Press **F8** to execute function test. If the test is successful, the following information will be displayed:
- Results column: "Successful output without return value"
 - Value column: "active".
- You will also hear an increasing acoustic signal.
- 6.5.4 Go back to the control unit overview by pressing **F11**
- 6.6 Switch off ignition and disconnect **P90999 - PIWIS Tester 4**.
- 6.7 Perform "Sports exhaust system" function test
- 6.7.1 Switch on ignition and check the display for the new "Twin tailpipe" symbol (see inset, Figure 1) in the centre console area.
- 6.7.2 Start the engine and switch the sports exhaust system on and off in the center console using the "Twin tailpipe button".
Compare the sound at idle speed and also with the accelerator pedals with the sports exhaust system switched on and off.
- 6.7.3 Perform a test drive and repeat 6.7.2.
You will hear a change in the noise level between the individual driving modes.

- 26 01 31 03: –Retrofitting sports exhaust system (1 x)– Labor time: **545 TU**
- Includes: Install pulse sender and engine noise control unit;
Route and connect electric wire harness;
Replace central and rear silencer (left / right);
Install and align new sports tailpipes (4 x);
Code the sports exhaust system;
Read out error memory, remedy and erase errors.
- Without: Test drive

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