

Sport Exhaust System, 3.4 l (I-no. 176)

Revision: Thei bulletin replaces bulletin Group 2, #19/12, dated July 1, 2014.

Model Year: **As of 2012 up to 2016**

Concern: **Retrofitting**

Engine type: **MA1.04 (3.4 l)**



Information: The sport exhaust system is activated and deactivated using the new switch console with the additional "Twin tailpipe" button. The sport exhaust system is also activated by pressing the "Sport" and "Sport Plus" buttons. The sport exhaust system can be switched off separately in these modes using the "Twin tailpipe" button.

The strip for switches must also be ordered. The switch console is modular and must be assembled in accordance with the new vehicle equipment.

On the 3.4-liter engine, a retrofitted change-over valve is used for controlling the sports exhaust system. The change-over valve has either one or no fresh air supply, depending on the version. Use of the U-system with fresh air supply is planned for 20.08.2012.

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

Parts Info: **991.044.200.03** ⇒ Sport exhaust system, 3.4 l (USA), set

**Information**

Activate the VIN filter in the PET in order to quickly identify the combined switch (switch console).

Also order the following in accordance with vehicle equipment:

991.613.955.03 DML	Combined switch (switch console), I-no. 652, Coupé
991.613.957.03 DML	Combined switch (switch console), I-no. 653, Coupé
991.613.959.03 DML	Combined switch (switch console), I-no. 651, Coupé
991.613.967.03 DML	Combined switch (switch console), I-no. 552, Cabriolet
991.613.963.07 DML	Combined switch (switch console), Targa

Parts List:

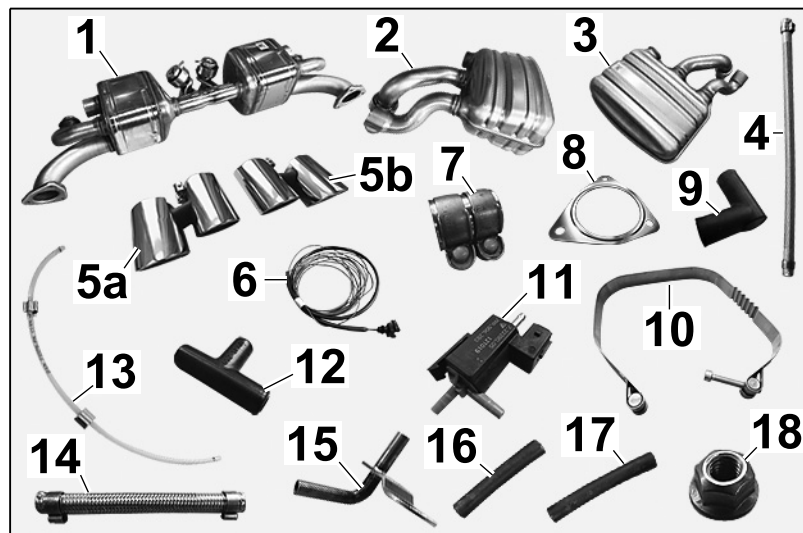


Figure 2

991.111.437.07	1 x	Front muffler ⇒ Figure 2-1-
991.111.321.01 ¹	1 x	Main muffler, left ⇒ Figure 2-2-
991.111.322.01 ¹	1 x	Main muffler, right ⇒ Figure 2-3-
991.111.325.01 ²	1 x	Main muffler, left (not shown)
991.111.326.01 ²	1 x	Main muffler, right (not shown)
991.111.492.00	2 x	Vacuum line, 190 mm (steel flexi-pipe) ⇒ Figure 2-4-
991.111.465.03	1 x	Tailpipe cover, left ⇒ Figure 2-5a-
991.111.466.03	1 x	Tailpipe cover, right ⇒ Figure 2-5b-
991.612.905.00	1 x	Electric wire harness ⇒ Figure 2-6-
997.111.520.00	2 x	Clamping sleeve ⇒ Figure 2-7-
991.111.482.00	2 x	Seal ⇒ Figure 2-8-
948.110.126.00	1 x	Connecting piece ⇒ Figure 2-9-
991.111.481.01	2 x	Clamp ⇒ Figure 2-10-

900.910.003.03	6 x	Hexagon nut, M8 (three-hole flange, not shown)
7PP.906.283.F	1 x	Change-over valve with fresh air supply ⇒ <i>Figure 2-11-</i>
7PP.906.270	1 x	Change-over valve without fresh air supply (not shown)
06E.133.794	2 x	Distributing piece, 3-way (T-piece) ⇒ <i>Figure 2-12-</i>
900.918.005.40	1 x	Tekalan line, 5.0 x 1.0 x 1,000 mm ⇒ <i>Figure 2-13-</i>
991.111.491.00	1 x	Vacuum line, 80 mm (steel flexi-pipe) ⇒ <i>Figure 2-14-</i>
991.111.488.00	1 x	Holder ⇒ <i>Figure 2-15-</i>
999.651.401.01	1 x	Fixing clip on engine carrier (not shown)
999.239.037.40	1 x	Hose, 50 mm ⇒ <i>Figure 2-16-</i>
999.239.045.40	1 x	Hose, 60 mm ⇒ <i>Figure 2-17-</i>
N 104.355.01	8 x	Collar nuts, M8 (strut) ⇒ <i>Figure 2-18-</i>
N 020.904.4	15 x	Tie-wrap (not shown)
999.141.047.01	4 x	Torx screw, M10 x 28 (for securing seat, not shown)

1 **ONLY** contained in set 991.044.200.03.

2 Not for USA.

Materials:	000.043.204.82	1 x	Adhesive compound
	000.043.004.82	1 x	Optimol-HT mounting paste
	— — —		Rust solvent, commercially available, e.g. WD40

Notes: **Identifying features when installed:**

In addition to the Porsche logo, a part number is shown on the rear mufflers and front muffler.

	USA
Main muffler, left	991.111.321.01
Main muffler, right	991.111.322.01
Front muffler	991.111.437.06

- Tools:
- 9818 - PIWIS Tester II**
 - T10118 - Assembly tool**
 - P300 - Socket-wrench insert**

Work Procedure: 1 Preparatory work.

1.1 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*



Moving components

- **Danger of limbs being trapped or severed**
 - ⇒ **Do not reach into the danger area.**
 - ⇒ **Secure the system to prevent it from being activated accidentally.**
 - ⇒ **Keep third parties away from the danger area.**
- 1.2 Extend the rear spoiler manually using the rocker switch in the passenger compartment.
 - 1.3 Remove left door sill trim. ⇒ *Workshop Manual '680519 Removing and installing inner door sill trim'*
 - 1.4 Remove left front seat. ⇒ *Workshop Manual '720119 Removing and installing front seat'*
 - 1.5 Remove rear seat cushion. ⇒ *Workshop Manual '745719 Removing and installing rear seat cushion'*
 - 1.6 **Only** for the Coupé:
 - 1.6.1 Remove rear roof trim panel. ⇒ *Workshop Manual '708519 Removing and installing rear roof trim panel'*
 - 1.6.2 Remove B-pillar trim panel at the left and right. ⇒ *Workshop Manual '706719 Removing and installing B-pillar trim panel'*
 - 1.6.3 Remove C-pillar trim panel at the left and right. ⇒ *Workshop Manual '706819 Removing and installing C-pillar trim panel'*
 - 1.6.4 Remove rear side trim panel at left and right. ⇒ *Workshop Manual '707519 Removing and installing rear side trim panel'*
 - 1.6.5 Remove rear cover. ⇒ *Workshop Manual '705319 Removing and installing rear cover'*
 - 1.6.6 Removing moulded part ⇒ *Figure 3 -1-*.
 - 1.7 **Only** for the Cabriolet:
 - 1.7.1 Remove rear side trim panel at the left. ⇒ *Workshop Manual '707519 Removing and installing rear side trim panel'*
 - 1.7.2 Remove trim panel for rear wall. ⇒ *Workshop Manual '703119 Removing and installing trim panel for rear wall'* ⇒ *Workshop Manual '703119 Removing and installing trim panel for rear wall'*
 - 1.7.3 Remove rear cover. ⇒ *Workshop Manual '705319 Removing and installing rear cover'*

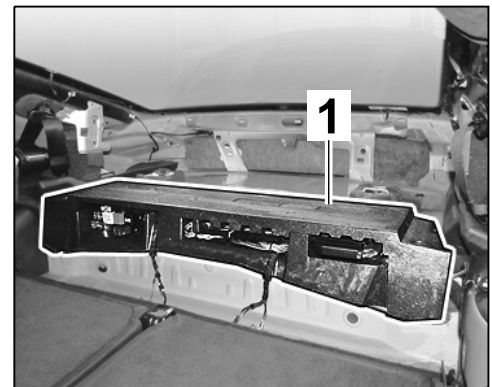


Figure 3

1.7.4 Remove trim panel for convertible top compartment. ⇒ *Workshop Manual '700819 Removing and installing trim panel for convertible top compartment'*

1.8 Remove fixing clip for carpet ⇒ *Figure 4-1-*.

1.9 Align the support plates of the lifting platform with the jacking points and raise the vehicle. ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*

1.10 Remove the following components in the rear area.

1.10.1 Remove rear wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel'*

1.10.2 Remove engine-compartment blower. ⇒ *Workshop Manual '198119 Removing and installing engine-compartment blower'*

1.10.3 Remove air guide. ⇒ *Workshop Manual '243619 Removing and installing air guide'*

1.10.4 Remove tail lights. ⇒ *Workshop Manual '943119 Removing and installing tail light'*

1.10.5 Remove rear spoiler. ⇒ *Workshop Manual '66581905 Removing and installing rear spoiler'*

1.10.6 Remove rear apron. ⇒ *Workshop Manual '635519 Removing and installing rear apron'*

1.10.7 Remove rear bumper. ⇒ *Workshop Manual '635019 Removing and installing rear bumper'*

1.10.8 Remove retaining frame with heat protection at the left and right. ⇒ *Workshop Manual '261519 Removing and installing retaining frame with heat protection'*

1.10.9 Remove air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing'*

1.10.10 Remove DME control unit. ⇒ *Workshop Manual '247019 Removing and installing DME control unit'*

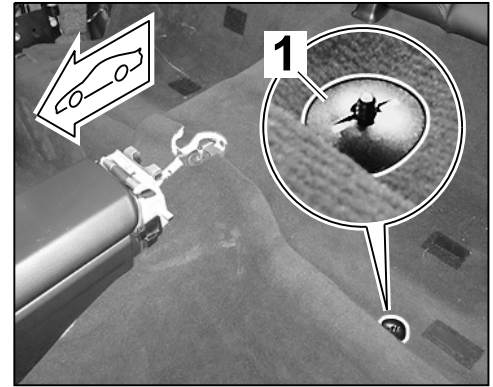


Figure 4

CAUTION

Hot components

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

1.11 Remove front silencer.

- 1.11.1 Remove tailpipe covers. ⇒ *Workshop Manual '263519 Removing and installing tailpipe cover'*
- 1.11.2 Unscrew three M8 lock nuts ⇒ *Figure 5-1-* on the three-hole flange at the left and right.

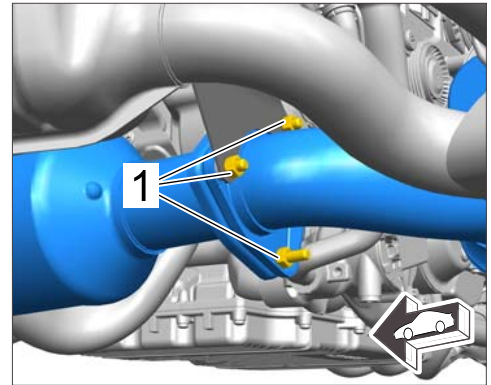


Figure 5

- 1.11.3 Screw off two M8 collar nuts at the left and right ⇒ *Figure 6-1-* and remove strut ⇒ *Figure 6-2-*.

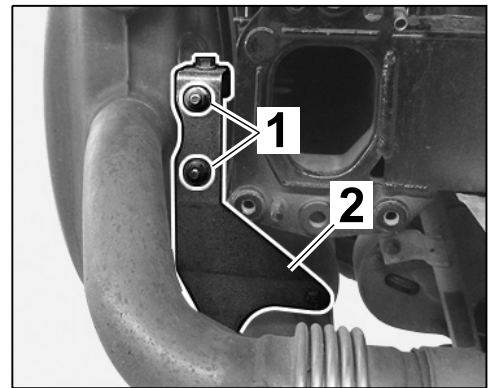


Figure 6

- 1.11.4 Open two hexagon nuts ⇒ *Figure 7-2-* and move the clamp at the left ⇒ *Figure 7-1-* and right.
- 1.11.5 Swivel the main mufflers outwards.

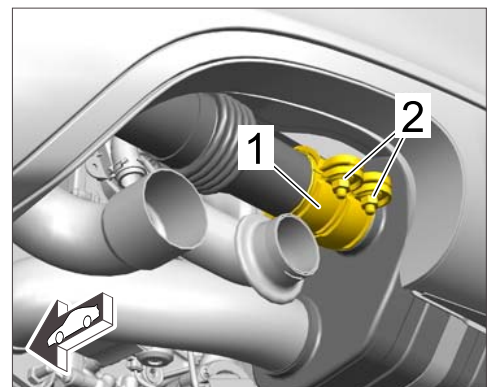


Figure 7



Information

- The help of another person is required for removing and reinstalling the muffler.

1.11.6 Loosen two M8 x 50 cheese head bolts ⇒ *Figure 8-3-* on the restraining straps and open the restraining straps.

Remove front muffler.

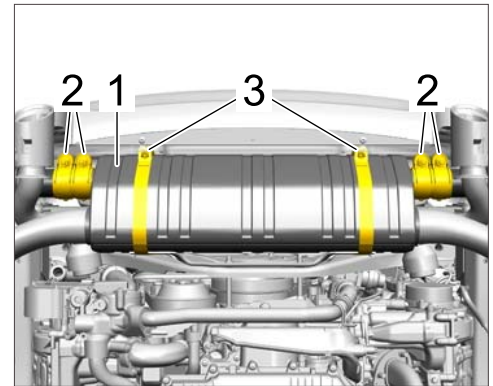


Figure 8



Information

- The help of another person is required for removing and reinstalling the muffler.

1.12 Remove main mufflers at the left and right.

1.12.1 Unscrew two M8 collar nuts ⇒ *Figure 9-3-* on the holder ⇒ *Figure 9-2-* for the main muffler at the left ⇒ *Figure 9-1-* and right in the wheel housing.

1.12.2 Remove main mufflers.

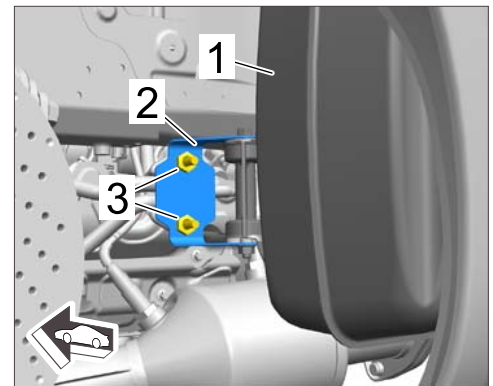


Figure 9



Risk of damage to lines and/or hoses (vacuum)

- due to incorrect routing.
- ⇒ Maintain a sufficient distance from components exposed to high temperatures while driving.
- ⇒ Avoid making tight bends.

2 Route vacuum lines in the engine compartment.

2.1 Remove heat shield on the engine carrier. ⇒ *Workshop Manual '261419 Removing and installing heat shield on engine carrier'*

- 2.2 **Only** for vehicles without the bore ⇒ *Figure 10-1-*.

Drill out the bore in the heat shield on the engine carrier.



Figure 10

- 2.2.1 Drill the bore hole on the heat shield on the engine carrier according to the dimensions shown in ⇒ *Figure 11*.

- A** - 11.5 mm
B - 21.4 mm
C - Diameter: 7 mm + 0.2

- 2.2.2 Drill a hole in the heat shield on the engine carrier.
2.2.3 De-burr the bore.

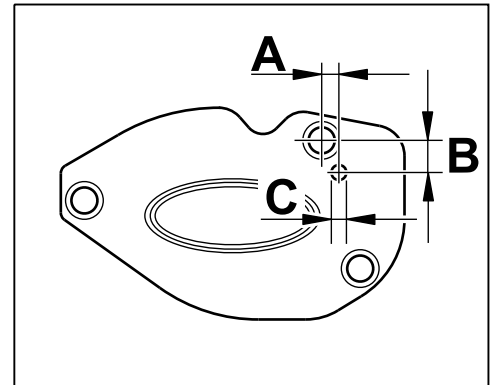


Figure 11

- 2.3 Assemble vacuum lines (heat shield area).

- 2.3.1 Fit holder ⇒ *Figure 12-1-* to the heat shield on the engine carrier ⇒ *Figure 12-2-*.

- 2.3.2 Cut a 420-mm length off the supplied Tekalan line.



Information

Insert vacuum line at least 10 mm into the steel flexi-pipe.

- 2.3.3 Fit 190-mm steel flexi-pipe ⇒ *Figure 12-3-* and 420-mm Tekalan line ⇒ *Figure 12-4-* together.

- 2.3.4 Slide steel flexi-pipe onto the holder.

- 2.3.5 Lock single-lug clips ⇒ *Figure 12-5-*.

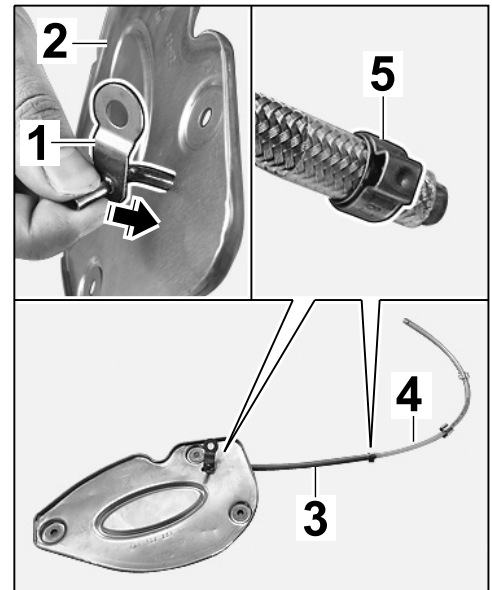


Figure 12

- 2.4 Install heat shield on engine carrier. ⇒ *Workshop Manual '261419 Removing and installing heat shield on engine carrier'*
- 2.5 Fit 190-mm steel flexi-pipe ⇒ *Figure 13-1-* on holder.
Lock single-lug clip ⇒ *Figure 13-2-*.

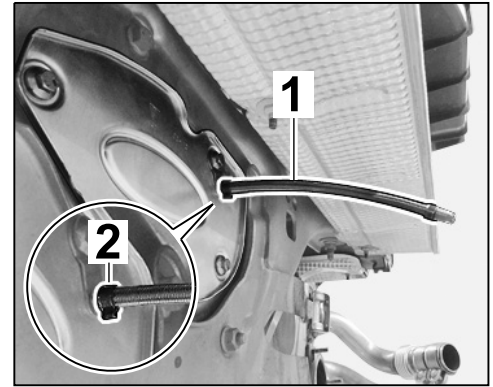


Figure 13

- 2.6 Route vacuum line (420-mm Tekalan line) ⇒ *Figure 14-1-* to the change-over valve.
 - 2.6.1 Fit fixing clip ⇒ *Figure 14-2-* on engine carrier ⇒ *Figure 14-4-*.
Clip 420-mm Tekalan line into the fixing clip.
 - 2.6.2 Fit 420-mm Tekalan line ⇒ *Figure 14-1-* into holder ⇒ *Figure 14-3-* (⇒ *Figure 14-arrow-*).

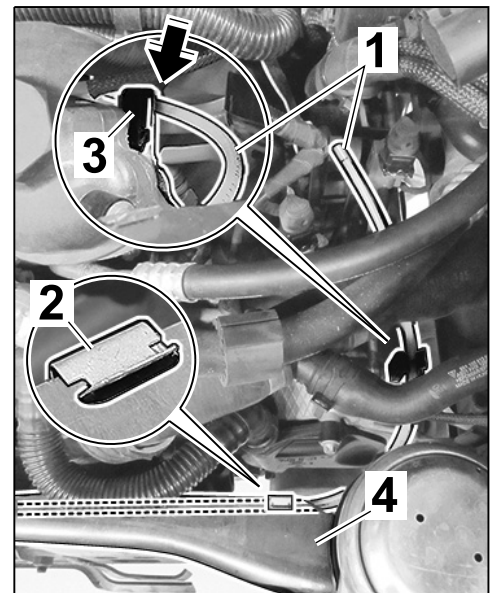


Figure 14

- 3 Fit change-over valve for sport exhaust system and connect vacuum lines.
 - 3.1 Vehicles **without** fresh air supply.

3.1.1 Overview of vehicles without fresh air supply.

- 1 – Standard change-over valve
- 2 – Change-over valve for sport exhaust system

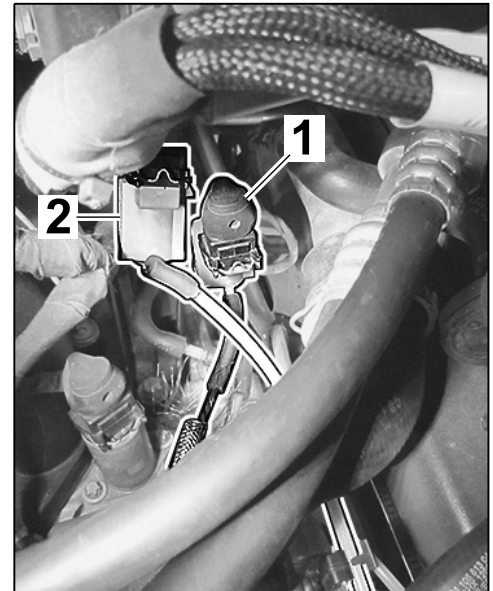


Figure 15

3.1.2 Cut standard vacuum line (Tekalan) ⇒ Figure 16-3- approx. 1 cm ahead of the T-piece ⇒ Figure 16 -2-.

- 1 – Standard change-over valve

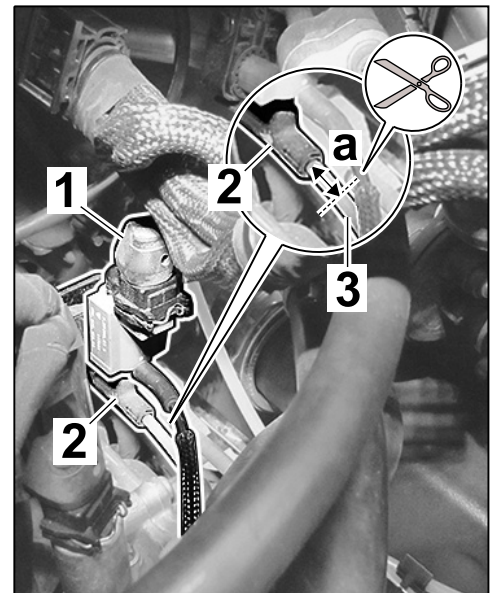


Figure 16

3.1.3 Fit change-over valve for sport exhaust system ⇒ *Figure 17-1-* on the holder.

Insert the ends of the vacuum line (Tekalan) you have just cut at least 10 mm into the T-piece ⇒ *Figure 17-5-*.

Cut a 20-mm length off the supplied Tekalan line.

Fit the Tekalan line you have just cut ⇒ *Figure 17-4-* at least 10 mm into the 50-mm hose ⇒ *Figure 17-3-*.

Fit 50-mm hose ⇒ *Figure 17-3-* on change-over valve for sport exhaust system ⇒ *Figure 17-1-*. Slide the Tekalan line you have just cut ⇒ *Figure 17-4-* at least 10 mm into the T-piece.

Fit 420-mm Tekalan line ⇒ *Figure 17-6-* in connecting piece ⇒ *Figure 17-2-* and fit connecting piece on change-over valve for sport exhaust system.

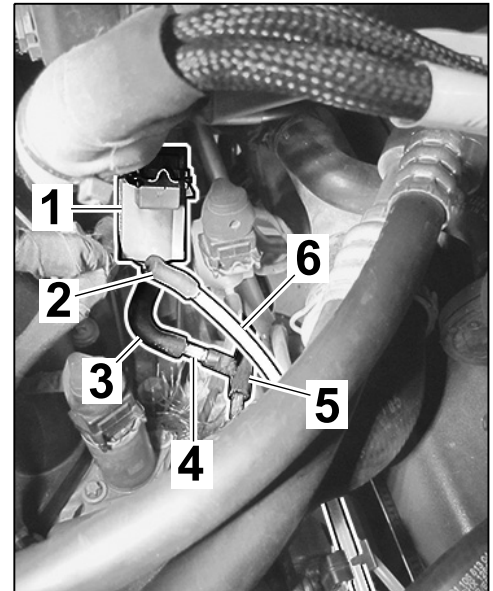


Figure 17

3.2 Vehicles **with** fresh air supply.

3.2.1 Overview of vehicles with fresh air supply (hatched line).

- 1 - 60-mm hose
- 2 - T-piece
- 3 - Change-over valve for sports exhaust system
- 4 - Standard change-over valve
- 5 - 50-mm hose
- 6 - 420-mm Tekalan line
- 7 - Connecting piece
- 8 - 190-mm steel flexi-pipe
- 9 - Holder

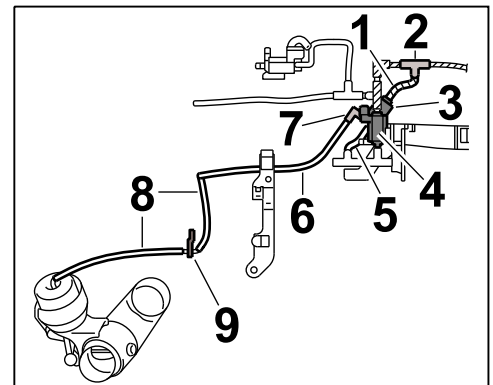


Figure 18

3.2.2 Assemble vacuum lines for change-over valve for sport exhaust system.

- 1 - 20-mm Tekalan line
- 2 - 60-mm hose
- 3 - 50-mm hose
- 4 - Change-over valve for sports exhaust system

Cut two 20-mm lengths off the supplied Tekalan line.

Insert 20-mm Tekalan line ⇒ *Figure 19-1*- at least 10 mm into the 60-mm vacuum hose ⇒ *Figure 19-2*- and fit the 50-mm vacuum hose ⇒ *Figure 19-3*-.

Fit 50-mm vacuum hose ⇒ *Figure 19-3*- on change-over valve for sports exhaust system.

Fit 60-mm vacuum hose ⇒ *Figure 19-2*- on change-over valve for sports exhaust system.



Information

Figure shows the position of the components with engine removed.

3.2.3 Cut fresh air supply line ⇒ *Figure 20-1*- for the standard change-over valve.

Cut supply line ⇒ *Figure 20-2*- for the standard change-over valve.

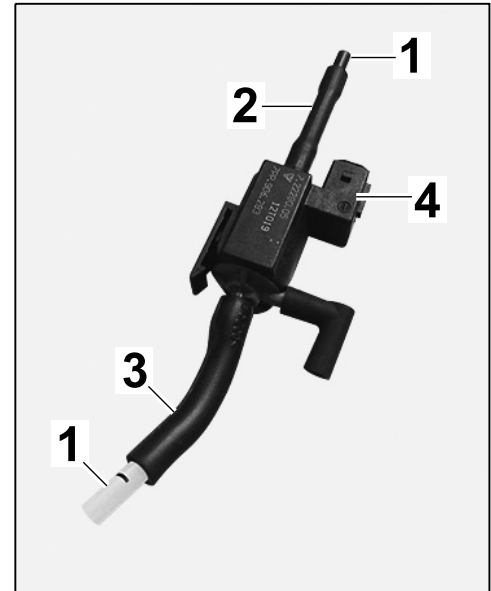


Figure 19

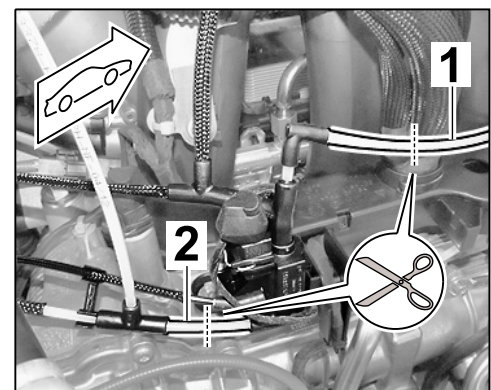


Figure 20

- 3.2.4 Insert Tekalan lines at least 10 mm into the T-pieces ⇒ *Figure 21 -1-*.

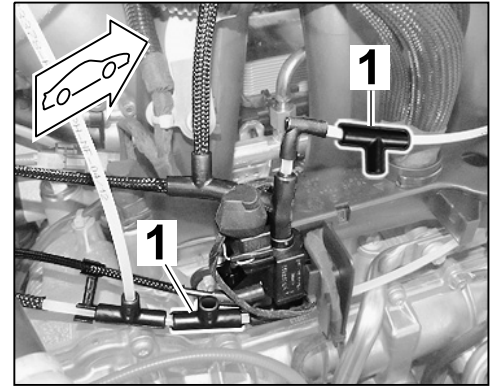


Figure 21

- 3.2.5 Fit change-over valve for sport exhaust system ⇒ *Figure 22-1-* on the holder ⇒ *Figure 22-2-*. Fit vacuum hoses at least 10 mm into the T-piece ⇒ *Figure 22 -1-* (⇒ *Figure 22 -arrows-*).

Insert 50-mm vacuum hose and 60-mm vacuum at least 10 mm into the T-piece ⇒ *Figure 22-3-* (⇒ *Figure 22 -arrows-*).

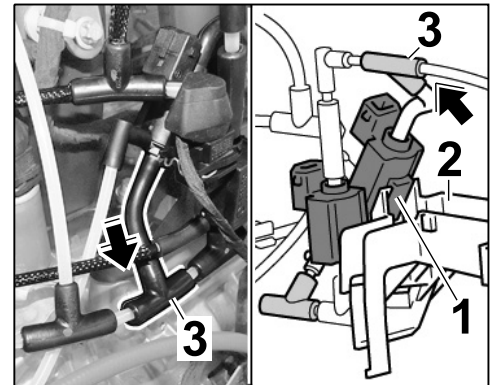


Figure 22

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.

- 4 Route electric wire harness as follows:
 Engine compartment → through the grommet → along standard wire harness in passenger compartment at the left/right → rear-end electronics control unit

- 4.1 Punch grommet ⇒ *Figure 23 -1-* in the passenger compartment.
- 4.2 Secure electric wire harness to the auxiliary line.

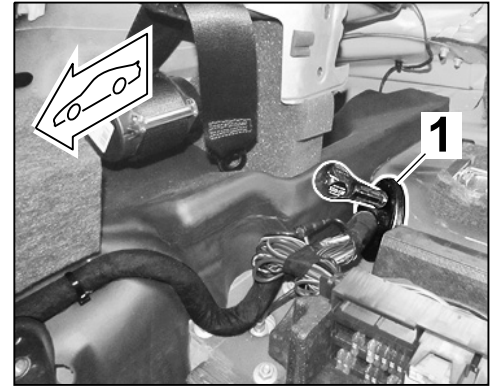


Figure 23

- 4.3 Connect plug connection ⇒ *Figure 24 -arrow-* for change-over valve for sport exhaust system ⇒ *Figure 24 -1-*.
- 4 – Oil-filter housing

Insert electric wire harness ⇒ *Figure 24 -2-* through the grommet ⇒ *Figure 24 -3-*.

- 4.4 **Only** for the Coupé:

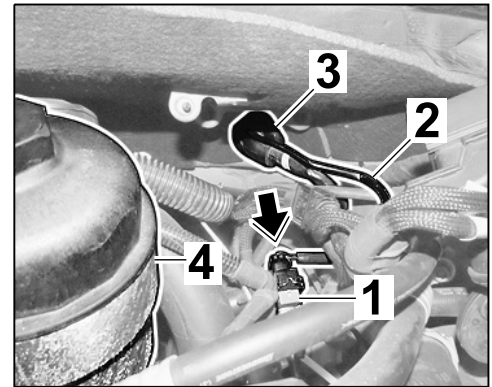


Figure 24

- 4.4.1 Route electric wire harness ⇒ *Figure 25 -1-* along wire harness in passenger compartment at the left and wire harness in passenger compartment at the right.

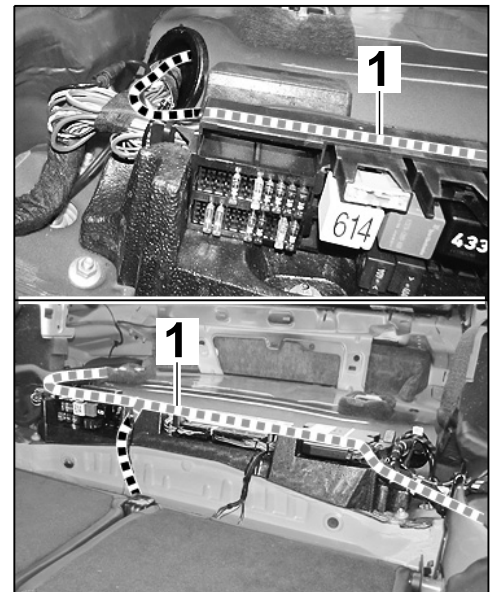


Figure 25

4.4.2 Route electric wire harness ⇒ *Figure 26-1*- along wire harness in passenger compartment at the left, in cable duct ⇒ *Figure 26-2*- to the rear-end electronics control unit ⇒ *Figure 26-3*-.

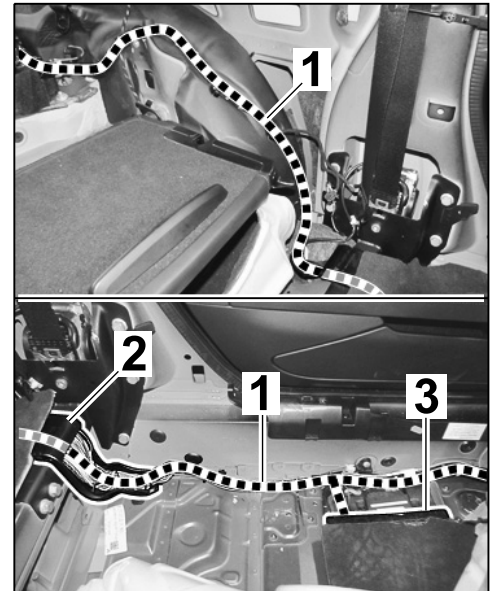


Figure 26

4.4.3 Secure cable ring eyelet to ground point 15 ⇒ *Figure 27* -arrow-.

- 1 - PASM control unit
- 2 - Parking brake control unit

4.5 **Only** for the Cabriolet:

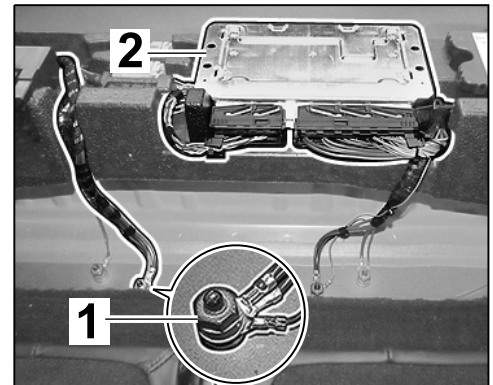


Figure 27



Information

Figure shows vehicle without convertible top.

- 4.5.1 Route electric wire harness ⇒ *Figure 28-1*- along wire harness in passenger compartment at the right and wire harness in passenger compartment at the left.

2 - Grommet

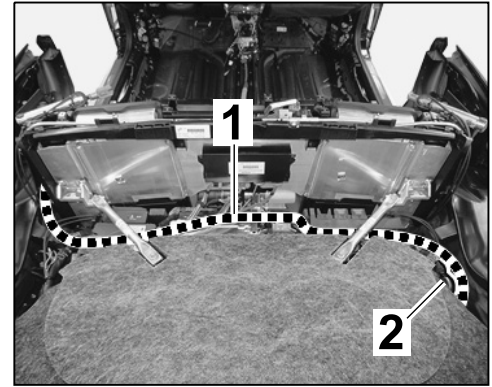


Figure 28

- 4.5.2 Use the auxiliary line ⇒ *Figure 29-1*- to guide the electric wire harness between the cable duct ⇒ *Figure 29-2*- and water collection pan ⇒ *Figure 29-3*- into the passenger compartment.

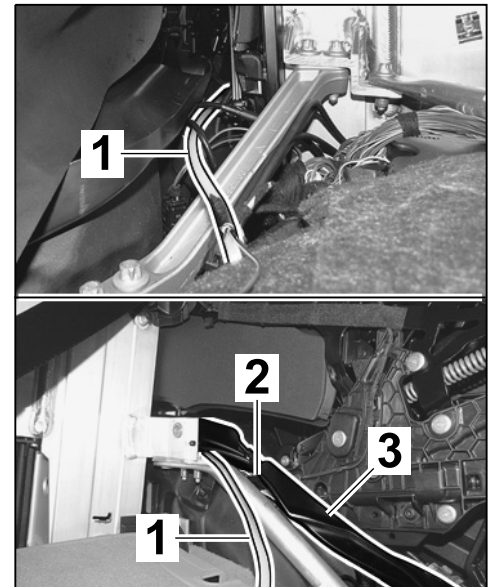


Figure 29

- 4.5.3 Route electric wire harness ⇒ *Figure 30-1*- along wire harness in passenger compartment at the left, in cable duct ⇒ *Figure 30-2*- to the rear-end electronics control unit ⇒ *Figure 30-3*-.

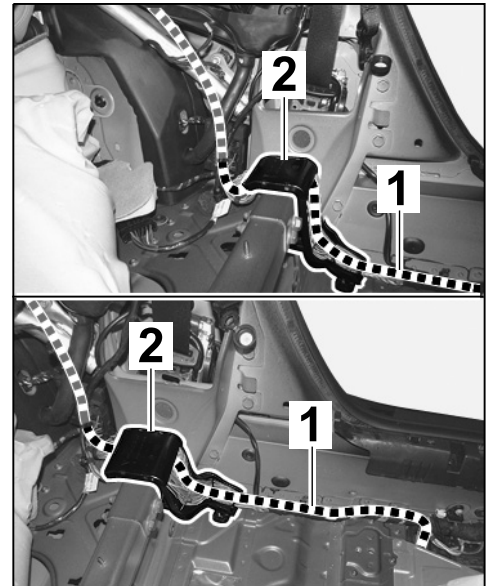


Figure 30

- 4.5.4 Secure cable ring eyelet to ground point 15 ⇒ *Figure 31-1*-.

2 – Backrest

- 4.6 Connect electric wire harness to the rear-end electronics control unit.

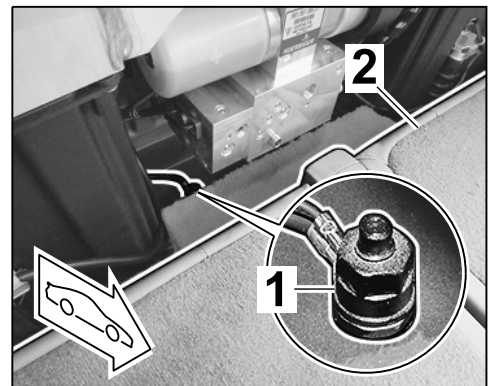


Figure 31

- 4.6.1 **Only** for the Cabriolet:

Unscrew screws ⇒ *Figure 32-1*- and M6 hexagon nut ⇒ *Figure 32-2*-.

Remove reinforcement plate ⇒ *Figure 32-3*-.

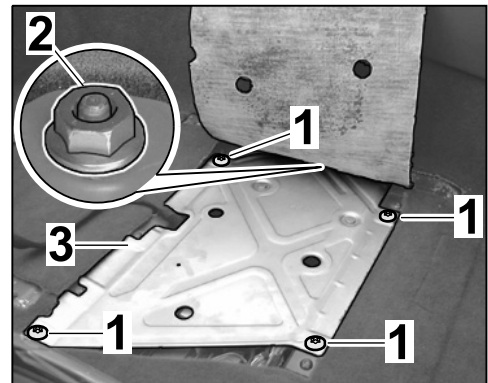


Figure 32

- 4.6.2 Fold the carpet ⇒ *Figure 33* **-arrow-** aside.
- 4.6.3 Remove rear-end electronics control unit ⇒ *Figure 33-1-* from the foam holder ⇒ *Figure 33-2-* and turn it until the plug connections are accessible.

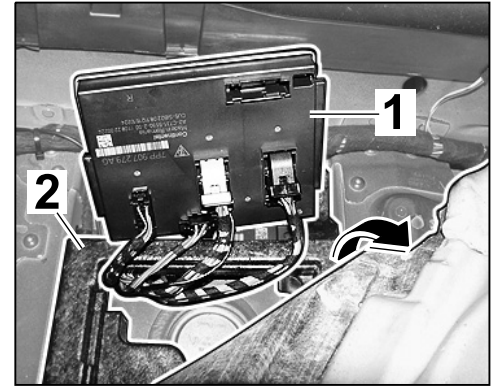


Figure 33

- 4.6.4 Release the centre electric plug connection ⇒ *Figure 34-2-* (blue) by pressing the locking mechanism ⇒ *Figure 34-arrow-* and swivel the clip ⇒ *Figure 34-1-* upwards ⇒ *Figure 34-arrow-*.

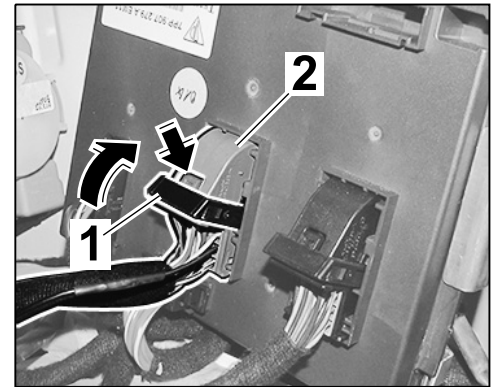


Figure 34

- 4.6.5 Press down the locking mechanism ⇒ *Figure 35-arrow-* and slide the grey plug socket ⇒ *Figure 35-1-* out of the plug carrier ⇒ *Figure 35-2-*.
- 4.6.6 Crimp socket contact and BK/YE line together.

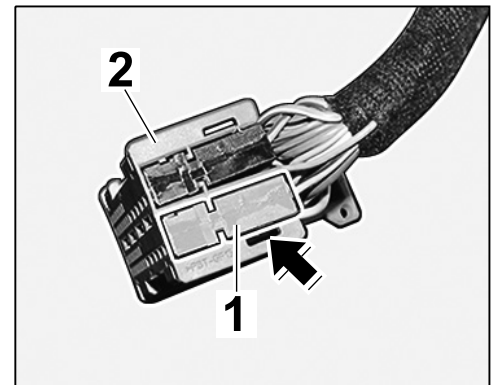


Figure 35



Information

Ensure socket contact is seated securely.

- 4.6.7 Insert socket contact ⇒ *Figure 36 -1-* into chamber A2 of the grey plug socket ⇒ *Figure 36-2-*.

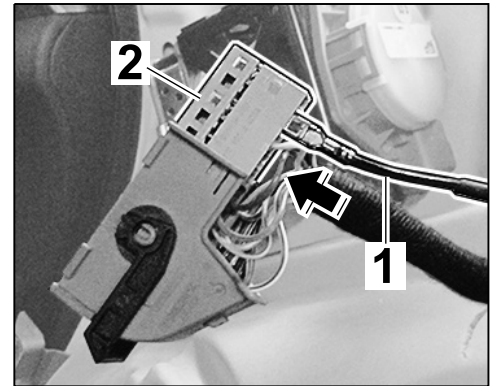


Figure 36

- 4.6.8 Slide grey plug socket ⇒ *Figure 37 -1-* into the plug carrier ⇒ *Figure 37-2-* until the locking mechanism ⇒ *Figure 37-arrow-* engages.

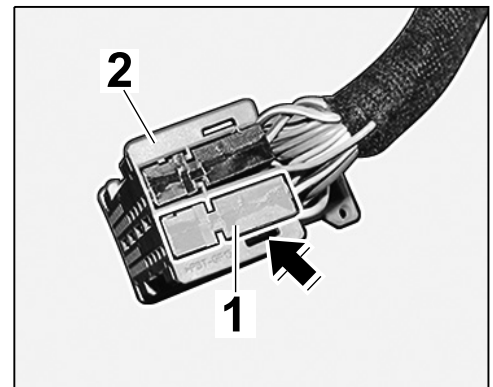


Figure 37

- 4.6.9 Connect electric plug connection ⇒ *Figure 38-2-* and swivel the clip ⇒ *Figure 38-1-* downwards.

- 4.6.10 Insert rear-end electronics control unit into the foam holder.

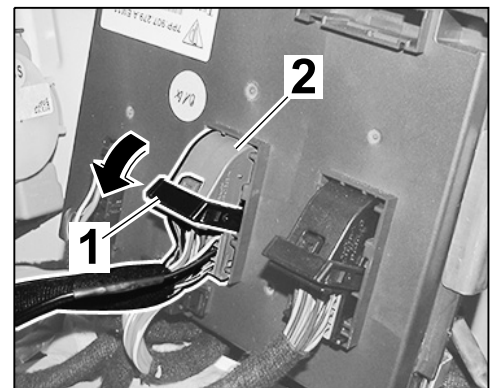


Figure 38

- 4.6.11 **Only** for the Cabriolet:
Fit reinforcement plate ⇒ *Figure 39-3-*. Screw in and tighten M6 hexagon nut ⇒ *Figure 39-2-* and screws ⇒ *Figure 39-1-*.
- 4.6.12 Fold back the carpet.

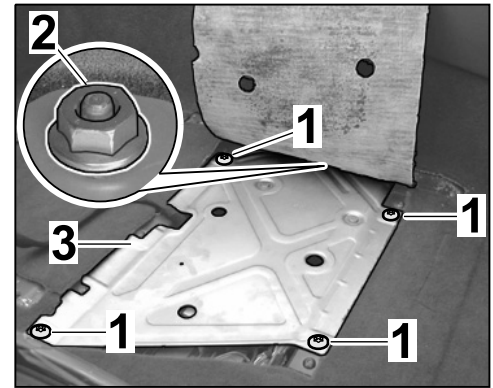


Figure 39

- 4.7 Seal grommet ⇒ *Figure 40-arrow-* with adhesive compound.

**Information**

- Apply a light coating of high-temperature grease (e.g. Optimoly HT, Part No. 000.043.004.00) on the clamp or pipe adapter before installation.

- 5 Install sport exhaust system.

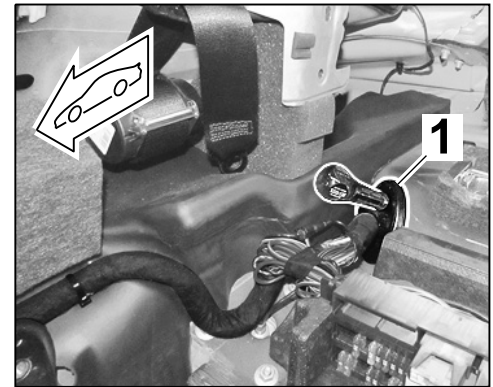


Figure 40

**Information**

- The help of another person is required for removing and reinstalling the muffler.

- 5.1 Position main silencer at the left ⇒ *Figure 9-1-* and right on the main silencer holder at the front ⇒ *Figure 9-2-* and secure with two new M8 collar nuts ⇒ *Figure 10-3-*.
- 5.2 Slide clamp onto the connecting tube.

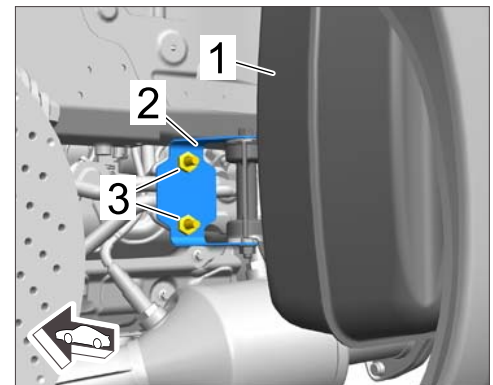


Figure 41

- 5.3 Fit 80-mm steel flexi-pipe ⇒ *Figure 42 -1-* on the connections between the vacuum units.
Lock single-lug clips ⇒ *Figure 42 -2-*.
- 5.4 Fit new metal seals on the three-hole flange at the left and right.
- 5.5 Fit front muffler on the three-hole flange and secure with a new M8 hexagon-head bolt.
- 5.6 Slide new restraining straps over the holder on the engine carrier.

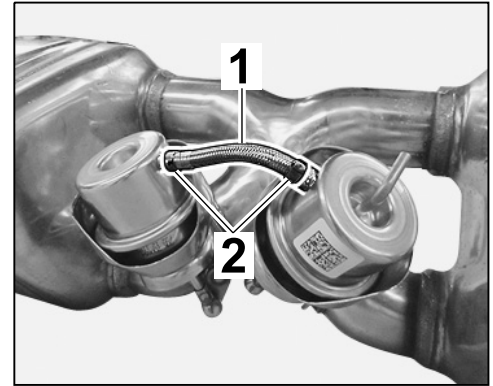


Figure 42

- 5.7 Screw in M8 x 50 cheese head bolts ⇒ *Figure 43 -3-* as far as required on the restraining straps so that the front muffler ⇒ *Figure 43 -1-* can still be moved.
- 5.8 Swivel main mufflers at the left and right inwards.
Position clamps and fit two hexagon nuts on each clamp. **Figure**
- 5.9 Install the strut.

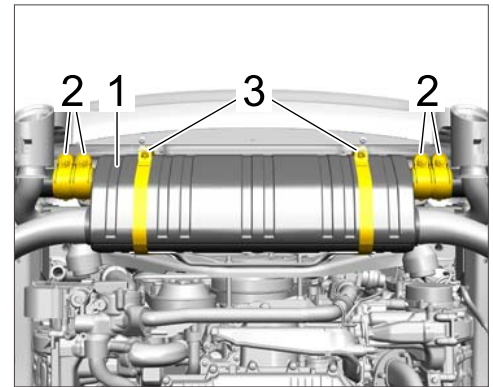


Figure 43

- 5.9.1 Position strut ⇒ *Figure 44 -2-* on the rear holder and three-hole flange.
- 5.9.2 Screw on two new M8 collar nuts ⇒ *Figure 44 -1-* on the rear holder.

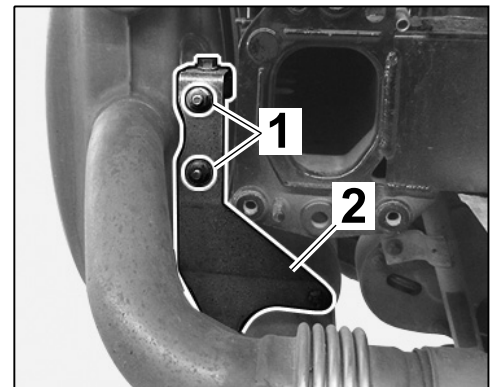


Figure 44

- 5.9.3 Fit two new M8 hexagon nuts ⇒ *Figure 45-1-* on the three-hole flange.
- 5.10 Tighten threaded joints on front silencer.
- 5.10.1 Tighten M8 hexagon nuts on the three-hole flanges on the exhaust manifold.
Tightening torque 23 Nm (17 ftlb.)
- 5.10.2 Tighten M8 collar nuts on the clamps.
Tightening torque 23 Nm (17 ftlb.)
- 5.10.3 Tighten M8 x 50 cheese head bolts on the restraining straps.
Tightening torque 18 Nm (13 ftlb.)
- 5.11 Tighten threaded joints on the main muffler.
- 5.11.1 Tighten M8 collar nuts on the rear holder (strut).
Tightening torque 23 Nm (17 ftlb.)
- 5.11.2 Tighten M8 collar nuts on the front holder (rear wheel housing) by 1 mm.
Tightening torque 23 Nm (17 ftlb.)
- 5.12 Fit 190-mm steel flexi-pipe ⇒ *Figure 46 -1-* on the vacuum unit connection ⇒ *Figure 46 -2-*.
Lock single-lug clip ⇒ *Figure 46 -3-*.

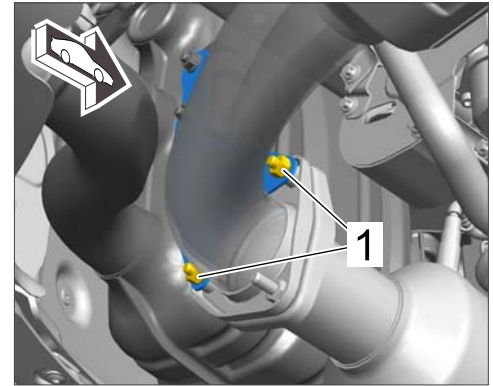


Figure 45

6 Concluding work.

- 6.1 Install the following parts in the rear area.
- 6.1.1 Install DME control unit. ⇒ *Workshop Manual '247019 Removing and installing DME control unit'*
- 6.1.2 Install air cleaner housing. ⇒ *Workshop Manual '242519 Removing and installing air cleaner housing'*
- 6.1.3 Install retaining frame with heat protection at the left and right. ⇒ *Workshop Manual '261519 Removing and installing retaining frame with heat protection'*
- 6.1.4 Install rear bumper. ⇒ *Workshop Manual '635019 Removing and installing rear bumper'*

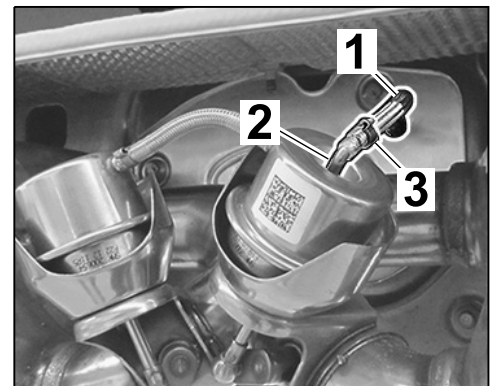


Figure 46

- 6.1.5 Install rear apron. ⇒ *Workshop Manual '635519 Removing and installing rear apron'*
- 6.1.6 Install rear spoiler. ⇒ *Workshop Manual '66581905 Removing and installing rear spoiler'*
- 6.1.7 Install tail lights. ⇒ *Workshop Manual '943119 Removing and installing tail light'*
- 6.1.8 Install air guide. ⇒ *Workshop Manual '243619 Removing and installing air guide'*
- 6.1.9 Install engine-compartment blower. ⇒ *Workshop Manual '198119 Removing and installing engine-compartment blower'*
- 6.1.10 Fit rear wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 6.1.11 Install tailpipe covers. ⇒ *Workshop Manual '263519 Removing and installing tailpipe cover'*
- 6.2 Lower the vehicle and swivel support plates of the lifting platform aside. ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
- 6.3 Fit fixing clip for carpet ⇒ *Figure 47-1-*.
- 6.4 **Only** for the Coupé:

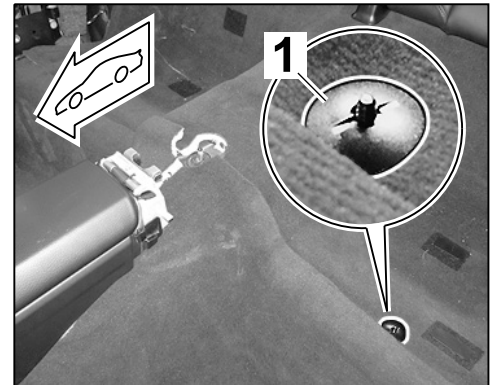


Figure 47

- 6.4.1 Fit moulded part ⇒ *Figure 48-1-*.
- 6.4.2 Install rear cover. ⇒ *Workshop Manual '705319 Removing and installing rear cover'*
- 6.4.3 Install rear side trim panel at the left and right. ⇒ *Workshop Manual '707519 Removing and installing rear side trim panel'*
- 6.4.4 Install C-pillar trim panel at the left and right. ⇒ *Workshop Manual '706819 Removing and installing C-pillar trim panel'*
- 6.4.5 Install B-pillar trim panel at the left and right. ⇒ *Workshop Manual '706719 Removing and installing B-pillar trim panel'*

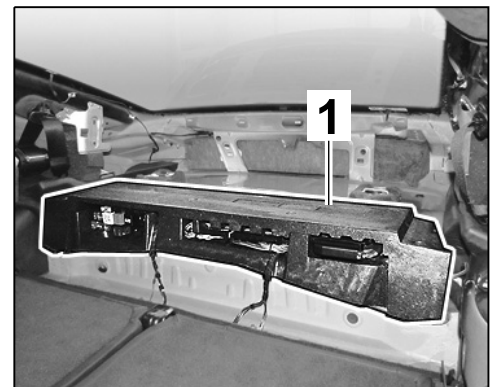


Figure 48

- 6.4.6 Install rear roof trim panel. ⇒ *Workshop Manual '708519 Removing and installing rear roof trim panel'*
- 6.5 **Only** for the Cabriolet:
- 6.5.1 Install trim panel for convertible top compartment. ⇒ *Workshop Manual '700819 Removing and installing trim panel for convertible top compartment'*
- 6.5.2 Install rear cover. ⇒ *Workshop Manual '705319 Removing and installing rear cover'*
- 6.5.3 Install trim panel for rear wall. ⇒ *Workshop Manual '703119 Removing and installing trim panel for rear wall'*
- 6.5.4 Install rear side trim panel at the left. ⇒ *Workshop Manual '707519 Removing and installing rear side trim panel'*
- 6.6 Install rear seat cushion. ⇒ *Workshop Manual '745719 Removing and installing rear seat cushion'*
- 6.7 Install left front seat. ⇒ *Workshop Manual '720119 Removing and installing front seat'*
- 6.8 Connect the battery. ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*
- 6.9 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

 **WARNING****Moving components**

- **Danger of limbs being trapped or severed**
- ⇒ **Do not reach into the danger area.**
- ⇒ **Secure the system to prevent it from being activated accidentally.**
- ⇒ **Keep third parties away from the danger area.**

- 6.10 Retract the rear spoiler manually using the rocker switch in the passenger compartment.
- 6.11 Convert switch console.
- 6.11.1 Remove switch console. ⇒ *Workshop Manual '962719 Removing and installing switch console'*

**Information**

The switch console consists of a total of 16 buttons, 10 light guides and 10 trims. Each half can be used for the left or right row of the main body.

- 6.11.2 Assemble new switch console in accordance with the new vehicle equipment.

Fit light guide at the correct side ⇒
Figure 49-1- in the main body ⇒
Figure 49-arrow-.

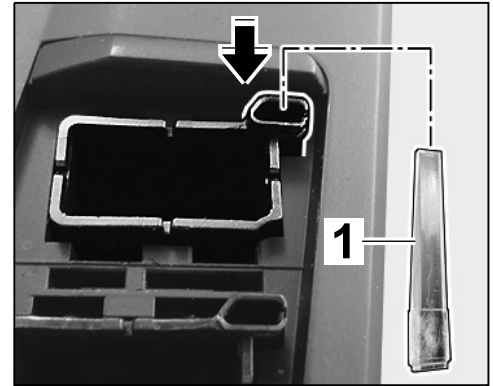


Figure 49

Fit trim ⇒ Figure 49-1- underneath
the button in the main body ⇒
Figure 49-arrows-.

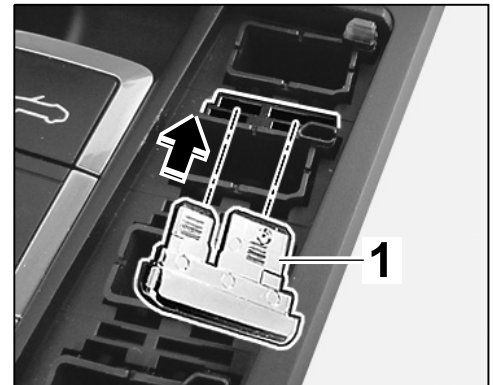


Figure 49

Position button ⇒ Figure 50-1- and
clip it into the main body ⇒ Figure
50-arrow-.

6.11.3 Install switch console. ⇒ *Workshop
Manual '962719 Removing and
installing switch console'*

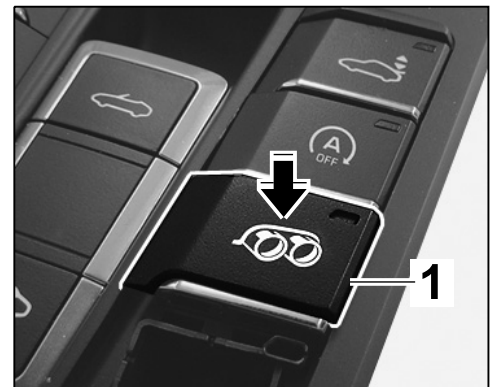


Figure 50

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**
- ⇒ **Switch off the ignition and remove the ignition key before disconnecting the control unit.**
- ⇒ **Ensure that the power supply is not interrupted during programming.**
- ⇒ **Connect a battery charger with a current rating of at least Nominal value 40 A to the vehicle battery.**



Information

The **9818 - PIWIS Tester 2** 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 additions may appear on the **9818 - PIWIS Tester 2**.

7 Code sport exhaust system.

7.1 **9818 - PIWIS Tester II** must now be connected and the ignition switched on.

7.2 Select the required vehicle type. PIWIS Tester Diagnostics starts.



Information

The sports exhaust system button can only be coded on the right-hand side of the switch console.

7.3 Code keypad assignment. ⇒ *Workshop Manual '962755 Replacing switch console'*

7.4 Maintenance of vehicle data

7.4.1 **Select Additional menu** by pressing •F7" .

7.4.2 Select the **Maintenance of vehicle data** function. Press •F12" until **M numbers** appears in the Value group column.

7.4.3 Select **176 - Sport exhaust system** in the Coding value column. When you touch the Installed cell, a tick appears.

7.4.4 Save the values by pressing •F8" . Wait until the message **Modified values have been buffered** appears.

7.4.5 Press •F12" until •F8" can be activated.

7.4.6 Press •F8" to write values. Wait until the message **Generation of vehicle data is complete** appears.

7.4.7 Press •F12" to switch to Log management. Open the log by pressing •F10" and check that vehicle equipment **176 Sports exhaust system** is displayed.

- 7.5 Adapt coding.
 - 7.5.1 Press **•F11** to return to the list of control units. Select all control units.
 - 7.5.2 Switch to the **Codings/adaptations** menu. Select **Automatic coding**. Press **•F12** to continue. Wait until the message **Coding has been completed successfully** appears. Press **•F12** to continue.
- 7.6 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. ⇒ *Workshop Manual '033500 Fault memory for on-board diagnosis'*
- 7.7 Carry out "Sport exhaust system" function test.

The exhaust flaps open when you press the "Twin tailpipe" button. The noise of the exhaust motor can be heard.
- 7.8 Disconnect battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

26013106: Sport exhaust system installed Labor time: **600 TU**
 Includes: Sport exhaust system, 3.4 l:
 Removing and installing rear silencer, front silencer, left front seat, strip for switches, entrance lining and rear seat, installing wire harness. Coding sport exhaust system.

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