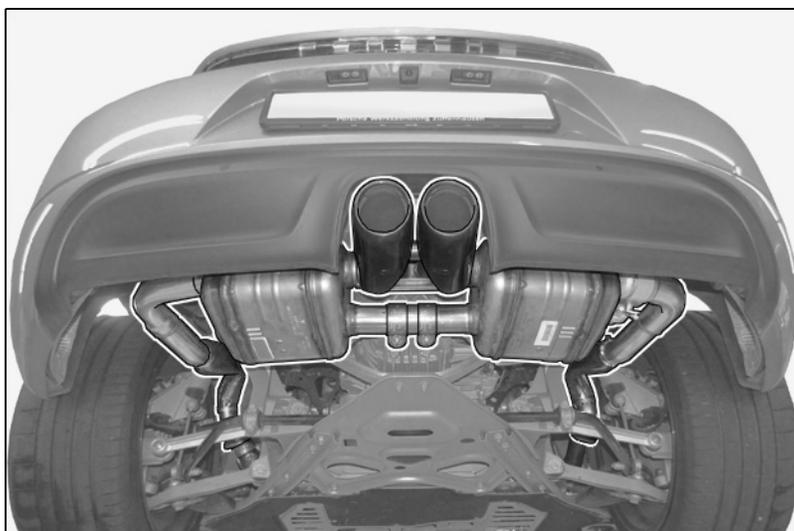


Sport Exhaust System (I-no. XLF/XLX)

Concern: **Retrofitting**

Model Year: **As of 2017**

Engine Types: MA220 = 2.0 l – Boxster
 MA222 = 2.5 l – Boxster S



Notes: The sport exhaust system can be activated/deactivated by pressing the button with the "Twin tailpipe" symbol.
 The sport exhaust system is also active in "Sport" or "SportPlus" mode. Here, the sports exhaust system can be switched off or even switched on again using the "Twin tailpipe" button.
 The switch console (combined switch) is a repair kit and must also be ordered. The repair kit contains the main body, the required buttons and the trims. The new switch console is assembled in accordance with the new vehicle equipment.
 Engine power and exhaust behavior of the vehicle are not affected. The sport exhaust system is also available ex-works for new vehicles by requesting optional equipment **XLF** or **XLX**.

Parts Info: **982.044.200.00** ⇒ Sport exhaust system with sports tailpipe, silver, set
982.044.200.01 ⇒ Sport exhaust system with sports tailpipe, black, set
982.044.200.02 ⇒ Sport exhaust system without sports tailpipe, set

Also order the following:

991.613.961.50.DML

Combined switch (switch console)

Parts list:

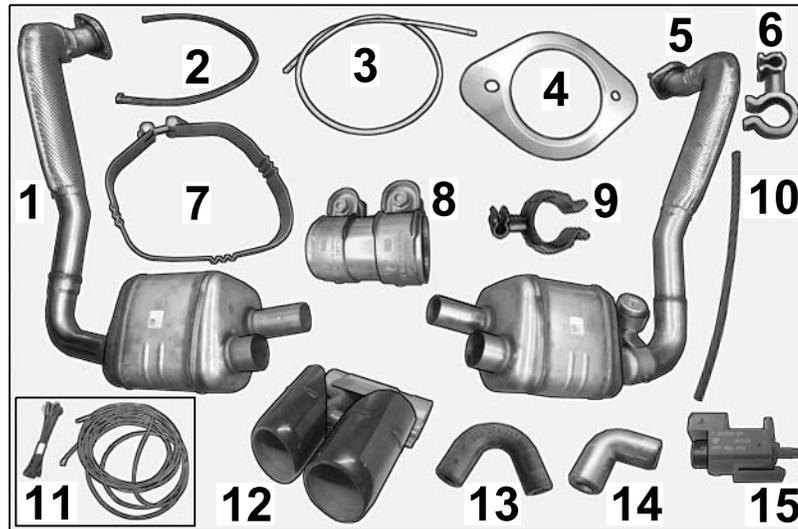


Figure 2

982.251.051.C	1 x	Rear muffler, left ⇒ Figure 2-1-
991.111.495.00	1 x	Vacuum line (steel flexi-pipe), 640 mm ⇒ Figure 2-2-
900.918.033.40	1 x	Plastic tube, 5 x 1 x 1, 100 mm ⇒ Figure 2-3-
982.251.263	2 x	Flange seal ⇒ Figure 2-4-
982.251.052.C	1 x	Rear muffler, right ⇒ Figure 2-5-
999.507.821.40	2 x	Combination holder, 4.3 - 11 ⇒ Figure 2-6-
982.251.571.E	2 x	Clamp ⇒ Figure 2-7-
981.111.280.00	1 x	Clamping sleeve ⇒ Figure 2-8-
999.591.820.40	1 x	Combination holder, 4.3 - 25 ⇒ Figure 2-9-
999.181.473.40	1 x	Protective tube ⇒ Figure 2-10-
981.612.905.00	1 x	Line (BK/YE) with tie-wrap ⇒ Figure 2-11-
982.251.187.J ¹	1 x	Sport tailpipe, black ⇒ Figure 2-12-
928.574.717.07	2 x	Molded hose, bent ⇒ Figure 2-13-
9A1.110.666.00	1 x	Angled pipe ⇒ Figure 2-14-
7PP.906.270	1 x	Change-over valve ⇒ Figure 2-15-
982.251.187.L ²	1 x	Sports tailpipe, silver
999.651.360.01	1 x	Cable attachment, 6.00 (not shown)
811.971.848.B	1 x	Cable attachment (not shown)
3D0.971.939.B	2 x	Clamp, 6.00-9.00 (fixing clip on transmission, not shown)
900.910.003.03	4 x	Hexagon nut, M8 (not shown)
999.650.566.22	1 x	Socket contact (not shown)

9A7.007.483.00	4 x	Torx screw, M10 x 28 (for securing seat, not shown)
900.918.005.40	1 x	Plastic tube, 5 x 1 x 1,000 mm (not shown)

1 Only contained in set 982.044.200.01.

2 Only contained in set 982.044.200.00.

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

Notes: **Identifying features when installed:**
A part number and the Porsche logo are shown on the rear mufflers and tailpipe.

Tools: **9900 - PIWIS Tester 3**
P300 - Socket-wrench insert
9259 - Socket-wrench insert

- Work Procedure: 1 Preparatory work:
- 1.1 Move convertible top to service position. ⇒ *Workshop Manual '6101IN Convertible-top service position'*
 - 1.2 Remove engine compartment lid. ⇒ *Workshop Manual '557819 Removing and installing engine compartment lid'*
 - 1.3 Remove inner door sill trim on the left. ⇒ *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 Loosen belt fitting in the B-pillar sill area. ⇒ *Workshop Manual '691119 Removing and installing front three-point belt'*
 - 1.6 Remove side trim panel at the left. ⇒ *Workshop Manual '707519 Removing and installing side trim panel'*
 - 1.7 Remove trim panel for rear wall. ⇒ *Workshop Manual '703119 Removing and installing trim panel for rear wall'*
 - 1.8 Remove rear wall cover. ⇒ *Workshop Manual '555919 Removing and installing rear wall cover'*
 - 1.9 Remove and install rear luggage compartment trim. ⇒ *Workshop Manual '700619 Removing and installing rear luggage compartment trim panel'*
 - 1.10 Remove rear wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel'*

- 1.11 Remove exhaust system. ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*
- 2 Route and connect line (BK/YE).
- 2.1 Installation position of connection point
- 1 – Connection point X3_1
 - 2 – DME control unit
- 2.2 Loosen DME control unit and set it aside. ⇒ *Workshop Manual '247019 Removing and installing digital engine electronics control unit'*
- 2.3 Connect line (BK/YE) to the black 17-pin connector socket (connection point X3_1).

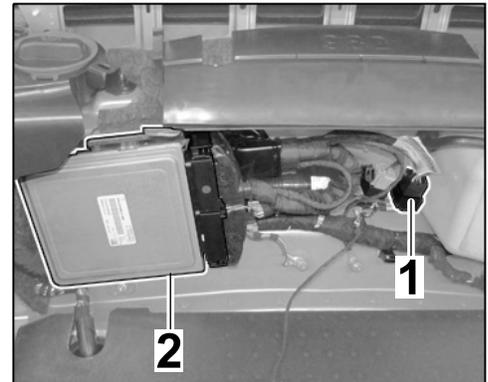


Figure 3

- 2.3.1 Disconnect electric plug connection. To do this, open the locking mechanism ⇒ *Figure 4 -a-* and pull out the plug socket ⇒ *Figure 4 -b-*.

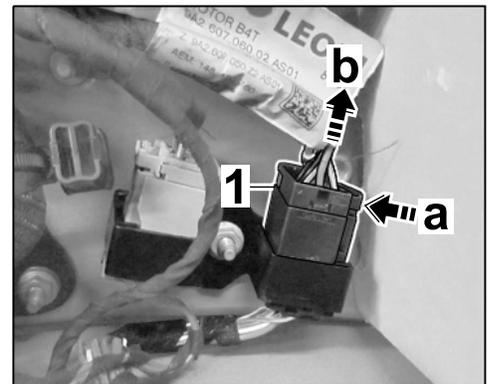


Figure 4

- 2.3.2 Release pin connector socket ⇒ *Figure 5-1-* (⇒ *Figure 5 -a-*) and pull it down out of the holder ⇒ *Figure 5-2-*.

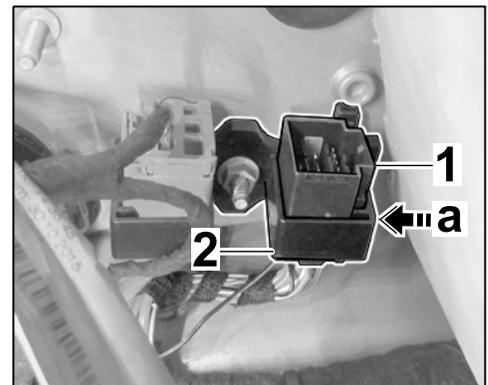


Figure 5

- 2.3.3 Release secondary lock on pin connector socket ⇒ *Figure 6-1-* (⇒ *Figure 6-a-*).



Information

Ensure socket contact is seated securely.

Insert pin contact of line (BK/YE) into chamber 2 ⇒ *Figure 6-b-*.

Close secondary lock.

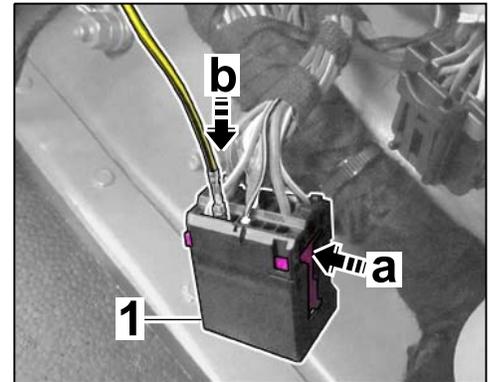


Figure 6

- 2.3.4 Fit pin connector socket ⇒ *Figure 7-1-* into the holder ⇒ *Figure 7-2-* (⇒ *Figure 7-a-*).

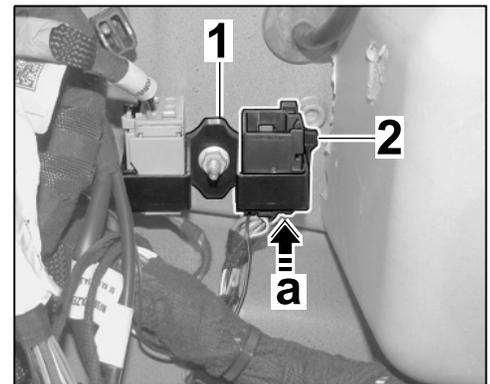


Figure 7

- 2.3.5 Connect electric plug connection ⇒ *Figure 8-1-* (⇒ *Figure 8-b-*).

- 2.4 Route line (BK/YE) as follows and secure with a tie-wrap to existing lines or components without tension and so that no chafing occurs: Connection point X3_1 → convertible-top compartment at the left → cable duct → along main wire harness in passenger compartment at the left → rear-end electronics control unit

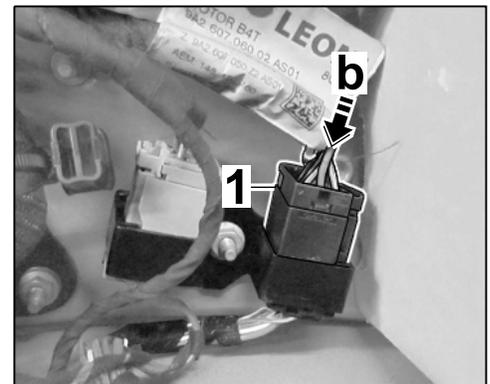


Figure 8

- 2.4.1 Route line (BK/YE) ⇒ *Figure 9-1-* along main wire harness in luggage compartment to convertible-top compartment at the left.

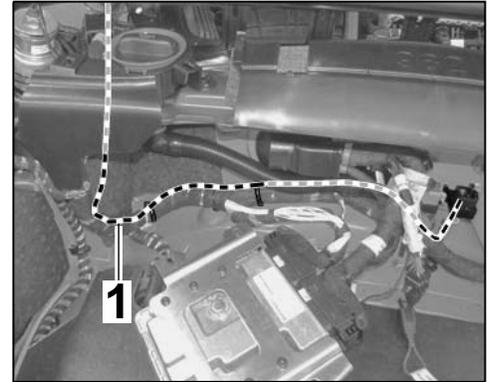


Figure 9

- 2.4.2 Secure line (BK/YE) to auxiliary line ⇒ *Figure 10-2-*.

Lift up insulating mat ⇒ *Figure 10-1-* and route line (BK/YE) ⇒ *Figure 10-3-* through convertible-top compartment at the left into the passenger compartment.

- 2.4.3 Fold up carpet at the front left.

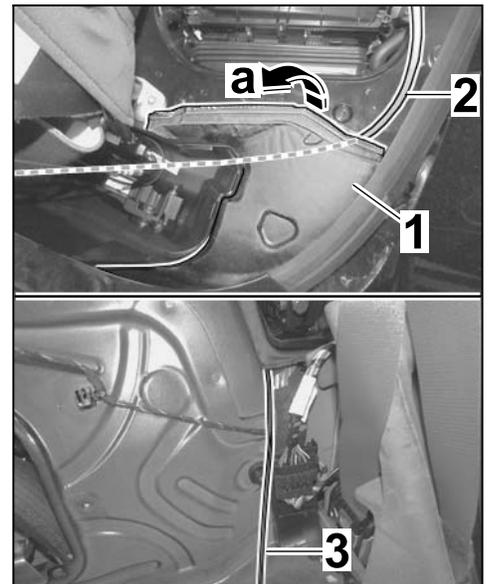


Figure 10

- 2.4.4 Route line (BK/YE) ⇒ *Figure 11-1-* through the cable duct ⇒ *Figure 11-3-* along main wire harness in the passenger compartment at the left to the rear-end electronics control unit ⇒ *Figure 11-2-*. Open the cable duct if necessary.
- 2.4.5 Fold back carpet at the front left.
- 2.5 Connect line (BK/YE) to the rear-end electronics control unit.
 - 2.5.1 Shorten line (BK/YE) and crimp together using a new socket contact (999.650.566.22).
 - 2.5.2 Fold up the carpet ⇒ *Figure 12-1-* (⇒ *Figure 12-a-*).
Remove rear-end electronics control unit ⇒ *Figure 12-2-* from the foam holder ⇒ *Figure 12-3-*.

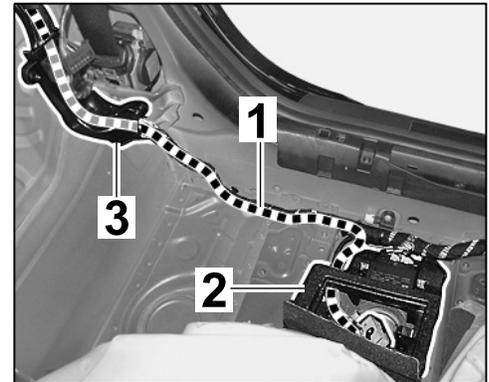


Figure 11

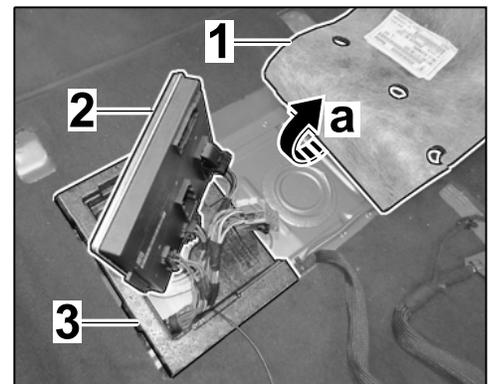


Figure 12

- 2.5.3 Disconnect electric plug connection ⇒ *Figure 13-2-* (blue) by pressing the locking mechanism and swivel the clip ⇒ *Figure 13-1-* upwards.

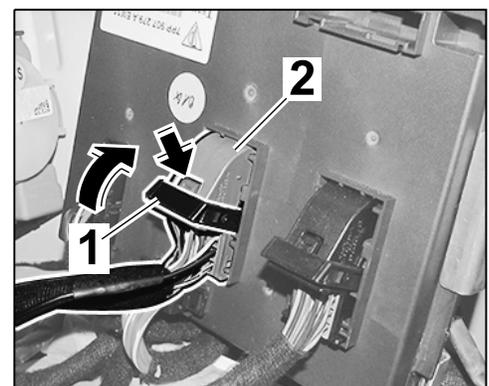


Figure 13

- 2.5.4 Press down the locking mechanism ⇒ *Figure 14 -arrow-* and push the grey plug socket ⇒ *Figure 14 -1-* out of the plug carrier ⇒ *Figure 14 -2-*.

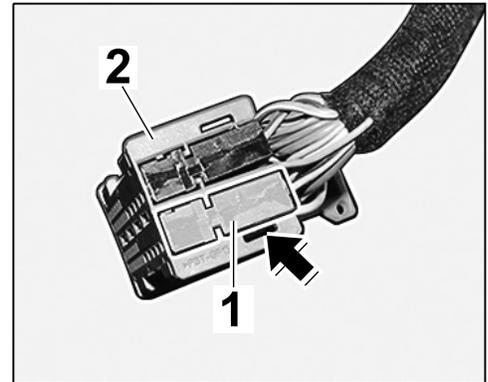


Figure 14



Information

Ensure socket contact is seated securely.

- 2.5.5 Insert socket contact ⇒ *Figure 15 -1-* into chamber A2 of the grey plug socket ⇒ *Figure 15 -2-*.

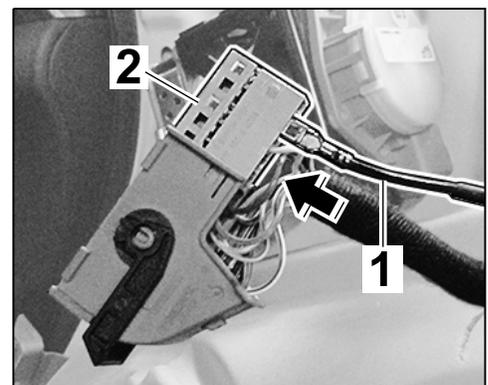


Figure 15

- 2.5.6 Push grey plug socket ⇒ *Figure 16 -1-* into the plug carrier ⇒ *Figure 16 -2-* until the locking mechanism ⇒ *Figure 16 -arrow-* engages.

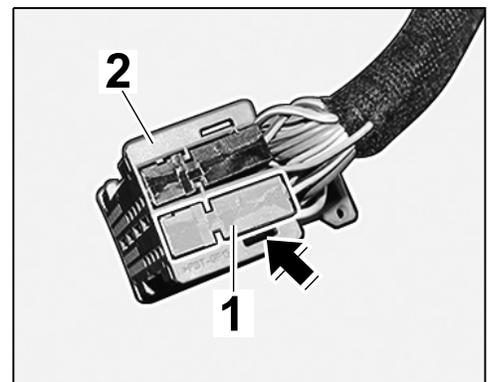


Figure 16

- 2.5.7 Connect electric plug connection ⇒ *Figure 17-2-* and swivel the clip ⇒ *Figure 17-1-* downwards.
- 2.5.8 Insert rear-end electronics control unit into the foam holder.
- 2.5.9 Fold back the carpet.
- 2.6 Secure DME control unit. ⇒ *Workshop Manual '247019 Removing and installing digital engine electronics control unit'*

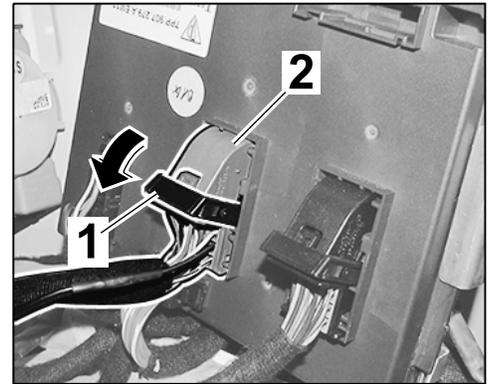


Figure 17

3 Install vacuum lines.

3.1 Overview of vacuum lines

- 1 – T-piece (standard)
- 2 – Plastic tube, 100 mm
- 3 – Angled pipe
- 4 – Moulded hose, bent (928.574.717.05)
- 5 – Change-over valve
- 6 – Connector for change-over valve
- 7 – Plastic tube, 1,010 mm with protective tube
- 8 – Cable attachment (811.971.848.B)

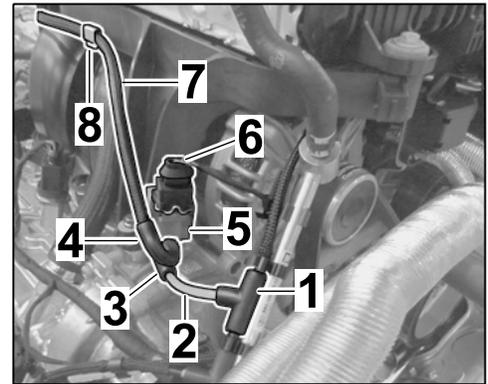


Figure 18

- 3.2 Cut a 1,010-mm length from the supplied plastic pipe (900.918.033.40).



Information

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

- 3.3 Connect vacuum line (from change-over valve to control box) ⇒ *Figure 19* and lock single-lug clip.

- 1 – Vacuum line (steel flexi-pipe), 640 mm
- 2 – Single-lug clip
- 3 – Plastic tube, 1,010 mm
- 4 – Protective tube
- 5 – Moulded hose, bent (928.574.717.05)

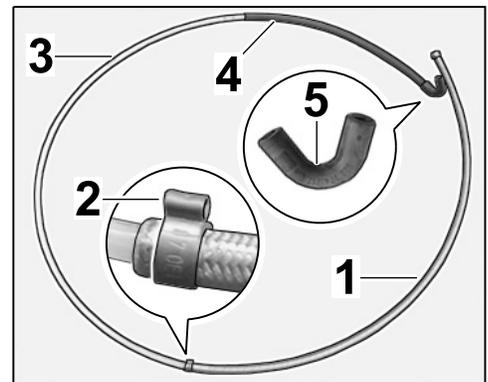


Figure 19

- 3.4 Cut a 100-mm length from the supplied plastic pipe (900.918.005.40).

**Information**

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

3.5 Connect 100-mm plastic tube ⇒ *Figure 20-1*- and angled pipe ⇒ *Figure 20-2*- together.

3.6 Install change-over valve.

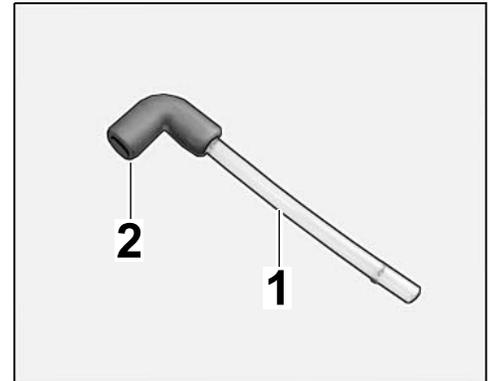


Figure 20

**Information**

The connector for the wire harness for the change-over valve is secured to the charge-air cooler holder.

3.6.1 Expose wire harness for change-over valve.

- 1 – Connector on wire harness for change-over valve
- 2 – Pulley for generator
- 3 – Charge-air cooler holder

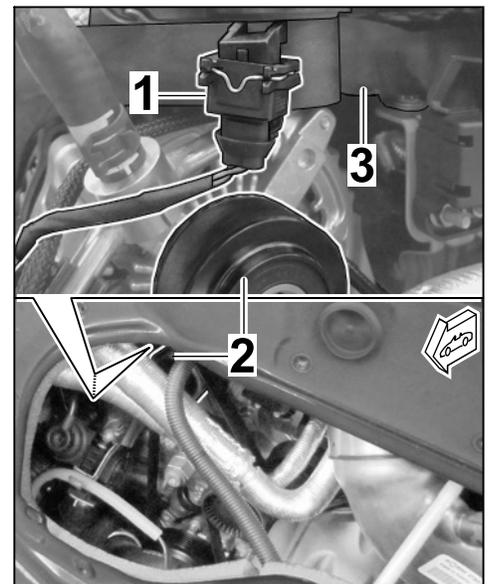


Figure 21

- 3.6.2 Pull dummy plug ⇒ *Figure 22-2*-out of the T-piece ⇒ *Figure 22-1*- (⇒ *Figure 22-a*-).

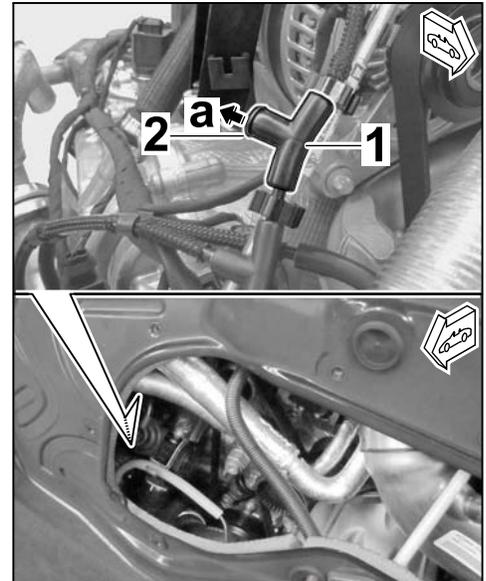


Figure 22

- 3.6.3 Insert 100-mm plastic tube ⇒ *Figure 23-1*- into the T-piece ⇒ *Figure 23-2*- (⇒ *Figure 23-a*-).

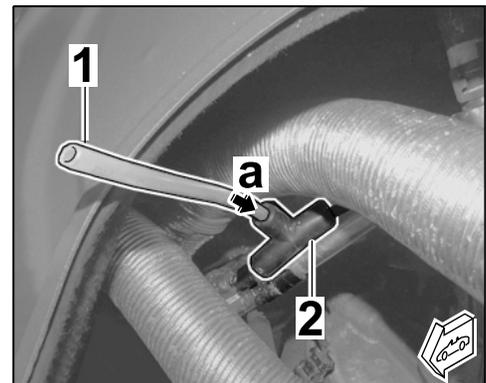


Figure 23

- 3.6.4 Push change-over valve ⇒ *Figure 24-1*- into the holder ⇒ *Figure 24-4*- (⇒ *Figure 24-b*-).

Fit angled pipe ⇒ *Figure 24-2*- on change-over valve ⇒ *Figure 24-a*-.

Connect electric plug connection ⇒ *Figure 24-3*-.

- 3.7 Route vacuum line (from change-over valve to control box).

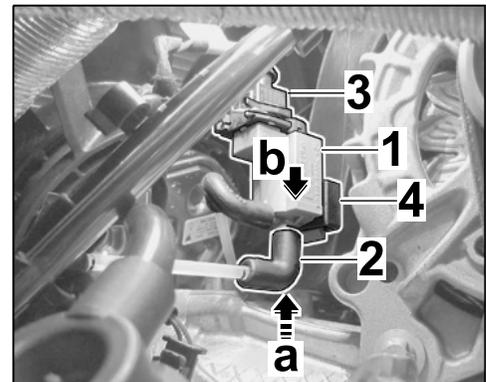


Figure 24

- 3.7.1 Loosen screw-type clamps ⇒ *Figure 25-2*- and remove moulded hose ⇒ *Figure 25-1*- for the throttle housing.

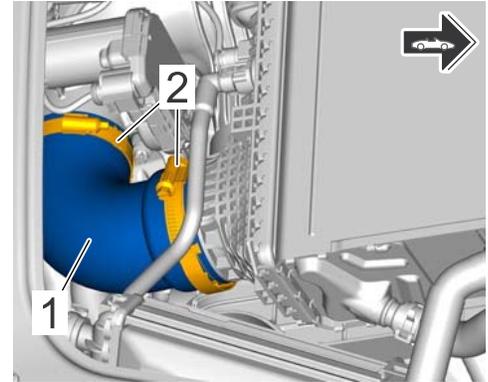


Figure 25



Information

Because the view of the components is obstructed in the installation area, they are shown with the engine removed.

- 3.7.2 Overview: Vacuum line routing from change-over valve to control box (using PDK as an example).

- 1 – Moulded hose, bent (928.574.717.05)
- 2 – Protective tube
- 3 – Cable attachment (811.971.848.B)
- 4 – Vacuum line
- 5 – Combination holder, 4.3-11
- 6 – Combination holder, 4.3-25
- 7 – Clamp, 6.00-9.00 (3D0.971.939.B)

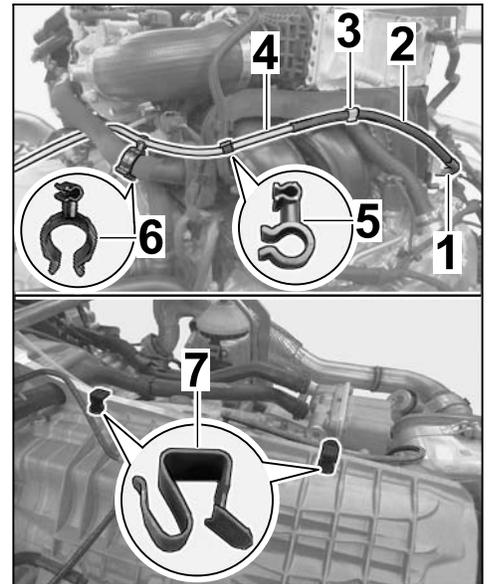


Figure 26

3.7.3 Route vacuum line ⇒ *Figure 27*
-1- at the side along the charge-air cooler holder to the change-over valve. Fit bent molded hose ⇒ *Figure 27-2-* on side connection.

- A** – View of engine compartment, top
- B** – View with engine removed
- C** – View through rear wall opening

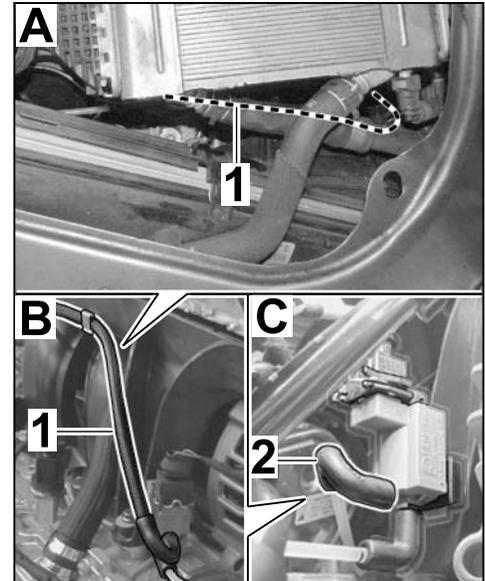


Figure 27

3.7.4 Route vacuum line at the right side along the charge-air cooler holder.

Clip in cable attachment (811.971.848.B) ⇒ *Figure 28-1-* on the charge-air cooler holder and fit vacuum line.

Secure vacuum line using combination holder (4.3 - 11) ⇒ *Figure 28-2-* to the vent line ⇒ *Figure 28-6-*.

Secure vacuum line using combination holder (4.3 - 25) ⇒ *Figure 28-3-* to the coolant hose ⇒ *Figure 28-4-*.

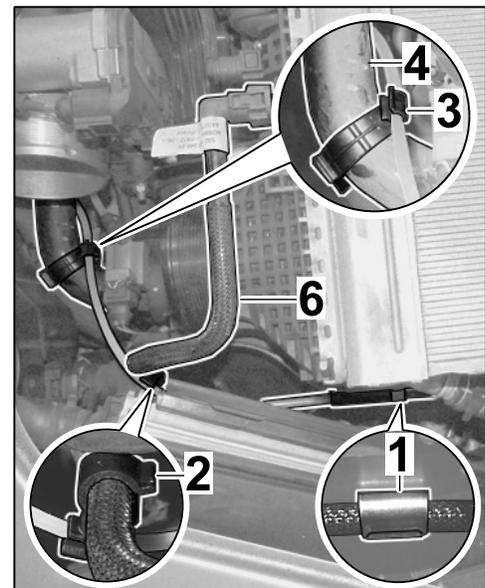


Figure 28

**Information**

Because the view of the components is obstructed in the installation area, they are shown with the engine removed.

- 3.7.5 **Only** for vehicles with PDK:
Route vacuum line over the transmission to the rear muffler holder at the right.

Secure vacuum line ⇒ *Figure 29-1*- to the transmission using two clamps (6.00-9.00, 3D0.971.939.B) ⇒ *Figure 29-2*-.

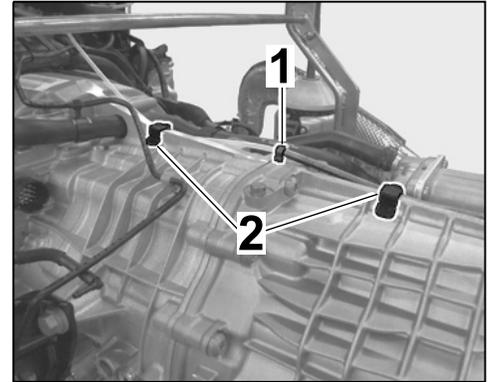


Figure 29

**Information**

Because the view of the components is obstructed in the installation area, they are shown with the engine removed.

- 3.7.6 **Only** for vehicles with manual transmission:
Route vacuum line over the transmission to the rear muffler holder at the right.

Secure vacuum line using combination holder (4.3 - 25) ⇒ *Figure 30-2*- to the coolant hose ⇒ *Figure 30-3*-.

Secure vacuum line ⇒ *Figure 30-1*- to the transmission using a clamp (6.00-9.00, 3D0.971.939.B).

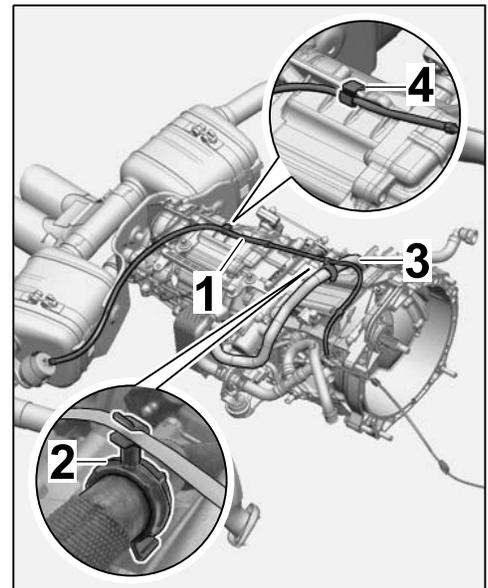


Figure 30

- 4 Install exhaust system.
- 4.1 Install new rear mufflers. ⇒ *Workshop Manual '263319 Removing and installing rear silencer'*
- 4.2 Adjust tailpipe cover. ⇒ *Workshop Manual '263519 Removing and installing tailpipe cover'*

- 4.3 Fit vacuum line (steel flexi-pipe) on control box.
 Press single-lug clip ⇒ *Figure 31-1-* together.
 Secure vacuum line (steel flexi-pipe) to the rear muffler holder using a cable attachment (6.00, 999.651.360.01) ⇒ *Figure 31-2-*.

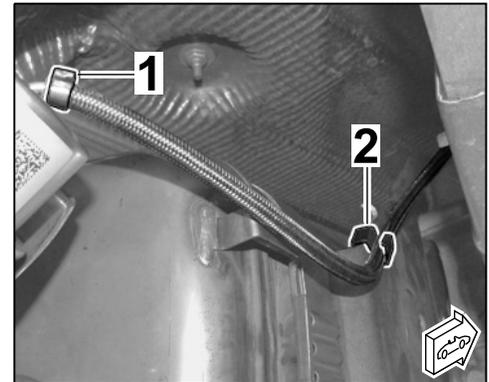


Figure 31

5 Concluding work:

- 5.1 Install molded hose ⇒ *Figure 32-1-* for the throttle housing and tighten screw-type clamps ⇒ *Figure 32-2-*.
- 5.2 Install rear luggage compartment trim panel. ⇒ *Workshop Manual '700619 Removing and installing rear luggage compartment trim panel'*
- 5.3 Install engine compartment lid. ⇒ *Workshop Manual '557819 Removing and installing engine compartment lid'*
- 5.4 Install trim panel for rear-wall sound absorber. ⇒ *Workshop Manual '703119 Removing and installing trim panel for rear wall'*
- 5.5 Install side trim panel at the left. ⇒ *Workshop Manual '707519 Removing and installing side trim panel'*
- 5.6 Secure belt fitting in the B-pillar sill area. ⇒ *Workshop Manual '691119 Removing and installing front three-point belt'*

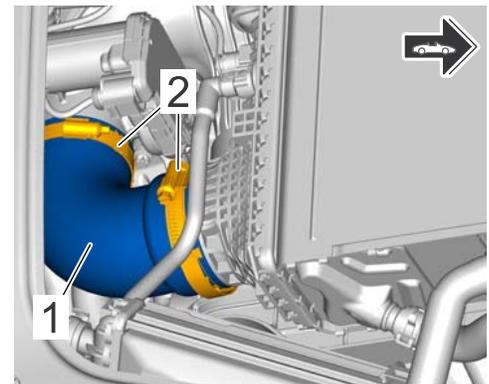


Figure 32

WARNING

Incorrect handling of safety bolts

- **Danger of injury**
 - **Loss of torque**
- ⇒ **Always use new fastening screws and nuts following removal.**
- ⇒ **Observe specified tightening torques.**
- ⇒ **Carry out a visual inspection of all re-used parts.**

- 5.7 Install left front seat. ⇒ *Workshop Manual '720119 Removing and installing front seat'*

- 5.8 Install inner door sill trim at the left. ⇒ *Workshop Manual '680519 Removing and installing inner door sill trim'*
- 5.9 Move convertible top out of service position. ⇒ *Workshop Manual '6101IN Convertible-top service position'*
- 5.10 Fit rear wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 5.11 Convert switch console.
 - 5.11.1 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.

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

Fit light guide at the correct side ⇒ *Figure 33-1* in the main body.

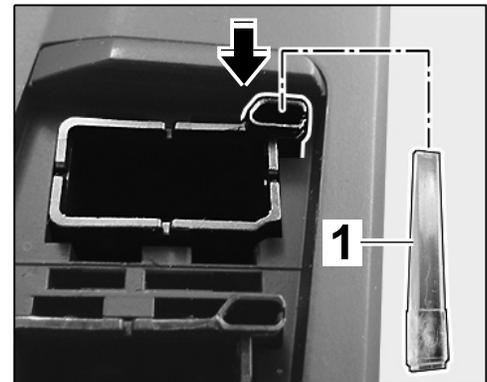


Figure 33

Fit trim ⇒ *Figure 34-1* underneath the button in the main body.

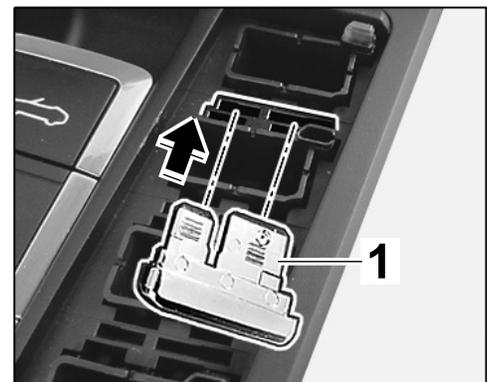


Figure 34

Position button ⇒ *Figure 35 -1-* and clip it into the main body.

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

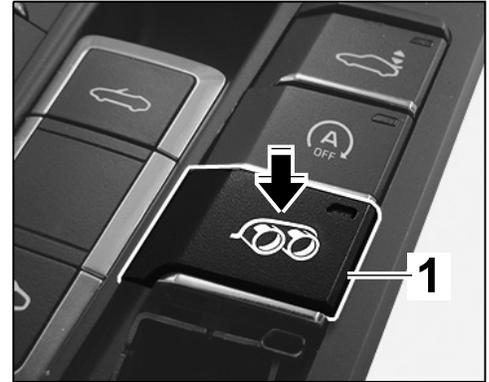


Figure 35

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 70 A to the vehicle battery.



Information

The **9900 - PIWIS Tester III** 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 **9900 - PIWIS Tester III**.

- 6 Code sports exhaust system.
- 6.1 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*
- 6.2 **9900 - PIWIS Tester 3** must be connected before switching on the ignition.
- 6.3 Select the required vehicle type. PIWIS Tester Diagnostics starts.

**Information**

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

**Information**

The new coding for the switch console only takes effect when the ignition is switched off, the remote control is removed and the ignition is switched back on again.

- 6.4 Code keypad assignment. ⇒ *Workshop Manual '962755 Replacing switch console'*
- 6.5 Maintenance of vehicle data
 - 6.5.1 **Additional menu** must now be selected by pressing •F7" .
 - 6.5.2 Select the **Maintenance of vehicle data** function. Press •F12" until **X numbers** appears in the Value group column.
 - 6.5.3 Select **XLF - Sports exhaust system, silver tailpipe** or **XLX - Sport exhaust system, black tailpipe** in the Coding value column. When you touch the Installed cell, a tick appears.
 - 6.5.4 Save the values by pressing •F8" . Wait until the message **Modified values have been buffered** appears.
 - 6.5.5 Press •F12" until •F8" can be activated.
 - 6.5.6 Press •F8" to write values. Wait until the message **Generation of vehicle data is complete** appears.
 - 6.5.7 Press •F12" to switch to Report management. Press •F10" to open the log and check that the vehicle equipment **XLF - Sport exhaust system, silver tailpipe** or **XLX - Sport exhaust system, black tailpipe** is displayed.
- 6.6 Adapt coding.
 - 6.6.1 Press •F11" to return to the list of control units.
Select all control units.
 - 6.6.2 Switch to the **Coding/adaptations** menu.
Select **Automatic coding** mode. Press •F12" to continue.
Wait until the message **Coding has been completed successfully** appears.
Press •F12" to continue.
- 6.7 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'*
- 6.8 Carry out "Sports exhaust system" function test.

Start the vehicle. The exhaust flaps open when you press the "Twin tailpipe" button. The noise of the exhaust motor can be heard.

6.9 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

26013100: Sport exhaust system installed Labor time: **477 TU**
 Includes: Removing exhaust system, installing rear muffler, removing and installing strip for switches, coding sport exhaust system.

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