

Door entry guard, illuminated

Situation: **Retrofitting**

Model Year: **As of 2011**

Information: Illuminated door entry guards made of carbon-fibre composite or stainless steel can be installed in the door sill trims. The following logos are available:

- Cayenne
- Cayenne S
- Cayenne GTS
- Cayenne turbo



Part Nos.:

958.044.800.12
958.044.800.16
958.044.800.36
958.044.800.39

Carbon-fibre composite door entry guard, illuminated, set

⇒ "Cayenne" logo
 ⇒ "Cayenne S" logo
 ⇒ "Cayenne turbo" logo
 ⇒ "Cayenne GTS" logo

958.044.800.11
958.044.800.15
958.044.800.35
958.044.800.38

Stainless-steel door entry guard, illuminated, set

⇒ "Cayenne" logo
 ⇒ "Cayenne S" logo
 ⇒ "Cayenne turbo" logo
 ⇒ "Cayenne GTS" logo

Materials: — — —

— — — Cleaning agent (commercially available)

Tools: **9818 - PIWIS Tester II**

Assembly: 1 Preparatory work.

- 1.1 Connect a battery charger. $\Rightarrow$ Workshop Manual '2X00IN Battery trickle charging'
- 1.2 Remove both front seats. $\Rightarrow$ Workshop Manual '720119 Removing and installing front seat'
- 1.3 Remove 1/3-split folding rear seat. $\Rightarrow$ Workshop Manual '724819 Removing and installing 1/3-split folding rear seat'
- 1.4 Remove 2/3-split folding rear seat. $\Rightarrow$ Workshop Manual '724819 Removing and installing 2/3-split folding rear seat'
- 1.5 Remove side trim panel for rear luggage compartment at the left and right. $\Rightarrow$ Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'
- 1.6 Remove inner door sill trim on the left and right. $\Rightarrow$ Workshop Manual '680519 Removing and installing inner door sill trim'

2 Install illuminated door entry guards in the inner door sill trims.

2.1 Remove door entry guard.

2.1.1 Release locking lug $\Rightarrow$ Figure 3 -1-.

2.1.2 Press out door entry guard $\Rightarrow$ Figure 3 -2- ($\Rightarrow$ Figure 3 -arrow-).

2.2 Drill cable holes ($\varnothing = 21$ mm) in all inner door sill trims.

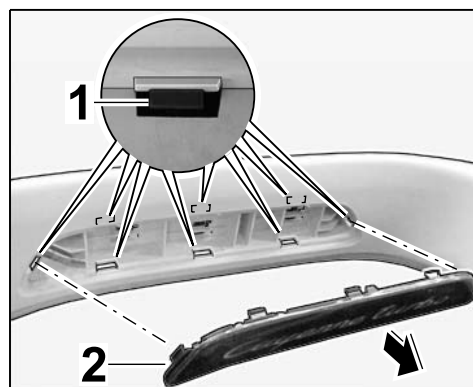


Figure 3

2.2.1 **Inner door sill trim, front left and right:**

Position of bore hole $\Rightarrow$ Figure 4

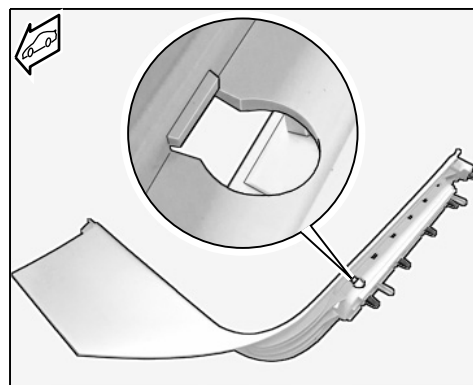


Figure 4

At the first inner locking lug $\Rightarrow$ Figure 5 -1-, position a steel rule at the centre $\Rightarrow$ Figure 5 -arrow- and mark the dimension X.

X – 10.5 mm

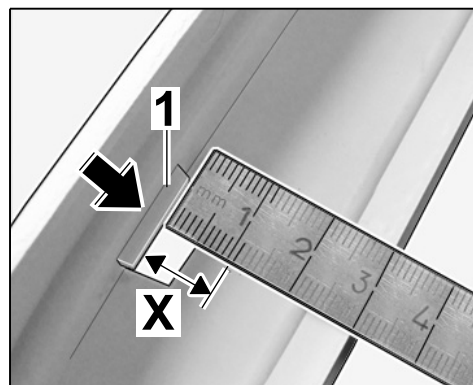


Figure 5

Drill a 5-mm hole first.



Figure 6



Information

If a step drill, taper drill or paring drill bit is used, make sure that the locking lug (Figure 7 -1-) is not damaged.

Drill out bore hole to a diameter of 21 mm.

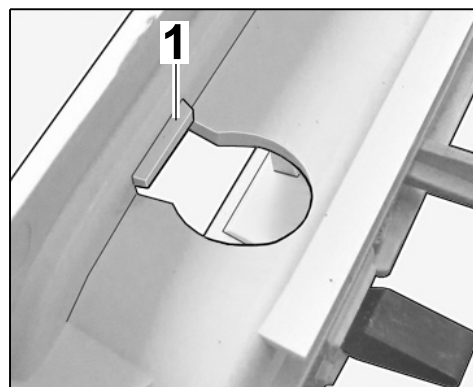


Figure 7

2.2.2 Inner door sill trim, rear left and right:

Position of bore hole $\Rightarrow$ Figure 8

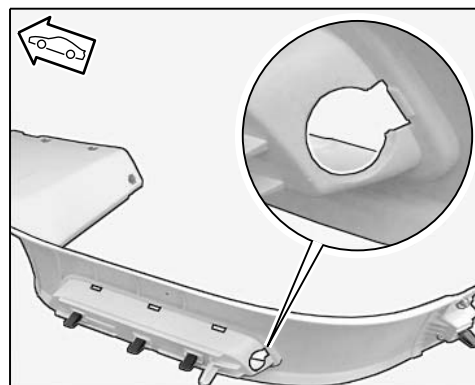


Figure 8

At the rearmost locking lug, position a steel rule at the centre and mark the dimension X.

X – 10.5 mm

Drill a 5-mm hole first.

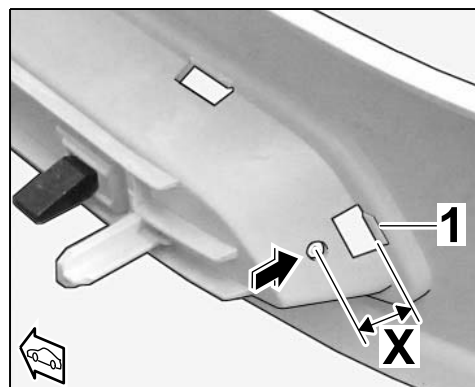


Figure 9



Information

If a step drill, taper drill or paring drill bit is used, make sure that the locking lug (Figure 11 -1-) and the visible area of the surface (Figure 10 -shaded area-) of the inner door sill trim is not damaged.

Drill out bore hole to a diameter of 21 mm.

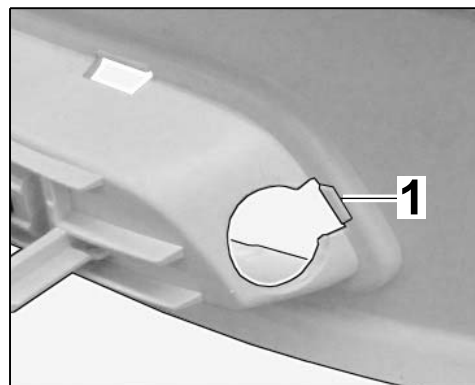


Figure 10

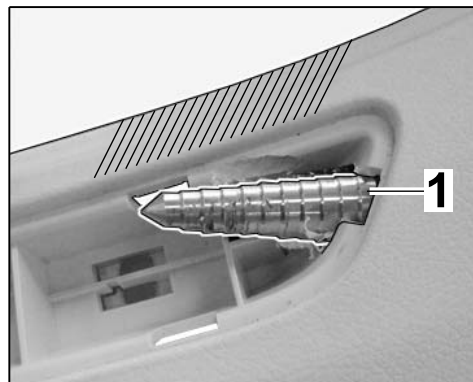


Figure 11

2.3 Install illuminated door entry guards in the inner door sill trims.

- 2.3.1 Guide connector and line (flat conductor path) ⇒ *Figure 12 -1-* through the bore hole.
- 2.3.2 Clip illuminated door entry guard ⇒ *Figure 12 -3-* into the inner door sill trim ⇒ *Figure 12 -2-*.
- 2.3.3 Clean the bonding surfaces of the connector and flat conductor path (see ⇒ *Figure 13*) on the underside of the inner door sill trim using isopropanol to remove any grease and dust.

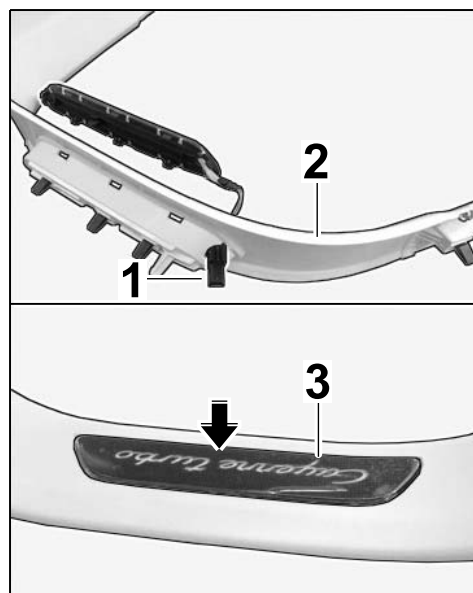


Figure 12

- 2.3.4 **Rear inner door sill trim:**
Pull protective film off the Velcro strip on the connector ⇒ *Figure 13 -1-* and affix connector at the position shown on the inner door sill trim.

Secure the flat conductor path ⇒ *Figure 13 -arrow-* to the inner door sill trim using two adhesive pads ⇒ *Figure 13 -2-*.

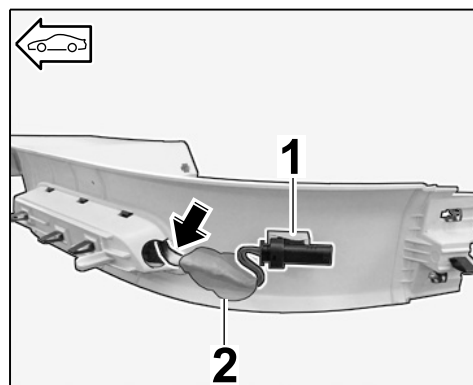


Figure 13

2.4 Install illuminated door entry guards in the front inner door sill trims.

- 2.4.1 Guide connector and line (flat conductor path) through the bore hole.

- 2.4.2 Clip illuminated door entry guard into the inner door sill trim.
- 2.4.3 Clean the bonding surfaces of the connector and flat conductor path (see $\Rightarrow$ Figure 14) on the underside of the inner door sill trim using cleaning agent to remove any grease and dust.

- 2.4.4 **Inner door sill trim on driver's side:**
Route the flat conductor path $\Rightarrow$ Figure 14 -2- between the outer reinforcing ribs $\Rightarrow$ Figure 14 -arrow- and secure it to the inner door sill trim using two adhesive pads $\Rightarrow$ Figure 14 -1-.

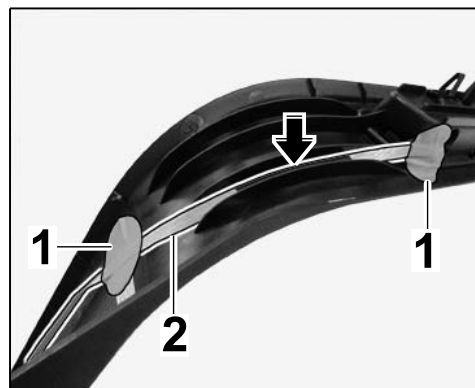


Figure 14

Pull protective film off the Velcro strip on the connector $\Rightarrow$ Figure 15 -1- and affix connector at the position shown on the inner door sill trim. Secure the flat conductor path $\Rightarrow$ Figure 15 -3- to the inner door sill trim using two adhesive pads $\Rightarrow$ Figure 15 -2-.

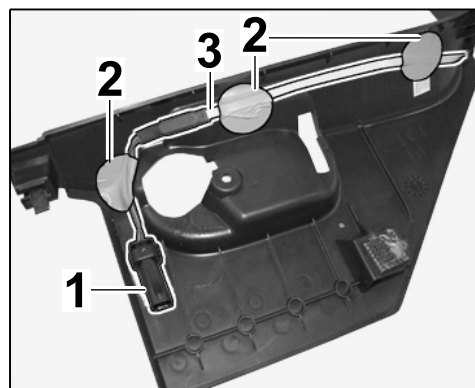


Figure 15

- 2.4.5 **Inner door sill trim on passenger's side:**
Route the flat conductor path $\Rightarrow$ Figure 16 -2- between the outer reinforcing ribs $\Rightarrow$ Figure 16 -arrow- and secure it to the inner door sill trim using two adhesive pads $\Rightarrow$ Figure 16 -2-.

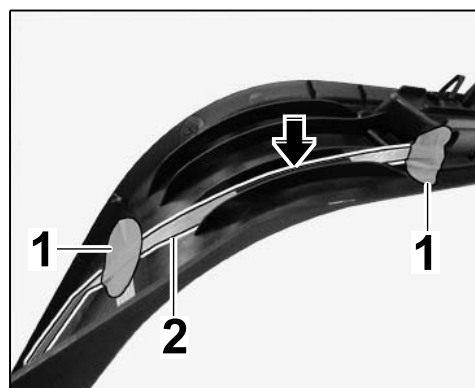


Figure 16

Pull protective film off the Velcro strip on the connector and affix connector at the position shown ⇒ *Figure 17 -1-* on the inner door sill trim. Secure the flat conductor path ⇒ *Figure 17 -3-* to the inner door sill trim using two adhesive pads ⇒ *Figure 17 -2-*.

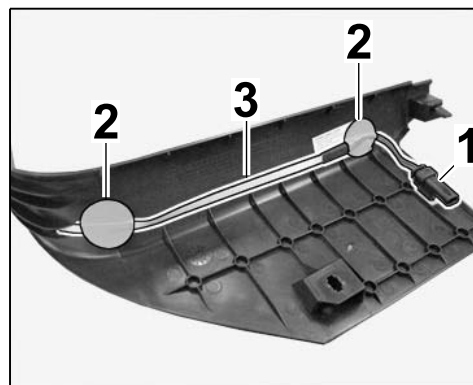


Figure 17

3 Install electric wire harness.

3.1 Preparatory work.

3.1.1 Unscrew screw ⇒ *Figure 18 -2-* and remove the rail ⇒ *Figure 18 -1-*.

3.1.2 **Only** for vehicles with loud-speaker amplifier:
Remove loudspeaker amplifier.
⇒ *Workshop Manual '914419 Removing and installing loud-speaker amplifier'*

3.1.3 **Only** for vehicles with TV tuner:
Remove TV tuner. ⇒ *Workshop Manual '911719 Removing and installing TV tuner'*

3.1.4 Remove rear-end electronics control unit from the holder. ⇒ *Workshop Manual '578919 Removing and installing control unit for rear-end electronics'*

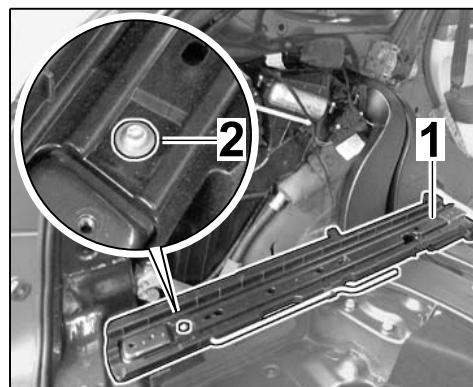


Figure 18



Information

Wire harness is marked as follows: FL = front left, RL = rear left, FR = front right, RR = rear right.

3.2 Route electric wire harness ⇒ *Figure 19 -1-* as follows.

Bottom left of A-pillar → wiring duct in left footwell → power distributor → rear left wiring duct → left side panel → spare-wheel well → right side panel → rear right wiring duct → wiring duct in right footwell → bottom right of A-pillar

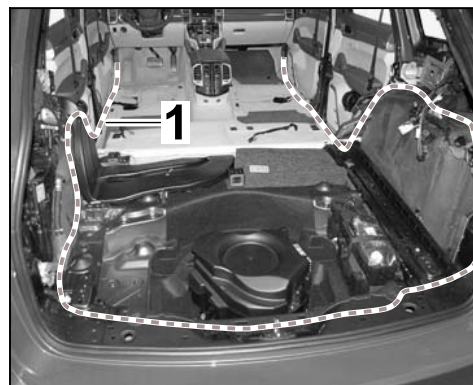


Figure 19

**Information**

Illustration shows version with 4-zone climate control. On vehicles without 4-zone climate control, the wire harness to be retrofitted is routed along the main wire harness at the left side of the luggage compartment.

- 3.2.1 Start routing the wire harness at ground point 41 ⇒ *Figure 20 -3-*.

→ wire harness along refrigerant line ⇒ *Figure 20 -1-* → under sound absorber ⇒ *Figure 20 -2-* → standard wire harness in left wheel arch ⇒ *Figure 20 -4-*

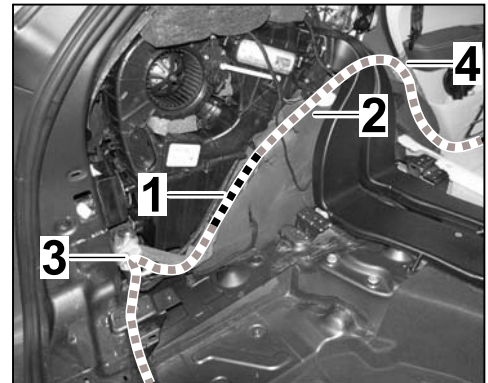


Figure 20

→ rear left wiring duct ⇒ *Figure 21 -1-* → power distributor ⇒ *Figure 21 -arrow-*

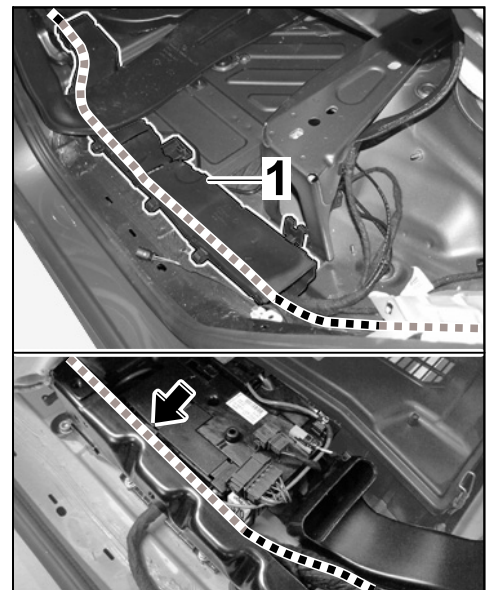


Figure 21

→ in cable duct ⇒ *Figure 22*

-1- → front left footwell

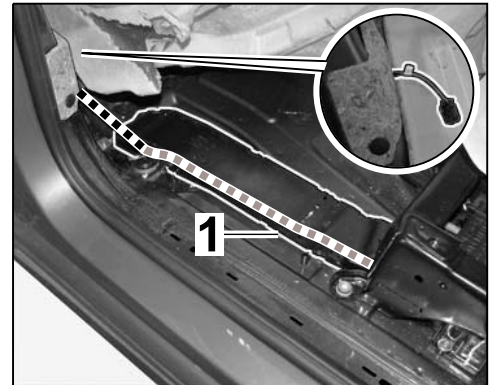


Figure 22

Then, route wire harness on
from ground point 41 → behind
carpet on spare-wheel well

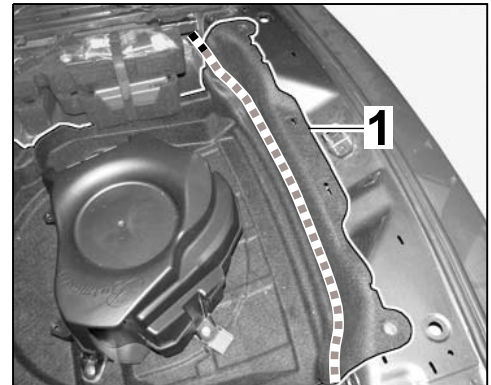


Figure 23

→ ground point 40 ⇒ *Figure 24*

-3- → standard wire harness ⇒
Figure 24 -2- → rear-end elec-
tronics control unit ⇒ *Figure 24*
-1-

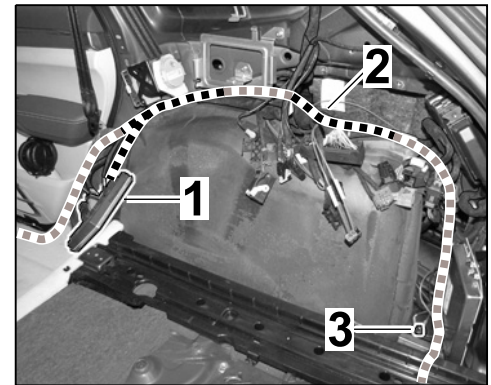


Figure 24

→ wire harness in right wheel arch

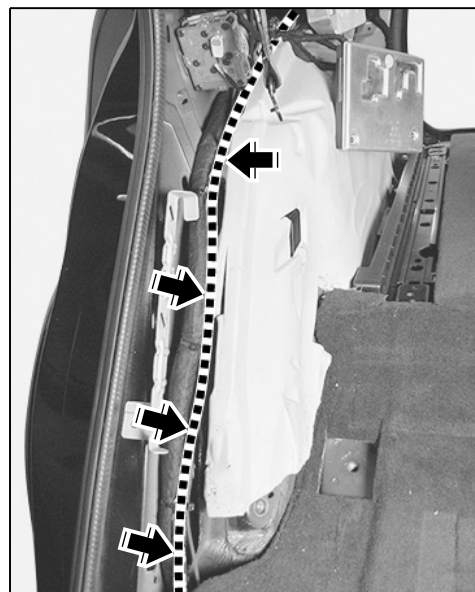


Figure 25

→ wiring duct in front and rear footwell

- 3.3 Connect RD line to rear-end electronics control unit.



Figure 26

- 3.3.1 Disconnect electric plug connection ⇒ *Figure 27 -1-* from rear-end electronics control unit. ⇒ *Workshop Manual '578919 Removing and installing control unit for rear-end electronics'*

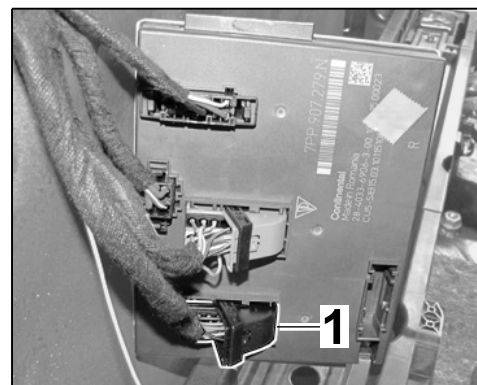


Figure 27

- 3.3.2 Press down the locking mechanism ⇒ *Figure 28 -arrow-* and slide the grey plug socket ⇒ *Figure 28 -1-* out of the plug carrier ⇒ *Figure 28 -2-*.

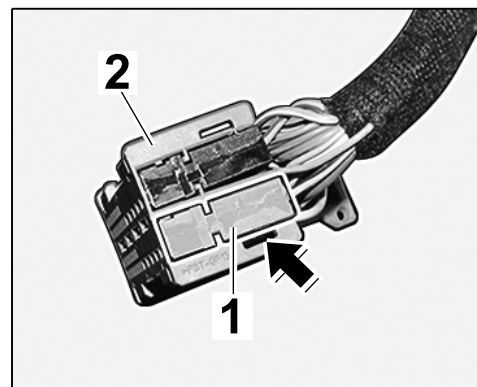


Figure 28



Information

Ensure socket contact is seated securely.

- 3.3.3 Insert socket contact into chamber 8 ⇒ *Figure 29 -arrow-* of the grey plug socket.

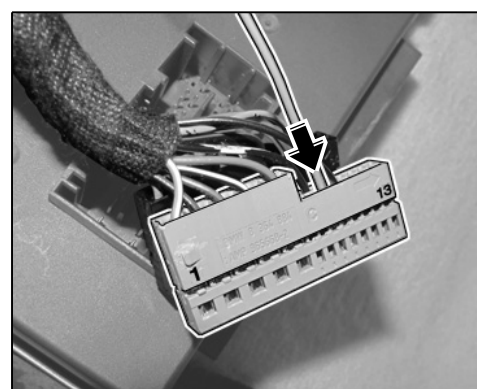


Figure 29

- 3.3.4 Slide grey plug socket $\Rightarrow$ Figure 30 -1- into the plug carrier $\Rightarrow$ Figure 30 -2- until the locking mechanism $\Rightarrow$ Figure 30 -arrow- engages.

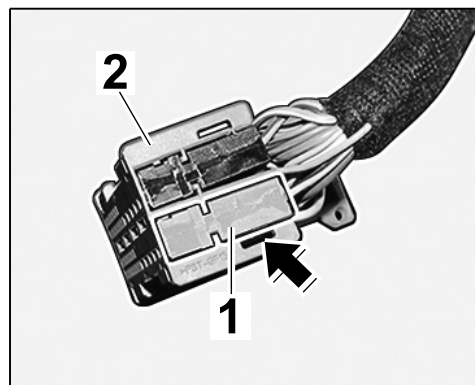


Figure 30

- 3.3.5 Connect electric plug connection $\Rightarrow$ Figure 31 -1- from rear-end electronics control unit. $\Rightarrow$ Workshop Manual '578919 Removing and installing control unit for rear-end electronics'

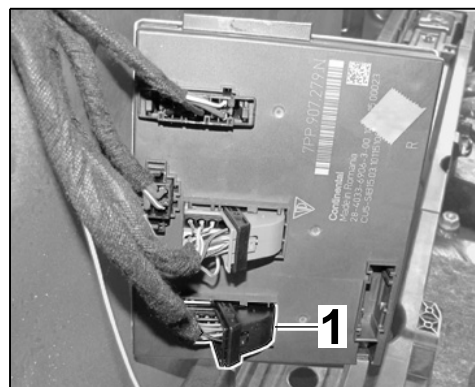


Figure 31

- 3.4 Secure wire harness at ground points 41 and 46.

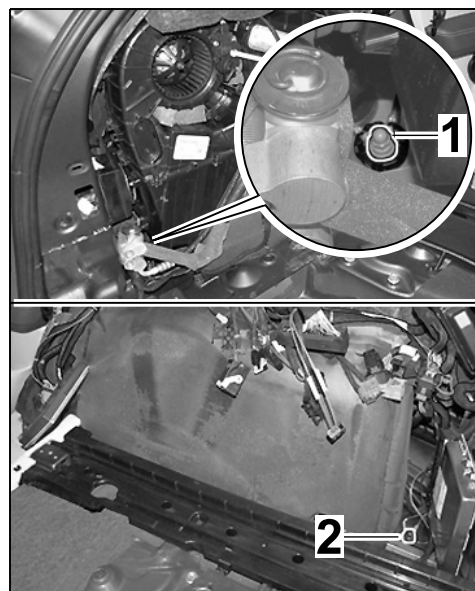


Figure 32

- 3.4.1 Connect ring eyelet (BN ground strap) ⇒ *Figure 33 -1-* to ground point MB46 (rear right wheel arch) ⇒ *Figure 33 -2-*.
Tightening torque 9 Nm (6.5 ftlb.)

- 3.4.2 Connect ring eyelet (BN ground strap) to ground point MB41 (rear left wheel arch).
Tightening torque 9 Nm (6.5 ftlb.)

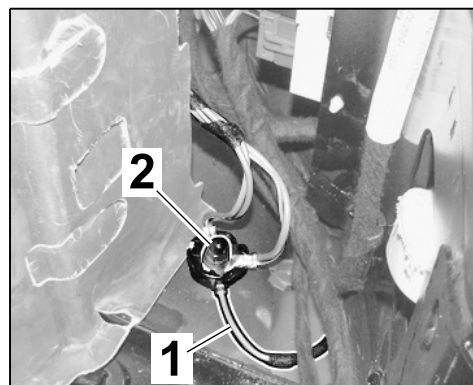


Figure 33

- 3.5 Secure wire harness to the standard wire harness with a tie-wrap.

- 3.6 Concluding work for installing wire harness.

- 3.6.1 Slide rear-end electronics control unit into the holder. ⇒ *Workshop Manual '578919 Removing and installing control unit for rear-end electronics'*

- 3.6.2 **Only** for vehicles with TV tuner:
Install TV tuner. ⇒ *Workshop Manual '911719 Removing and installing TV tuner'*

- 3.6.3 **Only** for vehicles with loudspeaker amplifier:
Install loudspeaker amplifier. ⇒ *Workshop Manual '914419 Removing and installing loudspeaker amplifier'*

- 3.6.4 Fit rail ⇒ *Figure 34 -1-* and tighten screw ⇒ *Figure 34 -2-*.

- 4 Concluding work.

- 4.1 Install inner door sill trim on the left and right. ⇒ *Workshop Manual '680519 Removing and installing inner door sill trim'*

- 4.2 Install side trim panel for rear luggage compartment at the left and right. ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*

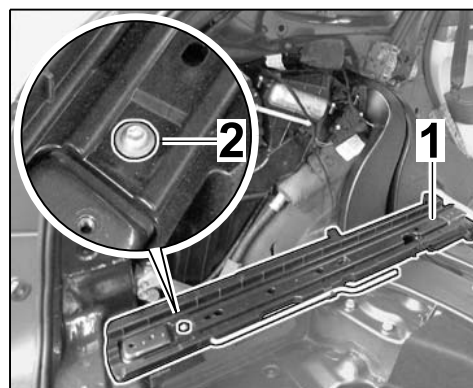


Figure 34

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

- 4.4 Install 1/3-split folding rear seat. ⇒ *Workshop Manual '724819 Removing and installing 1/3-split folding rear seat'*

- 4.5 Install both front seats. ⇒ *Workshop Manual '720119 Removing and installing front seat'*

- 4.6 Perform a function test by opening and closing the doors.

- 4.7 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. ⇒ *Workshop Manual '0335IN Diagnostic maintenance: diagnostic system and maintenance inter...'*
- 4.8 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charging'*

Working Time: 68072340: Installing illuminated door entry guard

Labor time: **500 TU**

Includes: Installing electric wire harness, removing and installing front and rear inner door sill trim, converting door entry guards.