

Replacing Airbag Sensor

Subject: **Replacing airbag sensor during repairs**

Model Year: **As of 1990 up to 1994**

Information: Old airbag sensor no longer available.

Note: During repairs, the faulty airbag sensor will be replaced by a new electronic airbag sensor. The new airbag sensor is the same size as the airbag sensor that is installed as standard but needs an additional power supply (terminal 15) from the fuse box in the luggage compartment.

Recommendation: Always replace the component in pairs.

Pars Info: **964.613.221.03** ⇒ Airbag sensor, set

Parts list:

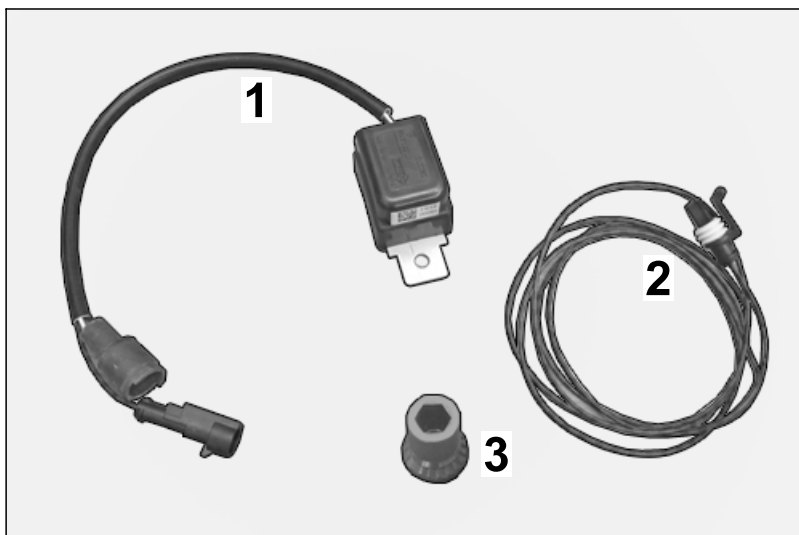


Figure 1

- | | | |
|-------|-----|---------------------------------|
| ----- | 1 x | Airbag sensor ⇒ Figure 1-1- |
| ----- | 1 x | Power supply line ⇒ Figure 1-2- |
| ----- | 2 x | Shear-off nut ⇒ Figure 1-3- |
| ----- | 2 x | Socket contact (not shown) |
| ----- | 1 x | Insulation tube (not shown) |
| ----- | 6 x | Tie-wrap (not shown) |

Tools: **9259 - Socket-wrench insert**

Work Procedure: 1 Component overview:

- 1 – Right airbag sensor
- 2 – Connection point for right airbag sensor
- 3 – Relay/fuse carrier
- 4 – Rubber sleeve in cross panel
- 5 – Connection point for left airbag sensor
- 6 – Left airbag sensor

2 Preparatory work:

- 2.1 Open front lid.
- 2.2 Remove cover on front lock lower part and front-compartment carpet.
- 2.3 **Only** if replacing left airbag sensor or both airbag sensors.
Remove cowl panel.
 - 2.3.1 Unscrew screws ⇒ *Figure 3-1-*.
 - 2.3.2 Remove cowl panel ⇒ *Figure 3-2-* with piping ⇒ *Figure 3-3-*.
- 2.4 Disconnect the battery.
- 2.5 Loosen relay/fuse carrier.
 - 2.5.1 Open cover on relay/fuse carrier.
 - 2.5.2 Unscrew screws ⇒ *Figure 4-1-* and remove filler plate ⇒ *Figure 4-2-*.

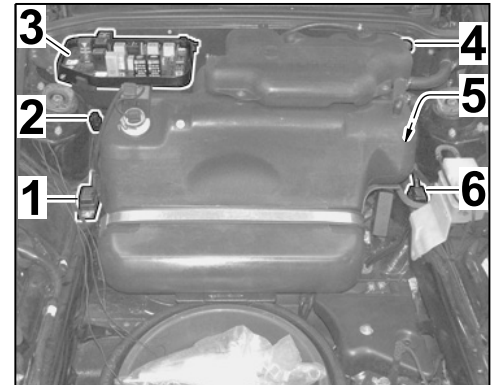


Figure 2

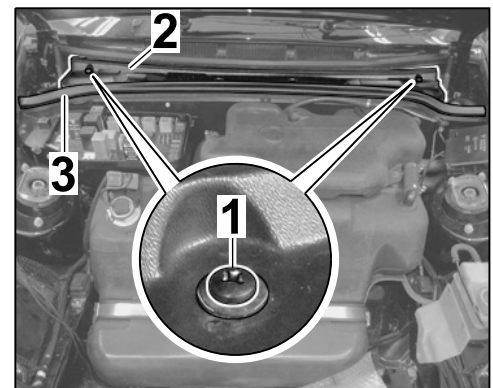


Figure 3

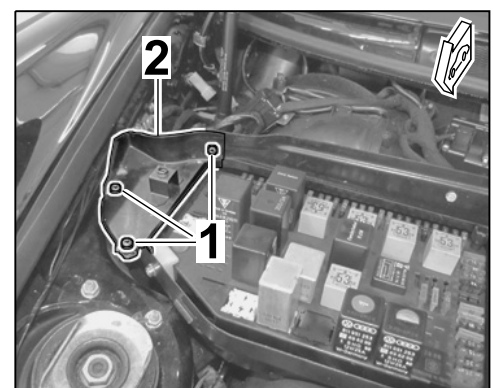


Figure 4

- 2.5.3 Unscrew screws ⇒ *Figure 5-1/2-*.
Lift up the relay/fuse carrier ⇒ *Figure 5-arrow-* and set it aside.
- 3 Install power supply lines at the right and/or left.
 - 3.1 Install power supply line at the right.

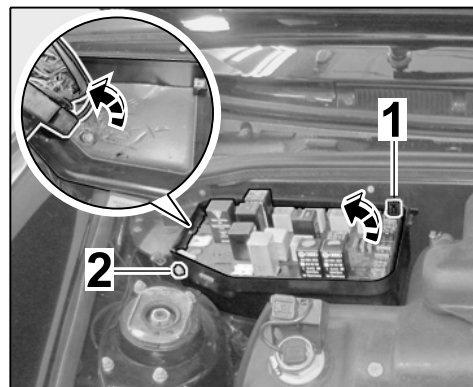


Figure 5

- 3.1.1 Open tie-wrap ⇒ *Figure 6-1-*.
Unclip connection point for right airbag sensor ⇒ *Figure 6-2-* from holder ⇒ *Figure 6-3-* and disconnect plug connection.

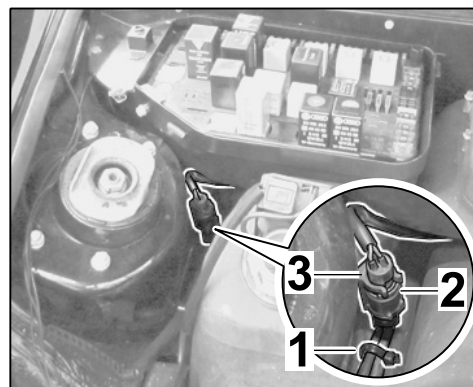


Figure 6

- 3.1.2 Carefully pull rubber sleeve ⇒ *Figure 7-1-* out of the body (relay/fuse carrier housing) ⇒ *Figure 7-a-*.
Expose wire harness for airbag sensor ⇒ *Figure 7-2-*.
- 3.1.3 Guide power supply line through the insulation tube.

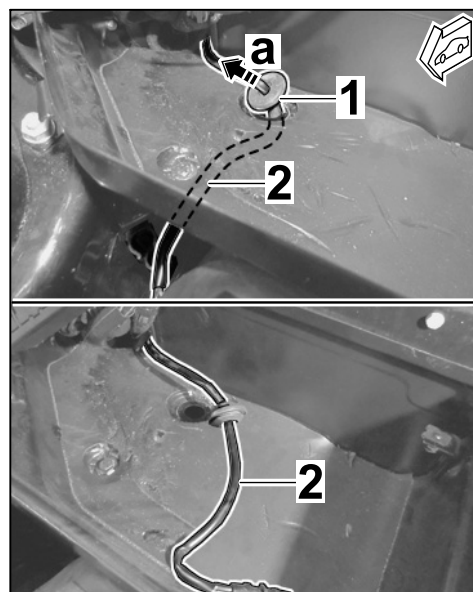


Figure 7

- 3.1.4 Guide power supply line ⇒ *Figure 8-1-* through the rubber sleeve ⇒ *Figure 8-2-* (⇒ *Figure 8-a-*)

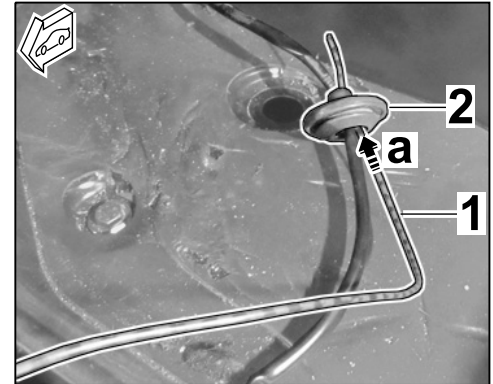


Figure 8

until the power supply line connector ⇒ *Figure 9-1-* is touching the airbag sensor wire harness connector ⇒ *Figure 9-2-*.

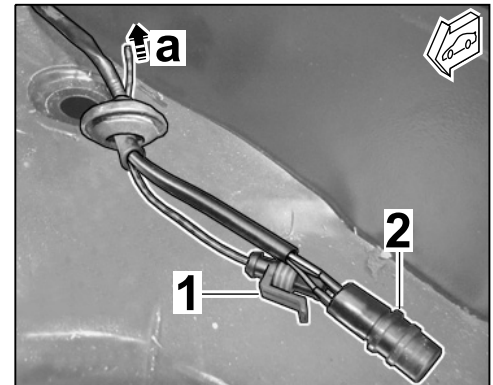


Figure 9

- 3.1.5 Route airbag sensor wire harness ⇒ *Figure 10-1-* and power supply line ⇒ *Figure 10-2-* through the bore to the airbag sensor connection point holder ⇒ *Figure 10-3-*.

Fit rubber sleeve ⇒ *Figure 10-4-*.

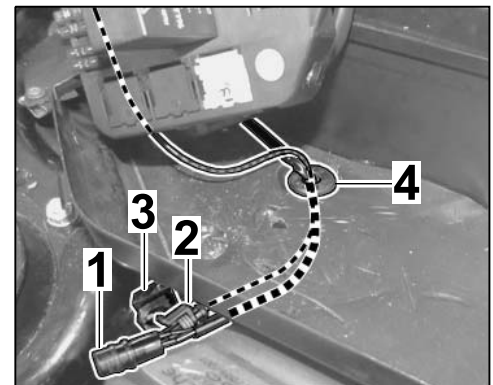


Figure 10

- 3.1.6 Route power supply line ⇒ *Figure 11-1-* further on to the relay/fuse carrier.
- 3.2 Install power supply line at the left.
 - 3.2.1 Open tie-wrap. Unclip connection point from holder and disconnect plug connection for airbag sensor.

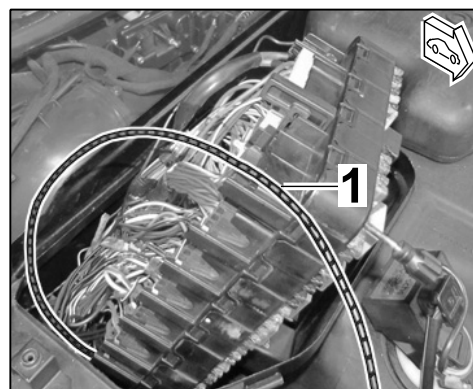


Figure 11

- 3.2.2 Press rubber sleeve ⇒ *Figure 12-1-* out of the cross panel ⇒ *Figure 12-3-* (⇒ *Figure 12-arrow-*).
Expose wire harness for airbag sensor ⇒ *Figure 12-2-*.
- 3.2.3 Guide power supply line through the insulation tube.

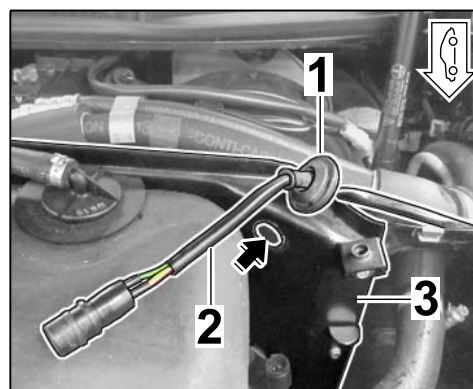


Figure 12

- 3.2.4 Guide power supply line ⇒ *Figure 13-1-* through the rubber sleeve ⇒ *Figure 13-2-* (⇒ *Figure 13-a-*) until the power supply line connector ⇒ *Figure 13-b-* is touching the airbag sensor wire harness connector ⇒ *Figure 13-4-*.
- 3.2.5 Guide airbag sensor wire harness and power supply line through the cross panel and fit rubber sleeve.

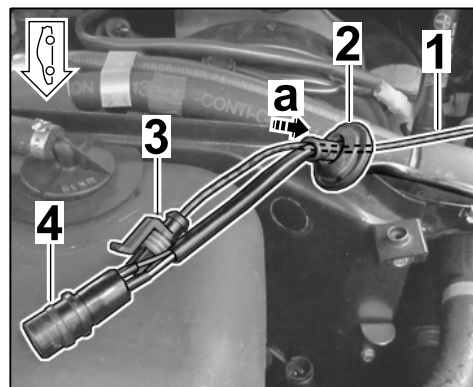


Figure 13

- 3.2.6 Route power supply line ⇒ *Figure 14-1* in the plenum panel ⇒ *Figure 14-2* to the relay/fuse carrier.
- 3.3 Connect power supply line at the right and/or power supply line at the left.

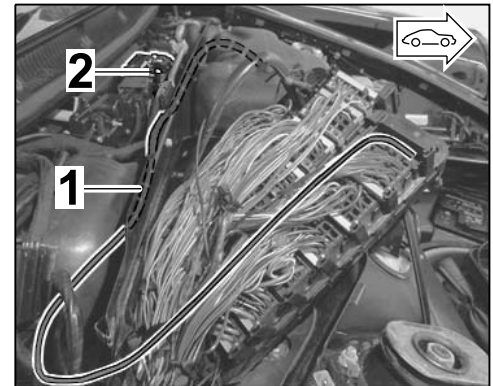


Figure 14

- 3.3.1 Pull out locking mechanism ⇒ *Figure 15-1* (⇒ *Figure 15-arrow*).



Information

The connector is identified by the letter K (Fig. 15 -inset-) on the side of the relay/fuse carrier.

Disconnect connector K ⇒ *Figure 15-2* from the relay/fuse carrier.

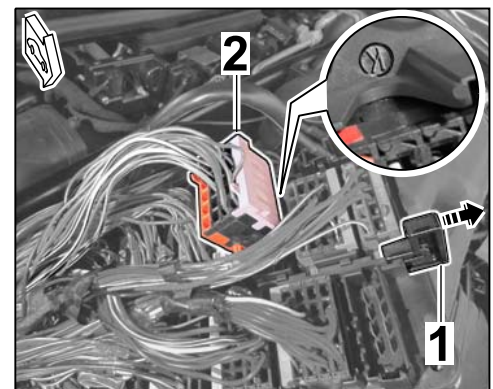


Figure 15

The plug socket (row 1.1 – 1.5) is not marked.
Only the related pin contacts on the relay/fuse carrier are marked.



Relay/fuse carrier

3.3.2 Insert a small screwdriver ⇒ *Figure 16-1*- into connector K ⇒ *Figure 16-a*-.

Disconnect plug socket (row 1.1 – 1.5) from connector K ⇒ *Figure 16-b*-.

3.3.3 Crimp power supply line at the right and/or power supply line at the left together using a new socket contact.

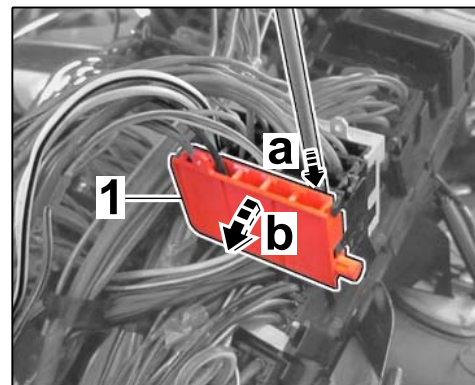


Figure 16

3.3.4 Insert socket contact into chamber 1.2 ⇒ *Figure 16-arrow*-.

Assemble plug socket (row 1.1 – 1.5) and connector K.

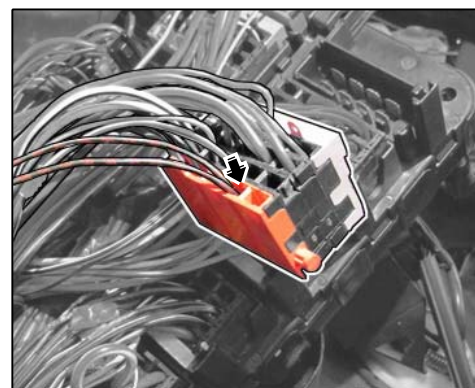


Figure 17

- 3.3.5 Connect connector K ⇒ *Figure 18-1-* to the relay/fuse carrier ⇒ *Figure 18-a-*.
Close the locking mechanism ⇒ *Figure 18-b-*.
- 3.3.6 Secure lines to the standard wire harness with a tie-wrap.

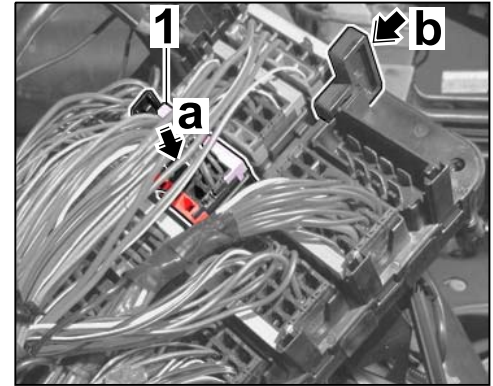


Figure 18

- 4 Replace airbag sensor at the right and/or left.
- 4.1 Unscrew shear-off nuts using **9259 - socket-wrench insert** ⇒ *Figure 19-2-* and remove airbag sensor ⇒ *Figure 19-1-*.
- 4.2 Clean sealing surfaces ⇒ *Figure 19-3-* until bare metal is exposed using a brass brush.
- 4.3 Position airbag sensor. Tighten shear-off nuts ⇒ *Figure 19-4-*.
- 4.4 Connect airbag sensor connection point ⇒ *Figure 19-5-* and fit it in the holder.
Connect power supply connection point ⇒ *Figure 19-6-*.

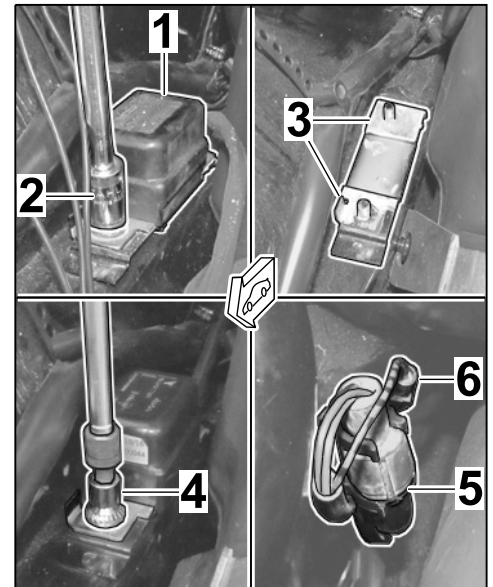


Figure 19

- 5 Concluding work:
- 5.1 Install relay/fuse carrier.
Install filler plate.
Close cover on relay/fuse carrier.
- 5.2 **Only** if left airbag sensor or both airbag sensors were replaced.
Install cowl panel.
- 5.3 Connect the battery.
- 5.4 Install front-compartment carpet and cover on front lock lower part.
- 5.5 Erase fault memory.

68645540:	Airbag sensor replaced	Labor time: 90 TU
68645640:	Airbag sensors replaced	Labor time: 119 TU
03350000:	On-board diagnosis (OBD)	Labor time: 20 TU

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