

**WC35 Workshop campaign - Checking relays for engine-compartment blower**

Vehicle Type: **911 Carrera (991)/911 Carrera S (991) – Coupé**

Model Year: **2012**

Concerns: **Relay for engine-compartment blower**

Situation: **There is a possibility that the relay for setting 1 of the engine-compartment blower is not inserted correctly in the relay carrier on the affected vehicles.**

If the relay is not inserted correctly, the function of setting 1 of the engine-compartment blower cannot be guaranteed and the driver will see a warning to this effect in the multi-function display.

Action Required: Check that the engine-compartment blower relay is seated correctly in the relay carrier.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle Information).

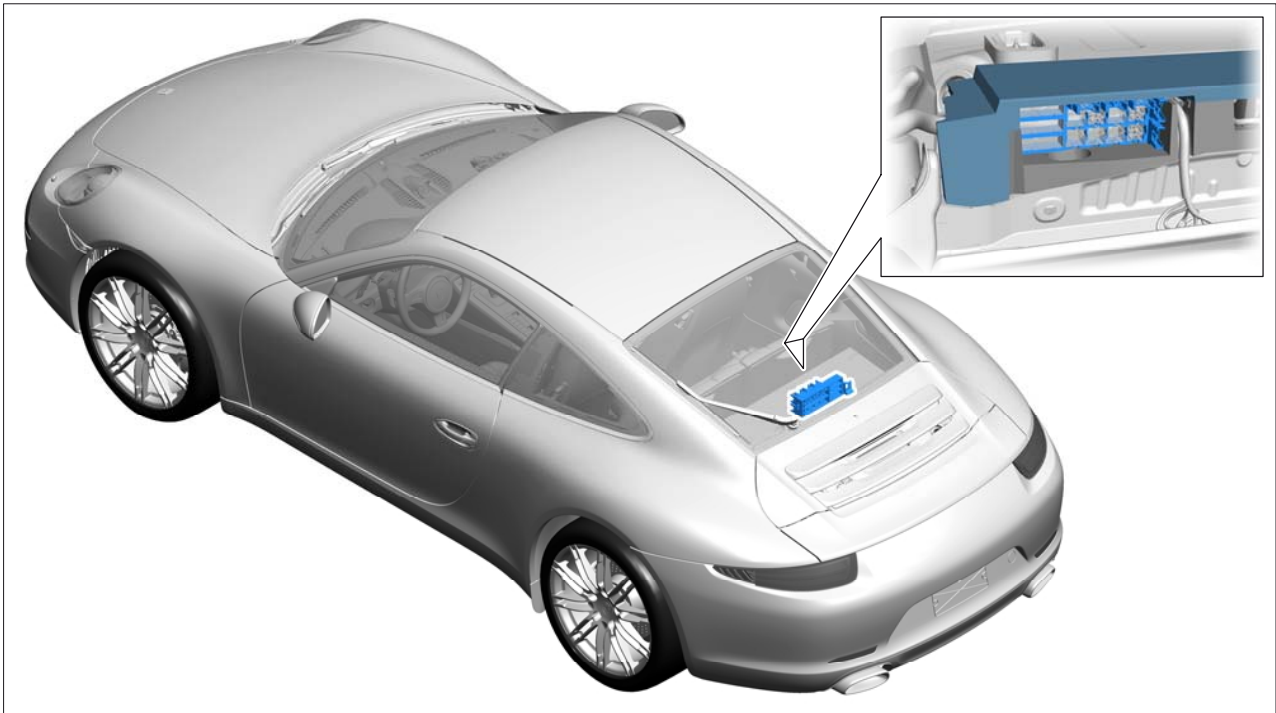
Part Nos.: Only required if the flat plugs of the relay are damaged:  
 999.657.014.90 ⇒ Relay for engine-compartment blower As many as required (max. 2)

Tools: PIWIS Tester II 9818  
 Deutronic Battery Charging Computer DBL1600-14 1391



**Information**

The engine-compartment blower relays to be checked are in relay carrier 2 in the passenger compartment, between the rear backrest at the right and the engine bulkhead ⇒ *Installation position of relays for engine-compartment blower.*



Installation position of relays for engine-compartment blower

Procedure:

**Check relays for engine-compartment blower.**

- 1 Switch off ignition and remove ignition key.
- 2 Move front seat as far forward as it will go and fold the seat backrest forward.
- 3 Release the rear backrest and fold it forward.
- 4 Pull rear cover out slightly sideways ⇒ *Figure 1 -arrow A-* and swivel it upwards ⇒ *Figure 1 -arrows B-*.

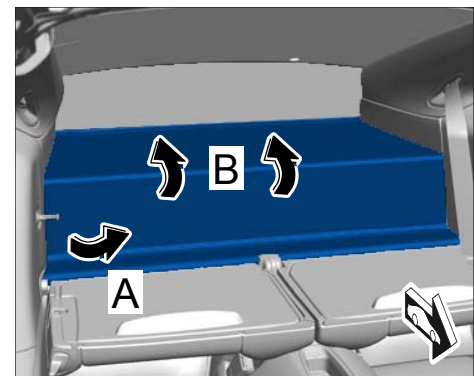


Figure 1

- 5 Remove both engine-compartment blower relays  
⇒ Figure 2 -1- from the relay carrier ⇒ Figure 2 -2-.

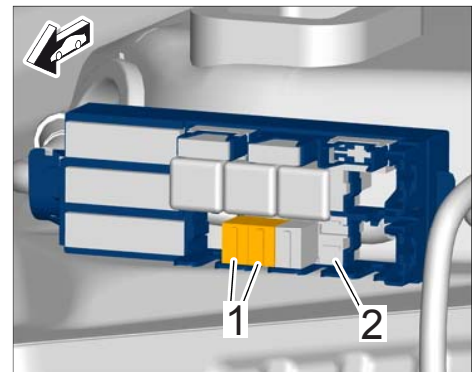


Figure 2

- 6 Check both engine-compartment blower relays.  
**If** one of the flat plugs on the relay is bent ⇒ Figure 3 -arrow-, the relay **must be replaced**.

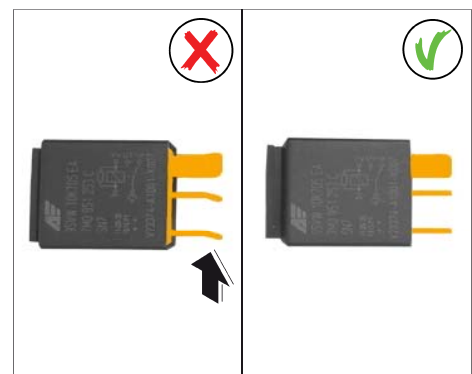


Figure 3

**If** a flat plug is bent, check the **plug sockets** in the relay carrier ⇒ Figure 4 -arrow- for **deformation** and bend them into shape again using a suitable tool if necessary.

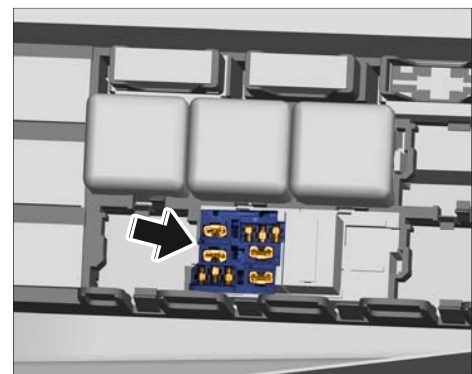


Figure 4

- 7 Press both engine-compartment blower relays ⇒ *Figure 5-1-* into the defined slot on the relay carrier ⇒ *Figure 5-2-* and check that they are seated correctly.

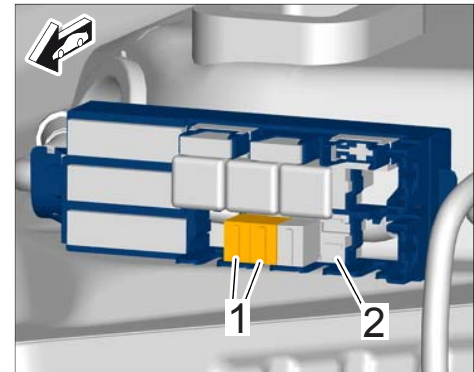


Figure 5

- 8 Swivel rear cover downwards ⇒ *Figure 6-arrow A-*, align it and press it sideways into the side trim panel ⇒ *Figure 6-arrow B-*.

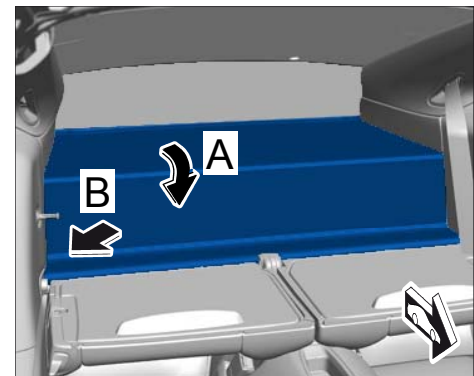


Figure 6

Procedure: **Perform on-board diagnosis on relays for engine compartment purge fan.**

- 1 **Preliminary work.**

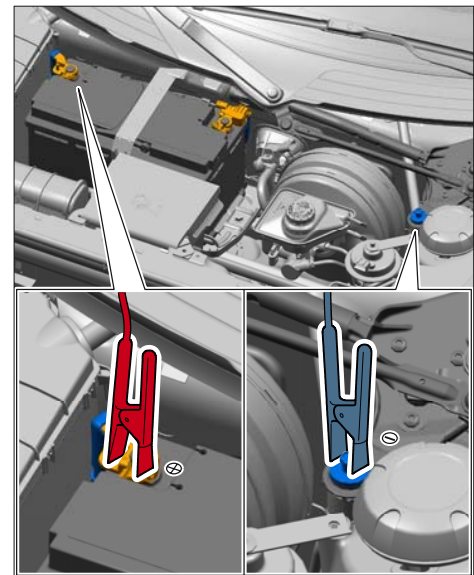
- 1.1 Connect a battery charger with a current rating of **at least 40 A**.

First connect the positive cable of the charger to the positive terminal of the battery and then connect the negative cable of the charger to the ground point for jump-lead starting ⇒ *External power connection*.

- 1.2 PIWIS Tester II 9818 must be connected to the vehicle communication module (VCI). Then, connect the communication module to the vehicle and switch on the PIWIS Tester.

- 1.3 On the PIWIS Tester start screen, call up the ⇒ **'Diagnostics'** menu and select the vehicle type.

The diagnostic application is then started and the control unit selection screen is populated.



*External power connection*

## 2 Perform drive links test on engine compartment purge fan setting 1 and setting 2.

- 2.1 In the control unit selection screen ⇒ **'Overview'** menu), select "DME" control unit and press **(F12)** to confirm your selection.

- 2.2 Skip the question as to whether you want to create a vehicle analysis log (VAL) by pressing **(F11)**.

- 2.3 Once the DME control unit has been found, select the ⇒ **'Drive links/checks'** menu.

- 2.4 Select the ⇒ **'Drive links'** function and press **(F12)** to confirm.

- 2.5 Select drive link ⇒ **'Engine compartment purge fan setting 1 (Low)'** and press **(F12)** to confirm your selection.

- 2.6 Start drive link for engine compartment purge fan setting 1 (Low)' by pressing **(F8)** ("Execute").

Both engine compartment purge fans are activated and the value **'100%'** appears in the 'Results' field. Activation of the engine compartment purge fan is signalled acoustically.

- 2.7 Once the test is completed successfully, replace the value **'100%'** with the value **'0%'** and continue by pressing **(F8)** to stop the activation of the drive links.

- 2.8 As soon as the drive links test on engine compartment purge fan setting 1 (Low) has been completed, press **(F11)** to go back and perform the drive links test on **engine compartment purge fan setting 2 (High)** in accordance with Steps 2.5 to 2.7.

- 2.9 Once the drive links test is completed successfully, press **(F11)** to return to the control unit selection screen (⇒ 'Overview' menu).

## 3 Read out and erase fault memories.

- 3.1 In the control unit selection screen (⇒ 'Overview' menu), press **F7** to call up the Additional menu.
- 3.2 Select the function ⇒ **'Read all fault memories and erase if required'** and press **>>** to confirm.  
The fault memories of the control units are read out.
- 3.3 Once you have read out the fault memories, erase the fault memory entries by pressing **F8**.
- 3.4 Press **F12** ("Yes") in response to the question as to whether you really want to erase all fault memory entries.  
The faults stored in the fault memories of the various control units are deleted.



#### Information

If control units are found to have faults, which cannot be erased and are not associated with checking the engine-compartment blower relay, these faults must be found and corrected. This work **cannot** be invoiced under the workshop campaign number.

- 3.5 Once you have erased the fault memories, select the ⇒ **'Overview'** menu and press **<<** to return to the control unit selection screen.

#### 4 Subsequent work.

- 4.1 Switch off ignition.
- 4.2 Disconnect the PIWIS Tester from the vehicle.
- 4.3 Switch off and disconnect the battery charger.

- 5 Enter the campaign in the Warranty and Maintenance booklet.



#### Invoicing



Scope 1:

#### Checking relays for engine-compartment blower – 911 Carrera (991)/911 Carrera S (991) - Coupé

##### Working time:

Checking relays for engine-compartment blower

Labor time: **32 TU**

Includes: Connecting and disconnecting battery charger  
Connecting and disconnecting PIWIS Tester  
Performing drive links test on engine compartment  
purge fan  
Reading out and erasing fault memories

##### Parts required (only if necessary):

999.657.014.90 Relay for engine-compartment blower 2 ea.



Invoicing: ⇒ Damage code **WC35 66 000**, Repair code **1**