

WD51 - Replacing Retainer Spring for Pressure Hose on the Turbocharger (Workshop Campaign)

Vehicle Type: **Panamera S/Panamera 4 S**

Model Year: **2014**

Vehicle Type: **Panamera/Panamera 4**

Equipment: V6 biturbo Low Pressure (I-no. 143)

Concerns: **Retainer spring for pressure hose on the turbocharger**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **There is a possibility that the charge-air pressure hoses are not secured sufficiently to the turbochargers on the affected vehicles due to unfavorable tolerances.**

As a result, the pressure hoses can slip off the turbochargers.

Action Required: Replace retainer springs for the charge-air pressure hoses on the turbochargers with modified retainer springs.

Affected Vehicles: The VIN(s) can be checked by using PIWIS Vehicle Information link to verify if the campaign affects the vehicle. This campaign is scope specific to the VIN! Failure to verify in PIWIS may result in an improper repair. This campaign affects 698 vehicles in North America.

Parts Info: **NOTE: DO NOT ORDER PARTS. THEY WILL BE AUTOMATICALLY ALLOCATED TO YOUR DEALERSHIP UP TO 70% FOR VEHICLES THAT ARE SERVICED AT YOUR DEALERSHIP. WHEN YOU ARE OUT OF STOCK AND REQUIRE ADDITIONAL PARTS, PLEASE SUBMIT A PTEC/PAV.**

Part No.	Designation	Qty.
000.043.209.32	⇒ Retainer spring	2 ea.
N 909.113.01	⇒ Fixing clip	2 ea.

- Tools:
- **Nr.21 - Disassembly tool**
 - Slotted screwdriver (large)
 - Mirror

Work Procedure: See Attachment "A".

Claim Submission: See Attachment "B".

Attachment "A": **Work Procedure**

Replace retainer springs for the charge-air pressure hoses.



Information

The affected pressure hose connections can be found at the bottom of the turbocharger and can be accessed through the left and right wheel housing.

- 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.



Information

During this campaign, the retainer springs fitted on the pressure hoses on the turbocharger must be replaced with **modified retainer springs, Porsche Part No. 000.043.209.32**.

If the original retainer springs are used on the affected vehicles, there is **no guarantee** that the charge-air pressure hoses will be **adequately secured**.

To avoid any mix-up between the old and new retainer springs, the **modified retainer springs** must be **marked in color** before installation, unless they are already marked accordingly upon delivery.

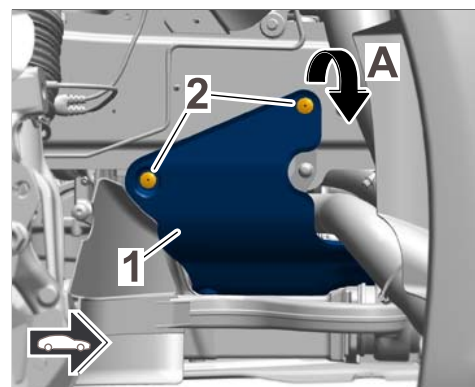
- 2 Apply a **color marking** to the new, modified retainer springs, unless they are already marked in color upon delivery.
- 3 **Replace retainer spring for the charge-air pressure hose on the turbocharger for cylinder bank 1–3.**
 - 3.1 Remove front part of front wheel housing liner at the right ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.
 - 3.2 Turn the front wheels **fully to the right**.



Information

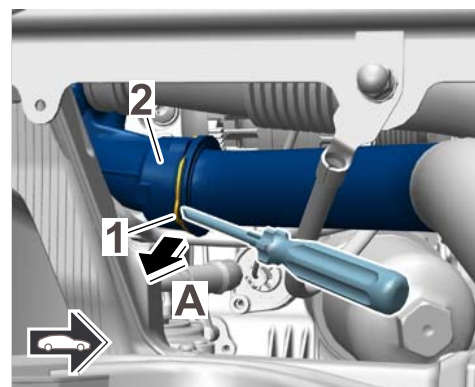
The fixing clips for the engine compartment cover will be damaged during removal. As a result, **new fixing clips** must be used when **re-installing** the cover.

- 3.3 Lever off fixing clips ⇒ *Loosening cover -2-* for the engine compartment cover ⇒ *Loosening cover -1-* using **Nr.21 - disassembly tool** and bend the cover down ⇒ *Loosening cover -arrow A-*. Push the cover ⇒ *Loosening cover -1-* under the lower control arm if necessary in order to secure the cover and make it easier to access the turbocharger.



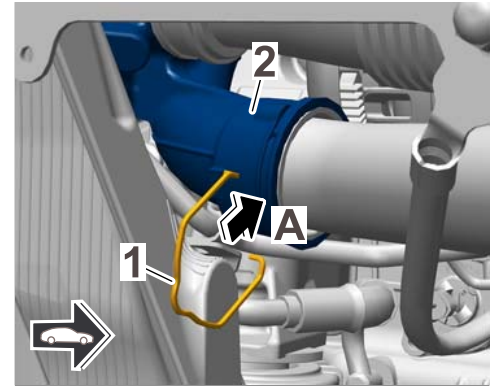
Loosening cover

- 3.4 Lever the retainer spring ⇒ *Removing retainer spring for cylinder bank 1-3-1-* for the quick connector on the turbocharger off the charge air flange ⇒ *Removing retainer spring for cylinder bank 1-3-2-* through the right wheel housing using a large slotted screwdriver ⇒ *Removing retainer spring for cylinder bank 1-3-arrow A-*. To do this, pry the retainer spring out of the guiding groove on both sides of the quick connector one after the other and pull it off the charge air flange.

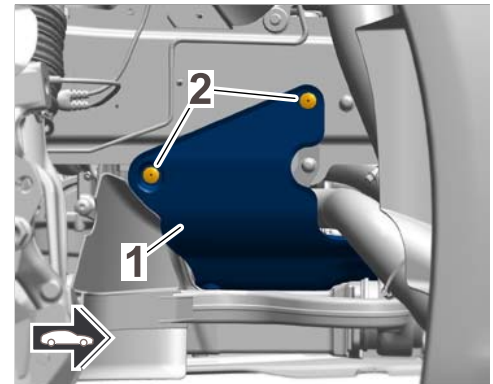


Removing retainer spring for cylinder bank 1-3

- 3.5 **Fit new retainer spring** ⇒ *Fitting new retainer spring for cylinder bank 1-3-1-*, **Porsche Part No. 000.043.209.32**, into the guiding groove at the quick connector and push it on ⇒ *Fitting new retainer spring for cylinder bank 1-3-arrow A-* until the retainer spring engages at the end position on the charge air flange ⇒ *Fitting new retainer spring for cylinder bank 1-3-2-*.
- 3.6 Press the charge-air pressure hose towards the turbocharger several times to make sure that the pressure hose has engaged fully in the quick connector.
- 3.7 Check that the pressure hose is locked correctly in the quick connector by trying to pull the pressure hose off the turbocharger.
- 3.8 Position engine compartment cover ⇒ *Fitting cover -1-* on the longitudinal member and secure it with **new** fixing clips ⇒ *Fitting cover -2-*, **Porsche Part No. N 909.113.01**.
- 3.9 Install front part of front wheel housing liner at the right ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.
- 4 **Replace retainer spring for the charge-air pressure hose on the turbocharger for cylinder bank 4-6.**
- 4.1 Turn the front wheels **fully to the left**.



*Fitting new retainer spring
for cylinder bank 1-3*

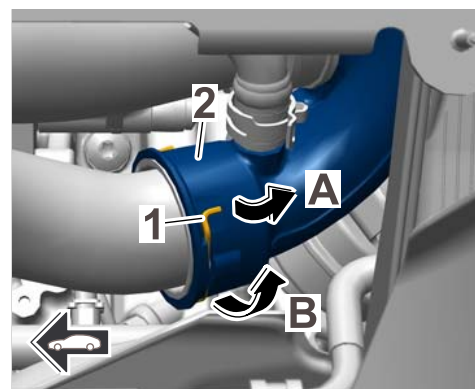


Fitting cover

- 4.2 Lever the retainer spring ⇒ *Removing retainer spring for cylinder bank 4-6 -1-* for the quick connector on the turbocharger off the charge air flange through the left wheel housing.

To do this, pry both ends of the retainer spring out of the guiding groove one after the other by pressing them towards the turbocharger ⇒ *Removing retainer spring for cylinder bank 4-6 -arrow A-*.

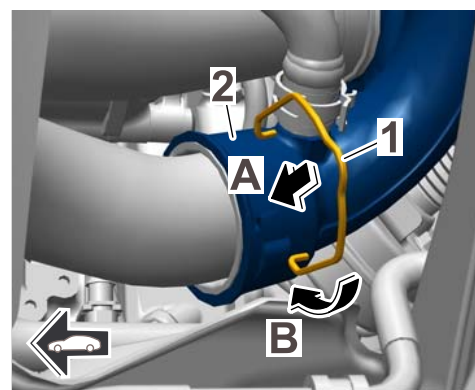
Then, turn the retainer spring on the charge air flange ⇒ *Removing retainer spring for cylinder bank 4-6 -2-* towards the wheel housing ⇒ *Removing retainer spring for cylinder bank 4-6 -arrow B-* and pull it off the charge air flange.



Removing retainer spring for cylinder bank 4-6

- 4.3 **Push new retainer spring** ⇒ *Fitting new retainer spring for cylinder bank 4-6 -1-*, **Porsche Part No. 000.043.209.32**, through the wheel housing close to the guiding groove for the quick connector and onto the charge air flange ⇒ *Fitting new retainer spring for cylinder bank 4-6 -2-* (⇒ *Fitting new retainer spring for cylinder bank 4-6 -arrow A-*).

Then, turn the retainer spring into installation position ⇒ *Fitting new retainer spring for cylinder bank 4-6 -arrow B-* and press it forward in direction of travel at the same time until the retainer spring engages in the guiding groove on both sides.



Fitting new retainer spring for cylinder bank 4-6

- 4.4 Move the retainer spring up and down in the guiding groove to make sure that the retainer spring is fully engaged in the guiding groove. Then, check that the retainer spring is positioned correctly in the guiding groove using a mirror.
- 4.5 Press the charge-air pressure hose towards the turbocharger several times to make sure that the pressure hose has engaged fully in the quick connector.
- 4.6 Check that the pressure hose is locked correctly in the quick connector by trying to pull the pressure hose off the turbocharger.

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

Attachment "B": **Claim Submission** - Workshop Campaign WD51
Warranty claims should be submitted via WWS/PQIS.

Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.

Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.



Information

The specified working time was determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PIWIS.

Working time:

Replacing retainer springs for charge-air pressure hoses. Labor time: **49 TU**

Includes: Removing and installing front part of front wheel housing liner at the right

Parts required:

000.043.209.32	Retainer spring	2 ea.
N 909.113.01	Fixing clip	2 ea.

⇒ **Damage code WD51 066 000 2**

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