

WF41 - Replacing Reservoir for the PDK Transmission (Workshop Campaign)

Vehicle Type: **918 Spyder**

Model Year: **2015**

Concerns: **Reservoir for the PDK transmission**

Issue: **The 918 Spyder is fitted with a reservoir for the Porsche Doppelkupplung (PDK) transmission oil that is usually not filled when the vehicle cools down.**

Since this reservoir was previously used for another purpose, it shows fill level markings and operating fluid information that are not relevant for use on the PDK transmission.

As a result, incorrect fluid or incorrect amounts can be filled because a supposed lack of operating fluid may be detected and the reservoir is filled.

Action Required: Replace reservoir for the PDK transmission with a modified reservoir with a securely bonded cap and without the markings/information.



Information

The vehicle must be checked for defects and damage (damage to paintwork, missing parts, etc.) **each time** it is handed over, transferred or delivered. Confirmation that the vehicle is in good condition or details of any damage to the vehicle must be documented and archived for feedback purposes.



Information

The respective vehicle may also be assigned to the following campaign in addition to this campaign:

- WF40 Workshop campaign – Retrofitting additional fastening bolt and line bracket for coolant pipe

Based on the **preliminary work and subsequent work required** for both campaigns, there are **overlaps** in terms of the required **steps and parts**.

For this reason, **both campaigns must be carried out together** on vehicles affected by both this campaign and workshop campaign WF40.

During warranty processing, **Scope 1** of this campaign must be invoiced for vehicles **affected by both campaigns**. All overlapping steps and parts for workshop campaign WF40 are covered by this combined scope and are therefore not included again in the working time.

Scope 2 must be invoiced for vehicles that are **not** also **affected by workshop campaign WF40**. All required steps and parts for this campaign are included in this full scope.

Service Level: **This campaign must be carried out by a Service Level 2 Porsche Dealer.**

Service Level 0 Porsche Dealers are **not** authorised to carry out this campaign.

In accordance with the service concept for the 918 Spyder, the vehicle must be transferred to the nearest Service Level 2 Porsche Dealer in order to carry out this campaign.

In this case, please contact the nearest Service Level 2 Porsche Dealer and arrange for the transfer of the vehicle and implementation of the measure.

Information on invoicing for the transfer of the vehicle can be found under ⇒ *Technical Information* 'WF4100 Invoicing' at the end of this document.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle Information). This campaign affects 332 vehicles in North America

Parts Info: **NOTE: PARTS WILL NOT BE AUTOMATICALLY ALLOCATED TO YOUR DEALERSHIP. ALL PARTS MUST BE ORDERED VIA A PTEC/PAV.**

Part No.	Designation – Use	Qty.
918 321 035 01	⇒ Reservoir with holder – PDK transmission	1 ea.
Additional parts required for vehicles for which there is no overlap with the following campaign:		
• WF40 Workshop campaign – Retrofitting additional fastening bolt and line bracket for coolant pipe		
918 111 421 00	⇒ Seal – Front silencer to exhaust manifold	2 ea.
918 111 431 00	⇒ Seal – Main silencer to front silencer	2 ea.
999 507 309 02	⇒ Speed nut, ST 4.8 – Rear apron – Rear wheel housing liner	Optional (as required)
N 906 271 03	⇒ Speed nut (same as Part No. 918 504 597 00) – Underbody panelling – Rear wheel housing liner – Rear apron – Rear side panel	Optional (as required)
000 043 302 75	⇒ Clamp – Rear side panel	Optional (as required)

Materials: **Only required** for vehicles for which there is **no overlap** with the following campaign:

- WF40 Workshop campaign – Retrofitting additional fastening bolt and line bracket for coolant pipe

Part No.	Designation – Use	Qty.
000 043 300 35	McLube Sailkote High Performance Dry Lube – Central wheel lock	428g spraying can (approx. 10 grams required per vehicle)

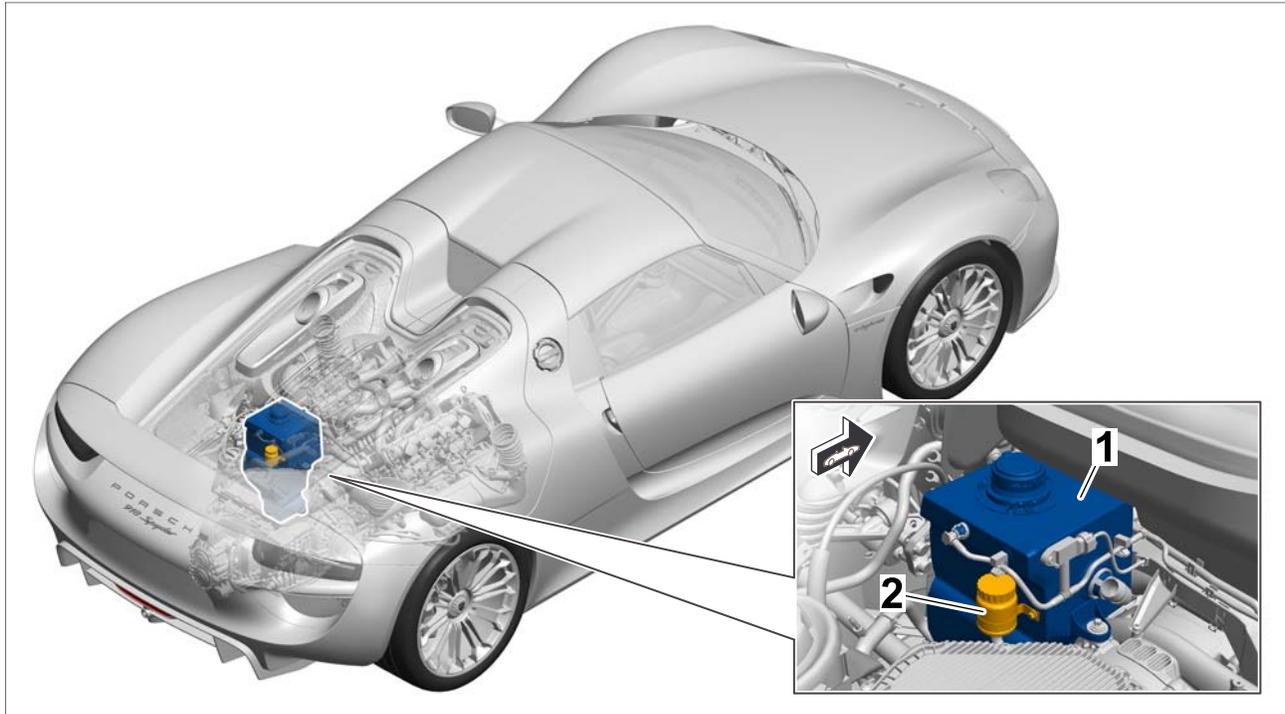
The required materials are usually already available in the Porsche Centre.

Tools:

- **9002 - Lifting platform holders**
- **9453 - Access ramps**
- **9003 - Socket wrench** for central wheel lock
- **9004 - Socket wrench** for central wheel lock cover
- **9001 - Socket wrench** for engine cover caps
- **3370 - Hook** for removing roll-over bar trim
- Torque wrench, 150 – 800 Nm (111 – 592 ftlb.), e.g. **V.A.G 1601 - Torque wrench, 150 - 800 Nm (111 - 592 ftlb.)**
- Torque wrench, 2 – 10 Nm (1.5 – 7.5 ftlb.), e.g. **V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- Torque wrench, 6 – 50 Nm (4.5 – 37 ftlb.), e.g. **V.A.G 1331 - Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
- Assembly pliers for spring band clamps, e.g. **VAS 6856 - Spring band clamp pliers**
- **9014/1 - Protective cover** for top of rear spoiler
- **9014/3 - Protective cover** for heat protection on exhaust system
- **9014/4 - Protective cover** for underside of rear spoiler
- **9014/5 - Protective cover** for outer rear trim panel
- **9014/6 - Protective cover** for front of engine cover
- Plastic assembly wedge (commercially available)

Installation

Position:



Installation position of the reservoir

- 1 – Engine oil tank
- 2 – Reservoir for PDK transmission (**replace**)

Preliminary work

- Procedure:
- 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 1.1 Position the vehicle between the arms of the lifting platform and push it onto the **9453 - access ramps**.
 - 1.2 Remove underbody covers and fit mounting plates **9002 - Lifting platform holders**, ⇒ *Workshop Manual '518119 Removing and installing jacking points'*.
 - 1.3 Jack and raise the vehicle at the mounting plates.
 - 2 Remove trim panel for roll-over bar at the left and right ⇒ *Workshop Manual '663519 Removing and installing trim panel for roll-over bar'*.
 - 3 Remove engine cover ⇒ *Workshop Manual '108319 Removing and installing engine cover'*.
 - 4 Remove both rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
 - 5 Remove rear side panel at the left and right.

- 5.1 Remove rear wheel housing liners at the left and right.
 - 5.1.1 Remove rear wheel housing liner (front part) ⇒ *Workshop Manual '53691901 Removing and installing rear wheel housing liner (front part)'*.
 - 5.1.2 Remove rear wheel housing liner (rear part) ⇒ *Workshop Manual '53691903 Removing and installing rear wheel housing liner (rear part)'*.
- 5.2 Remove lower part of rear spoiler (at the sides) ⇒ *Workshop Manual '66591901 Removing and installing lower part of rear spoiler (at the sides)'*.
- 5.3 Remove lower part of rear spoiler ⇒ *Workshop Manual '66591900 Removing and installing lower part of rear spoiler'*.
- 5.4 Remove additional rear spoiler ⇒ *Workshop Manual '66581905 Removing and installing rear spoiler'*.
- 5.5 Remove rear apron ⇒ *Workshop Manual '635519 Removing and installing rear apron'*.
- 5.6 Remove air cleaner housing (air guide) at the left and right ⇒ *Workshop Manual '243619 Removing and installing air guide'*.
- 5.7 Remove rear side panel at the left and right ⇒ *Workshop Manual '535519 Removing and installing side panel'*.
- 6 Loosen left and right coolant reservoir in order to remove the exhaust system at the monocoque and move them aside with lines connected. For instructions, see:
⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - high-temperature cooling system'*
⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - medium/low-temperature cooling system'*
- 7 Remove exhaust system ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*. Also loosen the clamps between the front and rear silencers to make it easier to remove the exhaust system. For instructions, see ⇒ *Workshop Manual '263319 Removing and installing rear silencer'*.
- 8 Remove heat shield for exhaust system at the left and right side ⇒ *Workshop Manual '261219 Removing and installing heat shield on exhaust system'*.

Replacing reservoir for the PDK transmission

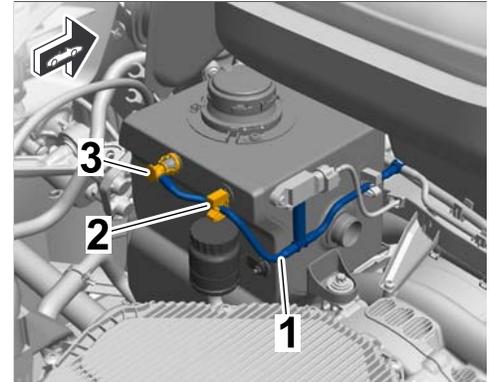
Procedure: **Note: If you can reach the nuts securing the reservoir bracket, the removal of the breather pipe is not necessary.**

- 1 Disconnect breather pipe ⇒ *Disconnecting breather pipe -1-* for the engine oil tank and set it aside.

1.1 Unclip breather pipe ⇒ *Disconnecting breather pipe -1-* from the line bracket ⇒ *Disconnecting breather pipe -2-*. Unscrew and remove line bracket from the pin cap.

1.2 Release plug-in coupling ⇒ *Disconnecting breather pipe -3-* on the breather pipe ⇒ *Disconnecting breather pipe -1-* and disconnect breather pipe from the engine oil tank.

Then carefully push the breather pipe aside. Collect emerging engine oil using a suitable cloth if necessary.



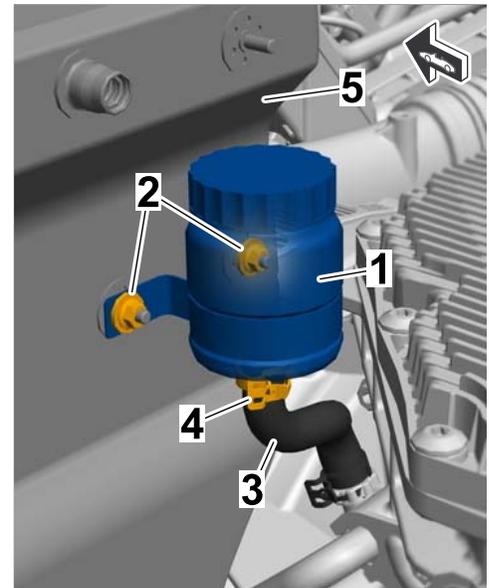
Disconnecting breather pipe

- 2 Remove reservoir ⇒ *Removing reservoir -1-* for the PDK transmission.

2.1 Loosen and unscrew fastening nuts ⇒ *Removing reservoir -2-* for the reservoir. Remove fastening nuts and washers.

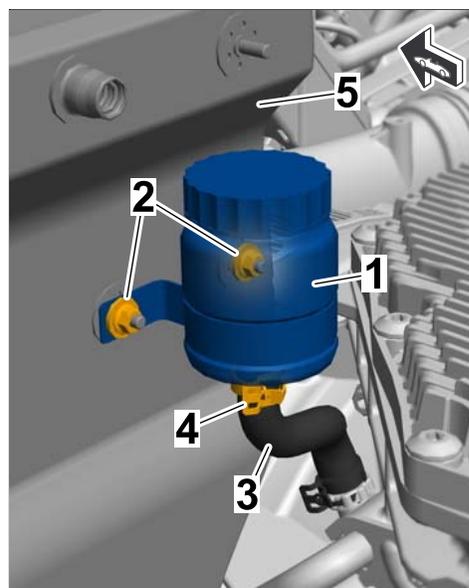
2.2 Disconnect the reservoir ⇒ *Removing reservoir -1-* together with the retaining bar from the engine oil tank ⇒ *Removing reservoir -5-*.

2.3 Open the clamp ⇒ *Removing reservoir -4-* and disconnect the reservoir from the hose piece ⇒ *Removing reservoir -3-*. Then, remove the reservoir ⇒ *Removing reservoir -1-* together with the retaining bar.



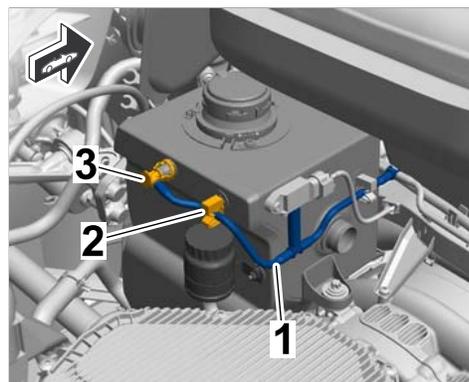
Removing reservoir

- 3 Install new reservoir ⇒ *Installing reservoir -1-* for the PDK transmission.
 - 3.1 Slide hose piece ⇒ *Installing reservoir -3-* as far as it will go onto the adapter on the new reservoir ⇒ *Installing reservoir -1-* and secure it with the clamp ⇒ *Installing reservoir -4-*.
Make sure not to twist or crush the hose piece when fitting the reservoir.
 - 3.2 Position new reservoir ⇒ *Installing reservoir -1-* using the retaining bar on the pin caps on the engine oil tank ⇒ *Installing reservoir -5-*.
 - 3.3 Fit washers on the pin caps. Screw on and tighten fastening nuts ⇒ *Installing reservoir -2-*.
Tightening torque 6 Nm (4.5 ftlb.)



Installing reservoir

- 4 Secure the breather pipe ⇒ *Securing breather pipe -1-* for the engine oil tank.
 - 4.1 Screw the line bracket you removed earlier ⇒ *Securing breather pipe -2-* onto the pin cap on the engine oil tank and align it.
 - 4.2 Fit plug-in coupling ⇒ *Securing breather pipe -3-* for the breather pipe ⇒ *Securing breather pipe -1-* onto the connection on the engine oil tank until the coupling engages securely with an audible click.
 - 4.3 Clip breather pipe ⇒ *Securing breather pipe -1-* into the line bracket ⇒ *Securing breather pipe -2-*.



Securing breather pipe

Subsequent work

- Procedure:
- 1 Install heat shield for exhaust system at the left and right side ⇒ *Workshop Manual '261219 Removing and installing heat shield on exhaust system'*.
 - 2 Install exhaust system. To do this, move the coolant reservoirs with connected lines aside.
⇒ *Workshop Manual '260119 Removing and installing exhaust system'*
⇒ *Workshop Manual '263319 Removing and installing rear silencer'*
- Adjust the position of the exhaust system in the vehicle if necessary. For instructions, see ⇒ *Workshop Manual '263315 Adjusting rear silencer'*.

- 3 Secure the coolant reservoir at the left and right. For instructions, see:
⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - high-temperature cooling system'*
⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - medium/low-temperature cooling system'*.
- 4 Install rear side panel at the left and right.
 - 4.1 Install rear side panel at the left and right ⇒ *Workshop Manual '535519 Removing and installing side panel'*.
 - 4.2 Install air cleaner housing (air guide) at the left and right ⇒ *Workshop Manual '243619 Removing and installing air guide'*.
 - 4.3 Install rear apron ⇒ *Workshop Manual '635519 Removing and installing rear apron'*.
 - 4.4 Install additional rear spoiler ⇒ *Workshop Manual '66581905 Removing and installing rear spoiler'*.
 - 4.5 Install lower part of rear spoiler ⇒ *Workshop Manual '66591900 Removing and installing lower part of rear spoiler'*.
 - 4.6 Install lower part of rear spoiler (at the sides) ⇒ *Workshop Manual '66591901 Removing and installing lower part of rear spoiler (at the sides)'*.
 - 4.7 Install rear wheel housing liners at the left and right.
 - 4.7.1 Install rear wheel housing liner (rear part) ⇒ *Workshop Manual '53691903 Removing and installing rear wheel housing liner (rear part)'*
 - 4.7.2 Install rear wheel housing liner (front part) ⇒ *Workshop Manual '53691901 Removing and installing rear wheel housing liner (front part)'*
- 5 Fit both rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 6 Install engine cover ⇒ *Workshop Manual '108319 Removing and installing engine cover'*.
- 7 Install trim panel for roll-over bar at the left and right ⇒ *Workshop Manual '663519 Removing and installing trim panel for roll-over bar'*.
- 8 Enter the campaign in the Warranty and Maintenance booklet.

Warranty Invoicing

Service Level: **This campaign must be carried out by a Service Level 2 Porsche Dealer.**

Service Level 0 Porsche Centres are **not** authorised to carry out this campaign.

In accordance with the service concept for the 918 Spyder, the vehicle must be transferred to the nearest Service Level 2 Porsche Dealer in order to carry out this campaign.

In this case, **Service Level 0 Porsche Dealers** can invoice the cost items listed below for vehicle acceptance, transporting the vehicle and accepting the vehicle following return transport using the **new vehicle warranty** for the vehicle in accordance with the specifications in the 918 Spyder After Sales Fact Book 2014:

- Vehicle acceptance 100 TU
- Transporting the vehicle 100 TU
- Acceptance of the vehicle following return transport 50 TU
- Costs for transporting the vehicle to and from the Porsche Centre Amount as per invoice *

* Please document copy of invoice in PQIS

Please invoice the costs by specifying **Damage code C902 97 000** and enter the technical reason by specifying **Coding C9020 9735** in PQIS. Also specify **Campaign WF41** under Comment.

Service Level 2 Porsche Dealers must always submit an invoice for the respective **campaign scope**.



Information

During warranty processing, **Scope 1** of this campaign must be invoiced for vehicles **affected both by this campaign and by workshop campaign WF40**. All overlapping steps and parts for workshop campaign WF40 are covered by this **combined scope** and are therefore not included again in the working time.

Scope 2 must be invoiced for vehicles that are **not** also **affected by workshop campaign WF40**. All required steps and parts for this campaign are included in this **full scope**.

Scope 1: **Replacing reservoir for the PDK transmission (combined scope).**

Working time:

Replacing reservoir for the PDK transmission Labor time: **29 TU**
 Includes: Loosening and securing breather pipe for engine oil tank

Parts required:

918 321 035 01 Reservoir with holder 1 ea.

Warranty Invoicing: ⇒ **Damage code WF41 66 000, Repair code 2**

Scope 2: **Replacing reservoir for the PDK transmission (full scope).**

Working time:

Replacing reservoir for the PDK transmission

Labor time: **651 TU**

Includes:

- Loosening and securing breather pipe for engine oil tank
- Raising and lowering the vehicle
- Removing and installing trim panel for roll-over bar at the left and right
- Removing and installing engine cover
- Removing and installing rear wheel at the left and right
- Removing and installing rear wheel housing liner at the left and right
- Removing and installing lower part of rear spoiler
- Removing and installing additional rear spoiler
- Removing and installing rear apron
- Removing and installing air guide at the left and right
- Removing and installing rear side panel at the left and right
- Loosening and securing coolant reservoir at the left and right
- Removing and installing exhaust system
- Removing and installing heat shields on exhaust system

Parts required:

918 321 035 01	Reservoir with holder	1 ea.
918 111 421 00	Seal	2 ea.
918 111 431 00	Seal	2 ea.
999 507 309 02	Speed nut, ST 4.8	Optional (as required)
N 906 271 03	Speed nut	Optional (as required)
000 043 302 75	Clamp	Optional (as required)

Required materials (usually already available in the Porsche Centre):

000 043 300 35	McLube Sailkote High Performance Dry Lube (428g spraying can)	0.03 ea. (= approx. 10 g)
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Warranty Invoicing: ⇒ **Damage code WF41 66 000, Repair code 2**

References:

- ⇒ *Workshop Manual '108319 Removing and installing engine cover'*
- ⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - high-temperature cooling system'*
- ⇒ *Workshop Manual '194019 Removing and installing coolant reservoir - medium/low-temperature cooling system'*
- ⇒ *Workshop Manual '243619 Removing and installing air guide'*

- ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*
- ⇒ *Workshop Manual '261219 Removing and installing heat shield for exhaust system'*
- ⇒ *Workshop Manual '263315 Adjusting rear silencer'*
- ⇒ *Workshop Manual '263319 Removing and installing rear silencer'*
- ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
- ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- ⇒ *Workshop Manual '518119 Removing and installing jacking points'*
- ⇒ *Workshop Manual '535519 Removing and installing side panel'*
- ⇒ *Workshop Manual '53691901 Removing and installing rear wheel housing liner (front part)'*
- ⇒ *Workshop Manual '53691903 Removing and installing rear wheel housing liner (rear part)'*
- ⇒ *Workshop Manual '635519 Removing and installing rear apron'*
- ⇒ *Workshop Manual '663519 Removing and installing trim panel for roll-over bar'*
- ⇒ *Workshop Manual '66581905 Removing and installing rear spoiler'*
- ⇒ *Workshop Manual '66591900 Removing and installing lower part of rear spoiler'*
- ⇒ *Workshop Manual '66591901 Removing and installing lower part of rear spoiler (at the sides)'*

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