

WF01 - Replacing Holder for Brake Line on Rear Axle (Workshop Campaign)

Vehicle Type: **918 Spyder**

Model Year: **2015**

Concerns: **Brake line holder on rear axle**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **A brake line holder that does not meet the required specifications was installed at the rear brake calipers on the affected vehicles.**

As a result, there is a possibility that the holder can break on vehicles with high mileage. In the event of repairs, the broken holder cannot be re-fitted after the brake line has become detached from the brake caliper.

Action Required: Replace brake line holder on the rear axle at the left and right.



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.

Service Level: **This campaign must be carried out by a Service Level 1 or 2 Porsche Dealer.**

Service Level 0 Porsche Dealers are **not** authorized 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 1 or 2 Porsche Dealer in order to carry out this campaign.

If the vehicle should require transport from your dealership to a Level 2 Dealer and transportation has not previously been arranged by the 918 Client Relationship Team, you should contact Roadside Assistance at 1 (844) 918-SPYD (7793) to facilitate the transfer.

Information on invoicing for the transfer of the vehicle can be found under Attachment "B" ⇒ *Technical Information 'WF0100 Invoicing'* at the end of this document.

**Information**

The vehicle may be assigned to several campaigns for which there may be an overlap between some of the steps to be completed in order to carry out the required preliminary and subsequent work.

Before carrying out this campaign, it is important therefore to check whether the vehicle in question is also affected by one or more of the campaigns specified below:

- WFO2 Workshop campaign - Replacing bearing covers for wheel bearings on rear axle (Service Level 2)
- WFO3 Workshop campaign - Tightening threaded joint securing connecting links on rear axle (Service Level 1)
- WFO4 Workshop campaign - Replacing oil intake pipe (Service Level 1)

If the vehicle is assigned to one or more of the specified campaigns, the campaigns **must be carried out together** if possible because of the overlapping steps involved.

For warranty invoicing for campaigns carried out together, the **full scope** must only be invoiced **once** and only the **combined scope** may be invoiced if necessary **for other campaigns carried out together**.

All required steps are included in the working time for the full scope.

All overlapping steps for other campaigns are covered by the combined scope and are therefore not included again in the working time.

If several Porsche Dealers are involved because of the **different service levels** required for carrying out a campaign, the **full scope** must be invoiced for **one of the campaigns carried out together for each Porsche Dealer involved**. The **combined scope** must be invoiced for other **campaigns carried out together**.

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 64 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.
918.355.503.01	⇒ Brake line holder, left	1 ea.
918.355.504.01	⇒ Brake line holder, right	1 ea.
N 107.512.01	⇒ Hexagon round-head bolt	2 ea.

000.043.203.67	⇒ Brake fluid	30-liter container As much as required (approx. 2 liters per vehicle)
000.043.300.35	⇒ McLube Sailkote High Performance Dry Lube – Central wheel lock Also commercially available at marine supply stores.	428g spraying can As much as required (approx. 20 g per vehicle)

Tools:

- **9002 - Lifting platform holders**
- **9453 - Access ramps**
- **9003 - Socket wrench**
- **9004 - Socket wrench**
- 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.)**
- Torque wrench, 150 - 800 Nm (111 - 592 ftlb.), e.g. **V.A.G 1601 - Torque wrench, 150 - 800 Nm (111 - 592 ftlb.)**
- Electronic torque wrench, 2 - 100 Nm (1.5 - 74 ftlb.), e.g. **9768 - Electronic torque wrench, 2 - 100 Nm (1.5 - 74 ftlb.)**

Work Procedure:

See Attachment "A".

Claim Submission:

See Attachment "B".

Attachment "A": **Work Procedure**

- 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual 'WF0100 Lifting the vehicle'*.
 - 1.1 Position the vehicle between the arms of the lifting platform and push it onto the access ramps **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 both rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

**Information**

- Before disconnecting the brake lines, place a clean absorbent cloth underneath.
- Close off brake lines using suitable stoppers immediately after disconnecting them.

**Information**

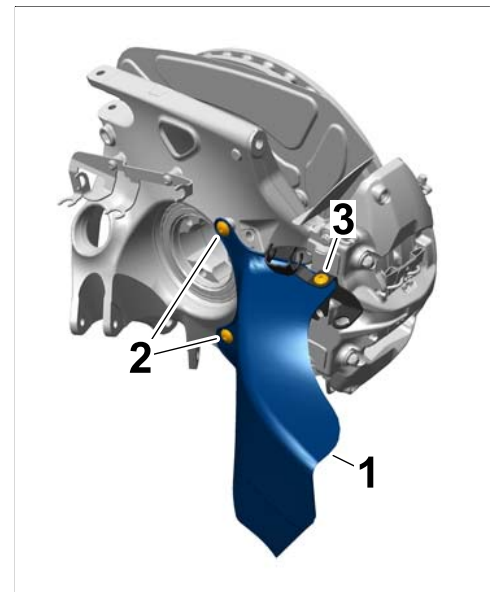
- During assembly work on the hydraulic connections, all electric plug connections in the connection point area must always be connected. This prevents the inside of the plug connections from being splashed with brake fluid or water.
- Clean any plug connections that have become dirty or damp during removal and fitting using a lint-free cloth, for example.
- Brake fluid on electric contacts (even thinned brake fluid) causes corrosion and can result in faults in the system.
- Remove any escaping brake fluid immediately; rinse with water and dry thoroughly if necessary.

3 Remove air guide from the wheel carrier ⇒ *Removing air guide -1-* at the left.

3.1 Loosen and unscrew fastening screw ⇒ *Removing air guide -3-* on the air guide ⇒ *Removing air guide -1-*.

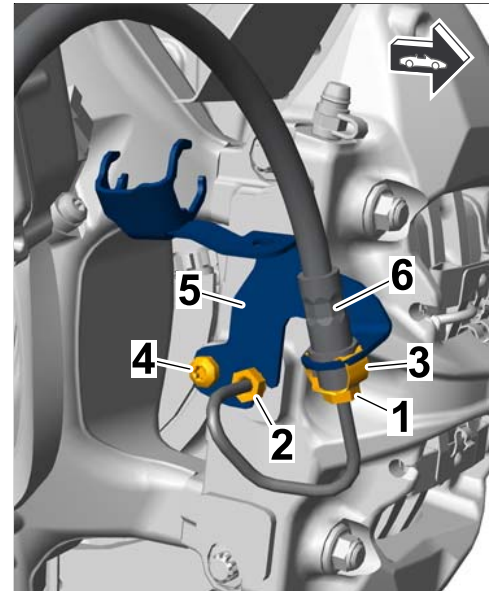
3.2 Loosen and unscrew fastening screws ⇒ *Removing air guide -2-* on the air guide ⇒ *Removing air guide -1-*. Remove air guide from the wheel carrier.

4 Replace left brake line holder ⇒ *Brake line holder on rear axle -5-*.



Removing air guide

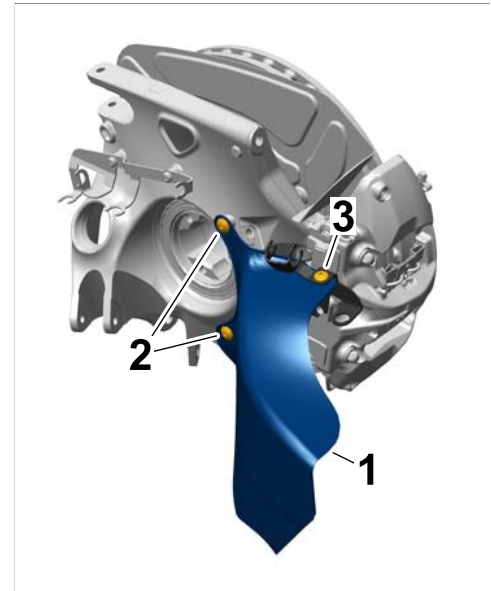
- 4.1 Release and unclip connector for brake pad wear indicator and remove it from the holder.
- 4.2 Loosen union nut ⇒ *Brake line holder on rear axle -1-* on the brake line and unscrew brake line from the brake hose ⇒ *Brake line holder on rear axle -6-*.
Loosen and remove brake hose from the brake line holder ⇒ *Brake line holder on rear axle -5-*.
Close off brake line and brake hose using suitable stoppers.
- 4.3 Loosen threaded joint ⇒ *Brake line holder on rear axle -2-* securing brake line to the brake caliper by a few turns.
- 4.4 Loosen and unscrew fastening screw ⇒ *Brake line holder on rear axle -4-* on the brake line holder.



Brake line holder on rear axle

- Detach brake line holder ⇒ *Brake line holder on rear axle -5-* from the brake caliper and remove it.
- 4.5 Position new brake line holder ⇒ *Brake line holder on rear axle -5-*, Part No. 918.355.503.01, on the brake caliper. Screw in and tighten new fastening screw ⇒ *Brake line holder on rear axle -4-*, Part No. N 107.512.01.
Tightening torque + torque angle 4 Nm (3 ftlb.) +60°
- 4.6 Secure brake hose ⇒ *Brake line holder on rear axle -6-* to the brake line holder. Check installation position of clamping spring ⇒ *Brake line holder on rear axle -3-* on the brake hose.
Position brake line on the brake hose and secure with the union nut ⇒ *Brake line holder on rear axle -1-*.
Tightening torque 16 Nm (12ftlb.)
- 4.7 Tighten threaded joint ⇒ *Brake line holder on rear axle -2-* securing brake line to the brake caliper.
Tightening torque 16 Nm (12ftlb.)

- 5 Install the air guide you removed earlier ⇒ *Installing air guide -1-* on the wheel carrier.
 - 5.1 Position air guide on the wheel carrier. Screw in and tighten fastening screws ⇒ *Installing air guide -2-*.
Tightening torque 8 Nm (6 ftlb.)
 - 5.2 Screw in and tighten fastening screw ⇒ *Installing air guide -3-*.
Tightening torque 4 Nm (3 ftlb.)
- 6 Replace right brake line holder. To do this, complete Steps **3 - 5** on the right-hand side.
- 7 Bleed the brake system and correct the brake fluid level ⇒ *Workshop Manual '470107 Bleeding the brake system'*.
- 8 Install both rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 9 Lower the vehicle and remove it from the lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 9.1 Lower the vehicle onto the **9453 - access ramps** with the lifting platform.
 - 9.2 Remove mounting plates **9002 - Lifting platform holders** and install the covers on the underbody ⇒ *Workshop Manual '518119 Removing and installing jacking points'*.
- 10 Enter the workshop campaign in the Warranty and Maintenance booklet.



Installing air guide

Attachment "B": **Claim Submission** - Workshop Campaign WFO1
 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.

Service Level: **This campaign must be carried out by a Service Level 1 or 2 Porsche Dealer.**

Service Level 0 Porsche Dealers are **not** authorized to carry out this campaign.
 In accordance with the service concept for the 918 Spyder, if the vehicle should require transport from your dealership to a Level 2 Dealer and transportation has not previously been arranged by the 918 Client Relationship Team, you should contact Roadside Assistance at 1 (844) 918-SPYD (7793) to facilitate the transfer.

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 AfterSales 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 Dealer Amount as per invoice *

* Please document copy of invoice in PQIS

Please invoice the costs by specifying **Damage code C902 097 000** and enter the technical reason by specifying **Coding C9020 9735** in PQIS. Also specify **Campaign WF01** under Comment.

Service Level 1 or 2 Porsche Dealers must always submit an invoice for the relevant **campaign scope**.



Information

For warranty invoicing for campaigns carried out together, the **full scope** must always be invoiced **once** for every Porsche Centre involved in carrying out the campaign and for every vehicle and only the **combined scope** may be invoiced if necessary **for other campaigns carried out together**. All required steps are included in the working time for the full scope. Overlapping steps for other campaigns are covered by the combined scope and are therefore not included again in the working time.

Scope 1: **Replacing brake line holder (full scope)**

Working time:		
Replacing brake line holder (full scope)		Labor time: 208 TU
Includes:	Raising and lowering the vehicle	
	Removing and installing both rear wheels	
	Removing and installing air guides at the left and right	
	Bleeding the brake system and correcting the brake fluid level	
Parts required:		
918.355.503.01	Brake line holder, left	1 ea.
918.355.504.01	Brake line holder, right	1 ea.
N 107.512.01	Hexagon round-head bolt	2 ea.

000.043.203.67	Brake fluid, 30-liter container	0.07 ea. (= approx. 2 liters)
000.043.300.35	McLube Sailkote High Performance Dry Lube, 428g spraying can Also commercially available at marine supply stores.	0.05 ea. (= approx. 20 g)

⇒ Damage code WF01 066 000 2

Scope 2: **Replacing brake line holder (combined scope)**

Working time:

Replacing brake line holder (combined scope)

Labor time: **101 TU**

Includes: Removing and installing air guides at the left and right
Bleeding the brake system and correcting the brake fluid
level

Without: Raising and lowering the vehicle
Removing and installing both rear wheels

Parts required:

918.355.503.01	Brake line holder, left	1 ea.
918.355.504.01	Brake line holder, right	1 ea.
N 107.512.01	Hexagon round-head bolt	2 ea.
000.043.203.67	Brake fluid, 30-liter container	0.07 ea. (= approx. 2 liters)

⇒ Damage code WF01 066 000 2

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. If a particular condition is described, do not assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your authorized Porsche Dealer for the latest information about whether a particular technical bulletin applies to your vehicle. Part numbers listed in these bulletins are for reference only. Always check with your authorized Porsche dealer to verify the current and correct part numbers. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© Porsche Cars North America, Inc.

Dealership	Service Manager	Shop Foreman	Service Technician
Distribution			
Routing	Asst. Manager	Warranty Admin.	Service Technician

Dr. Ing. h.c. F. Porsche AG is the owner of numerous trademarks, both registered and unregistered, including without limitation the Porsche Crest®, Porsche®, Boxster®, Carrera®, Cayenne®, Cayman®, Macan®, Panamera®, Speedster®, Spyder®, 918 Spyder®, Tiptronic®, VarioCam®, PCM®, PDK®, 911®, RS®, 4S®, FOUR, UNCOMPROMISED®, and the model numbers and the distinctive shapes of the Porsche automobiles such as, the federally registered 911 and Boxster automobiles. The third party trademarks contained herein are the properties of their respective owners. Porsche Cars North America, Inc. believes the specifications to be correct at the time of printing. Specifications, performance standards, standard equipment, options, and other elements shown are subject to change without notice. Some options may be unavailable when a car is built. Some vehicles may be shown with non-U.S. equipment. The information contained herein is for internal authorized Porsche dealer use only and cannot be copied or distributed. Porsche recommends seat belt usage and observance of traffic laws at all times.

Printed in the USA