

Service 68/14 ENU

4

AE03

AEO3 - Checking Lower Trailing Arms For Rear Axle And Replacing Them If Necessary (Recall Campaign)

Revision:	Revision 1: August 1, 2014 This revision amends AE03 to include information under Claims Submission regarding how to handle the transport/reunite of 918 vehicles to/from the dealership and/or the customer's residence.
	Revision 2: August 19, 2014 Revision 2 contains numerous changes throughout the entire text of AE03. Consequently, Revision 2 supersedes all other versions of AE03 and we ask that you destroy all other copies of this campaign that may be in your records.l
Model Year:	2015
Model Line:	918 Spyder
Concerns:	Lower trailing arms (longitudinal and transverse control arms) for rear axle
Information:	This is to inform you of a Recall Campaign on the above-mentioned vehicles. Internal quality checks have shown that a chassis component from a batch that does not meet the required specifications was installed on the rear axle on some vehicles.
	This can result in a change in the material properties and thus reduced endurance strength.
Action Required:	Check the batch numbers of the lower trailing arms for the rear axle and replace the trailing arms if necessary.
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 recall campaign affects 6 vehicles in North America.

Installation

Position:



Overview of lower trailing arms for rear axle

- 1 Lower longitudinal control arms for rear axle
- 2 Lower transverse control arms for rear axle

Checking batch numbers of lower trailing arms for rear axle

Tools:

- 9002 Lifting platform holders
- 9453 Access ramps
- 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.)
- Suitable inspection mirror
- Shop light

Work See Attachment "A".

Procedure:

Claim	See Attachment "B".
Submission:	

Attachment "A": Work Procedure

- 1 Raise the vehicle on a lifting platform \Rightarrow 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 covers on the underbody and fit mounting plates **9002** Lifting platform holders, \Rightarrow Workshop Manual '518119 Removing and installing jacking points'.
 - 1.3 Jack and raise the vehicle at the mounting plates.



The batch numbers must be checked on both the left and right longitudinal control arms and on the left and right transverse control arms.

The procedure for checking the left-hand side of the vehicle is described below as an example.

2 Remove the cover ⇒ Covers for assembly openings in underbody -1 - of the assembly opening in the underbody at the left and right. To do this, unscrew and remove the fastening screws ⇒ Covers for assembly openings in underbody -2-and remove the cover.



Covers for assembly openings in underbody

- 3 Remove the lower rear side spoiler \Rightarrow Lower rear spoiler (at the sides)-1- at the left and right side.
 - 3.1 Unscrew and remove fastening screw \Rightarrow *Lower rear spoiler (at the sides)*-2-.
 - 3.2 Unscrew and remove fastening screws \Rightarrow Lower rear spoiler (at the sides) -3-.
 - 3.3 Pull the spoiler \Rightarrow Lower rear spoiler (at the sides)-1- to the rear and off the underbody and remove it.



Lower rear spoiler (at the sides)

Information

The batch number is stamped close to the fastening points on the inner joint of each trailing arm. Depending on the installation position of the trailing arms, the batch number can be either at the front or at the rear fastening point of the respective trailing arm.

4 Read off and check the batch numbers of the lower trailing arms (longitudinal and transverse control arms) ⇒ Checking batch number of the trailing arms
 -1, 2- on the rear axle.

To do this, insert an inspection mirror through the openings in the underbody, close to the fastening points \Rightarrow *Checking batch number of the trailing arms* -3- for the longitudinal and transverse control arms and read off the batch number \Rightarrow *Checking batch number of the trailing arms* -4-.

- If the batch number of all four trailing arms is not 863 ⇒ continue with Step 5.
- If the batch number of a trailing arm is 863, the trailing arm in question must be replaced ⇒ Technical Information 'AE0300 Replacing lower trailing arm (longitudinal and transverse control arm) for rear axle'



Checking batch number of the trailing arms

- 5 Install the lower rear side spoiler \Rightarrow Lower rear spoiler (at the sides)-1- at the left and right side.
 - 5.1 Position the spoiler ⇒ Lower rear spoiler (at the sides) -1- in installation position on the underbody and only fit the fastening screws ⇒ Lower rear spoiler (at the sides) -2, 3- initially.
 - 5.2 Tighten fastening screws ⇒ Lower rear spoiler (at the sides)-3-. Tightening torque 5.5 Nm (4 ftlb.)
 - 5.3 Tighten fastening screw ⇒ Lower rear spoiler (at the sides)-2-.
 Tightening torque 10 Nm (7.5 ftlb.)
- 6 Fit the cover ⇒ Covers for assembly openings in underbody -1- for the assembly opening in the underbody at the left and right. To do this, screw in and tighten the fastening screws ⇒ Covers for assembly openings in underbody -2-. Tightening torque 5.5 Nm (4 ftlb.)
- 7 Lower the vehicle and remove it from the lifting platform \Rightarrow Workshop Manual '4X00IN Lifting the vehicle'.
 - 7.1 Lower the vehicle onto the **9453 access** ramps with the lifting platform.
 - 7.2 Remove mounting plates **9002 Lifting platform holders** and install the covers on the underbody \Rightarrow *Workshop Manual '518119 Removing and installing jacking points'*.
- 8 Enter the recall campaign in the Warranty and Maintenance booklet \Rightarrow End of action required.



Lower rear spoiler (at the sides)



Covers for assembly openings in underbody

Replacing lower trailing arms (longitudinal and transverse control arms) for rear axle

Parts Info: NOTE: DO NOT ORDER PARTS. PARTS WILL BE ORDERED FOR YOU DEPENDING ON THE SPECIFIC NEEDS OF THE 918 SPYDER IN QUESTION AND THEN SHIPPED DIRECTLY TO YOUR DEALERSHIP.

Part No.	Designation - Location	Qty.
918.331.043.00	\Rightarrow Lower longitudinal control arm for rear axle at the left/right	1 ea.*
and/or		
918.331.041.00	\Rightarrow Lower transverse control arm for rear axle at the left/right	1 ea.*

* The trailing arms (longitudinal and transverse control arms) for the rear axle are identical on the left and right side. Depending on the number of trailing arms affected, either one or two longitudinal or transverse control arms must be ordered.

The following parts will also be required for each trailing arm to be replaced:

999.084.655.01	\Rightarrow Hexagon nut, M12 x 1.5 – Trailing arm to wheel carrier	1 ea.
999.084.656.01	⇒ Hexagon nut, M10 – Trailing arm to body	2 ea.

The following parts are also required for each vehicle side affected:

999.084.656.01	\Rightarrow Hexagon nut, M10 – Brake calliper to wheel carrier	2 ea.
999.073.572.01	⇒ Lens-head screw, M6 x 8 – Brake disc to wheel hub	2 ea.

Depending on the vehicle equipment, the following parts are also required for each trailing arm to be replaced:

Vehicles without Racetrack package (I-no. 808):

999.311.504.01	\Rightarrow Fit bolt, M12 x 1.5 x 77	1 ea.
	 Trailing arm to wheel carrier 	

or

4

Vehicles with Racetrack package (I-no. 808):

999.311.504.02 \Rightarrow Fit bolt, M12 x 1.5 x 771 ea.- Trailing arm to wheel carrier

Tools:

9003 - Socket wrench for central wheel lock

- 9004 Socket wrench for central wheel lock cover
- 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, 40 200 Nm (30 148 ftlb.), e.g. V.A.G 1332 Torque wrench, 40-200 Nm (30-148 ftlb.)
- Torque wrench, 150 800 Nm (111 592 ftlb.), e.g. V.A.G. 1601 Torque wrench 150-800 Nm (111-592 ftlb.)

Procedure:

1 Remove wheel on the relevant side of the vehicle \Rightarrow *Workshop Manual '440519 Removing and installing wheel'*.

Information

- Do not open the brake hydraulic system (brake line remains connected).
- 2 Loosen rear brake caliper from the wheel carrier and suspend it to the side in the wheel housing using a tie-wrap, for example *⇒ Workshop Manual '474119 Removing and installing rear brake calliper'*.
- 3 Remove rear brake disc \Rightarrow Workshop Manual '465419 Removing and installing rear PCCB brake disc'.



Information

Camber adjustment of the rear wheels involves fitting adjusting shims \Rightarrow *Adjusting shims on rear trailing arm* -2- at the fastening point for the longitudinal control arm \Rightarrow *Adjusting shims on rear trailing arm* -1- and fitting adjusting shims \Rightarrow *Adjusting shims on rear trailing arm* -4- at the fastening point for the transverse control arm \Rightarrow *Adjusting shims on rear trailing arm* -3- on the body.

When removing and installing the relevant trailing arm (longitudinal and transverse control arm), the adjusting shims must be assigned uniquely to the relevant fastening point and must not be interchanged in order to ensure correct camber adjustment.

4 Remove all affected trailing arms (longitudinal and transverse control arms) with the batch number 863 and install new trailing arms ⇒ Workshop Manual '421119 Removing and installing lower trailing arm'.



Adjusting shims on rear trailing arm



Information

The fact that the trailing arms are mounted without play using Unibal joints and have very low manufacturing tolerances means that there is no need to perform suspension alignment after replacing the trailing arms.

The main prerequisite for this is that the original adjusting shims for camber adjustment are installed correctly at the fastening points for the trailing arms, i.e. the correct number of adjusting shims of the correct size must be fitted at the correct position.

- 5 Install rear brake disc \Rightarrow Workshop Manual '465419 Removing and installing rear PCCB brake disc'.
- 6 Install rear brake caliper \Rightarrow Workshop Manual '474119 Removing and installing rear brake calliper'.
- 7 Install the lower rear side spoiler \Rightarrow Lower rear spoiler (at the sides)-1- at the left and right side.
 - 7.1 Position the spoiler ⇒ Lower rear spoiler (at the sides) -1- in installation position on the underbody and only fit the fastening screws ⇒ Lower rear spoiler (at the sides) -2, 3- initially.
 - 7.2 Tighten fastening screws ⇒ Lower rear spoiler (at the sides) -3-.
 Tightening torque 5.5 Nm (4 ftlb.)
 - 7.3 Tighten fastening screw ⇒ Lower rear spoiler (at the sides)-2-.
 Tightening torque 10 Nm (7.5 ftlb.)



Lower rear spoiler (at the sides)

- 8 Fit the cover ⇒ Covers for assembly openings in underbody -1 for the assembly opening in the underbody at the left and right. To do this, screw in and tighten the fastening screws ⇒ Covers for assembly openings in underbody -2 -. Tightening torque 5.5 Nm (4 ftlb.)
- 9 Fit wheel on the relevant side of the vehicle ⇒ Workshop Manual '440519 Removing and installing wheel'.
- 10 Lower the vehicle and remove it from the lifting platform ⇒ Workshop Manual '4X00IN Lifting the vehicle'.
 - 10.1 Lower the vehicle onto the **9453 access** ramps with the lifting platform.
 - 10.2 Remove mounting plates **9002 Lifting platform holders** and install the covers on the underbody ⇒ Workshop Manual '518119 Removing and installing jacking points'.





11 Enter the recall campaign in the Warranty and Maintenance booklet.

Attachment "B"

Information

NOTE: **If** transportation/reunite is required, please contact Tim Reeder at PCNA at 770-290-4644 who will make all appropriate arrangements for transport.

i Info

Information

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

Claim Submission - Recall Campaign AE03

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.

, 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.

Scope 1: Checking batch numbers of lower trailing arms for rear axle – **The trailing arms do not need to be replaced.**

Working tir	ne:	
Checking ba transverse o Includes:	atch numbers of lower trailing arms (longitudinal and control arms) for rear axle at the left and right Raising and lowering the vehicle Removing and installing covers in the underbody Removing and installing lower rear spoiler at the left and right	Labor time: 147 TU

\Rightarrow Damage code AE03 099 000 1

Scope 2: Checking batch numbers and replacing **one** trailing arm.

Working time:					
Checking bate transverse co	s and replacing one trailing arm (longitudinal or	Labor time: 307 TU			
Includes:	Raising ar Removing Removing and right Removing Loosening Removing Removing	nd lowering the vehicle and installing covers in the underbody and installing lower rear side spoiler at the left and installing wheel g and securing rear brake caliper and installing rear brake disc and installing trailing arm			
Parts requir	ed:				
918.331.043	3.00	Lower longitudinal control arm for rear axle at the left/right	1 ea.		
or					
918.331.041	1.00	Lower transverse control arm for rear axle at the left/right	1 ea.		
Additional parts required for vehicles without Racetrack package (I-no. 808):					
999.311.504	4.01	Fit bolt, M12 x 1.5 x 77	1 ea.		
Additional parts required for vehicles with Racetrack package (I-no. 808):					
999.311.504	4.02	Fit bolt, M12 x 1.5 x 77	1 ea.		

Technical Information			Service 68/14 ENU AE03	
	Additional parts red	quired:		
	999.084.655.01	Hexagon nut, M12 x 1.5	1 ea.	
	999.084.656.01	Hexagon nut, M10	4 ea.	
	999.073.572.01	Lens-head screw, M6 x 8	2 ea.	
	\Rightarrow Damage code Al	E03 099 000 2		

Scope 3: Checking batch numbers and replacing **two** trailing arms on **one side of the vehicle**.

Working time:					
Checking batch numbers and replacing two trailing arms (longitudinal or transverse control arms) Includes: Raising and lowering the vehicle Removing and installing covers in the underbody Removing and installing lower rear side spoiler at the left and right Removing and installing wheel Loosening and securing rear brake calliper Removing and installing trailing arm (2x)					
Parts require	ed:				
918.331.043	.00	Lower longitudinal control arm for rear axle at the left/right	1 ea.		
918.331.041	.00	Lower transverse control arm for rear axle at the left/right	1 ea.		
Additional pa	arts requi	red for vehicles without Racetrack package (I-no. 808):			
999.311.504	.01	Fit bolt, M12 x 1.5 x 77	2 ea.		
Additional parts required for vehicles with Racetrack package (I-no. 808):					
999.311.504.02 F		Fit bolt, M12 x 1.5 x 77	2 ea.		
Additional parts required:					
999.084.655.01 Hexagon nut, M12 x 1.5		2 ea.			
999.084.656.01		Hexagon nut, M10	6 ea.		

4 Service AE03 ENU 68/14

Technical Information

999.073.572.01 Lens-head screw, M6 x 8

2 ea.

\Rightarrow Damage code AE03 099 000 2

Scope 4:

Checking batch numbers and replacing **one** trailing arm on **each side of the vehicle**.

Wor	king tim	ie:		
Che tran Inclu	cking bat sverse co udes:	ch number ontrol arms Raising ar Removing and right Removing Loosening Removing Removing	s and replacing two trailing arms (longitudinal or) ad lowering the vehicle and installing covers in the underbody and installing lower rear side spoiler at the left and installing wheel (2x) g and securing rear brake caliper (2x) and installing rear brake disc (2x) and installing trailing arm (2x)	Labor time: 358 TU
Par	ts requir	ed:		
918	.331.043	3.00	Lower longitudinal control arm for rear axle at the left/right	1 ea.
918	.331.04	1.00	Lower transverse control arm for rear axle at the left/right	1 ea.
or				
918	.331.043	3.00	Lower longitudinal control arm for rear axle at the left/right	2 ea.
or				
918	.331.04	1.00	Lower transverse control arm for rear axle at the left/right	2 ea.
Add	litional p	arts requi	ired for vehicles without Racetrack package (I-no. 808):	
999	.311.504	4.01	Fit bolt, M12 x 1.5 x 77	2 ea.
Add	litional p	arts requi	i red for vehicles with Racetrack package (I-no. 808):	
999	.311.504	4.02	Fit bolt, M12 x 1.5 x 77	2 ea.
Add	litional p	arts requi	ired:	

Technical Information		S	Service 🖊	
			08/14 ENU AEO3 4	
	999 084 655 01	Hexagon nut M12 x 1 5	2 ea	
	999.084.656.01	Hexagon nut, M10	8 ea.	
	999.073.572.01	Lens-head screw, M6 x 8	4 ea.	
	\Rightarrow Damage code A	E03 099 000 2		
Scope 5:	Checking batch numbe	ers and replacing three trailing arms.		
	Working time:			
	transverse control arms) Includes: Raising and lowering the vehicle Removing and installing covers in the underbody Removing and installing lower rear side spoiler at the left and right Removing and installing wheel (2x) Loosening and securing rear brake caliper (2x) Removing and installing rear brake disc (2x) Removing and installing trailing arm (2x)			
	Parts required:			
	918.331.043.00	Lower longitudinal control arm for rear axle at left/right	the 2 ea.	
	918.331.041.00	Lower transverse control arm for rear axle at t left/right	he 1 ea.	
	or			
	918.331.043.00	Lower longitudinal control arm for rear axle at left/right	the 1 ea.	
	918.331.041.00	Lower transverse control arm for rear axle at t left/right	he 2 ea.	
	Additional parts red	no. 808):		
	999.311.504.01	Fit bolt, M12 x 1.5 x 77	3 ea.	
	Additional parts red	quired for vehicles with Racetrack package (I-no.	808):	
	999.311.504.02	Fit bolt, M12 x 1.5 x 77	3 ea.	
	I			

Additional parts required:

999.084.655.01	Hexagon nut, M12 x 1.5	3 ea.
999.084.656.01	Hexagon nut, M10	10 ea.
999.073.572.01	Lens-head screw, M6 x 8	4 ea.

\Rightarrow Damage code AE03 099 000 2

Scope 6: Checking batch numbers and replacing **all four** trailing arms.

Working time:							
Checking bat transverse co Includes:	Labor time: 384 TU						
Removing and installing rear brake disc (2x)							
	Removing and installing trailing arm (2x)						
Parts requir	ed:						
918.331.043	3.00	Lower longitudinal control arm for rear axle at the left/right	2 ea.				
918.331.041.00		Lower transverse control arm for rear axle at the left/right	2 ea.				
Additional parts required for vehicles without Racetrack package (I-no. 808):							
999.311.504	4.01	Fit bolt, M12 x 1.5 x 77	4 ea.				
Additional parts required for vehicles with Racetrack package (I-no. 808):							
999.311.504	4.02	Fit bolt, M12 x 1.5 x 77	4 ea.				
Additional p	arts requi	red:					
999.084.65	5.01	Hexagon nut, M12 x 1.5	4 ea.				
999.084.656	5.01	Hexagon nut, M10	12 ea.				
999.073.572	2.01	Lens-head screw, M6 x 8	4 ea.				

\Rightarrow Damage code AE03 099 000 2

References:

- \Rightarrow Workshop Manual '4X00IN Lifting the vehicle'
- \Rightarrow Workshop Manual '449503 Suspension alignment, complete'
- \Rightarrow Workshop Manual '4X00IN Adjustment values for suspension alignment'
- \Rightarrow Workshop Manual '421119 Removing and installing lower trailing arm'
- \Rightarrow Workshop Manual '440519 Removing and installing wheel'
- ⇒ Workshop Manual '465419 Removing and installing rear PCCB brake disc'
- \Rightarrow Workshop Manual '474119 Removing and installing rear brake calliper'
- \Rightarrow Workshop Manual '518119 Removing and installing jacking points'
- ⇒ Workshop Manual '66591901 Removing and installing lower part of rear spoiler (at the sides)'

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 could assist in 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.

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®, PDL®, 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.

2014© Porsche Cars North America, Inc.

AfterSales

Jul 30, 2014 Page 15 of 15