

Service , 70/21 ENU WLN3

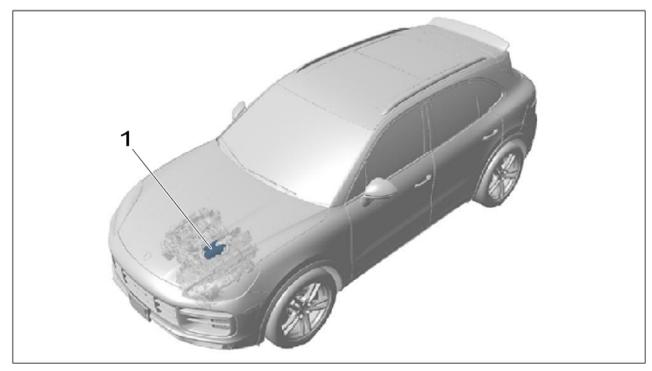
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WLN3 - Replacing Starter (Workshop Campaign)

Revision:	This bulletin replaces bulletin Group 2 70/21 WLN3, dated December 17, 2021.
Model Year:	As of 2018 up to 2019
Vehicle Type:	Cayenne S (9YA)
Market:	USA (CO2) Canada (C36)
Concerns:	Starter
Information:	The affected vehicles may have been installed with a starter on which the threaded joint for the end cover can come loose and this can cause the starter to fail.
	As a result, the vehicle might not start.
Action required:	Replace starter. Information Please note that different parts are required for carrying out the campaign on the affected vehicles. Every vehicle is assigned just one campaign scope. To find out which cappe is assigned to the vehicle, and PCSS Vehicle Information
Affected Vehicles:	\Rightarrow To find out which scope is assigned to the vehicle, see PCSS Vehicle Information. Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Installation

Position:



Installation position of starter

1 – Starter (replace)

Required parts and materials

Parts Info: Vehicles with assigned campaign scope 5

Part No.	Designation - Location	Qty.
V04015001BJ	\Rightarrow Starter	1 ea.
N 10314506	\Rightarrow Hexagon flange bolt, M10 x 50 – Starter	1 ea.
PAF911296	⇒ Bihexagonal head bolt – Starter	1 ea.
N 10742702	\Rightarrow Internal hexagon round/oval-head screw, M8 x 25 – Belt tensioner	2 ea.
PAF00072900	\Rightarrow Hexagon socket head bolt, M8 x 20 – Engine guard or front underbody cover	3 ea.
9A700837900	\Rightarrow Tie-wrap	2 ea.

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	PAB253115	⇒ Seal – Right catalytic converter	1 ea.				
	PAF911308	\Rightarrow Hexagon collar nut, self-locking – Right catalytic converter	3 ea.				
Parts Info:	Vehicles with assigned campaign scope 6						
	Part No.	Designation – Location	Qty.				
	V04015001BJ	\Rightarrow Starter	1 ea.				
	N 10314506	\Rightarrow Hexagon flange bolt, M10 x 50 – Starter	1 ea.				
	PAF911296	\Rightarrow Bihexagonal head bolt - Starter	1 ea.				
	N 10742702	\Rightarrow Internal hexagon round/oval-head screw, M8 – Belt tensioner	s x 25 2 ea.				
	PAF00072900	\Rightarrow Hexagon socket head bolt, M8 x 20 – Engine guard or front underbody cover	3 ea.				
	9A700837900	⇒ Tie-wrap	2 ea.				
	PAB253115	\Rightarrow Seal – Right catalytic converter	1 ea.				
	PAF911308	\Rightarrow Hexagon collar nut, self-locking – Right catalytic converter	3 ea.				
	PAF82595100	⇒ Screw, M6 x 20 – Front underbody cover	2 ea.				
Materials:	Required materials	(usually already available at the Porsche dealer):					
	Part No.	Designation – Location	Qty.				
	D 00940104	 ⇒ Cleaning solution or alternative (commercially available) – Locking element in converter area 	250 ml/ 8.45 fl oz container (approx. 100 m 3.38 fl oz requir per vehicle)*				
	00004330532	 ⇒ Sealing compound – Locking element in converter area 	300 ml/ 10.14 container (appro ml/ 0.17 fl oz re per vehicle)	эх. 5			

*For warranty processing, the cleaning solution can be invoiced either under the part number or under Part No. **WLN30000001** with the "expendable items" designation as an **additional part** in the warranty claim.

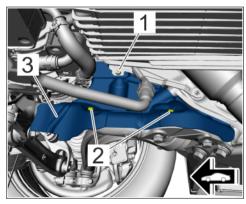
Required tools

Tools:

- T10384 Ratchet wrench, a/f 13
 VAS 6928 Socket set, 39-piece
- 10-222A Support bracket
- VAS 6931 Engine and gearbox jack
- Tension strap

Preparatory work

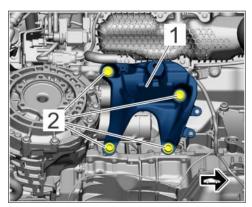
- Work Procedure: 1 Disconnect the battery. \Rightarrow Workshop Manual '2X00IN Work instructions after disconnecting the battery'
 - 2 Remove belt tensioner. ⇒ Workshop Manual '137319 Removing and installing belt tensioner (generator)'
 - 3 Remove generator. \Rightarrow Workshop Manual '272219 Removing and installing generator (V6 Turbo)'
 - 4 Remove heat shield \Rightarrow Heat shield for front-axle carrier -3-.
 - 4.1 Unscrew screws \Rightarrow Heat shield for front-axle carrier -1 and 2- and guide out heat shield \Rightarrow Heat shield for front-axle carrier -3-.
 - 5 Remove right catalytic converter. ⇒ Workshop Manual '267319 Removing and installing catalytic converter (V6 biturbo)'
 - 6 Remove engine mount (supporting mount). ⇒ Workshop Manual '103519 Removing and installing engine mount (supporting mount) (V6 Turbo)'



Heat shield for front-axle carrier

7 Remove right engine mount. ⇒ Workshop Manual '103519 Removing and installing engine mounts (V6 Turbo)'

- 8 Remove right engine support ⇒ *Right engine support* (shown on V8)-1-.
 - 8.1 Unscrew screws ⇒ *Right engine support* (shown on V8)-2-.
 - 8.2 Remove right engine support ⇒ *Right engine* support (shown on V8)-1-.



Right engine support (shown on V8)

Replacing starter (campaign scope 3-6)

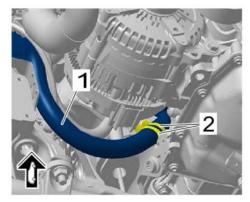
Danger of objects or loads falling down

- Risk of squashing or crushing
- \Rightarrow Secure components to prevent them from falling down.



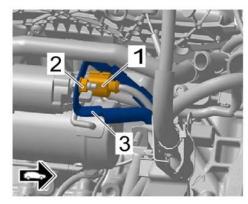
Hot components

- Risk of burns
- \Rightarrow Let hot components cool down.
- \Rightarrow Wear personal protective gear.
- Work Procedure: 1 Loosen wire harness for starter \Rightarrow *Wire harness for* starter -1- from the holder.
 - 1.1 Cut tie-wraps \Rightarrow Wire harness for starter -2-.

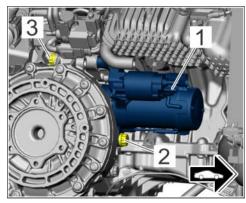


Wire harness for starter

- 2 Disconnect starter from engine wire harness.
 - 2.1 Position the starter in such a way that the electric plug connection \Rightarrow *Electric lines for starter* -1- and nut \Rightarrow *Electric lines for starter* -2- are accessible.
 - 2.2 Secure the starter to prevent it from falling down.
 - 2.3 Release and disconnect electric plug connection \Rightarrow *Electric lines for starter*-1-.
 - 2.4 Screw off nut \Rightarrow *Electric lines for starter* -2- and remove B+ line \Rightarrow *Electric lines for starter*-3- from the starter.
- 3 Remove the starter \Rightarrow Starter screws -1-.
 - 3.1 Unscrew screws \Rightarrow Starter screws -2- and \Rightarrow Starter screws -3-.
 - 3.2 Remove and replace the starter \Rightarrow Starter screws-1-.

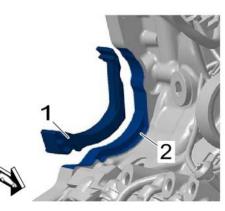


Electric lines for starter



Starter screws

- 4 Remove locking element in converter area \Rightarrow Locking element in converter area -1-.
 - 4.1 Clean locking element in converter area ⇒ Locking element in converter area -1- and the surface of the crankcase ⇒ Locking element in converter area -2- carefully with cleaner (Part No. D00940104).
 - 4.2 Coat the surface of the crankcase ⇒ Locking element in converter area -2- and the opposite piece of the locking element in the converter area ⇒ Locking element in converter area -1- with some sealing compound (Part No. 00004330532).



Locking element in converter area

4.3 Position the locking element in the converter area \Rightarrow Locking element in converter area -1and let the sealing compound dry off.

- 5 Install **new** starter \Rightarrow Starter screws -1-.
 - 5.1 Install and tighten screws \Rightarrow Starter screws -2 and 3-.

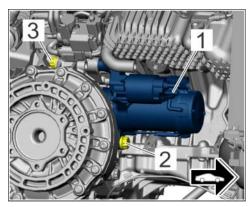
Screw ⇒ Starter screws -2-: Tightening torque 65 Nm (48ftlb.)

Screw \Rightarrow Starter screws -3-: Initial tightening 30 Nm (22 ftlb.) Final tightening +105°

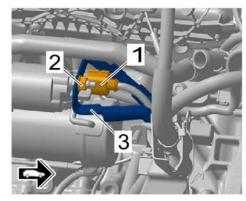
- 6 Connect starter to engine wire harness.
 - 6.1 Connect and lock electric plug connection \Rightarrow *Electric lines for starter*-1-.
 - 6.2 Install B+ line \Rightarrow *Electric lines for starter*-**3**on the starter and tighten the nut \Rightarrow *Electric lines for starter*-**2**-.

Tightening torque 20 Nm (15 ftlb.)

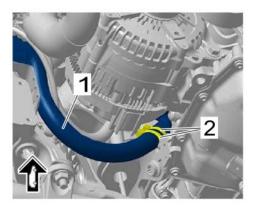
- 7 Secure wire harness for starter \Rightarrow Wire harness for starter -1- to the holder.
 - 7.1 Position wire harness for starter \Rightarrow Wire harness for starter -1- and secure with **new** tie-wraps \Rightarrow Wire harness for starter -2-.



Starter screws



Electric lines for starter



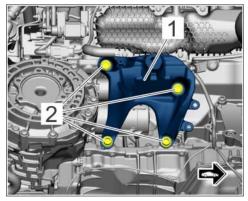
Wire harness for starter

Concluding work

- Work Procedure: 1 Install right engine support \Rightarrow Right engine support -1-.
 - 1.1 Tighten screws \Rightarrow *Right engine support* -2-.

Tightening torque 55 Nm (41 ftlb.)

- 2 Install right engine mount. ⇒ Workshop Manual '103519 Removing and installing engine mounts (V6 Turbo)'
- 3 Install engine mount (supporting mount). ⇒ Workshop Manual '103519 Removing and installing engine mount (supporting mount) (V6 Turbo)'



Technical Information

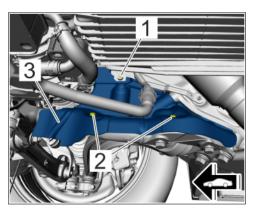
Right engine support

- 4 Install right catalytic converter. ⇒ Workshop Manual '267319 Removing and installing catalytic converter (V6 biturbo)'
- 5 Install heat shield \Rightarrow Heat shield for front-axle carrier -2-.
 - 5.1 Insert heat shield \Rightarrow Heat shield for front-axle carrier -3- and install and tighten screws \Rightarrow Heat shield for front-axle carrier -1 and 2-.

Screw ⇒ Heat shield for front-axle carrier -1-: Tightening torque 9 Nm (6.5 ftlb.)

Screw \Rightarrow Heat shield for front-axle carrier -2-: Tightening torque 9 Nm (6.5 ftlb.)

6 Install generator. ⇒ Workshop Manual '272219 Removing and installing generator (V6 Turbo)'



Heat shield for front-axle carrier

- 7 Install belt tensioner. \Rightarrow Workshop Manual '137319 Removing and installing belt tensioner (generator)'
- 8 Connect the battery. ⇒ Workshop Manual '2X00IN Work instructions after disconnecting the battery'

- End of action required -

Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Scope 1–4: Not relevant for this vehicle type.

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Scope 5: Replacing starter

• Relevant for Cayenne S (9YA) with protective plate for engine (1SF)

Working time:				
Replacing st. Includes:	Remo Remo Remo Remo Remo			
Parts requi	red:			
V04015001	BJ	Starter	1 ea.	
N 10314506	5	Hexagon flange bolt, M10 x 50	1 ea.	
PAF911296		Bihexagonal head bolt	1 ea.	
N 10742702	2	Internal hexagon round/oval-head screw, M8 x 25	2 ea.	
PAF000729	00	Hexagon socket head bolt, M8 x 20	3 ea.	
9A7008379	00	Tie-wrap	2 ea.	
PAB253115		Seal	1 ea.	
PAF911308		Hexagon collar nut, self-locking	3 ea.	
Required m	ateria	Is (usually already availableat the Porsche dealer):		
D 00940104	4	Cleaning solution	0.4 ea.	
or				
WLN300000	001*	Expendable items	0.4 ea.	
000043305	32	Sealing compound	0.04 ea.	
* For warranty processing, enter the Part No. WLN30000001 with the "expendable items" designation as an additional part costing \$6.25 in the warranty claim.				
⇒ Damage	Code	WLN3 66 000 2		

Scope 6: **Replacing starter**

Relevant for Cayenne S (9YA) without protective plate for engine (1SA).

Working time:				
Replacing st Includes:	Replacing starter Labor time: 377			
Parts requi	red:			
V04015001	BJ	Starter	1 ea.	
N 1031450	6	Hexagon flange bolt, M10 x 50	1 ea.	
PAF911296		Bihexagonal head bolt	1 ea.	
N 10742702	2	Internal hexagon round/oval-head screw, M8 x 25	2 ea.	
PAF000729	00	Hexagon socket head bolt, M8 x 20	3 ea.	
9A7008379	00	Tie-wrap	2 ea.	
PAB253115		Seal	1 ea.	
PAF911308		Hexagon collar nut, self-locking	3 ea.	
PAF825951	00	Screw, M6 x 20	2 ea.	
Required m	nateria	Is (usually already available at the Porsche dealer):		
D 00940104	4	Cleaning solution	0.4 ea.	
or				
WLN30000	001*	Expendable items	0.4 ea.	
000043305	532	Sealing compound	0.04 ea.	
* For warranty processing, enter the Part No. WLN30000001 with the "expendable items" designation as an additional part costing \$6.25 in the warranty claim.				
⇒ Damage	Code	WLN3 66 000 2		

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