

Technical Service Bulletin

Topic	27 Valeo 48V starter generator (BSG) DTC P0A1A00 P19F800 P0A1E00 U014600 U300100 P10F300 P056200 P056100 P065200 P069800
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2076994/5
Level	EH
Status	Released for publishing
Release date	Oct 24, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
00CC - Starter generator	P2DC500: Starter/Generator Phase Z Current Sensor Circuit		static
00CC - Starter generator	P0E0400: Generator Phase V Current Sensor Circuit		static
00CC - Starter generator	P0E0600: Generator Phase V Current Sensor Circuit Low		Intermittent
00CC - Starter generator	P19F800: 48-volt vehicle electrical system not available		static
00CC - Starter generator	P0E0000: Generator Phase U Current Sensor Circuit		Intermittent
00CC - Starter generator	P0A1A00: Generator Control Module		Intermittent
00CC - Starter generator	U014600: Lost Communication With Serial Data Gateway Module "A"		Intermittent
00CC - Starter generator	U300100: Control Module Improper Shutdown Performance		Intermittent
00CC - Starter generator	P056100: System Voltage Unstable		Intermittent
00CC - Starter generator	P2DC300: Starter/Generator Phase Y Current Sensor Circuit		static
00CC - Starter generator	P0E0200: Generator Phase U Current Sensor Circuit Low		static
00CC - Starter generator	P069800: Sensor Reference Voltage "C" Circuit Low		Intermittent
00CC - Starter generator	P19F800: 48-volt vehicle electrical system not available		Intermittent
00CC - Starter generator	P10F300: Starter generator Release status implausible		Intermittent
00CC - Starter generator	P056200: System Voltage Low Voltage		Intermittent

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
00CC - Starter generator	P2DC100: Starter/Generator Phase X Current Sensor Circuit		Intermittent
00CC - Starter generator	P0E0400: Generator Phase V Current Sensor Circuit		Intermittent
00CC - Starter generator	P0A1E00: Starter/Generator Control Module		Intermittent
0001 - Engine electronics	U046900: Invalid Data Received From Starter / Generator Control Module		static
00CC - Starter generator	P2DC500: Starter/Generator Phase Z Current Sensor Circuit		Intermittent
00CC - Starter generator	P0E0800: Generator Phase W Current Sensor Circuit		static
00CC - Starter generator	P065200: Sensor Reference Voltage "B" Circuit Low		Intermittent
00CC - Starter generator	P0E0000: Generator Phase U Current Sensor Circuit		static
00CC - Starter generator	P0E0200: Generator Phase U Current Sensor Circuit Low		Intermittent
00CC - Starter generator	P2DC300: Starter/Generator Phase Y Current Sensor Circuit		Intermittent
00CC - Starter generator	P0A1E00: Starter/Generator Control Module		static
00CC - Starter generator	P0E0800: Generator Phase W Current Sensor Circuit		Intermittent
00CC - Starter generator	P0E0600: Generator Phase V Current Sensor Circuit Low		static
00CC - Starter generator	P2DC100: Starter/Generator Phase X Current Sensor Circuit		static

New customer code

Object of complaint	Complaint type	Position
vehicle service -> inspection, maintenance	control modules, services	
information, navigation, communication, entertainment -> malfunction display symbols -> vehicle electrical system malfunction indicator	functionality -> activates	
power, vehicle electrical system, data transfer -> power supply	electrical	
power, vehicle electrical system, data transfer -> power supply	functionality	
vehicle service -> inspection, maintenance -> field activity	control modules, services -> error message	
vehicle service -> inspection, maintenance	service: process	

New workshop code

Object of complaint	Complaint type	Position
power, vehicle electrical system, data transfer -> power supply -> starter generator -> starter generator control module	control modules, services -> with fault stored in the DTC memory	
power, vehicle electrical system, data transfer -> power supply -> starter generator	functionality -> no function	

Vehicle data

Q7 and Q8

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
*	2019	A		DLZ*	*	*
*	2019	A		CZS*	*	*
*	2019	A		DCB*	*	*
*	2020	A		CZS*	*	*
*	2020	A		DCB*	*	*
*	2020	A		DLZ*	*	*
*	2021	A		DLZ*	*	*
*	2021	A		CZS*	*	*
*	2021	A		DCB*	*	*
*	2022	A		CZS*	*	*
*	2022	A		DCB*	*	*
*	2022	A		DLZ*	*	*
*	2023	A		DLZ*	*	*
*	2023	A		CZS*	*	*
*	2023	A		DCB*	*	*
*	2024	A		DCB*	*	*
*	2024	A		CZS*	*	*
*	2024	A		DLZ*	*	*
*	2025	A		DLZ*	*	*
*	2025	A		DCB*	*	*
*	2025	A		CZS*	*	*
*	2026	A		DCB*	*	*
*	2026	A		CZS*	*	*
*	2026	A		DLZ*	*	*

PR numbers

PR numbers
?:with 8GK

Control units

Diagnostic address	Software part number	Software version	Hardware part number	Hardware version
00CC - Starter generator	*4M0*.903.028*	0608	*4M0*.903.028*	*
00CC - Starter generator	*4M0*.903.028*	0606	*4M0*.903.028*	*

Documents

Document name
master.xml

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised header (Added MY26 and software versions) Revised <i>Condition</i> (added customer concerns and workshop findings) Revised <i>Service</i> (Updated verbiage and ETA for further software arrival) Revised <i>Warranty</i> (Updated warranty table)
4	07/31/2025	Revised <i>Service</i> (Updated fault table)
3	05/07/2025	Revised header (Added fault codes / Customer Codes / and workshop codes) Revised <i>Condition</i> (Added customer concerns) Revised <i>Service</i> (Added fault table) Revised <i>Warranty</i> (Added replacement part note)

Customer states:

- The engine warning lamp (MIL) is on (Figure 1).



Figure 1. MIL is illuminated.

Workshop findings:

The following DTCs are stored paired in their respective modules during a workshop visit (service/inspection) or while the customer used the car:

Engine Electronics, J623 (address word 0001):

- U046900:** Alternator control module, implausible signal
- Other DTCs** – See below

Starter Generator, C29 (address word 00CC):

- **Other DTCs** - See below

Technical Background

The software for the Starter Generator, C29 (address word 00CC) needs to be updated.

Production Solution

New software implemented in production week 07/2025.

Service

This TSB closes PSS 2076029: 27 PSS Valeo 48V Starter Generator (BSG) DTCs P0A1A00 + P19F800.

Please check to see which of the two cases apply to the vehicle:

Case 1) Starter Generator, C29 (address word 00CC) contains **NO** P0E0*00 / P2DC* DTC's

Check whether any of the listed DTCs are logged in the Starter Generator, C29 (address word 00CC) in your specific case. If they are this TSB applies. The software for the Starter Generator, C29 (address word 00CC) must be updated (software part number 4M0.903.028). There is no reason to replace parts as this could lead to repeat concerns.

DTC	Symptom	Measure
U014600	38877	Software Solution 0608 – SVM Code CCA005
U300100	41556	Software Solution 0608 – SVM Code CCA005
P10F300	41572	Software Solution 0608 – SVM Code CCA005
P056100	41825	Software Solution 0608 – SVM Code CCA005
P19F800	38806	Software Solution 0608 – SVM Code CCA005

DTC	Symptom	Measure
P0A1E00	38862	Postpone repair, software solution for 48V BSG with software version 0610 is planned for week 10/2026
P0A1A00	45888	Postpone repair, software solution for 48V BSG with software version 0610 is planned for week 10/2026
P069800	414833, 41832	Postpone repair, software solution for 48V BSG with software version 0610 is planned for week 10/2026
P056200	All	Postpone repair, software solution for 48V BSG with software version 0610 is planned for week 10/2026
P065200	41831, 41826	Postpone repair, software solution for 48V BSG with software version 0610 is planned for week 10/2026

If necessary, from the DTC's above:

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the Starter Generator, C29 (address word 00CC) using the SVM action code as listed in the table below, if necessary:

Old Software Part Number	Hardware Part Number	Old Software Version	New Software Version (or higher)	SVM Code Input
4M0.903.028	4M0.903.028	0606	0608	CCA005



The software for the starter-alternator control unit must be updated on this vehicle. Please observe the information and instructions under “Additional Information” regarding this.

Case 2) Starter Generator, C29 (address word 00CC) contains P19F800 AND P0E0*00 DTC's

There is a hardware issue and the Starter Generator, C29 (address word 00CC) may be replaced.

Warranty

Unjustified work/replacement parts will be charged back. Invoicing under warranty is not permitted.

Claim Type:	If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2726		
Damage Code:	Case 1: 0039 Case 2: 0040		
Labor Operations:	Software Update - Only if 48V starter/generator is NOT replaced	0151 0010	See SRT with associated operations
	Software Update - Only if 48V starter/generator is NOT replaced	0151 0060	Time stated on the diagnostic protocol
	Remove and install 48V starter/generator – Only if 48V starter/generator IS replaced	2726 1944	See SRT with associated operations
Claim Comment:	As per TSB 2076994/5		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Additional Information

The software must be updated on a control unit in this vehicle, or the software must be updated on several control units in this vehicle to ensure they function correctly in conjunction with the other control units in the vehicle. Please inform the customer about the software update in question and ask whether they or other third parties have modified the software (e.g. tuning or retrofitting involving modifications to the vehicle's software). Please refer the customer to the *Warranty and Maintenance* booklet to learn more about how chip tuning can impact warranty coverage. Please inform the customer that this software update may neutralize previous modifications to the vehicle's software performed either by the customer or other third parties.

If the customer declines the software update, please inform them that this could lead to issues or restrictions with the use of the vehicle or individual components.

Make a note to this effect on the order before it is signed by the customer. Include this information in the customer file.

All part and service references provided in this TSB (**2076994**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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