



Technical Service Bulletin

27 48V MHEV Electrical System Fault with DTC U046900 / 34763

27 24 68 2073284/1 March 9, 2024.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8, Q7, and Q8	2019 - 2025	All	Belt driven starter alternator
A6 allroad, S6, S7, S8, SQ7, SQ8, and RS Q8	2020 - 2025		
A8 e quattro	2020 - 2021		
RS 6 Avant	2021 - 2025		
A7 e quattro	2021 - 2022		

Condition

Customer states:

- Electrical system fault appears in the instrument cluster. If the customer keeps driving there is a risk the vehicle could lose power when the battery becomes excessively discharged.

Workshop findings:

One or more of the following DTC(s) may be stored relating to the Engine Electronics, -J623- (address word 0001) and Brake Electronics, -J104- (address word 0003):

Engine Electronics, 0001:

- U046900:** Lost Communication with Starter/Generator Control Module – **Symptom: 34763**
- U002900:** Sensor/Hybrid CAN No Communication
- U002800:** Sensor/Hybrid CAN Faulty

Brake Electronics, 0003:

- C054A00:** Brake Servo Pressure Sensor
- C11EC04:** Brake Servo Pressure Sensor

Technical Background

Replacing the 48V Starter/Generator will not fix this problem. The DTC “U046900: Lost Communication with Starter/Generator Control Module – symptom: 34763” is only stored due to some other electrical system problem on the vehicle CAN bus, but the Starter/Generator is not the cause for the concern. This is often documented in the expanded ambient conditions of the event memory using the value “Starter generator, actual mode 48V = 8”.



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DTC memory entry

Number: U046900: Invalid Data Received From Starter / Generator Control Module

Error type 2: passive/sporadic

Symptom: 34763

Status: 00100000

Standard ambient conditions:

Starter generator, number of restarts	26060.0	
Starter generator, number of first starts	760.0	
Starter generator, number of comfort stops	31480.0	
Starter generator, engine control module condition state machine	Gen	
Param_TestProgrXExChpdEiuFhobBysCicaNfr6SpUBYTE4		
Starter generator, actual mode 48V	8	
Starter generator, thermal load	86	%

Figure 1: Starter generator, actual mode 8.

Production Solution

Not applicable.

Service

Replacing the 48V Starter/Generator will not fix the problem. The sensor faults in the Engine electronics and Brake Electronics must be processed to find the root cause.

A potential fault on these sensors can influence the vehicle data bus system. As a result, the Engine Electronics commands the 48V Starter/Generator to freewheel and the electrical system faults may then occur as the battery will not be charged.

Warranty

This TSB is informational only and not applicable to any Audi Warranty.

Additional Information

All part and service references provided in this TSB (**2073284**) 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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