



Technical Service Bulletin

27 48V Vehicle electrical system warning, DTC P0CA700 and/or U046900 stored in the starter/generator control module/ECM

27 20 35 2058831/1 March 10, 2020.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, S6, A7, S7, A8, and S8	2018 - 2020	All	48V MHEV

Condition

Customer states:

- Intermittently a warning for the 48V vehicle electrical system is displayed in the instrument cluster.

Workshop findings:

The following DTC may be stored in the battery management 2 (Battery 48V) control module, J1120 (address word 0021):

- **DTC P0CA700** (hybrid battery discharge current too high static or sporadic).

And/or

The following DTC may be stored in the engine control module (ECM), J623 (address word 0001):

- **DTC U046900** (invalid data received from starter/generator control module).

Technical Background

The software needs to be updated in the starter/generator control module, C29 (address word 00CC).

Production Solution

New software version in the starter/generator control module, C29 (address word 00CC).

Service

SVM Update Instructions

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



Technical Service Bulletin

Model	Old Hardware Part Number	Old Software Part Number	Old Software Version	New Software Version (or higher)	SVM Code Input
A6, A7, Q7, and Q8	4N0903028 (H, J, M, and N)	4N0903028 (F, G, H, J, M, and N)	523	527	CCA001

Warranty

Claim Type:	<ul style="list-style-type: none">• 110 up to 48 Months/50,000 Miles.• G10 for CPO Covered Vehicles – Verify Owner.• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2726		
Damage Code:	0040		
Labor Operations:	Software Update (Includes checking for DTCs)	0151 0000	Time stated on the diagnostic protocol (Max 100 TU)
Diagnostic Time:	GFF	No allowance	0 TU
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU
Claim Comment:	As per TSB #2058831/1		

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 following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2011732, *00 Software Version Management (SVM), operating instructions*.



Technical Service Bulletin

All part and service references provided in this TSB (2058831) 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.

©2020 Audi of America, Inc. All rights reserved. The information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.