



Technical Service Bulletin

20 MIL on, DTC P046100 is stored in the ECM

20 21 35 2043357/12 July 7, 2021. Supersedes Technical Service Bulletin Group 20 number 19-18 dated June 6, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3, S3	2015 - 2016	All	Not Applicable
A4, A5, A5 Cabriolet, and Q5	2013 - 2016	All	2.0 TFSI
Q5	2013 - 2016	All	Hybrid
A8	2015 - 2017	All	3.0 TFSI
A6, A7, Q5, SQ5, S4, S5, and S5 Cabriolet	2014 - 2015	All	3.0 TFSI
RS 7	2014 - 2016	All	4.0 TFSI
S6, S7	2013 - 2016	All	4.0 TFSI
RS 5, RS 5 Cabriolet	2013 - 2015	All	4.2 TFSI
A8, S8	2013 - 2017	All	4.0 TFSI

Condition

REVISION HISTORY		
Revision	Date	Purpose
12	-	Revised <i>Service</i> (Added Note and condensed table)
11	06/06/2019	Revised <i>Condition</i> (Removed Note) Revised <i>Service</i> (Updated SVM table)
10	01/29/2019	Revised header (Added model) Revised <i>Service</i> (Updated table)

Customer states:

- MIL on.

Workshop findings:

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



Technical Service Bulletin

- **DTC P046100** (Fuel level sensor, circuit range/performance).

Technical Background

DTC P046100 can be caused by miscalculations within the ECM software when the vehicle is being filled with gasoline while the ignition is on.

Production Solution

New ECM software implemented to correct the condition.

Service



Note:

Check the vehicle ECM software part number/version prior to the SVM update. If software has already been updated, replace the respective fuel sensor only.

SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the ECM, J623 (address word 0001) using the SVM action code as listed in the table below.
3. After SVM update, cycle the ignition.
4. Start the engine. If the engine runs rough and then surges, cycle the ignition once again.
5. Reset TPMS if necessary.



Note:

In case the latest software has already been flashed, or for software part numbers that are not listed here, then replace the respective fuel sender.

Model	Engine	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version	SVM Code Input
A3	2.0 TFSI	5G0906259A	<0006	5G0906259A	0006	01A203
A3	1.8 TFSI	8V0906264A	0001	8V0906264D	0004	



Technical Service Bulletin

		8V0906264D	< 0004	8V0906264D		
S3	2.0 TFSI	8V0906259B 8V0906259E	Any	8V0906259H	0002	
A4	2.0 TFSI	8K5907115N 8K5907115J	<0004	8K5907115N	0004	
		8K5907115P	<0003	8K5907115P	0003	
		8K5907115M	<0005	8K5907115M	0005	
		8K5907115Q	<0003	8K5907115Q	0003	
Q5	2.0 TFSI	8R1907115N	0001	8R1907115N	0002	
		8R1907115P	0001	8R1907115P	0002	
		8R1907115F	<0005	8R1907115L	0005	
Q5	2.0 TFSI H	8R1907115M	<0003	8R1907115M	0003	
S4, S5, and S5 Cabriolet	3.0 TFSI	8K5907551G	0001 0002 0003 0004 0005	8K5907551G	0006	
RS 5, RS 5 Cabriolet	4.2 TFSI	8T2907560F	0002, 0003, or 0004	8T2907560F	0005	01A150
Q5, SQ5	3.0 TFSI	8R0907551F 8R0907551G	0001 0002 0003 0004 0005	8R0907551F 8R0907551G	0006	01A203
A8	3.0 TFSI	4H2907551A	0001 0003 0004	4H2907551A	0008	
A6, A7	3.0 TFSI	4G0907551J	0001 0002	4G0907551J	0004	02A210



Technical Service Bulletin

			0003			
S6, S7	4.0 TFSI CEUC	4G0906014B 4G0906014E	0008 0005	4G0906014B 4G0906014E	0009 0006	01A203
S6, S7	4.0 TFSI CTGE	4G0906014D	0001	4G0906014D	0002	
RS 7	4.0 TFSI CWUB	4G0906560D 4G0906560G	0001	4G0906560G	0002	
A8	4.0 TFSI CTGA	4H0906014J	0005	4H0906014J	0006	
A8 S	4.0 TFSI CTGF	4H0906014N	0001	4H0906014N	0002	
S8	4.0 TFSI CGTA	4H0907557B	0004	4H0907557E	0004	
S8	4.0 TFSI CTFA	4H0907557E 4H0907557D 4H0907557F	<0004 <0006 <0003	4H0907557E 4H0907557D 4H0907557F	0004 0006 0003	
S8 +	4.0 TFSI DDTA	4H0907557H	0001	4H0907557H	0002	

Warranty

Claim Type:	• 110 up to 48 Months/50,000 Miles. • 1E1 up to 8 Years/80,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2470		
Damage Code:	0039		
Labor Operations:	Check software level in ECM (with no update needed)	2470 0199	Max 10 TU



Technical Service Bulletin

Diagnostic Time:	GFF – Perform update through GFF and clear faults	0150 0000	Time stated on the diagnostic protocol (Max 50 TU)
	Road test before service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2043357/12		

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*.

All part and service references provided in this TSB (2043357) 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.

©2021 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.