



# Technical Service Bulletin

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## 20 MIL on (DTC P046100 - Fuel level sensor, circuit range/performance)

20 16 83 2043357/3 December 13, 2016. Supersedes Technical Service Bulletin Group 20 number 16-70 dated May 26, 2016 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, A5, A5 cabriolet, Q5	2013 - 2016	All	2.0 TFSI
Q5	2013 - 2016	All	Hybrid
A8	2015	All	3.0 TFSI
A6, A7	2014 - 2015	All	3.0 TFSI
Q5, SQ5	2014 - 2015	All	3.0 TFSI
S4, S5, S5 cabriolet	2014 - 2015	All	3.0 TFSI
S8	2013 - 2016	All	4.0 TFSI
RS 7	2014 - 2016	All	4.0 TFSI
S6, S7	2013 - 2016	All	4.0 TFSI
RS 5, RS 5 cabriolet	2013	All	4.2 TFSI
A8	2013 - 2016	All	4.0 TFSI



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## Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised header data (Added models) Revised <i>Service</i> (Added models to SVM table) Revised <i>Warranty</i> (Updated table and claim type)
2	05/26/2016	Revised header data (Added models) Revised <i>Service</i> (Added models to SVM table)
1	04/22/2016	Initial publication

- MIL on.
- **DTC P046100** (Fuel level sensor, circuit range/performance) is stored in the engine control module (ECM J623) (address word 0001).

## 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

**IMPORTANT: Check the vehicle ECM software part number/version prior to the SVM update.**

### SVM Update Instructions

1. Follow all instructions in TSB 2011732, *00 Software Version Management (SVM), operating instructions*.
2. Update the ECM (J623) using the SVM action code as listed in the table below.



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3. After SVM update, cycle the ignition.
4. Start the engine. If engine runs rough and then surges, cycle the ignition once again.
5. Reset TPMS.

Model	Engine	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version	SVM Code Input
A4,A5,A5 cabriolet	2.0 TFSI	8K5907115N	0001 / 0002 / 0003	8K5907115N	0004	01A203
A4,A5,A5 cabriolet	2.0 TFSI	8K5907115J	0001 / 0002	8K5907115N	0004	
A4,A5,A5 cabriolet	2.0 TFSI	8K5907115P	0001	8K5907115P	0002	
A4,A5,A5 cabriolet	2.0 TFSI	8K5907115M	0001 / 0002 / 0003	8K5907115M	0004	
A4,A5,A5 cabriolet	2.0 TFSI	8K5907115Q	0001	8K5907115Q	0002	
Q5	2.0 TFSI	8R1907115N	0001	8R1907115N	0002	
Q5	2.0 TFSI	8R1907115P	0001	8R1907115P	0002	
Q5	2.0 TFSI H	8R1907115L	0001 / 0002 / 0003	8R1907115L	0004	
Q5	2.0 TFSI H	8R1907115M	0001 / 0002	8R1907115M	0003	
Q5	2.0 TFSI	8R1907115F	0001	8R1907115L	0004	
S4,S5,S5 cabriolet	3.0 TFSI	8K5907551G	0001 / 0002 / 0003 / 0004 / 0005	8K5907551G	0006	
S5,RS5,RS5 cabriolet	4.2 TFSI	8T2907560F	0002 / 0003 / 0004	8T2907560F	0005	



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Q5	3.0 TFSI	8R0907551F	0001 / 0002 / 0003 / 0004 / 0005	8R0907551F	0006
SQ5	3.0 TFSI	8R0907551G	0001 / 0002 / 0003 / 0004 / 0005	8R0907551G	0006
A8	3.0 TFSI	4H2907551A	0001 / 0003 / 0004	4H2907551A	0005
S6,S7	4.0 TFSI CEUC	4G0906014	0011	4G0906014	0012
S6,S7	4.0 TFSI CEUC	4G0906014A	0007	4G0906014A	0008
S6,S7	4.0 TFSI CEUC	4G0906014B	0008	4G0906014B	0009
S6,S7	4.0 TFSI CEUC	4G0906014E	0008	4G0906014E	0006
S6,S7	4.0 TFSI CTGE	4G0906014C	0005	4G0906014C	0006
S6,S7	4.0 TFSI CTGE	4G0906014D	0001	4G0906014D	0002
RS7	4.0 TFSI CRDB	4G0906560A	0005	4G0906560A	0006
RS7	4.0 TFSI CRDB	4G0906560	0011	4G0906560	0012
RS7	4.0 TFSI CRDB	4G0906560B	0007	4G0906560B	0008
RS7	4.0 TFSI CWUB	4G0906560D	0001	4G0906560G	0002
RS7	4.0 TFSI CWUB	4G0906560F	0002	4G0906560F	0003



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RS7+	4.0 TFSI CWUC	4G0906560G	0001	4G0906560G	0002
A8	4.0 TFSI CEUA	4H0906014	0007	4H0906014	0008
A8	4.0 TFSI CEUA	4H0906014A	0005	4H0906014A	0006
A8	4.0 TFSI CEUA	4H0906014B	0004	4H0906014B	0005
A8	4.0 TFSI CEUA	4H0906014C	0004	4H0906014C	0005
A8	4.0 TFSI CEUA	4H0906014D	0004	4H0906014D	0005
A8	4.0 TFSI CEUA	4H0906014H	0005	4H0906014H	0006
A8	4.0 TFSI CEUA	4H0906014L	0004	4H0906014L	0005
A8	4.0 TFSI CTGA	4H0906014G	0007	4H0906014G	0008
A8	4.0 TFSI CTGA	4H0906014J	0005	4H0906014J	0006
A8	4.0 TFSI CTGA	4H0906014K	0004	4H0906014K	0005
A8 S	4.0 TFSI CTGF	4H0906014N	0001	4H0906014N	0002
S8	4.0 TFSI CGTA	4H0907557	0009	4H0907557	0010
S8	4.0 TFSI CGTA	4H0907557A	0005	4H0907557A	0006



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S8	4.0 TFSI CGTA	4H0907557B	0004	4H0907557E	0004	
S8	4.0 TFSI CTFA	4H0907557E	0003	4H0907557E	0004	
S8	4.0 TFSI CTFA	4H0907557C	0005	4H0907557C	0006	
S8	4.0 TFSI CTFA	4H0907557D	0005	4H0907557D	0006	
S8	4.0 TFSI CTFA	4H0907557F	0002	4H0907557F	0003	
S8 +	4.0 TFSI DDTA	4H0907557G	0003	4H0907557G	0004	
S8 +	4.0 TFSI DDTA	4H0907557H	0001	4H0907557H	0002	
A6,A7	3.0 TFSI	4G0907551J	0001 / 0002 / 0003	4G0907551J	0004	02A210

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• 1E1 up to 8 Years/80,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	2470		
<b>Damage Code:</b>	0039		
<b>Diagnostic Time:</b>	Check software level in ECM (with no update needed)	2470 0199	Max. 10 TU



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	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on diagnostic protocol (Max 50 TU)
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
<b>Claim Comment:</b>	As per TSB #2043357/3		

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 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 Dept. and service manuals for the latest information.

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