



# 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)<br>Revised <i>Service</i> (Updated SVM table) |
| 10               | 01/29/2019 | Revised header (Added model)<br>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):



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- **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                 |                |



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|                                |            |                          |                        |                          |      |        |
|--------------------------------|------------|--------------------------|------------------------|--------------------------|------|--------|
|                                |            | 8V0906264D               | < 0004                 | 8V0906264D               |      |        |
| S3                             | 2.0 TFSI   | 8V0906259B<br>8V0906259E | Any                    | 8V0906259H               | 0002 |        |
| A4                             | 2.0 TFSI   | 8K5907115N               | <0004                  | 8K5907115N               | 0004 |        |
|                                |            | 8K5907115J               |                        |                          |      |        |
|                                |            | 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,<br>and S5<br>Cabriolet | 3.0 TFSI   | 8K5907551G               | 0001                   | 8K5907551G               | 0006 |        |
|                                |            |                          | 0002                   |                          |      |        |
|                                |            |                          | 0003                   |                          |      |        |
|                                |            |                          | 0004                   |                          |      |        |
|                                |            |                          | 0005                   |                          |      |        |
| RS 5, RS<br>5<br>Cabriolet     | 4.2 TFSI   | 8T2907560F               | 0002, 0003, or<br>0004 | 8T2907560F               | 0005 | 01A150 |
| Q5, SQ5                        | 3.0 TFSI   | 8R0907551F<br>8R0907551G | 0001                   | 8R0907551F<br>8R0907551G | 0006 |        |
|                                |            |                          | 0002                   |                          |      |        |
|                                |            |                          | 0003                   |                          |      |        |
|                                |            |                          | 0004                   |                          |      |        |
|                                |            |                          | 0005                   |                          |      |        |
| A8                             | 3.0 TFSI   | 4H2907551A               | 0001<br>0003<br>0004   | 4H2907551A               | 0008 |        |
| A6, A7                         | 3.0 TFSI   | 4G0907551J               | 0001<br>0002           | 4G0907551J               | 0004 | 02A210 |



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

## 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 the 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>Labor Operations:</b> | Check software level in ECM (with no update needed)  | 2470 0199 | Max 10 TU |



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|                         |   |              |  |
|-------------------------|---|--------------|--|
| <b>Diagnostic Time:</b> | 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  |
| <b>Claim Comment:</b>   | 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.

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