



Technical Service Bulletin

MIL on (DTC P310B and/or P129F)

24 08 12 2015106/4 March 3, 2008. Supersedes Technical Service Bulletin Group 24 number 07-19 dated Nov. 19, 2007 to revise affected engines.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4	2005 – 2008	All	3.2L V6 FSI Engine
A4 Cabriolet	2007 – 2008	All	3.2L V6 FSI Engine
RS4	2007 – 2008	All	4.2L V8 FSI Engine
A6	2005 – 2008	All	3.2L V6 FSI Engine 4.2L V6 FSI Engine
S6	2007 – 2008	All	5.2L V10 FSI Engine
A8	2007 – 2008	All	4.2L V8 FSI Engine
S8	2007 – 2008	All	5.2L V10 FSI Engine
Audi Q7	2006 – 2008	All	3.6L V6 FSI Engine 4.2L V8 FSI Engine

Condition

MIL on and one or more of the following DTCs are stored in the ECM data memory:

- P310B (low-pressure fuel system regulation, fuel pressure outside tolerance)
- P129F (low-pressure fuel system, pressure too high)

Technical Background

Due to fuel intrusion into the low-pressure system fuel pressure sensor (G410), a false signal may be sent to the controller, resulting in a reading that is out of tolerance.

Production Solution

Improvements to G410 fuel pressure sensor.

Service

For all FSI vehicles except the 3.2L FSI:

1. Check to ensure:
 - DTC P310B and/or P129F is present in data memory.

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- No other fuel delivery system DTC that clearly indicates a component malfunction (DTCs for fuel delivery system component electrical faults) is present.
2. Start engine and allow it to idle.
 3. Disconnect the fuel metering valve electrical connector (N276 or N290) on the high pressure fuel pump.
 4. Compare fuel pressure values from MVB 103 field 1 and MVB 106 field 1.
 5. If the MVB 103 value deviates more than ± 0.5 bar from the MVB 106 measurement, then the DTC was likely triggered by a faulty G410 low-side fuel pressure sensor. In this case, perform the repair in the section *Sensor Replacement Procedure* below.

For vehicles with 3.2L FSI engines:

1. Check to ensure:
 - DTC P310B and/or P129F is present in data memory.
 - No other fuel delivery system DTC that clearly indicates a component malfunction (DTCs for fuel delivery system component electrical faults) is present.If both conditions are met, continue with this procedure.

2. Start engine and allow to idle for at least one minute.
3. Stop the engine.
4. Keep the ignition on.

5. Measure actual low-side fuel pressure via mechanical gauge (VAG 1318) on the low pressure supply line in the engine compartment (Figure 1).



Figure 1. VAG 1318 gauge installed on an A3 2.0L TFSI vehicle.

6. Add 1 bar to the value obtained from the mechanical gauge to calculate the adjusted gauge measurement.

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7. Compare the adjusted gauge measurement to the value stored in MVB 103 field 1.



Tip: The MVB 103 field 1 value should be approximately 1 bar above the mechanical gauge reading. This is a normal condition and does not indicate a faulty sensor

8. If the MVB 103 field 1 value deviates more than ± 1.0 bar from the adjusted gauge measurement, then the DTC was likely triggered by a faulty G410 low-side fuel pressure sensor. In this case, perform the repair in the section *Sensor Replacement Procedure* below.

Sensor replacement procedure

1. Replace the G410 low-side fuel pressure sensor.



Figure 2. Fuel pressure sensor 06E 906 051 K.

2. Clear DTCs and verify that the problem was eliminated.
3. Run Basic Settings 103 to adapt system.
4. Do not replace fuel pump, fuel pump control module, or fuel filter unless problem persists.



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Warranty

When procedure applies to vehicles under warranty, use the following:

SAGA

Claim Type:	110		
Service Number:	2409		
Damage Code:	0040		
Labor Operations:	2409 XX XX See ElsaWeb for vehicle-specific Labor Operation Code	Fuel pressure sender remove + reinstall	See ElsaWeb for vehicle specific SRT
Diagnostic Time:	Diagnostic time reimbursement follows guidelines printed in Section 2.2 of the <i>Audi Warranty Policies and Procedures Manual</i>		
Claim Comment:	As per TSB #2015106/4		
All warranty claims submitted for payment must be in accordance with the <i>Audi Warranty Policies and Procedures Manual</i> . Claims are subject to review or audit by Audi Warranty.			

Required Parts and Tools

Part Number	Part Description	Quantity
06E 906 051 J or 06E 906 051 K	Thrust sensor	1
03C 906 051 A	Thrust sensor for for 3.6 V6 motor (engine code BHK)	1

Additional Information

All parts and service references provided in this TSB are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.