



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Eos	2007-2008	2.0L (BPY)	All	All	All
Jetta	2007-2008	2.0L (BPY)	All	All	All
GTI	2007-2008	2.0L (BPY)	All	All	All
Passat Sedan	2007-2008	2.0L (BPY)	All	All	All
Passat Wagon	2007-2008	2.0L (BPY)	All	All	All

Condition

01 12 20 June 29, 2012 **2027458** Supersedes T. B. V011207 dated March 19, 2012 to update warranty claiming service number information.

MIL ON DTCs P310B, P129F, P008B, P129E, P008A, P2540 or P0087 Stored in ECM Fault Memory

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

DTC	Description
P310B	Low-pressure fuel system regulation, fuel pressure outside tolerance
P129F or P008B	Low-pressure fuel system, pressure too high
P129E or P008A	Low pressure fuel system, pressure too low
P2540	Low pressure fuel system, pressure out of range
P0087	Rail fuel pressure system, pressure too low

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.

Comparing Measure Value Block 103 with 106 is *not* an accurate method to diagnose low-side fuel pressure sensor G410.



In order to diagnose G410 accurately, use a mechanical gauge and compare results with the low-side fuel pressure Actual Value in Measured Value Block 103.

Production Solution

Improvements to G410 fuel pressure sensor.

Service

1. Verify the customer did not run out of fuel at the time the DTCs were stored.
2. Inspect that latest fuel pressure sender P/N **06E 906 051 K** (Figure 2) is installed, if not replace the old style component with the new style component and run Basic Settings 103 to adapt system.



Tip:

P310B and/or **P129E/P008A** may be accompanied by **P1250**. If so, it is likely the faults occurred due to a low fuel level and not a malfunction of the -G410- Pressure Sensor.

3. Follow diagnostic program of GFF for applicable DTCs.
4. To check the low-side fuel pressure sensor -G410-, measure the fuel pressure with a mechanical gauge using the following method:



Figure 1. VAG 1318 gauge installed on a 2.0L TFSI.

- 4a. Start engine and allow it to idle for at least one minute.
- 4b. Stop the engine.
- 4c. Keep the ignition switch ON.
- 4d. Measure actual low-side fuel pressure via mechanical gauge (VAG 1318) on the low pressure supply line in the engine compartment (Figure 1).

5. Add 1 bar (14.5 psi.) to the value obtained from the mechanical gauge to calculate the adjusted gauge measurement value.
6. Compare the adjusted gauge measurement value to the Actual Value stored in MVB 103 field 1.



7. If the MVB 103 field 1 value deviates more than ± 1.0 bar (± 14.5 psi.) from the adjusted gauge measurement value, then the DTC was likely triggered by a faulty -G410- low-side fuel pressure sensor. In this case, document the adjusted gauge measurement value and MVB value on the Repair Order and perform the [Sensor replacement procedure below](#).

Sensor Replacement Procedure



1. Replace the -G410- low-side fuel pressure sensor with P/N 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 the high pressure fuel pump, electrical fuel pump, fuel pump control module or fuel filter unless problem persists and further diagnosis indicates a malfunction of any of these components.

Figure 2. Improved fuel pressure sensor
06E 906 051 K.

Technical Bulletin



Warranty



Note:

If claiming under the Limited Warranty Extension use Claim Type: 110 only.

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Eos	2007-2008	2.0L (BPY)	All	All	All
Jetta	2007-2008	2.0L (BPY)	All	All	All
GTI	2007-2008	2.0L (BPY)	All	All	All
Passat Sedan	2007-2008	2.0L (BPY)	All	All	All
Passat Wagon	2007-2008	2.0L (BPY)	All	All	All
Claim Type:			Use applicable Claim Type ¹⁾		
SAGA Coding					
Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)	Parts Manufacturer (removed part)	
2409	0040	--	Use applicable when indicated in ElsaWeb (L/R)	T N 2 ²⁾	
Labor Operation ³⁾ : Remove and Install air cleaner			24251920 = 30 TU		
Labor Operation ³⁾ : Fuel Pressure Sender Remove and Reinstall updated sender if needed			2409 1970 = 10 TU Low pressure		

Technical Bulletin



Labor Operation ³⁾ : Measuring fuel pressure with VAG 1318 mechanical gauge	2409 0399 = 40 TU Max.	
Diagnostic Time ⁴⁾		
GFF Time expenditure	01500000 = 20 TU max.	YES
Road Test (after repair only)	01210004 = 10 TU	YES
Technical Diagnosis	0132xxxx = 20 TU max.	YES
Claim Comment: Input "As per Technical Bulletin 2027458" in comment section of Warranty Claim.		
1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only		
2) Code per warranty vendor code policy.		
3) Labor Time Units (Tus) are subject to change with Elsa updates.		
4) Documentation required per Warranty Policy & Procedures Manual.		

Required Parts and Tools

Part Number	Part Description	Quantity
06E 906 051 K	Fuel pressure sensor	1

Tool Description	Tool No:
VAS Diagnostic Tool	VAS 5051B, 5052/A, 6150
Fuel Pressure Gauge	VAG 1318

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.