



Technical Service Bulletin

01 MIL on (DTC P310B, P129F, P008B, P129E, P008A, P2540, P0087)

01 15 17 2027417/4 March 12, 2015. Supersedes Technical Service Bulletin Group 01 number 12-45 dated March 16, 2012 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4	2005	405683 – 999999	BPG and BWT Engine
	2006 – 2007	000001 – 999999	BPG and BWT Engine
	2008	000001 – 130975	BPG and BWT Engine
A4 Cabriolet	2007	013458 – 999999	BWT Engine
	2008	000001 – 010239	BWT Engine
TT	2007	000166 – 033872	BPY Engine
A3	2007	101119 – 999999	BPY Engine
	2008	000001 – 125311	BPY Engine

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised header data (Added DTCs; updated customer codes) Revised <i>Warranty</i> (Updated labor operations)
3	3/16/2012	Revised <i>Service</i> Revised <i>Warranty</i>
2	11/9/2011	Revised <i>Warranty</i>

- MIL on
- One or more of the following DTCs is stored in the engine control module (ECM), J623 (address word 01):
 - **DTC P310B** (Low fuel pressure regulation fuel pressure outside specification)
 - **DTC P129F** or **DTC P008B** (Low pressure fuel system pressure too high)
 - **DTC P129E** or **DTC P008A** (Low pressure fuel system pressure too low)
 - **DTC P2540** (Low pressure fuel system sensor circuit range/performance)
 - **DTC P0087** (Fuel rail/system pressure too low)

Technical Background

A false signal may be sent to the controller due to fuel intrusion into the low-pressure system fuel pressure sensor, G410. The result is a reading that is out of tolerance.

G410 must be accurately diagnosed with a mechanical gauge, and the results must be compared with the low-side fuel pressure actual value in Measured Value Block (MVB) 103. Comparing MVB 103 with MVB 106 does not accurately diagnose G410.

Production Solution

Improvements to G410 fuel pressure sensor.

Service

1. Verify that *24T4 UPDATE - Fuel Pressure Sender (Warr_Ext)* was performed (if applicable).
2. Verify the customer did not run out of fuel at the time the DTCs were stored.
3. Follow indication 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:
 - a. Start engine and allow it to idle for at least one minute.
 - b. Stop the engine.
 - c. Keep the ignition on.
 - d. 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.

5. Add 1 bar 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 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 low-pressure system fuel pressure sensor, G410 (Figure 2).



Figure 2. G410 sensor.

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.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2409		
Damage Code:	0040		
Labor Operations:	Fuel pressure sender remove+reinstall (For TT only)	2409 1917	40 TU
	Fuel pressure sender remove+reinstall (All vehicles except TT)	2409 1917	30 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol
	Measurefuel pressure with VAG 1318 mechanical gauge	2409 0399	40 TU Max
	Road test prior to service procedure	No allowance	0 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)		
Claim Comment:	As per TSB #2027417/4		

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.

Required Parts and Tools

Part Number	Part Description	Quantity
06E906051K	Fuel pressure sensor	1

Additional Information

All parts and service references provided in this TSB (2027417) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.