



# Technical Service Bulletin

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

01 11 34 2027417/2 November 9, 2011. Supersedes Technical Service Bulletin Group 24 number 11 – 00 dated November 9, 2011 for reasons listed below.

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

## Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Warranty</i>
1	11/9/2011	Original publication

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** 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. If you are performing this TSB because of a reference in TSB 2016868 or 2015505 proceed as follows:

- Inspect if the 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.
- If you are *not* performing this TSB because of a reference from TSB 2016868 or 2015505; proceed to Step 2.

2. Verify the customer did not run out of fuel at the time the DTCs were stored.



**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 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  $\pm 1.0$  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 G410 low-side fuel pressure sensor with P/N 06E 906 051 K.



*Figure 2. Improved 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 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.

**Additionally, verify the Warranty Extension applicability for this VIN in ELSA:**

**US Only:**

- Warranty key U14 Intake Man RC Motor, 10/120,000 US ONLY is present:
  - Also, perform TSB 2016868, 01 MIL on (TDC P0642, P2004, P2008, P3137, P2138 stored in ECM)
- Warranty key U13 PCV Valve EXT 10/120,000 US ONLY is present:
  - Also, perform TSB 2015505, (01 MIL on P1297, P2187, P2279, oil leaks)

**Canada Only:** To determine if a vehicle is eligible for a Limited Warranty Extension, check the VIN in *ElsaWeb*>>*Vehicle Specific Notes*>>*Vehicle Data*. If a warranty extension is applicable to the vehicle, the "Enhanced Coverage" section of the "Vehicle Data" screen in ElsaWeb will be populated with the warranty extension parameters.

- Enhanced Coverage 05 CANAU-WTYEXT-XC, Intake Manifold Runner Control Warranty Ext (AU):
  - Also, perform TSB 2016868, 01 MIL on (TDC P0642, P2004, P2008, P3137, P2138 stored in ECM)
- Enhanced Coverage 05 CANAU-WTYEXT-XD, Positive Crankcase Ventilation Warranty Ext (AU):
  - Also, perform TSB 2015505, (01 MIL on P1297, P2187, P2279, oil leaks)

# Technical Service Bulletin



## Warranty

Claiming instruction if referred from TSB 2016868 or 2015505

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	S343		
<b>Damage Code:</b>	40		
<b>Labor Operations:</b>	(Low-pressure side)	2409 19 17	20 TU
	Fuel pressure sender remove, inspect part number and install updated sender if needed	A4, A4 Cabriolet	
		A3	30 TU
		TT	50 TU
<b>Diagnostic Time:</b>	GFF	No allowance	0 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 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 #2027417/2		

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Claiming instruction for MIL on and DTC entry (P310B, P129F, P008B, P129E, P008A, P2540, P0087)

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	S343		
<b>Damage Code:</b>	40		
<b>Labor Operations:</b>	(Low-pressure side)	2409 19 17	
	Fuel pressure sender remove + reinstall updated sender if needed	A4, A4 Cabriolet	20 TU
		A3	30 TU
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on diagnostic protocol
	Measuring fuel 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)		
<b>Claim Comment:</b>	As per TSB #2027417/2		

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.

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## Required Parts and Tools

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