



# Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Tiguan, Eos, CC, GTI, Beetle, Beetle Convertible, Jetta	2008-2013	2.0L (CCTA, CBFA)	All	All	All

## Condition

20 13 04 May 16, 2013 2031426 Supersedes T.B. V201303 dated April 15, 2012 to include road test labor operation in warranty table.

### High Pressure Fuel Pump Diagnosis

Engine Crank, No Start after Long Periods without Driving. Engine may run rough, and or MIL-ON with DTC P0087-low fuel pressure stored in ECM Fault Memory.

## Technical Background

Completing the GFF high pressure pump function test is essential to diagnose proper pump operation and to avoid unnecessary replacements.

## Production Solution

Not applicable.

## Service

The high pressure pump requires a sufficient supply of fuel pressure in order to operate properly.

- Check for sufficient pressure at the low pressure pump as described in the repair manual, located under the headings: Engine -> Engine Mechanical, Fuel Injection and Ignition -> Fuel Supply System -> Diagnosis and Testing -> Fuel Pump, Checking -> Fuel Pressure, Checking.

Is low pressure fuel pump within specifications?

YES: Continue to high pressure fuel pump test.

NO: Replace low pressure fuel pump and continue.

Guided fault finding provides a function test for the high pressure fuel pump. This test must be performed in order to properly diagnose the high pressure fuel pump.

# Technical Bulletin

**Note:**

**A completed high pressure fuel pump function test is required for reimbursement.**

**Following completion of the function test:**

If the fuel rail pressure is within  $\pm 1$  of 40 bar (580 psi.), **DO NOT** replace the high pressure fuel pump. Continue to further diagnose the fuel system, this bulletin does not apply.

- With the engine running, check measure value blocks 106, 140 and 141 to confirm fuel rail pressure reads a minimum of 40 bar (480 psi).

**The engine should be switched OFF and the key switched ON to perform the following procedure:**

- Enter vehicle self-diagnosis.
- Select OBD.
- Select 01 engine electronics.
- Select 005 – output diagnostic test mode (DTM).
- VAS will run diagnostics.
- When the test starts to check operation of the “fuel pressure regulator 2 control circuit high” (figure 1), listen for an audible “click” sound coming from the N276 pressure regulator.

**Tip:**

The audible “click” sound may be better heard with hood open and the engine cover removed.

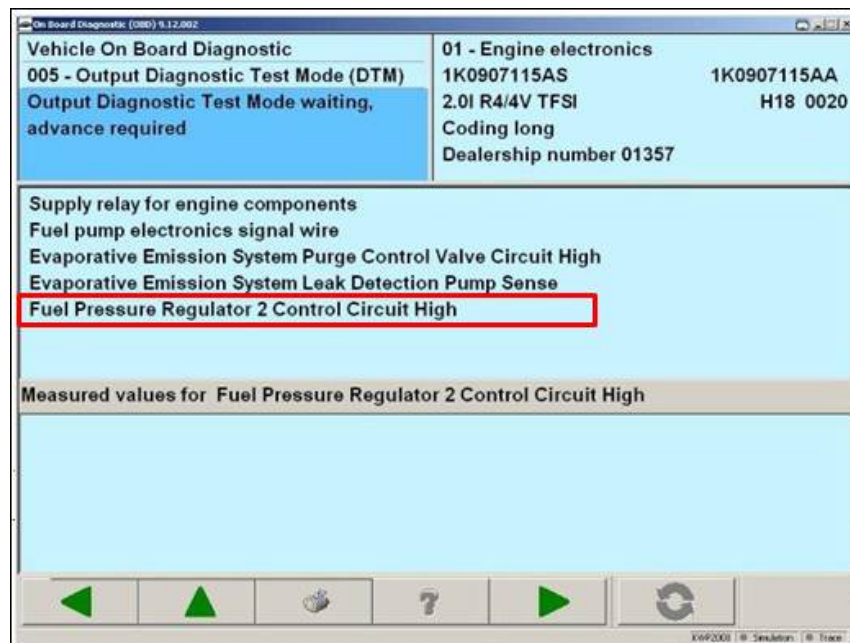


Figure 1



# Technical Bulletin

- If “click” noise is heard, **DO NOT** replace the high pressure fuel pump, this bulletin will not apply. Continue to further diagnose the fuel system.
- If “click” noise is **not** heard, and fuel rail pressure is below 10 bar, replace the high pressure fuel pump.
- Following completion of the test procedure, the vehicle should be driven with higher RPM’s (3000 – 5500) to confirm the fault does not return.

## Warranty

### Low Pressure Fuel Pump Only

<b>To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup></b>					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Tiguan, Eos, CC, GTI, Beetle, Beetle Convertible, Jetta	2008-2013	2.0L (CCTA, CBFA)	All	All	All
<b>SAGA Coding</b>					
<b>Claim Type:</b>			<b>Use applicable Claim Type <sup>1)</sup></b>		
<b>Service Number:</b>	<b>Damage Code</b>	<b>HST</b>	<b>Damage Location (Depends on Service No.)</b>		
2066	0010	--	Use applicable when indicated in ElsaWeb (L/R)		
<b>Parts Manufacturer</b>	Eos, GTI, Beetle, Beetle Convertible, Jetta, CC		VDO		
	Tiguan		TJ5		
<b>Tiguan</b>					
<b>Labor Operation <sup>3)</sup>: Remove and Install Low Pressure Fuel Pump</b>			20661900 = 90 TU		
<b>Eos/CC/GTI/Beetle/Beetle Convertible/Jetta</b>					



# Technical Bulletin

Labor Operation <sup>3)</sup> : Remove and Install Low Pressure Fuel Pump		20661900 = 70 TU
Causal Part:		Low pressure fuel pump
Diagnostic Time <sup>4)</sup>		
GFF Time expenditure	01500000 = 30 TU max.	YES
Road Test	01210004 = 10 TU	<b>YES</b>
Technical Diagnosis- low pressure fuel pump test	01320000 = 60 TU max	YES
Claim Comment: Input "As per Technical Bulletin 2031426" in comment section of Warranty Claim.		
<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only <sup>2)</sup> Code per warranty vendor code policy. <sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates. <sup>4)</sup> Documentation required per Warranty Policies and Procedures Manual.		

OR

## High Pressure Fuel Pump Only

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup>					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Tiguan, Eos, CC, GTI, Beetle, Beetle Convertible, Jetta	2008-2013	2.0L (CCTA, CBFA)	All	All	All
SAGA Coding					
Claim Type:			Use applicable Claim Type <sup>1)</sup>		



# Technical Bulletin

Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)
2463	0010	--	Use applicable when indicated in ElsaWeb (L/R)
Parts Manufacturer	Tiguan, Eos, CC, GTI, Beetle, Beetle Convertible, Jetta		BPF
<b>Tiguan</b>			
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump		24631940 = 50 TU	
<b>Eos/GTI</b>			
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump		24631920 = 70 TU	
<b>CC/Jetta/Beetle/Beetle Convertible</b>			
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump		24631918 = 50 TU	
Causal Part: High pressure fuel pump		06H 127 025N	
<b>Diagnostic Time <sup>4)</sup></b>			
GFF Time expenditure	01500000 = 30 TU max.	YES	
Road Test	01210004 = 10 TU	YES	
Technical Diagnosis- low and high pressure pump test	01320000 = 85 TU max	YES	
Claim Comment: Input "As per Technical Bulletin 2031426" in comment section of Warranty Claim.			
<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only <sup>2)</sup> Code per warranty vendor code policy. <sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates. <sup>4)</sup> Documentation required per Warranty Policies and Procedures Manual.			



# Technical Bulletin

## Required Parts and Tools

Part Description	Part No:	Quantity
High Pressure Fuel Pump	06H127025N	1
OR		
Low Pressure Fuel Pump	See ETKA	1

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)
VAS Diagnostic Tool	VAS 5051B, VAS 5052A, VAS 6150/X & VAS 6160/-VPC with: <ul style="list-style-type: none"><li>- VAS-PC Base V19.01.01 and current version</li><li>- Brand disc</li><li>- ODIS Service V1.1.3 or higher</li></ul>

## 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.