



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All	2008-2014	2.0L (CCTA, CBFA)	All	All	All

Revision History			
Service Net TSB #	Revision	Publication Date	Purpose
20-13-07	7	Aug 14, 2013	Revised <i>Header Data</i> (Added Revision History Table), <i>addition of ODIS test plan and Model Year 2014 applicability</i>
20-13-05	6	Jun 14, 2013	Revised <i>Header Data</i> (Added Passat Applicability)
20-13-04	5	May 16, 2013	Revised <i>Warranty</i> (Added Road Test Labor Operation)
20-13-03	4	Apr 15, 2013	Revised <i>Header Data</i> (Added Model Years)
20-13-02	3	Jan 16, 2013	Revised <i>Service</i> (Correct Rail Pressure Specification)
20-13-01	2	Jan 15, 2013	Revised <i>Warranty</i> (Low Pressure Fuel Pump Test)
20-12-02	1	Nov 21, 2012	Original Publication

Condition

20 13 07 August 14, 2013 **2031426** Supersedes T.B. V201305 dated June 14, 2013 to include additional model year applicability, revision history table and ODIS test procedure for the N276 – Fuel Pressure Regulator Valve.

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.

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Production Solution

N/A

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.



Note:

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

Following completion of the function test:

If the actual fuel rail pressure is within ± 1 bar of specified fuel rail pressure [40 bar at idle (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 (580 psi).

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

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ODIS

- Enter Diagnosis
- Select “Test Plan”
- Click “Select self test” button
- Locate the test plan for the “N276 – Fuel Pressure Regulator Valve,” and attach the test to the test plan list.

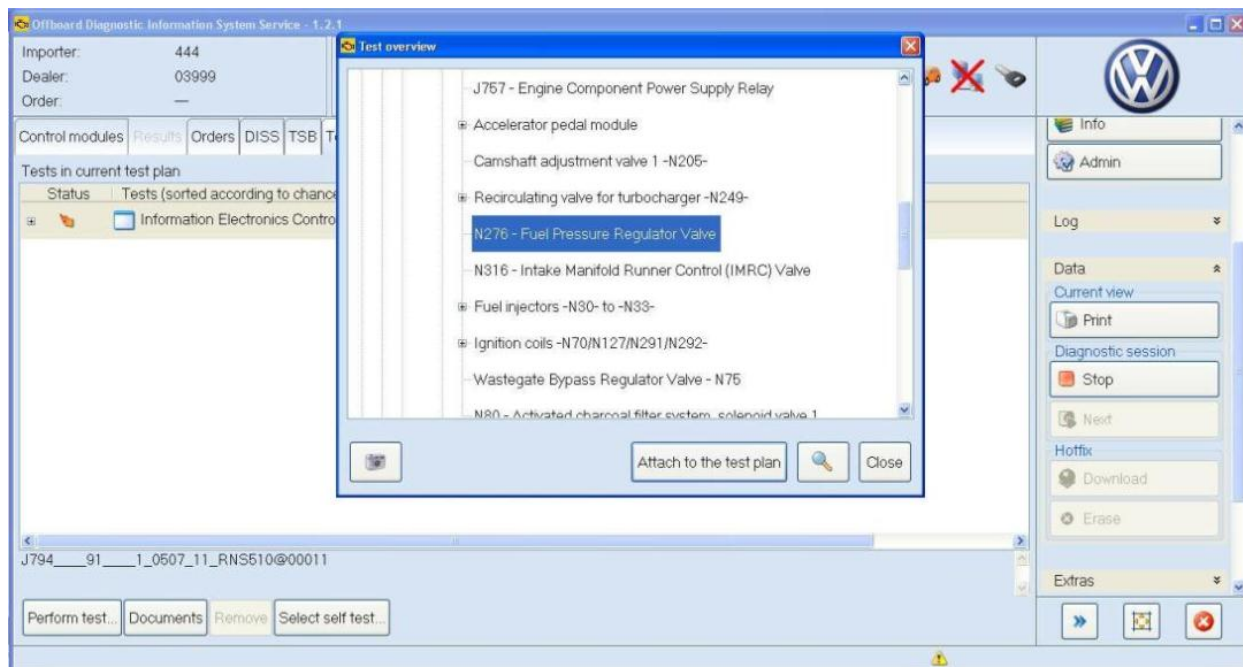


Figure 1

- Close test overview window
- Highlight “N276 – Fuel Pressure Regulator Valve” test plan and select “Perform Test.”
- ODIS will run GFF test plan for the Fuel Pressure Regulator Valve.
- When the test starts to check the operation of the N276 pressure regulator, listen for an audible “click” sound coming from the High Pressure Fuel Pump.

Tip:

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

- 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.

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VAS-PC

- 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 N276 pressure regulator (“fuel pressure regulator 2 control circuit high,” figure 2), listen for an audible “click” sound coming from the High Pressure Fuel Pump.



Tip:

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

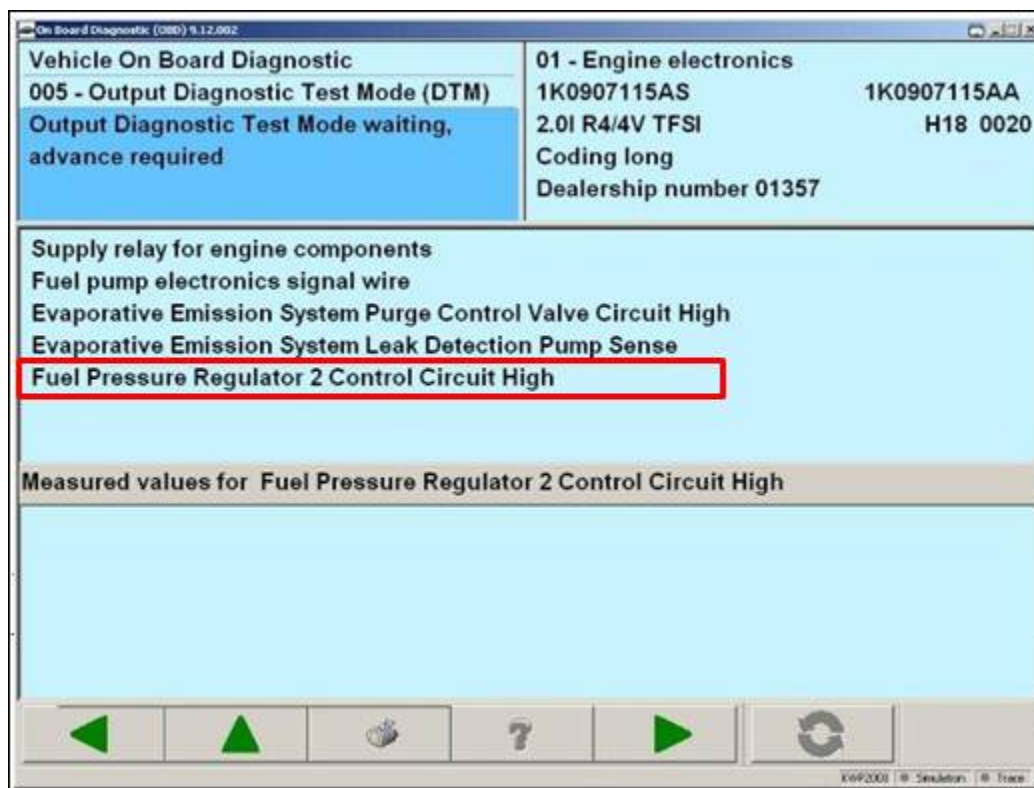


Figure 2

- 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.



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Warranty

Low Pressure Fuel Pump 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
All	2008-2014	2.0L (CCTA, CBFA)	All	All	All
SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)		
2066	0010	--	Use applicable when indicated in ElsaWeb (L/R)		
Parts Manufacturer	Eos, GTI, Beetle, Beetle Convertible, Jetta, CC, Passat		VDO		
	Tiguan		TJ5		
Tiguan					
Labor Operation ³⁾ : Remove and Install Low Pressure Fuel Pump			20661900 = 90 TU		
Eos/CC/GTI/Beetle/Beetle Convertible/Jetta/Passat					
Labor Operation ³⁾ : Remove and Install Low Pressure Fuel Pump			20661900 = 70 TU		
Causal Part:			Low pressure fuel pump		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = 30 TU max.		YES		
Road Test	01210004 = 10 TU		YES		



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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.		
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 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 ¹⁾					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Tiguan, Eos, CC, GTI, Beetle, Beetle Convertible, Jetta	2008-2014	2.0L (CCTA, CBFA)	All	All	All
SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
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, Passat, GTI, Beetle, Beetle Convertible, Jetta		BPF		
Tiguan					



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Labor Operation ³⁾ : Remove and Install High Pressure Fuel Pump		24631940 = 50 TU
Eos/GTI		
Labor Operation ³⁾ : Remove and Install High Pressure Fuel Pump		24631920 = 70 TU
CC/Passat/Jetta/Beetle/Beetle Convertible		
Labor Operation ³⁾ : Remove and Install High Pressure Fuel Pump		24631918 = 50 TU
Causal Part: High pressure fuel pump		06H 127 025N
Diagnostic Time ⁴⁾		
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.		
<p>¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p>²⁾ Code per warranty vendor code policy.</p> <p>³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>⁴⁾ Documentation required per Warranty Policies and Procedures Manual.</p>		



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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: VAS-PC Base V19.01.01 and current version Brand disc ODIS Service V1.1.3 or higher

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.