

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.

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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 ± 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.



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

Cin Doard Diagnostic (OBD) 9.12.002		Galeia
Vehicle On Board Diagnostic	01 - Engine electronics	
005 - Output Diagnostic Test Mode (DTM)	1K0907115AS	1K0907115AA
Output Diagnostic Test Mode waiting,	2.01 R4/4V TFSI	H18 0020
advance required	Coding long	
	Dealership number 01357	
Fuel pump electronics signal wire Evaporative Emission System Purge Contro Evaporative Emission System Leak Detectio Fuel Pressure Regulator 2 Control Circuit H Measured values for Fuel Pressure Regulator	n Pump Sense igh	
		WP2001 @ Smileton (@ Itece)

Figure 1

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- If "click" noise is heard, DO NOT replace the high pressure fuel pump, <u>this bulletin will not apply</u>. Continue to further diagnose the fuel system.
- If "click" noise is <u>not</u> 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

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾

					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	2008-2013	2.0L (CCTA, CBFA)	All	All	All
		SA	AGA Coding		
Claim Type: Use applicable Clai				im Type ¹⁾	
Service Number	r:	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 Co		nvertible, Jetta,CC	VDO		
Tiguan				TJ5	
			Tiguan		
Labor Operation ³⁾ : Remove and Install Low Pressure Fuel Pump			20661900 = 90 TU		
		Eos/CC/GTI/Beet	le/Beetle Convertibl	le/Jetta	



Labor Operation ³⁾ : Remo Pressure Fuel Pump	ove and Install Low	20661900 = 70 TU		
Causal Part:		Low pressure fuel pump		
	Diaç	gnostic Time ⁴⁾		
GFF Time expenditure	01500000 = 30 TU max.		YES	
Road Test	01210004 = 10 TU		YES	
Technical Diagnosis- low pressure fuel pump test	01320000 = 60 TU max		YES	
Claim Comment: Input "	As per Technical Bullet	in 2031426" in comment section	on of Warranty Claim.	
¹⁾ Vehicle may be outside	e any Warranty in which	n case this Technical Bulletin is	s informational only	
²⁾ Code per warranty ven	dor 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 th Procedures Manu		s covered under W	arranty, always refe	er to the Warranty F	Policies and
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
		SAG	A Coding		
Claim Type:			Use applicable Claim Type ¹⁾		

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Service Number:		Damage Code	HST	Damage Location (Depends on Service No.)	
2463		0010		Use applicable when indicated in ElsaWeb (L/R)	
	Figuaı Jetta	ın, Eos, CC, GTI, Beetle, Beetle Convert		BPF	
		т	iguan		
Labor Operation ³⁾ : R Pressure Fuel Pump	emov	re and Install High	24631940 = 50 TU		
		E	os/GTI		
Labor Operation ³⁾ : Remove and Install High Pressure Fuel Pump			24631920 = 70 TU		
		CC/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		
		Diagno	ostic Time ⁴⁾		
GFF Time expenditure	е	01500000 = 30 TU max.		YES	
Road Test		01210004 = 10 TU		YES	
Technical Diagnosis- and high pressure pu test		01320000 = 85 TU max		YES	
Claim Comment: Inpu	ut "As	per Technical Bulletin 2	2031426" in comme	nt section of Warranty Claim.	
¹⁾ Vehicle may be out	side a	iny Warranty in which ca	se this Technical B	ulletin is informational only	
²⁾ Code per warranty v	vendo	or code policy.			
³⁾ Labor Time Units (T	ſUs) a	ire subject to change wit	h ELSA updates.		
⁴⁾ Documentation req	uired	per Warranty Policies ar	nd Procedures Man	ual.	

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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.

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