

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

Revision History					
Service Net TSB #	Revision	Publication Date	Purpose		
20-15-01	8	Mar. 2, 2015	Revised to update Tiguan High Pressure Fuel Pump Labor Operation Time Units according to SAGA, and update part number		
20-13-07	7	Aug 14, 2013	Revised <i>Header Data</i> (Added Revision History Table), addition of ODIS test plan and Model Year 2014 applicability		
20-13-05	6	Jun 14, 2013	Revised Header Data (Added Passat Applicability)		
20-13-04	5	May 16, 2013	Revised Warranty (Added Road Test Labor Operation)		
20-13-03	4	Apr 15, 2013	Revised Header Data (Added Model Years)		
20-13-02	3	Jan 16, 2013	Revised Service (Correct Rail Pressure Specification)		
20-13-01	2	Jan 15, 2013	Revised Warranty (Low Pressure Fuel Pump Test)		
20-12-02	1	Nov 21, 2012	Original Publication		

## Condition

**20 15 01** March 2, 2015 **2031426** Supersedes T.B. V201307 dated August 14, 2013 to update Tiguan High Pressure Pump Labor Operation Time Units and update part number.

### **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.

© 2015 Volkswagen Group of America, Inc.



## **Technical Background**

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

## **Production Solution**

N/A.

© 2015 Volkswagen Group of America, Inc.

Page 2 of 9



## 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 <u>completed</u> high pressure fuel pump function test is required for reimbursement.

### Following completion of the function test:

If the actual fuel rail pressure is within  $\pm 1$  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:

### 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.

All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Volkswagen Group of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.



Stifboard Diagnostic Information System Service - 1.2.1		
	Test everyweev       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power Power Supply Relay       Image: Component Power Supply Relay         Image: Component Power	Log * Data * Curren tww Diagnostic session Biagnostic session Stop
J794911_0507_11_RNS510@00011  Perform test Documents Remove Select self	NR0 Activated charmal filter system colemoid value 1	Next     Hottx     Download     Erase Extras     X     X     X     X     X     X     X     X     X     X

### 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.

### **i**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, <u>this bulletin will not apply</u>. 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.

### 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.

© 2015 Volkswagen Group of America, Inc.

Page 4 of 9



## iTip:

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

Vehicle On Board Diagnostic 05 - Output Diagnostic Test Mode (DTM) Dutput Diagnostic Test Mode waiting, dvance required	01 - Engine electronic 1K0907115AS 2.0I R4/4V TFSI Coding long Dealership number 01	1K0907115AA H18 0020
		357
Supply relay for engine components Fuel pump electronics signal wire Evaporative Emission System Purge Contr Evaporative Emission System Leak Detect Fuel Pressure Regulator 2 Control Circuit easured values for Fuel Pressure Regula	ion Pump Sense High	
3		

### Figure 2

- 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.

© 2015 Volkswagen Group of America, Inc.

Page 5 of 9



## Warranty

### Low Pressure Fuel Pump Only

Model(s)	Year(s)		Eng. Code(s)	Trans. Code(s)		ange om	VIN Range To
All 2008-2014		2.0L (CCTA, CBFA)	All	All		All	
			SAGA	Coding			
Claim Type:		Use ap	olicable Claim Ty	pe <sup>1)</sup>			
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			
			Tig	uan			
Labor Operation <sup>3)</sup> : Remove and Install Low Pressure Fuel Pump				20661900 = 90 TU			
		Eos/CC/	GTI/Beetle/Beetle	Convertible/Jetta	a/Passat	t	
Labor Operation <sup>3)</sup> : Remove and Install Low Pressure Fuel Pump			20661900 = 70 TU				
Causal Part:				Low pressure fue	el pump		
			Diagnost	ic Time <sup>4)</sup>			

© 2015 Volkswagen Group of America, Inc.

Page 6 of 9



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 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	CC, GTI, Beetle, Beetle 2008-2014 Convertible,		2.0L (CCTA, CBFA)	All	All		All
	SAGA Coding						
Claim Type:	Claim Type:			Use applicable Claim Type <sup>1)</sup>			
Service Number:		Damage Code	HST		Damage Location (Depends on Service No.)		
2463			0010				oplicable when ted in ElsaWeb

© 2015 Volkswagen Group of America, Inc.

Page 7 of 9



				(L/R)	
Parts Manufacture	r	Tiguan, Eos, CO Beetle, Beetle O Jetta		BPF	
		Tig	uan		
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump			24631940 = <mark>90 TU</mark>		
		Eos	/GTI		
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump			24631920 = 70 TU		
	CC/	Passat/Jetta/Bee	tle/Beetle Conver	tible	
Labor Operation <sup>3)</sup> : Remove and Install High Pressure Fuel Pump			24631918 = 50 TU		
Causal Part: High pressure fuel pump			06H 127 025 <mark>Q</mark>		
		Diagnost	ic Time <sup>4)</sup>		
GFF Time expenditure		01500000 = 30 T	U max.	YES	
Road Test		01210004 = 10 T	·U	YES	
Technical Diagnosis- low high pressure pump test		01320000 = 85 T	'U max	YES	
Claim Comment: Input " <i>I</i> Claim.	As per T	echnical Bulletir	2031426" in con	nment section of Warranty	
<sup>1)</sup> Vehicle may be outside	any Wa	arranty in which	case this Technic	cal Bulletin is informational only	
<sup>2)</sup> Code per warranty ven					
<sup>3)</sup> Labor Time Units (TUs)	are su	bject to change v	vith ELSA update	S.	

<sup>4)</sup> Documentation required per Warranty Policies and Procedures Manual.



## **Required Parts and Tools**

Part Description	Part No:	Quantity		
High Pressure Fuel Pump	06H127025 <mark>Q</mark>	1		
OR				
Low Pressure Fuel Pump	See ETKA	1		

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)
	or
	GRX3000VAS
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X with
	ODIS Service with: current online updates

## **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.

© 2015 Volkswagen Group of America, Inc.