

Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Passat	2012	2.0L (CKRA)	All	A3_CC000916	A3_CC025449

Condition

20 12 05 December 13, 2012 2028931

Fuel Gauge does not Display Full after Refueling



Technical Background

Diesel fuel may foam in the fuel tank when rapidly filling from empty, and there is not enough space in the tank for the foam to expand. This causes the fuel nozzle to shut off prematurely. When filling the tank at a slower rate, it is possible to fill the tank completely.

Production Solution

Improved fuel tank design as of VIN: A3_CC025449.

Technical Bulletin

Service



Tip:

When refilling a **diesel fuel tank** from empty, It is a normal characteristic for the fuel gauge to not display full until the fuel nozzle has shut OFF twice.



Note:

When filling the tank and checking the fuel gauge reading, the vehicle **must** be on a level surface.

Make sure the diesel fuel will not be contaminated by dirt or gasoline. ONLY store the customer's fuel in a clean and approved storage container to avoid cross contamination.

Procedure:

1. Is the fuel gauge displaying all the way full?

YES: This bulletin does not apply, return vehicle to customer.

NO: Review Fuel Supply System Safety Precautions and Clean Working Conditions see Repair Manual group 20 in ElsaWeb, and continue.

2. Remove the rear bench seat to access fuel delivery module, see Repair Group 72 in ElsaWeb.

- Inspect all wiring harness connections to verify they are fully seated and secured.
- Are all connections fully seated and secure?

YES: Proceed to step 3.

No: Secure all connections and recheck fuel gauge full operation.

- Fuel gauge now operating properly?

YES: No further action required.

NO: Proceed to step 3.

3. Remove fuel delivery module and inspect the fuel level sender electrical and mechanical connections, see Repair Group 20 in ElsaWeb.

- Are the fuel delivery module electrical connections and mechanical connections operating properly?
 - Fuel level sensor -G- fully clipped to fuel supply module.
 - Internal supply module connector fully seated.

YES: Proceed to Fuel Level Sensor -G- Testing.

NO: Reseat fuel level sensor and/or supply module connector.

- Fuel gauge now operating properly?

YES: No further action required.

NO: Proceed to Fuel Level Sensor -G- Testing.

Technical Bulletin

Fuel Level Sensor -G- Module Testing



Note

Position the fuel delivery module on a clean and flat surface.



- Hang float arm over an edge (float in full down travel).



- Measure the resistance between module pin terminals 2 and 3.

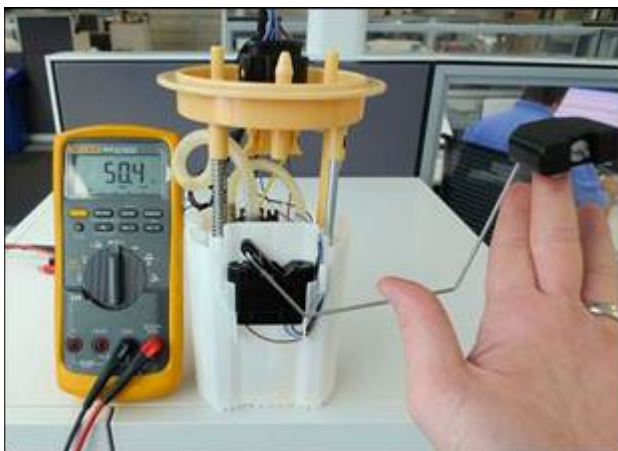
Technical Bulletin



- Is resistance measurement 290 ± 0.5 ohms?

Yes: Proceed to next step.

No: Replace fuel level sender module.



- Raise the float arm up to the physical limit and measure the resistance between module pin terminals 2 and 3.

Is resistance measurement 50 ± 0.5 ohms?

Yes: Drain and remove diesel fuel tank, install new diesel fuel tank part number 561201055H, use fuel pump from original fuel tank, and refill.

No: Replace fuel level sensor -G- module.



Tip:

Be sure to purge any air from the fuel system before starting engine. See Repair Manual group 23 in ElsaWeb.



Technical Bulletin

Warranty

Wiring Repair without pump removal

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
Passat	2012	2.0L (CKRA)	All	A3_CC000916	A3_CC025449
SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
2015	0040	--		Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufacturer	Passat			TX6 ²⁾	
Labor Operation ³⁾ : Check and Reseat Connector			20664199 = 10 TU		
Labor Operation ³⁾ Remove and Install Rear Bench Seat			72491900 = 20 TU		
Causal Part:			3AA919673		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = XX TU max.			NO	
Road Test	01210002 01210004			NO	
Technical Diagnosis	0132xxxx = 10 TU max.			YES	
Claim Comment: Input "As per Technical Bulletin 2028931" in comment section of Warranty Claim.					



Technical Bulletin

- 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 Policy Procedures Manual.

Wiring Repair with pump removal

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SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
2015	0040	--		Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufacturer	Passat			YSV ²⁾	
Labor Operation ³⁾ : Check and Reseat Connector			20154199 = 10 TU		
Labor Operation ³⁾ : GFF Bleed Fuel System			20030750 = 10 TU		
Labor Operation ³⁾ Remove and Install Rear Bench Seat			20661900 = 70 TU		
Causal Part:			3AA919673		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = XX TU max.			NO	
Road Test	01210004			YES	
Technical Diagnosis	0132xxxx = 10 TU max.			YES	



Technical Bulletin

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- ²⁾ Code per warranty vendor code policy.
- ³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.
- ⁴⁾ Documentation required per Warranty Policy Procedures Manual.

Fuel Level Sender

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Passat	2012	2.0L (CKRA)	All	A3_CC000916	A3_CC025449
SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
2015	0040	--		Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufacturer	Passat			UYP ²⁾	
Labor Operation ³⁾ : Remove and Install Fuel Level Sensor -G-			20151950 = 10 TU		
Labor Operation ³⁾ : GFF Bleed Fuel System			20030750 = 10 TU		
Labor Operation ³⁾ : Electric Fuel Pump Remove and Install			20661900 = 70 TU		
Causal Part:			3AA919673		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = XX TU max.			NO	
Road Test	01210002 01210004			YES	



Technical Bulletin

Technical Diagnosis	0132xxxx = 10 TU max.	YES
Claim Comment: Input "As per Technical Bulletin 2028931" in comment section of Warranty Claim.		
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Fuel Tank Replacement

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Passat	2012	2.0L (CKRA)	All	A3_CC000916	A3_CC025449
SAGA Coding					
Claim Type:			Use applicable Claim Type ¹⁾		
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
2010	0010	--		Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufacturer		Passat		YSV ²⁾	
Labor Operation ³⁾ : Fuel Tank Replace			20105550 = 50 TU		
Labor Operation ³⁾ : Fuel Tank Remove and Install			20101900 = 190 TU		
Labor Operation ³⁾ : GFF Bleed Fuel System			20030750 = 10 TU		
Causal Part:			561201055H		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = XX TU max.			NO	



Technical Bulletin

Road Test	01210002 01210004	YES
Technical Diagnosis	0132xxxx = 10 TU max.	YES
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4) Documentation required per Warranty Policy Procedures Manual.		

Required Parts and Tools

Part Description	Part No:	Quantity
Fuel Tank	561201055H	1
Fuel Sensor -G- Module	3AA919673	1

Tool Description	Tool No:
Torque Wrench	V.A.G. 1332 (or equivalent)
Engine/Gearbox Jack	V.A.G. 1383/A
Hose Clip Pliers	VAS 6362
Fuel Extracting Devise	VAS 5190
Fuel Extracting Devise Adaptor	VAS 5190/10
Wrench	T10202

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.