



Release date:

9/30/2019

### **Condition**

SportWagen

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta	2011-2014	2.0L TDI (CJAA)	All	All	All

Revision Table						
Instance Number	Published Date	Version Number	Reason For Update			
2026771/6	9/30/2019	21-15-06	To change labor operation number 21010135 to 21010199 per SAGA updates.			
2026771/5	8/14/2015	V211506	To remove engine cover labor operation contained in labor operation 21295533.			
2026771/1	11/16/2011	V211108	Original publication.			

Engine does not have any power and the engine warning light may be ON. One of the following DTC entries is stored in the engine control module.



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DTC	Description
09570, P2562	Turbocharger Boost Control Position Sensor "A" Circuit
09571, P2563	Position Sensor for Boost Pressure Controller has an Implausible Signal
09572, P2564	Signal is too Low of the Position Sensor for Boost Pressure Controller
09573, P2565	Turbocharger Boost Control Position Sensor "A" Circuit High
09574, P2566	Turbocharger Boost Control Position Sensor Circuit Intermittent
00665, P0299	Boost Pressure Control, Values are Below Control Limit
08408, P20D8	Exhaust Monitoring, Following Injection Regulation Limit Exceeded
00175, P00AF	Turbocharger/Supercharger Boost Control "A" Module Performance

### **Technical Background**

- 1. Vacuum Hose kinked, twisted or leaks.
- 2. Stud with clamp nut on Turbocharger broken/missing, or rotated Turbocharger housing. As a result the Turbine Adjustment Travel is outside the tolerance.
- 3. Vacuum Diaphragm on Turbocharger leaks.
- 4. Plastic Boost Pipe from Intake side of Turbo to Intercooler cracked/leaking.
- 5. Boost Hose connection to Intercooler leaking.
- 6. Check ECM Software level.

### **Production Solution**

Optimized assembly process to avoid twisted vacuum line.

Increase Compressor Housing washer thickness.

Change of material for Min. Flow Adjustment Screw.

Improved Vacuum Diaphragm with Charge Pressure Actuator Position Sensor - G581-.



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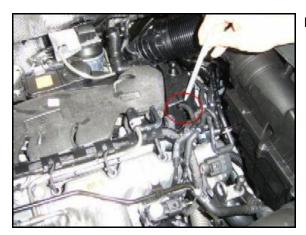
### **Service**

### Step 1

• Check the Vacuum System for any leaks according to the workshop manual, repair group 21.



When checking, observe the following points in particular (Figures 1, 2, and 3):



Hose not inserted into the Vacuum Container.

Figure 1



Figure 2

Vacuum Hose at the Solenoid Valve, or in the pipe system, is kinked.

 Re-position Hoses to avoid pinching. It is not necessary to replace the Hoses.



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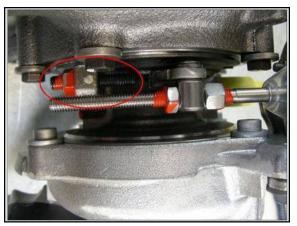


Vacuum Hose at the Solenoid Valve, or in the pipe system, is twisted.

 Re-position Hoses to avoid pinching. It is not necessary to replace the Hoses.

Figure 3

# Step 2 Turbocharger inspection may require the use of an inspection mirror



 Inspect the Turbocharger stud with clamp nut (min. flow adjustment screw) (Figure 4).

Figure 4



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• Inspect the Turbocharger to see whether the stud with clamp nut is broken (Figure 5).

Figure 5

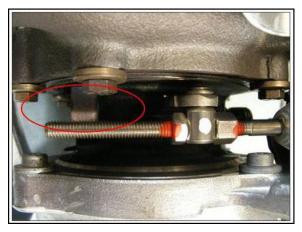


Figure 6

- Inspect the Turbocharger to see whether the stud with clamp nut is missing (Figure 6).
- If the stud or clamp nut are missing, replace Turbocharger.



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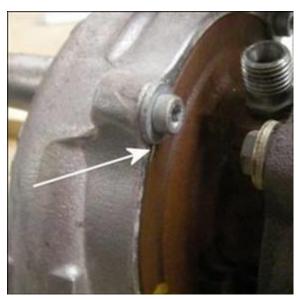


- Carefully inspect the Turbocharger Housing around the entire housing assembly for an alignment mark (Figure 7). If the alignment mark is misaligned, this indicates that the housing has rotated.
- If misaligned, replace Turbocharger.



Not all Turbocharger Housings have alignment marks present.

Figure 7



- Carefully inspect the Turbocharger Housing around the retaining bolts for witness marks (Figure 8), indicating that the housing has rotated.
- If witness marks are present from washers, replace Turbocharger.

Figure 8

### Step 3

- Disconnect the Vacuum Hose on the Turbo Charger Vacuum Diaphragm.
- Connect a Hand Vacuum Pump to the Vacuum Diaphragm and create a vacuum of about 600 MilliBar.
- Observe whether the adjusted vacuum is retained.

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### If the vacuum drops or cannot be achieved:

Install Vacuum Diaphragm with Charge Pressure Actuator Position Sensor - G581- part number
 03L198716A according to Repair Manual Group 21.

#### If vacuum holds:

And all other vacuum system diagnosis is OK, but fault codes P2563, and/or P2564 are stored in ECM fault memory, replace the Vacuum Diaphragm with Charge Pressure Actuator Position Sensor -G581-part number 03L198716A according to Repair Manual Group 21.

### If vacuum holds:

And all other vacuum system diagnosis is OK, but fault codes **P0299**, is stored in ECM fault memory, continue with diagnosis.



For the installation of the Vacuum Diaphragm with Charge Pressure Actuator Position Sensor -*G581*- use the special tools T10422A socket and T10461 spanner.



**<u>DO NOT</u>** replace the complete turbo charger if the Vacuum Diaphragm with Charge Pressure Actuator Position Sensor -*G581*- has failed.

### Step 4

 Inspect the Plastic Boost Pipe that runs from the intake side of the Turbocharger to the Intercooler for cracks or leaks (Figures 9 and 10).



These cracks can be difficult to see. It may be necessary to pressure test the Charge Air System according to Repair Manual Group 21.





Figure 9 Figure 10



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### Step 5



- Inspect the Boost Pressure Hose connections to the Intercooler for leaks.
- Ensure that the Seals are in the proper position and not damaged (Figure 11).
- Damaged or missing Seals should be replaced. The Seals are available separately, it is not necessary to replace the entire hose.



Pay close attention to this area if DTC P20D8 is recorded in ECM faults.

Figure 11

### Step 6

• Ensure that any other Bulletins or Updates for ECM software have been performed. <u>The software programming should be charged to the appropriate bulletin.</u>





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### Warranty



Multiple warranty tables may be claimed.

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
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2011-2014	2.0L TDI (CJAA)	All	All	All

### **SAGA Coding**

Claim Type:	Use applicable Claim Type 1)
Ciaiiii i ypc.	Ose applicable Claim Type

Service Number:		Damage Code	HST		Damage Location (Depends on Service No.)
2165		0010			Use applicable when indicated in Elsa (L/R)
•		G	Golf WWO <sup>2)</sup>		WWO <sup>2)</sup>
Parts Manufact	rts Manufacturer  Jetta, Jetta Sportwage		Sportwagen		3ME <sup>2)</sup>

	Jetta, Jetta Sportwagen		3ME <sup>2)</sup>
<b>Labor Operation</b> <sup>3)</sup> : Remove and Install 10831900 Engine Cover		10831900 = See	Elsa for latest time units.
Labor Operation 3): Inspect vacuum system (incl. route vacuum hoses correctly)		21650199 = 20 TU	
Causal Part: Select labor operation.		21650199	



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Diagnostic Time <sup>4)</sup>					
GFF Time expenditure	01500000 = 10 TU max.	YES			
Road Test	01210004 = 10 TU	YES			
Technical Diagnosis	01320000 = 00 TU max.	NO			

Claim Comment: Input "As per Technical Bulletin 2026771" in comment section of Warranty Claim.

- 1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only.
- <sup>2)</sup> Code per warranty vendor code policy.
- 3) Labor Time Units (TUs) are subject to change with ELSA updates.
- <sup>4)</sup> Documentation required per Warranty Policy Procedures Manual.

## 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
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2011-2014	2.0L TDI (CJAA)	All	All	All

### **SAGA Coding**

Claim Type:	Use applicable Claim Type 1)

Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)
2130	0010		Use applicable when indicated in Elsa (L/R)



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Parts Manufacturer	Jetta, Jetta Sp	ortwagen, Golf	KKK <sup>2)</sup>	
<b>Labor Operation</b> 3): Inspect turbocharger MIN flow adjustment stud and position of compressor housing.		21300199 = 20	ги	
Labor Operation <sup>3):</sup> Remove and Insta (ONLY if stud or nut are missing or if of housing has rotated).	•	21301981 = see	Elsa for latest time units.	
<b>Labor Operation</b> 3): Remove and Install Diesel Particulate Filter.		26741931 = see Elsa for latest time units.		
Causal Part:		03L253056		
	Diagnostic	Time <sup>4)</sup>		
GFF Time expenditure	01500000 = 10	TU max.	YES	
Road Test	01210002 = 10 TU		YES	
Technical Diagnosis	01210004 = 10 0 01320000 = 00		NO	
Claim Comment: Input "As per Technical Bulletin 2026771" in comment section of Warranty Claim				

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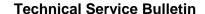
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All

<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only

<sup>&</sup>lt;sup>2)</sup> Code per warranty vendor code policy.

<sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates.

<sup>&</sup>lt;sup>4)</sup> Documentation required per Warranty Policy Procedures Manual.





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Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2011-2	2014	2.0L TDI (CJAA)	All		All	All
				AGA Coding			
Claim Type: Use applicable Claim Type 1)							
Service Nun	nber:		Damage Code	HST		Damage Location	
2130			0010			Use applicable w Elsa	
Parts Manu	ıfactureı		Jetta, Jetta Sp	ortwagen, Golf		KKK <sup>2)</sup>	
Labor Operation 3): Vacuum check Vacuum Diaphragm.			21290199 = 10 TU				
Labor Operatio	<b>n</b> ³) : Rep	lace '	Vacuum	21295533 = see Elsa for latest time units.			
Diaphragm with	Charge I	Press	ure Actuator				
Position Sensor	-G581						
Causal Part:				03L198716A			
			Diaç	gnostic Time <sup>4)</sup>			
GFF Time expe	nditure		01500000 = 10	TU max. YES			
<b>Road Test</b> 01210004 = 10		TU YES					
Technical Diagnosis 01320000 = 00		TU max. NO					
Claim Commen	Claim Comment: Input "As per Technical Bulletin 2026771" 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 Policy Procedures Manual.

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Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2011-2014	2.0L TDI (CJAA)	All	All	All

### **SAGA Coding**

Claim Type:	Use a	se applicable Claim Type 1)				
Service Number:		Damage Code	нѕт		Damage Location (Depends on Service No.)	
2141	0010				Use applicable when indicated in Elsa (L/R)	
Parts Manufactur	er	Jetta, Jetta Sp	ortwagen, Golf		SB6 <sup>2)</sup>	
Labor Operation 3): Remove and Install Engine Cover.		10831900 = see Elsa for latest time units.				
Labor Operation 3): C	heck (	Charge Air	21010133 = see Elsa for latest time units. (2009 Only)			
System for cracks or s	eal lea	ks.	21010199 = 70 TU			
<b>Labor Operation</b> 3): Remove and Install Noise Dampening Pan.		10821900 = see Elsa for latest time units.		or latest time units.		
Labor Operation 3): Remove and Install Pressure Pipe.			21411983 = see	Elsa fo	or latest time units.	
				·		

1K0145840AB

**Causal Part:** 



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Diagnostic Time 4)				
GFF Time expenditure	01500000 = 10 TU max.	YES		
Road Test	01210004 = 10 TU	YES		
Technical Diagnosis	01320000 = 00 TU max.	NO		

Claim Comment: Input "As per Technical Bulletin 2026771" in comment section of Warranty Claim.

- 1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only
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- <sup>4)</sup> Documentation required per Warranty Policy Procedures Manual.

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Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2010	2.0L TDI (CJAA)	All	All	All
Jetta Sedan, Golf, Golf Wagon, Jetta SportWagen	2011-2014	2.0L TDI (CJAA)	All	All	All

### **SAGA Coding**

Claim Type:	Use applicable Claim Type 1)

Service Number:	Damage Code	нѕт	Damage Location (Depends on Service No.)
2141	0010		Use applicable when indicated in Elsa (L/R)



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Parts Manufacturer	G	olf	WWO <sup>2)</sup>
	Jetta, Jetta	Sportwagen	3ME <sup>2)</sup>
<b>Labor Operation</b> 3): Remove and I Cover.	nstall Engine	10831900 = see Elsa for latest time units.	
Labor Operation 3): Check Charge Air System for cracks or seal leaks.		21010133 = see Elsa for latest time units. (2009 Only)  21010199 = 70 TU	
<b>Labor Operation</b> 3): Remove and Install Noise Dampening Pan.		10821900 = see Elsa for latest time units.	
<b>Labor Operation</b> 3): Remove and install Pressure Pipes (includes inspecting and or replacing seals).		21411982 = see Elsa for latest time units.	
Causal Part: Seal, Pipe, or Select	labor operation.	21411982	
	Diagnos	stic Time <sup>4)</sup>	
GFF Time expenditure	01500000 = 10	ΓU max.	YES
Road Test	01210004 = 10	U	YES
Technical Diagnosis	01320000 = 00	ΓU max.	NO

Claim Comment: Input "As per Technical Bulletin 2026771" in comment section of Warranty Claim.

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<sup>&</sup>lt;sup>2)</sup> Code per warranty vendor code policy.

<sup>&</sup>lt;sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates.

<sup>&</sup>lt;sup>4)</sup> Documentation required per Warranty Policy Procedures Manual.





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### **Required Parts and Tools**



Not all parts will be required for each repair.

### **ONLY USE PARTS AS NECESSARY.**

Part No:	Part Description	Quantity
Repair kit for Vacuum Diaphragm with Charge Pressure Actuator Position Sensor - <i>G581</i> -	03L 198 716 A	1
Exhaust Manifold with Turbocharger	03L 253 056-X	1
Pressure Pipe	1K0 145 840AB	1
Seal Ring	3C0 145 117H	1

Part numbers are accurate at time of publication. Always refer to ETKA for the latest part information.

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
Socket	T10422A
Spanner	T10461

### **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.