

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Jetta Sedan, Jetta Wagon, Jetta SportWagen, Rabbit, Golf, Golf Wagon	2009- <mark>2014</mark>	2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	All	All
Passat, Beetle, Beetle Convertible	2012- <mark>2014</mark>	2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	AII	All

Condition

15 14 03 October 10, 2014 **2032173** Supersedes T.B. V151301 dated January 2, 2013 to include model year 2014 applicability.

Camshaft Adjustment Valve 1 -N205- Diagnosis

One or more of the following fault codes may be stored in the ECM Fault Memory:

DTC	Description
P0011	"A" Camshaft Position (Bank1) Timing over-advanced or System Performance
P000A	"A" Camshaft Position Slow Response (Bank 1)
P052A	Cold Start "A" Camshaft Position Timing Over- Advanced

I Note:

DO NOT diagnose or replace components due to camshaft position faults **before** performing the repair procedure as outlined in this bulletin.

DO NOT diagnose or replace camshaft control valve **before** performing the repair procedure as outlined in this bulletin.

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Technical Background

Completing the GFF function test and performing basic settings on the camshaft adjustment valve are essential to diagnose proper operation and to avoid unnecessary replacements.

Production Solution

Optimized engine cleaning procedure in production.

Service

Note:

Test steps for this bulletin are written for diagnosis using Off-board Diagnosis Information System (ODIS). Though the tests performed will be the same, the process required to run the function tests may be different if VAS-PC is used.

Perform Guided Fault Finding test plan for N205 – Camshaft adjustment valve 1 to determine operation of valve

Importer Deuter Order	03999	VIN Engre	DVWDPTAJSDM368879 CBUA 2.5 L Motoric / 125 KW	-* X *)
Control modules	Orders DrSS 15	B Testplan Operation Special t	ectors		Operating mode	15
Tests in coment te	et plan	Manager Programmer			A Measureme	et.
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- Once ODIS has loaded, and the vehicle information has been updated, select the "Test Plan" top tab.
- Select either the "Select self test" button and locate the test plan for the "N205 -Camshaft adjustment valve 1," or utilizing the search button in the "Extras" drop down side tab, search for "N205" with the object type "Test" selected.
- Attach the "N205 Camshaft adjustment valve 1 (Rep.Gr.15)" test to the test plan list.
- Highlight the N205 Camshaft adjustment valve 1 test plan and select "Perform Test".

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inporter 444 Dealer 02999 Dider -	VIN Ergne	SVWLPTAJSCH468178 CBUA 2.5 L Motoric / 125 KW				
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Output Diagnostic Test Mode (01	M		. No.	C Part		
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- When the test starts, the Camshaft adjustment valve -N205- will be activated via the output diagnosis test mode, listen and/or feel for an audible "click" sound coming from the N205 adjustment valve.
- Answer on screen prompts.

Tip:

The audible "click" sound may be heard easier if the engine compartment is open

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ere card free the	DISS TSB Terrier Operation		Operating models
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Output Diagnostic Test Mode (07	n) or.	No	d then
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valuate DTC methody	 control module are OK, since it was activated via the output Diagnostic Test Mode (27M) 		🙀 Joho
ctivation of valve	Continue the function test anyway (wiring test)?		Queen 1
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Output Diagnostic Test Hinda (DT	0		Drai
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		2. Tools	-
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- If audible "click" noise <u>is</u> heard, the valve itself, wires and the control module are OK.
- If prompted to continue function test, select "No".
- Complete remainder of test plan.
- If audible "click" noise <u>is not</u> heard, continue Guided Fault Finding based diagnosis.

iTip:

If audible "click" noise is heard, the N205 Camshaft adjustment valve is operational, and basic settings must be performed to verify full functionality of the camshaft adjustment system.

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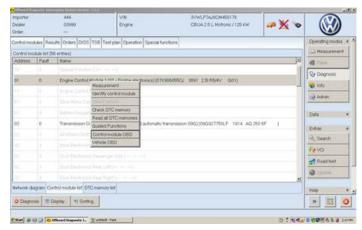
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Perform basic settings to verify proper functionality of N205 - Camshaft adjustment valve 1

Note:

The engine must be running at idle, with the transmission in the park or neutral positions, in order to perform the following procedure.



- Open the "Control modules" top tab.
- <u>Right click</u> on the engine control module in the control module list and select "Control module OBD."
- Select "Basic Setting".

- - × • Englie CBUA 2151, Mohonic / 125 on Special function oured value output without basic setting 4 Qr Dago Sea Joto RA 20 Test OF Date 64 50a A. 58 havo. T Hole 0 I-DTC VEH-ESP -0.5 26 at start at 20 10 10 ment the mente L. True
- Scroll through the function group selection list and select function group "94".
- Select "Read measured values" button.

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Control modules Results	Orders DISS TSB	Testplan Operation Special function	05	· · ·	Operating modes
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Function group selection					Q Dagross
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Read measured values	Executing				Help
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- Select "Basic setting" button.
- Simultaneously hold the brake pedal and press the throttle pedal to "wide open throttle" for the duration of the test.

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Control modulers	Results Orders DISS TS	B Test plan Operation Special fun	chors		Operating modes
01 - Engne Cont	rol Module 1 - [KWP200071	P20707K906055C27396917H063			Co Measurement
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98				- 5.0	
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01-DTC VEH-8	ESP OF -GES			×	*
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System status will be displayed when test is complete.

- If system <u>is</u> OK and vehicle has less than 5000 miles over all, or since last oil service, <u>do not</u> replace N205 -Camshaft adjustment valve 1. Clear fault codes, and perform road test to verify repair.
- If system <u>is</u> OK and has greater than 5000 miles over all, or since last oil service, <u>do not</u> replace N205 -Camshaft adjustment valve 1. Clear fault codes, change engine oil and filter, and perform road test to verify repair.
- If faults return, this technical bulletin does not apply. Continue Guided Fault Finding based diagnosis.
- If system is not OK, this technical bulletin does not apply. Continue Guided Fault Finding based diagnosis.

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Warranty

To determine if th Procedures Manu		dure is co	overed under Warr	anty, always refer	to the Wa	arranty Po	olicies and	
Model(s)	Year(s)		Eng. Code(s)	Trans. Code(s)	VIN Ran	ge From	VIN Range To	
Jetta Sedan, Jetta Wagon, Jetta SportWagen, Golf Wagon, Rabbit, Golf	2009- <mark>2014</mark>		2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	Δ	.II	All	
Passat, Beetle, Beetle Convertible	2012- <mark>2014</mark>		2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic	All		All	
				(AQ250)				
		r	SAGA	Coding				
Claim Type:		Use applicable Claim Type		1)				
Service Number:			Damage HST Code			Damage Location (Depends on Service No		
1584			0010				applicable when ated in ElsaWeb (L/R)	
Parts Manufacture	er		Golf, Rabbit, Passat		WWO ²⁾			
SportWage		SportWagen, Go	Wagon, Jetta olf Wagon, Beetle, 3ME ²⁾ Convertible		E ²⁾			
Labor Operation ³⁾ : Oil/Filter Change			17305599 = 50 TU					
Participating Dea				ers – Oil Program				
Regular Material:			See ServiceNet: SAGA Job Aids "Oil Part Pricing					
Synthetic oil part number G 052167S0, Qty. of 63			for SAGA Reimbursement"					

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Non-Participating Dealers – Oil Program					
Outside Material:		See ServiceNet: SAGA Job Aids "Oil Part Pricing			
Synthetic oil part number – S	SYNGOIL Qty. of 63	for SAGA Reimb	ursement"		
Causal: Select labor operation		17305599			
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = 25 T	U max.	YES		
Road Test	01210004 = 10 T	U	YES		
Technical Diagnosis	01320000 = 00 T	U max.	NO		
Claim Comment: Input "As p	er Technical Bulletin 20	32173" in commen	t section of Warranty Claim.		
¹⁾ Vehicle may be outside any	y Warranty in which cas	e this Technical Bu	Illetin 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 p	er Warranty Policy Proce	edures Manual.			

Required Parts and Tools

Part Description	Part No:	Quantity
Oil Filter	06D 115 562	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.

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