



# Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Jetta Sedan, Jetta SportWagen, Jetta Wagon, Rabbit, Golf, Golf Wagon	2009-2013	2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	All	All
Passat, Beetle, Beetle Convertible	2012-2013	2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	All	All

## Condition

15 12 04 Dec 21, 2012 2032173

### 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

### 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.

## 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.

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## Production Solution

Optimized engine cleaning procedure in production.

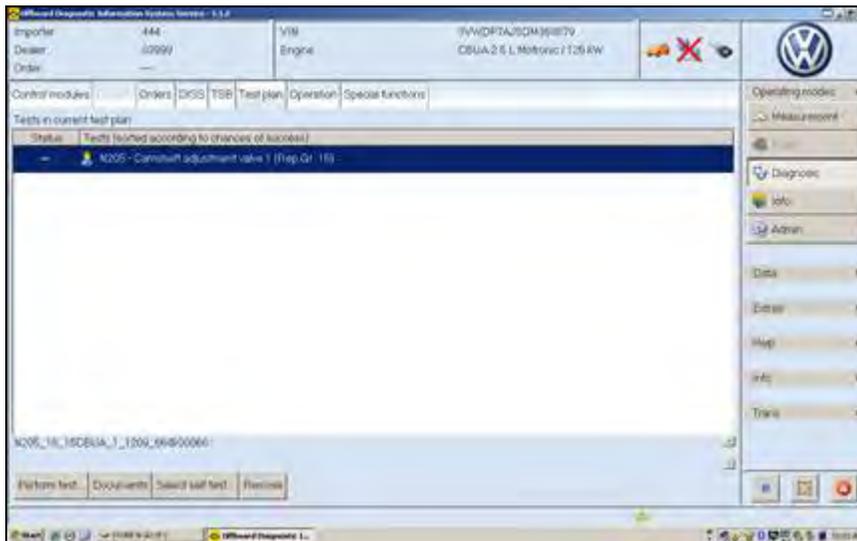
## Service



### Note:

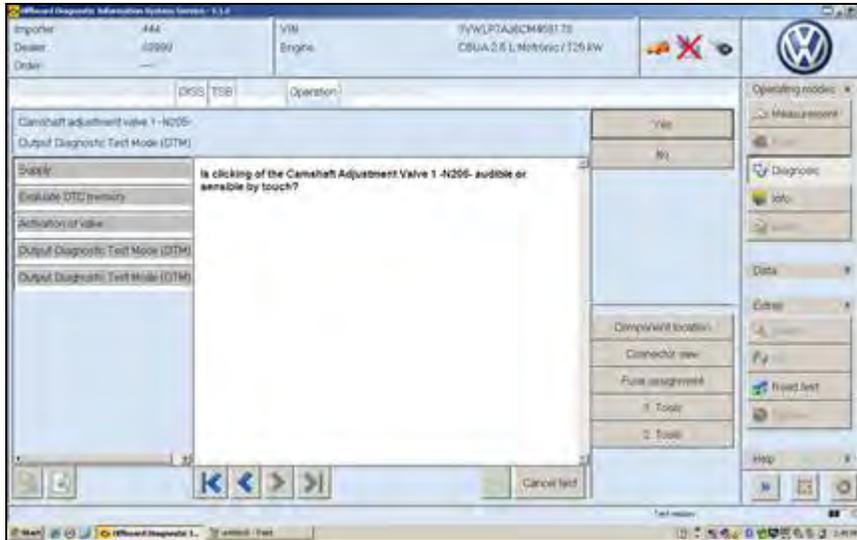
Test steps for this bulletin are written for diagnosis using Off-board Diagnosis Information System (ODIS). Though the tests performed will be the same, the process required to run the function tests may be different if VAS-PC is used.

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



- 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”.

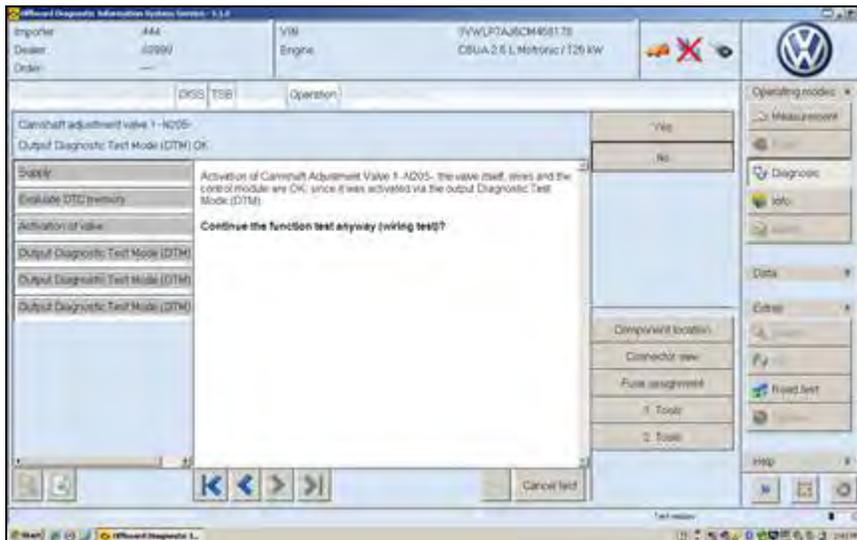
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- When the test starts, the Camshaft adjustment valve - N205- will be activated via the output diagnosis test mode, listen and/or feel for an audible “click” sound coming from the N205 adjustment valve
- Answer on screen prompts

 **Tip:**

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



- If audible “click” noise **is** 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 **is not** heard, continue Guided Fault Finding based diagnosis.

 **Tip:**

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.

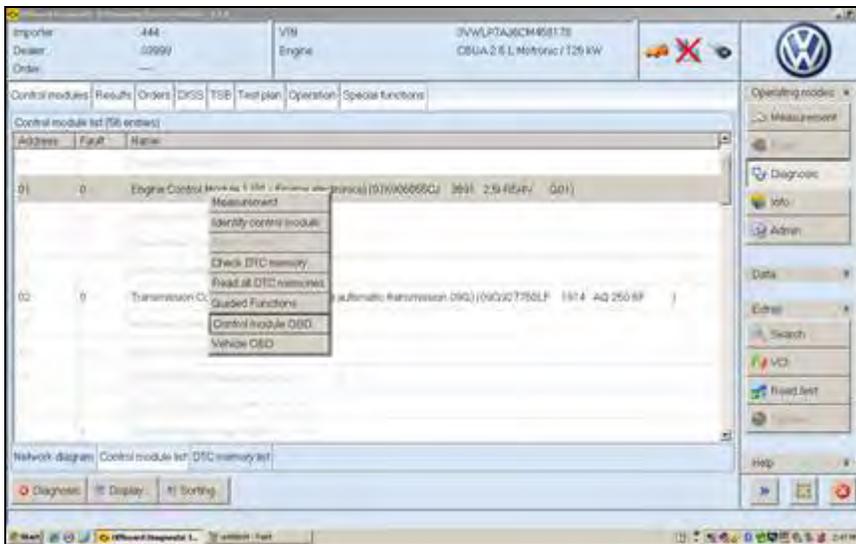
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## Perform basic settings to verify proper functionality of N205 - Camshaft adjustment valve 1

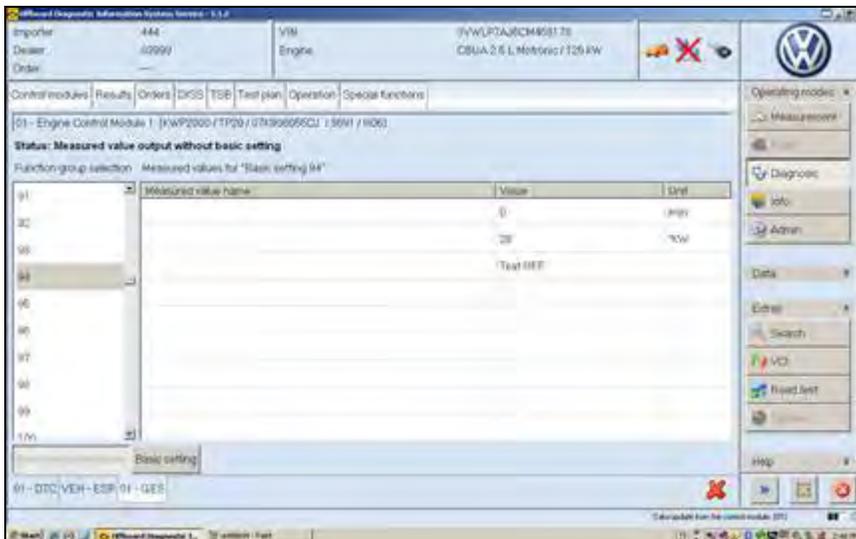


**Note:**

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

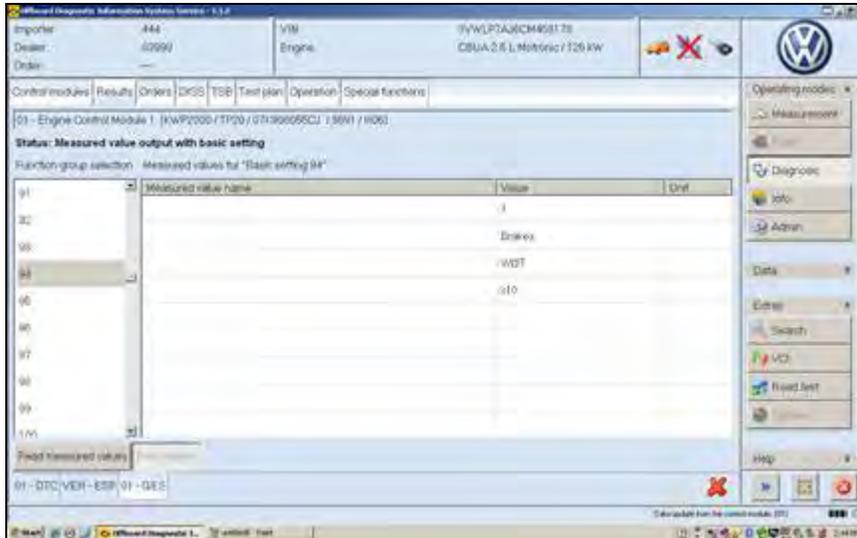


- Open the “Control modules” top tab.
- Right click on the engine control module in the control module list and select “Control module OBD.”
- Select “Basic Setting”.

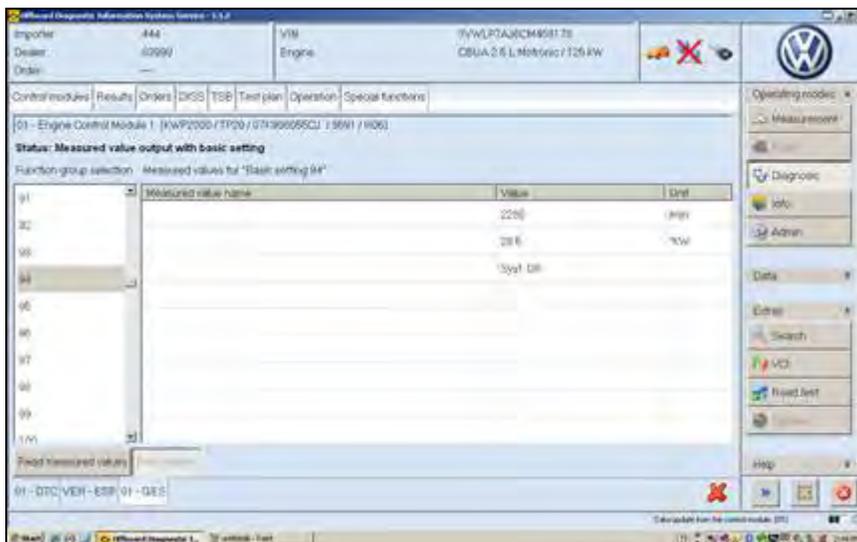


- Scroll through the function group selection list and select function group “94”.
- Select “Read measured values” button.

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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.



- System status will be displayed when test is complete.

- If system **is** OK and vehicle has **less than 5000 miles** over all or since last oil service, **do not** replace N205 - Camshaft adjustment valve 1. Clear fault codes, and perform road test to verify repair.
- If system **is** OK and has **greater than 5000 miles** over all or since last oil service, **do not** 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 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 Sedan, Jetta SportWagen, Jetta Wagon, Golf Wagon, Rabbit, Golf	2009-2013	2.5L (CBTA, CBUA)	5 spd Manual (MQ250) 6 spd Automatic (AQ250)	All	All
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<b>SAGA Coding</b>					
<b>Claim Type:</b>	Use applicable Claim Type <sup>1)</sup>				
<b>Service Number:</b>	<b>Damage Code</b>	<b>HST</b>	<b>Damage Location (Depends on Service No.)</b>		
1584	0010	--	Use applicable when indicated in ElsaWeb (L/R)		
<b>Parts Manufacturer</b>	Golf, Rabbit				WWO <sup>2)</sup>
	Jetta, Jetta SportWagen, Jetta Wagon, Golf Wagon, Beetle, Beetle Convertible				3ME <sup>2)</sup>
	Passat				TX6 <sup>2)</sup>
<b>Labor Operation <sup>3)</sup> : Oil/Filter Change</b>			03030099 = 50 TU		
<b>Participating Dealers – Oil Program</b>					
<b>Regular Material:</b> Synthetic oil part number G 052167S0, Qty. of 63			See ServiceNet: SAGA Job Aids “Oil Part Pricing for SAGA Reimbursement”		
<b>Non-Participating Dealers – Oil Program</b>					
<b>Outside Material:</b> Synthetic oil part number – SYNGOIL Qty. of 63			See ServiceNet: SAGA Job Aids “Oil Part Pricing for SAGA Reimbursement”		



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Diagnostic Time <sup>4)</sup>		
GFF Time expenditure	01500099 = 25 TU max.	YES
Road Test	01210004 = 10 TU	YES
Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2032173" in comment section of Warranty Claim.		
<p>1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p>2) Code per warranty vendor code policy.</p> <p>3) Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>4) Documentation required per Warranty Policy Procedures Manual.</p>		

## Required Parts and Tools

Part Description	Part No:	Quantity
Oil Filter	06D 115 562	1
<b>Participating Dealers – Oil Program</b>		
Oil, Synthetic	G 052167S0	6.3 Quarts
<b>Non-Participating Dealers – Oil Program</b>		
Oil, Synthetic	SYNGOIL	6.3 Quarts

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)
VAS Diagnostic Tool	VAS-PC, 5051B, 5052A, 6150X (Base CD V19.01.00 and Brand DVD V19.18.00 or higher)



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## 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.