

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Passat	2013	CKRA	All	All	All
Passat	2014	CKRA	All	All	All

Condition

26 14 01 March 06, 2014 2036531

MIL ON, DTC P204F Stored, Ad Blue Warning Light XXX Miles to No Restart Displayed

DTC	Description
P204F	Reductant System Performance Bank 1

Technical Background

Selective Catalytic Reduction (SCR) system diagnostic too sensitive.

Production Solution

Implemented in production.

Service

Note:

DO NOT diagnose or replace any parts **before** performing the update function as explained in this bulletin.

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Update-Programming Procedure:

🚺 Tip:

To Update-Programming using SVM, **review and follow** instructions in **Technical Bulletin Instance 2014603** "Software Version Management".

The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim.

INote:

Prior to launching the VAS-PC and ODIS service diagnostic applications and starting control module update process, confirm tester screen saver and power settings in accordance with Special Tools and Equipment - Service Information Circular # VVT-12-02. Failure to do so may result in the tester entering power save mode during data transfer, and subsequent control module failure.

When using a VAS 6150/5051B or VAS 5052A tester in conjunction with a VAS 5054A wireless transmitter head for a flash procedure, please connect a USB cable between the transmitter head and the tester. Failure to do so may lead to errors during the flash procedure.

VAS tools must only be used with their power adapters plugged in. Under no circumstances should they be used on battery power alone during the programming procedure.

<u>Critical Warning</u>: The Midtronics Battery Charger <u>must</u> be connected to the vehicle battery for the duration of the programming, to ensure the battery state of charge remains above 12.5 volts during the update process. If the battery drops below 12.5 volts, the programming could fail which may result in damage to the control module. Control modules damaged by inadequate voltage will not be covered under the warranty policy. The technician should verify the vehicle voltage prior to starting the update process, and should monitor the voltage for the duration of the update.

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• Update the Engine Control Module using the SVM Unit code as listed in the table below:

Model	Engine	Old Software Part No.	Old Software Version	New Software Part No.	New Software Version (or higher)	SVM Unit Code
Passat	2.0L TDI (CKRA) With DSG (02E)	03L906012BN	5558 4804 4608 4429 3379 2995 2591	03L906012BN	7638	35F3
Passat	2.0L TDI (CKRA) With Manual (02Q)	03L906012BM	5557 4824 4607 4428 3378 2996 2592	03L906012BM	7637	35F3
Passat	2.0L TDI (CKRA) With DSG (02E)	03L906012DE	6073 6050 4480	03L906012DE	6459	35F3
Passat	2.0L TDI (CKRA) With Manual (02Q)	03L906012DD	6072 6049 4479	03L906012DD	6458	35F3

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The procedure can be found in GFF under Functions/ Component Selection, Software Version Management, Adapting Software.

Radiator Fan(s) may cycle ON high speed during the Update Process! There is a risk that personal injury may result if contact is made with spinning fan blades.

Keep hands and all objects away from Radiator Fan(s) during Update Process!

ітір:

The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim or action is carried out that is not explicitly stated in the Technical Bulletin.

Ensure attached ECM/TCM Tuning Form has been completed and signed by customer as required in SVM Technical Bulletin Instance 2014603.

After updating the ECM software, the Ad Blue warning lamp may still be illuminated. If the Ad Blue warning lamp is still illuminated with the message "No engine start possible in XXX mi.", a Selective Catalytic Reduction (SCR) efficiency test must be run in order to clear the message.

The following steps will allow the SCR Efficiency test to run and clear the message in the cluster display.

iTip

If the test is cancelled because of low ambient temperatures or the time-out of the system, restart the process again as the failed attempt should have warmed up the system enough to be successful on a subsequent attempt.

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Importer: Dealer Order:	444 03999	VIN Engine	X00000000000000000 CKRA 2.0 L TDFCR / 103 KW		C	D
Control modules	Orders DISS T	SB Test plan Operation Special fu	nctions		Operating mo	des #
Network diagram					O Diagnose	• · · · ·
					(B) Set Day	nosisi
		100,00 GET,02 MIT 11	AR,15		Cont Cont	
					Measurer	ment
		MO'32 [840'03	Col/m		😭 Info	
	00_19	1FA_42 MORE TO LARE M	9CH_17 TBF_52 KLH_08		Admin	
		2/5.05 LXV.28 E22_#	625,00 5vF_36		Log	
		MAY,32 100,42 110,77	M97,22		Data	3
		10,56 RTD_IF TVT_D	sale, vo		Extras	
12 Q Q 0	1		iound System		Help	
Network diagram Co	ontrol module list DTC	memory list Equipment list			Info	
O Diagnosis 🛞	Deplay N Soring				>> E	2 O
				0		

Figure 1

- Read out the DTC memories (figure 1).
- Select the MOT_01 and double click.

K	S OBD functions
11 100	Engine Control Module 1
	Adaptation Code Code Bus master
	DTC memory
	Basic setting Identification Measured values Output diagnostic test mode Access authorization
	Perform Cancel

Figure 2

• Chose the DTC Memory and press "Perform" (figure 2).

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Constant d'oragina	are reconnection s	falsa sarata - 2.0.0.									
Importer:	444	à	VIN.				1		(1)	\mathbf{N}	
Order	-		Engine.						W.	V	
Control modules	Results Orde	rs DISS TS8 Tes	t plan Operation 5	Speci	ai fu	nctions		1			1
01 - Engne Cor	trol Module 1 (UDS/ISOTP/08L	06012BN / 6658 / 1	Y117	EV,	ECM20TDI01103L906012BN / 004007)	ng -			0	
Incident code	SAE code	Incident text				8	tive	6	Update		
05049	P204F00	Reductant System	n Performance Ban	K 1			x		Now		
[zuoo3]									a cyrdic		
Type / Name		Value		1	B	Value		•	2		
= EC					0	active/static			Sort		
Incident	code	05049 (20553)			1	Mailunction has not occurred in current operating cycle			Date	*	
Priority		2			2	Malfunction in current or last driving cycle detected			Erase		
Malfuncti	on frequency o	or 1			3	Confirmed			OTC millio		
Unieamir	ng counter	265			4	Tested since erasing DTC memory			OSD system	ns	
Odomete	r reading	8,618 km			5	Malfunction occurred since erasing DTC memory				_	
Date		18:27:17 - 29:01 :	2014 (08.14.10)		6	Not tested in current operating cycle					4
= MV				*	7	One or more warning displays on					T
01 - DTC										*	0
V ECHONTENHERR IN	APCTRAL/MAX					0				10000	-

Figure 3

- A list of the DTC's is displayed (figure 3).
- Delete the P204F fault code by selecting the erase function for "OBD systems" (highlighted).
- Cycle the ignition OFF and ON again after completing the DTC memory erase.



incaster d	4.4	T. O.M.					-		
Dealer 0	1990	Econo			CKBA 2.0.1 TDLCR (101kW	a X S		\mathbf{N}	
Order -	-	Conge Mr.			GROWEN E FER GREETEN BRIT	~ ~ ~		۶	
Control modules Results	Orders DISS TSB Te	est plan Operation	Specia	í functio	ns		1		
01 - Engine Control Module	I (UDS/ISOTP/03	L9060128N/5558/	/Y11/E	V_ECH	(20TDI01103L906012BN / 004007)	Bank setting		0	
Incident code SAE cod	se incident text					active 1	6 Update		
05049 P204F00	Reductant Syste	em Performance Ba	nk 1			×	Now		
[20663]							C over	-	
Type / Name	Value		-	B Val	ue .		2	14	
= EC				0 acts	ve/static		Sort		
Incident code	06049 [20663]			1 Mad	function has not occurred in current oper	ating cycle	Date	*	
Priority	2			2 Mail	function in current or last driving cycle de	lected	Erase		
Malfunction frequen	icy coi 1			3 Con	dimed		DTC menor		
Unlearning counter	265			4 Tes	ted since erasing DTC memory		OBD system	6	
Odometer reading	8.618 km			5 Mat	function occurred since erasing DTC me	noty	-		
Date	182717-29.01	1.2014 (08.14.10)		6 Not	tested in current operating cycle				
= MV				7 One	e or more warning displays on				T
and a second								-	
01 - DTC								26	6

Figure 4

• Select Basic Settings from the dropdown box in the upper right and click the green arrow (figure 4).

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Offboard Diagnosti	c Automation System Service	- 2.0.01					6	- 2
Importer. Dealer Order	444 03999 	VIN Engine		x0000000000000000000000000000000000000	<i>∞</i> X ∞	C	D	
Control modules	Results Orders DISS T	SB Test plan Operation Spe	cial function	16				
01 - Engine Contr	ol Module 1 (UDS/ISOT	P/03L9060128N/5558/Y11	/EV_ECH	20TDI01103L906012BN / 004007)	Adaptation	R	0	
UDS basic settin	gs - Basic settings sele	ction						
Name				Selection				
Test of the plaus	billy of the ar mass mete	e		Check of SCR efficiency				
Transfer Fuel Pu	mp (FP) test		1					
SCR metering qu	uantity test		-					
Automatic test se	equence		>					
Turbocharger tes			1				\mathbf{x}	
Reset after repla	cement of mass airflow s	insor						
Resetting of lear	ned values of particle filte	(*					
Resetting of lean	ned values of difference of	ressure sensor	40					
Filter							M	*
						<	>	
01 - DTC 01 - GE	5						*	0
EV_ECINIZATION TRAD. NO.	1288 / 894				0			

Figure 5

• Select "Check of SCR efficiency" from the list and click the blue arrow (figure 5).

Ollboard Diagnost	tic Information System Service	-2.0.0.1				
Importer. Dealer Order	444 03999 	VIN Engne		X00000000000000000 CKRA 2.0 LTDI-CR / 103 KW	<i>∞</i> ¥ ∞	
Control modules	Results Orders DISS T	SB Test plan Operation Sp	ecial functions			
01 - Engine Cont	trol Module 1 (UDS / ISOT	P/03L906012BN/6558/Y1	1/EV_ECM20	TDI01103L906012BN / 004007)	Adaptation	
UDS basic settin	ngs - Set parameters					
Check of SCR 6	riticiency	Para	motors	Value		Unit
				[VO]_not available		
<u></u>						*
Default paramet	ers					
01 - DTC 01 - GE	ES					80
	0012000 / 004				0	

Figure 6

• A list of applicable parameters are displayed. In this case, there are none. Click the blue arrow (figure 6).

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Importer:	444	VIN		x00000000000000000		6		
Dealer	03999	Engner		CKRA 2.0 L TDI-CR / 103 kW	a 🗙 💊	()	1	
Order:	-					6	9	
Control modules	Results Orders DISS T	SB Test plan Operation Spec	ial functions					
01 - Engine Cont	trol Module 1 (UDS/ISOT	P/03L9060128N/5558/111	EV_ECH2	0TDI01103L906012BN / 004007)	Adaptation	R	0	
UDS basic settin	ngs - Select measured vi	lues						
Name			1	Selection			Ê.	
[IDE00451]_Out	mently running routine			[IDE00322]_Status of basic setting				
[IDE00784]_Cur	ment test step		33	DE00450LOperating Instructions				
[IDE00000]_Sta	atus of actuator test							
IDE00727LTes	st steps stil to be performe	d	>				*	
[IDE00787]_Ca	use for cancellation		<				×	
[IDE00323]_Sec	ourity Access: Number of in	walid keys						
IDE00076LSta	stus of initial fuel filling							
1								
Filter			_					*
						<	>	
01 - DTC 01 - GE	ES.						8	0
V ICHARTONIAN NO	07200 / 004				0			1

Figure 7

- Select the first 2 measured values to be displayed during the test: "status of basic setting" and "Operating Instructions" (figure 7).
- Click the blue arrow.



	tic Automation System Service	-2.0:0,-1			
Importer Dealer Order	444 03999	VIN Engine	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<i>∞</i> X ∞	
Control modules	Results Orders DISS T	58 Test plan Operation Special	I functions		
01 - Engine Cont	trol Module 1 (UDS/ISOT	P/03L9060128N/5558/111/E	EV_ECM20TDI01103L906012BN / 004007)	Adaptation	
UDS basic settin	ngs - Status: not active				
Basic settings					
Name			Value	F	
a second second		And a characteristical			
Measured values	E				
Name			Value		-
Name (MAS0019	94]_		Value was not	yet started	-
Name [MAS0019 = [IDE00450]_(941_ Operating Instructions		Value was not	yet started	
Name [MAS0019 = [IDE00450]_0 [MAS0019	94]_ Operating Instructions 94]_		Vatue was not	yet started	
Name [MAS0019 = [IDE00450]_0 [MAS0019	94L Operating Instructions 94L		Vatue was not	yet started	
Name [MAS0016 = [IDE00450]_0 [MAS0016 Start 1//et 51	94L Operating Instructions 94L sep Stop all		-Value was not	yet started	, H «
Name [MAS0014 = [IDE00450]_0 [MAS0015 Start] West St 01 - DTC 01 - GE	94L Operating Instructions 94L 100 Stop all ES		-Value was not	yet started	× × ×

Figure 8

- Ensure at this step that the engine is running and already at operating temperature (figure 8).
- No pedals are pressed, transmission is in "P", emergency brake is engaged, all doors and hood are closed
- No pedals are touched
- Press "Stop all"
- · Scroll down the screen to see the instructions and the status in the value field
- Select the test "Check of SCR efficiency"
- Press "Start"

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THE REPORT OF	444	3.046				
Dealer	00000	VIN.	CKRA 201 TDLCD 1101HU	A X S	(N)	2
Dentarin Dentari	-	Engline.	GRAZUE (DIGRATIONA)	··· × •		9
ontrol modules	Results Orders DISS TS	SB Test plan Operation Specia	a functions	-A		
01 - Engine Cont	trol Module 1 (UDS / ISOTI	P/03L906012BN/6558/Y11/8	EV_ECM20TDI01103L906012BN / 004007)	Adaptation	~	0
UDS basic setti	ngs - Status: active					
Basic settings						
Name			Valu	0		
IIDE047921	Check of SCR efficiency (N	VOL not available)				
Measured values	1					
Measured values Name	i		Value		*	
Measured values Name [MAS001	94)_		Value is runni	19	*	
Measured values Name [MAS0011 # [IDE00450]_	94L, Operating Instructions		Value is runni	19	1	
Measured values Name (MAS001) # (IDE00450)_ (MAS001)	94]_ Operating Instructions 94]_		Value is runni Hold br	ng ake pedal and accelerator pe	ся (M
Measured values Name [MAS0011 # [IDE00450]_ [MAS0011	94]_ Operating Instructions 941_		Value is runn Hold br	ng ake pedal and accelerator pe	e a	N
Measured values Name (MAS0014 IDE00450[_1 (MAS0011 Start) Start St	s 94[_ Operating Instructions 94[_ top Stop all		Value is runni Hold br	ng ake pedal and accelerator pe	da _ (2
Measured values Name [MAS0011 # [IDE00450]_1 [MAS0011 Start] Start] Star	s 94L_ Operating Instructions 94L_ top Stop all		Value is runni Hold br	ng ake pedal and accelerator pe	а в в в в	M >
Measured values Name [MAS001/ # [IDE00450]_ [MAS001/ [MAS001/ Start] 1 and [St 11 - DTC 01 - G1	s Operating instructions 94[_ top Stop all ES		Value is runni Hold br	ng ake pedal and accelerator pe	° ↓ kb	N > %

Figure 9

• The instructions should display "Hold brake and accelerator pedal" (figure 9).

Depress the brake first, then the accelerator pedal.

Keep the pedals depressed until the status changes from "is running" to complete. The duration of the test depends on how quickly the exhaust gas can heat up.



Ollboard Diagnostic	allohormation System Service	- 2.0.0,-1				
Importer:	444	VIN.	20000000000000000000000000000000000000	ax s	N	1
Order	-	Colden.	CONVERTING AN INCOMP	A •		/
Control modules	Results Orders DISS T	SB Test plan Operation Special	i functions			
01 - Engine Contr	ol Module 1 (UDS/ISOT	P/03L906012BN/6558/111/E	EV. ECM20TDI01103L906012BN / 004007)	Adaptation		0
UDS basic settin	gs - Status: active					_
Basic settings						
Name	Name Value					
IDE047321_0	heck of SCR efficiency (VO[_not available)				
Measured values						
Name			Value			
[MAS0019	4L_		is runnin	9		
= [IDE00450]_C	perating Instructions					
IMAS001941			Hold bra	ke pedal and ancelerator pedal	16	a 🗕
Postantia	"he		1.1910.015	in press a second of press		*
Start Next Sto	p Stop at				< >	
01 - DTC 01 - GE	s				8	6 0
	1288 / 894			Optim natio/hearined value	w (5031)	(33) 4

Figure 10

- If an error occurs, press the red "X" to close the test procedure. Cycle the ignition and try the test procedure again (figure 10).
- If, after the test is complete and the AdBlue warning light is extinguished but the MIL lamp remains, delete the DTC memory again.

1Тір

If the test is cancelled because of low ambient temperatures or the time-out of the system, restart the process again as the failed attempt should have warmed up the system enough to be successful on a subsequent attempt.

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Warranty

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	2013-2014	2.0L TDI (CKRA)	All	All	All				
SAGA Coding									
Claim Type:			Use applicable Claim Type ¹⁾						
Service Number:	Damage Code		HST	Damage Location (Depends on Service No.)					
2360	0039			Use applicable when indicated in ElsaWeb (L/R)					
Parts Manufacturer Pas			sat	TX6 ²⁾					
Labor Operation	³⁾ : Update Progran	nming	23602599 = 15 TU						
Labor Operation (if necessary)	³⁾ : SCR Efficiency	Test	23602699 = 40 TU						
Causal Part: Select Labor Operation			23602599						
Diagnostic Time ⁴⁾									
GFF Time expend	liture	01500000 = 30 TU max.		YES					
Road Test		01210002 = 10 TU with repairs		YES					
Technical Diagno	sis	01320000 = 00 TU max.		NO					
Claim Comment: Input "As per Technical Bulletin 2036531" 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.

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⁴⁾ Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

No Special Parts required.

Tool Description	Tool No:		
Midtronics Battery Tester/Charger	InCharge 940 (INC-940)		
VAS Diagnostic Tool	VAS 5051B, VAS 5052A, VAS 6150/X & VAS 6160/X with:		
	ODIS Service 2.0.0 or higher 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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