

SB-10056907-4435

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Passat	2012	2.0L TDI (CKRA)	All	A3_CC000001	A3_CC9999999
	2013	3.6L (CDVB)		A3_DC000001	A3_DC999999
	004.4	1.8T (CPKA)		42 5000004	A2 E0447400
	2014	1.8T (CPRA)		A3_EC000001	A3_EC11/129

Condition

48 14 05 October 13, 2014 2038621

Update Programming Electromechanical Steering Gear

A pulling sensation may be perceived in the steering wheel while driving on flat roads. Be aware that road crown can have a significant impact on the customer's perception of a pulling sensation while driving.

Note:

This bulletin only applies to vehicles with an electromechanical steering rack.

This update should be performed before any additional repairs are made to the vehicle; such as TSB 2031087 for selective tire placement or a vehicle alignment.

The condition of the vehicle should be re-evaluated after the programming update to determine if additional diagnosis is necessary.

Technical Background

A new software map for the power steering control module was developed to reduce the retention force necessary to keep the vehicle driving straight ahead.

Note:

Be aware that vehicles tend to follow the natural crown of the road. Road crown can have a significant impact on the customer's perception of the pulling sensation while driving.





Depending on the vehicle owner's state of residence, the road crown direction and angle may vary.

DO NOT remove your hands from the vehicle steering wheel while test driving.

Production Solution

Vehicles in production are being produced with the updated map in the power steering control module as of VIN: 1VWBS7A39EC117129.

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Service

Update-Programming Procedure:

Note:

Prior to launching the 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/X or 6160/X 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.

Step 1

To perform the procedure click on the control module tab in the upper left hand portion of the screen once all control modules have been identified.

S Criticard Dia	grandic Informati	ion System Service - 22.1		and the second se	and the second s	GENERAL MAL		
Importe Dealer: RO:		444 03999 	VIN: Engine:	1VWBN7A39EC088674 CKRA 2.0 L TDI-CR / 103 kW	an 🛃 🍗			
Control mod	ules	Orders DISS TS	8 Test plan Operation Special P	unctions		Tre see		
Control mo	dule list (30 e	ntries)				Protect		
Address	Incident	Name				DOM DOBS		
28	0	Steering Column	n Locking (28 - Electronic steering	column lock) (5K0905861C 0240 (ELV-PQ35)				
7E	0	Media Player Po	usition 3 (Not yet identified) (-)				
36	0	Seat Adjustment	(Driver Side (Not yet identified) (Edras •		
37		Navigation (37 -	Navigation (37 - Radio and navigation system RNS315 NAR) (1K0035274K 0410 RNS315 NAR)					
30	0	Lane Change As	Lane Change Assistant (Not ynt identified) ()					
42	0	Door Electronics	Door Electronics Driver Side (42 - Driver door electronics) (561959701 0525 TUER-SG FT)					
44	0	Steering Assista	nce (44 - Steering assist electro	mech. (eff-hand drive)) (1K0909144R 3501 EPS_ZFLS	KI. 290)	Info A		
47	0	Sound System (Nat yet identified) ()						
4E	0	Central Electrics	2 (4F - Vehicle electrical system c	control module 2) (7N0907532 1642 EZE_2)		Versions		
Networking	diagram Co	ntrol Module List DT	C memory list Equipment list			1 Dangerl		
O Diagno	us 🔄 Disp	lay N Sorting				> 🛛 🗿		
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Step 2

Select address 44 for steering assistance and right click. Select the guided functions button.

Nealer; RO:	6	13999 	Engine:	CKRA 2.01	L TDI-CR / 103 kW	an 🛃 🗞	(
Control modi Control mod Address 01	ules Results tule list (30 er Incident 0	Orders DISS TSB nttes) Name Engine Control Me	Test plan Operation Special Fe	Measurement	OLEDC)		Extras	ich mostic interfa	*
61 02 42	0 0 0	Battery Regulation Transmission Cor Door Electronics (r (Not ynt identified) (~) trol Module (02 - 6-speed direct s Driver Side (42 - Driver door elect	Identify control module Select version Check DTC memory Read all DTC memories	62B 4020 GSG DSG AG6 TUER-SG FT)	521)	Road	3 Test nection Test	
52 13	0 1 0	Door Electronics F Brakes 1 (03 - An Adaptive Cruite C	Passenger Side (52 - Passenger (Hock brake system) (1K0907379 ontrol (Not yet identified) (Guided Functions Control module OBD Vehicle OBD	2 0525 TUER-SG BT)		Help	te Help	
64 05	0	Steering Assistan	ce (44 - Steering assist, - electro-r ntfied) ()	nech, (en nand drive)) (i k	0909144R 3501 EPS_ZFL	S KL 215)	Info		¥
 Diagnos 	diagram Cor	ay Module List DTC	memory list ±quipment list				Trace	E	3

Step 3

Then select the online curve characteristic download. Follow the steps specified by the tester to perform the characteristic curve update.

Importer: Dealer: RO:		444 03990 	VIN: Engine:	1VWBN7A39EC0 CKRA 2.0 L TDI-C	88674 :R / 103 kW	an 🛃 🍗)
Control mod	ules	Orders DISS TS	SB Test plan Ope	ration Special Functions			(S. Sent	
Control mo	dule list (30 e	ntries)	1 1	Coulded Functions		1	Hottx	-
Address	Incident	Name		Steering Assistance		1	Download	
28	0	Steering Colum	in Locking (2B - El	44 - Basic setting steering angle sensor -G85 (Rep	.Gr. 48)			
2E.	0.	Media Player P	osition 3 (Not yet it	44 - Reading measured values (Rep. Gr, 48) Mobility assistance conversion				
36	0	Seat Adjustmen	t Driver Side (Not	Online characteristic curve download Right adaptation characteristic			Extras	*
37	-	Navination (37	Radio and naviou	Startup, work after replacement			Help	
		Lange Changes	and a second			1	Online Help	
Ē		Lane charge r	densitierin fostet Art e	Perform	Cancel		Support	
42	0	Door Electronic	s Driver Side (42 -	Semantic Concernation				
44	0	Steering Assist	ance (44 - Steering	assist electro-mech. (left-hand drive)) (1K0909144R	3501 EPS_ZFLS	0.290)	Info	
47.	0	Sound System	(Not yet identified)	()			IN New	
4F	0	Central Electric	s 2 (4F - Vehicle el	ectrical system control module 2) (7N0907532 1642	EZE_2)		Sersions	
Networking	diagram Co	ntrol Module List D	TC memory list Eq	ulpment list			1 Dangerl	
O Diagnos	sis 🗵 Disp	lay 1 Sorting	e la				>	0
						0		

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Once the update is completed the system name in address 44 should be changed to one of the following based on the chart below.

Suspension PR-Code	Old System Name	New System Name	
L01	EPS_ZFLS KI 288	EPS_ZFLS KI 211	
L02	EPS_ZFLS KI 290	EPS_ZFLS KI 215	
L02	EPS_ZFLS KI 290	EPS_ZFLS KI 215	
L02	EPS_ZFLS KI 290	EPS_ZFLS KI 215	
1.03	EBS ZELS KL290	EPS ZELS KL 215	
	Suspension PR-Code L01 L02 L02 L02 L02 L03	Suspension PR-CodeOld System NameL01EPS_ZFLS KI 288L02EPS_ZFLS KI 290L02EPS_ZFLS KI 290L02EPS_ZFLS KI 290L03EPS_ZFLS KI 290	

Note:

The control modules will have to be re-identified before the update will be visible.

Example of old system name

nporter: lealer: IO:		444 03999 	VIN: Engine:	1VWBS7A34EC082953 CPKA 1,8I Matronic / 125kW	<i>∞</i> X ∞)
ontrol mod	ules House	Orders DISS TSB Tes	t plan Operation Special Function	5		Operating mo	ides #
control more	sule list (30 en	tries)				Q Diagnosis	5
ddress	Incident	Name			ä	(a) com	
1	0	Engine Control Module	1 (01 - Engine electronics) (06K90	6070H 6866 Simos12.2)		a new	_
1	0	Battery Regulation (No	t yet identified) ()		1	O Meaniner	ment
2	0	Transmission Control M	Adule (02 - Gearbox electronics) (6	9G927749B 2658 AISIN AG6 G3)	-		in the second
2	0	Door Electronics Drive	Side (42 - Driver door electronics)	(561959701 0525 TUER-SG FT)		Trifo	
12	0	Door Electronics Pass	enger Side (52 - Passenger door ek	ectronics) (561959702 0525 TUER-SG BT)		Sig Admin	
03	0	Brakes 1 (03 - Anti-loci	brake system) (1K0907379BM 0	164 ESP MK60EC1)		Log	. *
1	0	Adaptive Cruise Control	I (Not yet identified) ()			Data	
4	0	Steering Assistance (4	4 - Steering assist electro-mech. (left-hand drive)) (1K0909144R 01 EPS_ZFLS	K0. 290)		
5	0	Kessy (05 - Access an	d start authorization) (5K09594348	1101 VWKESSYPQ35GP)		Extras	
etworking	diagram Con	erol Module List DTC mer	nory list Equipment list			Help	
Diagnos	ins 🖾 Displ	ey N Sorting				>	0

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Example of new system name

realer:		03999	Engine:	CPKA 1,8 Motronic / 125kW	an 🛃 😿		
0:	a la si		and a la man			E	
onerol mod	ules Hesuits	Orders DISS TSB T	est plan Operation Special Functions	6			
ontrol mos	sule list (30 en	tries)			24		
ooress	Incident	Name Essie Control Mode	4 1 (A) F		1	Concerning and	
1	0	Engine Control Modu	le 1 (01 - Engine electronics) (06K906	070H 6866 Smas12.2)		G Paul restory	
1	0	Battery Regulation (%	lot yet identified) (
2	0	Transmission Control	Module (02 - Gearbox electronics) (0	9G9277498 2658 ALS/N AG6 G3)	-	Data	
2	0	Door Electronics Driv	er Side (42 - Driver door electronics) (561959701 0525 TUER-SG FT)		Current View	
0	0	Dev Electronicy December Side (5), December dev electronicy (681960302, 0526, THED.50 DT 1					
						Diagnostic Session	
0.	0	Brakes 1 (03 - Anti-lo	ck brake system) (1K0907379BM 01	64 ESP MR00ECT)		to stop	
3	0	Adaptive Cruise Cort	real (Not yet identified) ()		- C-1	C. Toyott	
4	0	Steering Assistance (44 - Steering assist electro-mech. (k	eft-hand drive)) (1K0909144R 301 EPS_ZFLS K	0.215)	Hoto	
6	0	Kessy (05 - Access a	nd start authorization) (5K09594348	1101 VWKESSYPQ36GP)		Download	
	_	1 See			<u>.</u>		
etworking	diagram Con	trol Module List DTC me	emory list Equipment list				
Diagno		W_ Sorting				3 12 0	
- Lingitz		de la constant					

Note:

After performing the update a fault may be stored in address 03 (Brakes) for the Tire Pressure Monitoring Control Module. Clear that fault and then re-check to make sure no new DTCs are present.

C Officiand Diagnositic	Information System Service - 2.2.3		Contraction of the Contraction o	Statements of the second second	March House	(i) = -1.
Importer: Dealer: P/C	444 03100	VIN: Engine:	TVWCM7A35EC115781 CDVB 3.6 L Motionic / 206kW	an 🛃 🍗)
Control modules	Orders DISS TS	8 Test plan Operation Special Fur	ctors		Operating mod	les #
Tests in current te	est plan		22.24		Diagnosis	
Status Te	sts (sorted according to chu	ances of success)			di ono.	
· = 🗆	03 - The pressure monitor	ng display (Rep. Gr, 45)			e	
_	0 03 - Brakes 1				0.000	
	1325 4 Tire Pressu	re Monitoring Control Module (No si	gnal/communication static)		CL3 Measurem	ent
E	75 Important Information	1			🗑 Info	
-					(@ Admin	
					Log	
					Bave Save	-7
					D Print	
					Diagnostic Log	
					Send Send	-
SYS45_A3	1_0710_66_Rellendnuckwa	mung_ESP@00011			Copy	
Perform test	ocuments Remove Sele	ct self test			*	0
The disgroundic entrance is	es andret					

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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	e From	VIN Range To	
Passat	2012		2.0L TDI (CKRA)	All	A3_CC000001		A3_CC9999999	
	20	13	3.6L (CDVB)		A3_DC0	00001	A3_DC999999	
	20'	14	1.8T (CPKA)		A3 EC0	00001	A3 EC117129	
	_		1.8T (CPRA)					
			SAGA	Coding				
Claim Type:		Use app	licable Claim Type	e ¹⁾				
			Damage			Dan	nage Location	
Service Num	iber:		Code	HST		(Depe	ends on Service No.)	
						Use a	applicable when	
4835			0010		indic		ated in ElsaWeb (L/R)	
Parts Ma	nufacture	r	Passat			YX	S 2)	
Labor Operation	³⁾ : Charge	e Battery	,	27068950 = 10 TU				
Labor Operation	³⁾ : Update	e Prograi	mming	Included in GFF time expenditure listed below				
Causal Part: Sele	ct Labor (Operatio	า	01500000				
			Diagnost	ic Time ⁴⁾				
GFF Time expend	liture		01500000 = 40 TU	J max.		YES		
Road Test	Road Test		01210002 = 10 TU	J				
		01210004 = 10 TU	J	YES		ES		
Technical Diagno	Technical Diagnosis 01320000 = 00			U max.		NO		
Claim Comment:	Input "As	per Tecl	nical Bulletin 203	8621" in comment	t section of	Warrar	nty Claim.	
¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only						nal only		

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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.

Required Parts and Tools

No Special Parts required.

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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