

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To	
e-Golf	2015-2016	All	All	All	All	

Condition

93 16 01 January 8, 2016 2041920 Supersedes Technical Bulletin V931506 dated November 25, 2015 to update the work procedure.

Update Programming, DTC(s) Stored in AW C6 High-Voltage Charger including B200000, P31EA00 (U.S. Only)

Control Module (Diagnostic Address)	DTC	DTC Description
High-Voltage Charger (C6)	B200000	Ctrl. Module faulty
High-Voltage Charger (C6)	P31EA00	Battery charger Charging module 2 faulty

1 Note:

This technical bulletin must be read in its entirety before attempting the software update.

Technical Background

False DTC due to incorrect sensor threshold in High-Voltage Charger software.

Production Solution

Not applicable.

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Service

Step 1: Check DTC Symptom Number:

1. Before attempting software update, the symptom number of the DTC stored in the High-Voltage charger must be checked. The symptom number can be checked in ODIS or by viewing the ODIS diagnostic protocol.

Note:

This software update will not resolve a customer concern and should not be attempted if the symptom number is not in the table below.

🚺 Tip:

The example below is provided only to show the location of the symptom number, and uses a fault in address word 5F as a reference. For the purpose of this Technical Bulletin, only the symptom of faults in address word C6 (High-Voltage charger) should be checked.

a. After running ODIS, the symptom number is available in the DTC memory list section of the Control Modules tab.

C memory	
Brake Boost ((23 - Brake booster) (5QE909059A 0160 EBKV 5QE909059A H12)
Thermal Mana	agement (C5 - Thermal management) (5GE907458 Y760 TME-Min 5GE907458 H03)
Information Cr	ontrol Unit 1 (5F - Information electronics 1 (High)) (3G0035047 0344 MU-H-NS-US 3G0035047 H40)
· (1)	B201A00 Checking software version management (00001001 active/static)
Standard	d environmental conditions
Dynamic	c environmental data: 02 86 84 10 02 4D 44 55 56 31 30 31 2F 41 42 54 20 20 20 20 20 20
+	

Figure 1

b. In Figure 1 (above), the symptom number shown inside the red box is 1555.

c. In the diagnostic protocol, the symptom number is viewable by expanding the DTC memory entries selection.

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Address : 5F System name : !	5F - Information electronics 1 (High) Protocol versions ; UDS/ISOTP (Ereignisse : 1)
Identification:	
DTC memory entries:	
DTC memory entry	
Number :	B201A00: Checking software version management
Error type 2 :	active/static
Symptom :	1555
Status :	00001001
+ Standard ambient c	onditions:
Expanded ambient	conditions:

Figure 2

d. In Figure 2 (above), the symptom number shown inside the red box is 1555.

2. If the symptom number associated with an AW C6 (High-Voltage charger) fault is in the table below, continue with the software update procedure.

DTC symptom numbers for which the software update procedure should be performed:					
14746149					
14746197					
14752269					
16711696					
16711727					
16711736					

Note:

A diagnostic log showing the DTC and symptom number must be uploaded to Volkswagen via GFF paperless or retained by the dealer (electronically or otherwise), as it may be subject to request.

 If the symptom number associated with the fault(s) stored in AW C6 (High-Voltage charger) is not in the table above, <u>do not</u> perform the software update. Follow the applicable Guided Fault Finding (GFF) test plan to resolve fault(s).

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Step 2: Update-Programming Procedure:

1 Note:

A special test plan must be performed after completing SVM update. See step 3 below.

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.

1 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.

Critical Warning: The Midtronics Battery Charger **must** 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.

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!

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• Update the High-Voltage Charger using the SVM Unit code as listed in the table below:

Old Software Part No.	Old Software Version	New Software Part No.	New Software Version (or higher)	SVM Unit Code
5QE 915 681B	1550	5QE 915 681B	1560	3D13

The procedure can be found in GFF under Special Functions, Software version management, Adapting software.

i Tip:

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.

Step 3: Complete GFF Test Plan to Erase Event Memory of the High-Voltage Battery Charger Control Module:

After successful completion of the SVM update, the test plan "Erase event memory of the high-voltage battery charger control module – J1050 after SW update" must be performed. Follow the procedure below to complete the test plan.

1 Note:

The ODIS Content Version must be 2.30.0 (released October 29, 2015) or higher to perform this test plan.

1. Select the ODIS Test Plan tab and click "Select self test..."

Control modules Results Orders DISS TSB Test plan Operation Special Functions	
Tests in current test plan	
Status Tests (sorted according to chances of success)	
CAN J623 J539 1 0214 11 Fehler von Motorsta	
	÷
Parform tast Daguments Demous Select self test	

Figure 3

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2. In the Test overview pop-up, select Body>Electrical System>01-Systems capable of self-diagnosis>C6/BD – HV Charging Concept>C6/BD – High-voltage battery charging, functions>C6 – Erase event memory of the High-voltage battery charger control module – J1050 after SW update and click "Attach to the test plan".



Figure 4

Test overview		-
Running gear		1
* Body		1
Body Collisie	on Repair (Repair Group 01; 50 to 77)	
Heating, ver	ntilation, air conditioning system (Repair Group	
 Electrical Sy 	stem (Repair Group 01; 27; 90 to 97)	
* 01 - Syste	ems capable of self-diagnosis	
⊵ 51 - El	ectric drive - J841	
> 25 - EI	ect. immobilizer 5A	

Figure 5

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	16 - Steering column electronics system control mod -J527	-						
	P 76 - Park assist - J446							
E	 C6/BD - HV charging concept 							
	> C6/BD - Elec. components	E						
	C6/BD - High-voltage battery charging, functions							
	C6/BD - Subsystems, boundary conditions							
	17 - Instrument cluster - J285							
	B7 - Access/Start system Interface - J965	-						
	W							
ine								

Figure 6



Figure 7

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3. In the Test Plan tab, highlight the added test plan and click "Perform test..."

Control modules	Results	Orders	DISS	TSB	Test plan	Operation	Special Functions
Tests in current t	test plan						
Status T	ests (sort	ed acco	rding to	chan	ces of succ	cess)	
D							
Þ 🚥							
D							
- 2	C6 - Er	ase eve	nt mem	ory of	the High-v	oltage batte	ery charger control module - J1050 after SW update
SYS_X_1_0615	_11_Hoc	hvolt_Ba	atteriela	den_E	reignisspe	icher_nach	_SW_Update_loeschen
Perform test	Documer	ntsRen	nove	Select	self test		

Figure 8

- 4. Follow instructions on screen to complete test plan.
- 5. Exit GFF.
- 6. During GFF exit, follow instructions to complete calibration of three-phase current drive -VX54-, if necessary.

Drive motor calibration Reading out status		Complete/Continue
Supply	The calibration of three-phase current drive -VX54- is necessary.	
NOTE:	- Press the <done> button to continue.</done>	
Supply		
Communication setup		
Communication setup		
Vehicle identification		
Return		
Identification		
Supply		
Reading out status		

Figure 9

7. Connect the vehicle to a charging station and confirm proper charging function.

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Warranty

To determine if the Procedures Manu	nis proce ual ¹⁾	edure is co	overed under Warı	ranty, always refer	to the W	arranty P	olicies and	
Model(s)	Model(s) Year(s) e-Golf 2015-2016		Eng. Code(s)	Trans. Code(s)	VIN Range From All		VIN Range To	
e-Golf			All	All			All	
			SAGA	Coding				
Claim Type:	aim Type: Use app		licable Claim Type	1)				
Service Num	ber:		Damage Code	нѕт	Damage Locati (Depends on Servi		age Location s on Service No.)	
9352	9352 0039		0039	-		Use applicable when indicated in Elsa (L/R)		
Parts Manufacturer			e-C	e-Golf			DT2 ²⁾	
Labor Operation	³⁾ : Charg	e Battery		27068950 = 10 TU				
Causal Part: Sele	ct labor	operation		01500000				
			Diagnost	tic Time ⁴⁾				
GFF Time expenditure (includes Updating Software)			01500000 = 75 TU max.			YES		
Road Test			01210002 = 00 TU 01210004 = 00 TU		NO			
Technical Diagnosis 0132000			01320000 = 00 TU	320000 = 00 TU max.		NO		
Claim Comment:	Input "A	s per Tec	hnical Bulletin 204	1920" in commen	t section	of Warra	nty Claim.	
 Vehicle may be Code per warra 	outside Inty vend	any Warr Ior code p	anty in which case policy.	e this Technical Bu	ulletin is i	nformatic	onal only	
³⁾ Lobor Timo Uni		ara cubia	ot to obongo with					

³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.

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)
	or
	GRX3000VAS
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X and
	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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