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Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
(A4) Jetta, Jetta Wagon	2004 - 2005	1.9L (BEW)	All	All	All
Golf	2004 - 2005	1.9L (BEW)	All	All	All
New Beetle	2004 - 2005	1.9L (BEW)	All	All	All
(B5) Passat, Passat Wagon	2004 - 2005	2.0L (BHW)	All	All	All
Touareg	2004	5.0L (BKW)	All	All	All

Condition

01 08 33 Nov. 25, 2008 2017520 Supersedes T. B. Group 01 Number 08-28 dated Oct. 22, 2008 to provide GFF allowance and change Touareg labor operation number in warranty table.

MIL ON, Glow Plug Faults Stored in ECM, Bosch Glow Plug System Only

MIL ON with glow plug faults present in ECM.

Technical Background

Conversion to a re-designed glow plug is necessary due to a change in supplier.

Production Solution

No production solution necessary, engine out of production.

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Service

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

DTC	Description
P0671	Cylinder 1 Glow Plug Circuit
P0672	Cylinder 2 Glow Plug Circuit
P0673	Cylinder 3 Glow Plug Circuit
P0674	Cylinder 4 Glow Plug Circuit
P0675	Cylinder 5 Glow Plug Circuit
P0676	Cylinder 6 Glow Plug Circuit
P0677	Cylinder 7 Glow Plug Circuit
P0678	Cylinder 8 Glow Plug Circuit
P0679	Cylinder 9 Glow Plug Circuit
P0680	Cylinder 10 Glow Plug Circuit

- Diagnose cause of glow plug faults following normal diagnostic procedure
- Install replacement glow plugs Part No. N10591607 as a complete set.
- Update ECM software.

Note:

DO NOT install glow plugs Part No. N10591607 in an engine equipped with NGK glow plugs.

Failure to update ECM programming after installing new glow plugs will result in glow plug system failure.

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PROCEDURE:

Engine Control Module Update - Programming (Flashing) using Software Version Management (SVM)

Note:

An Update Programming procedure (flash) may overwrite any "TUNED" ECM or TCM programming. A "TUNED" ECM or TCM is described as any ECM or TCM altered so as to perform outside the normal parameters and specifications approved by Volkswagen Group of America.

Current Tuned ECM or TCM requirements: If you encounter a vehicle with a "Tuned" ECM or TCM, your dealership must do the following before performing any procedure that updates ECM or TCM programming:

- Notify the owner that their ECM or TCM was found to have been tuned
- Notify the owner any damage caused by the tuning of the ECM or TCM (including any adverse emissions consequences) will not be covered by Volkswagen Group of America warranties.
- Obtain the owner's written consent (see attached Control Module Tuning form) for any requested repair under warranty or outside warranty that requires flashing, which will automatically overwrite the "Tuned" program.

If the vehicle has a tuned ECM or TCM, ensure the Control Module Tuning Form has been filled out.

Vehicle requirements

Battery MUST have minimum no-load charge of 12.5V (failure to maintain voltage during update process can lead to ECM failure) (use an Volkswagen approved Midtronics/InCharge 940 (INC-940) tester/charger to maintain battery voltage).

VAS 5051: connected to vehicle and to 110V AC Power supply at all times during procedure.

VAS 5052: connected to vehicle with battery voltage requirements met.

Any appliances with high electromagnetic radiation (i.e. mobile phones) switched OFF.

When performing the update programming procedure, ALL DTCs for all systems are erased.

DTCs linked to Guided Fault Finding function tests will be lost. Therefore, always address stored DTCs for Customer concerns unrelated to the update programming procedure first.

Note:

Non–observance of the following points may lead to ECM failure! VAS 5051 or VAS 5052 must always be connected to the approved power supply at the approved voltages. Under no circumstances should the power supply be interrupted or the diagnostic connector unplugged during the update programming procedure. Any appliances with high electromagnetic radiation (i.e. mobile phones) must be switched OFF.

Prior to launching VAS-PC application and starting control module update process, confirm tester screen saver and power settings in accordance with Special Tools and Equipment - Service Information Circular # VSE-08-18. Failure to do so may result in the tester entering power save mode during data transfer, and subsequent control module failure.

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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.

- 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
Jetta/Golf/ Jetta Wagon	1.9L (BEW)	038 906 016H	6327 6210 5675 5375 5284 5263 5251 5167 4948 4782	038 997 016L	1386	302D
Jetta/Golf/ Jetta Wagon	1.9L (BEW)	038 906 016Q	6110 5843	038 997 016L	1386	302D
Jetta/Golf/ Jetta Wagon	1.9L (BEW)	038 997 016H	8008	038 997 016L	1386	302D
New Beetle	1.9L (BEW)	038 906 016J	6328 6223 5443 5376 5285 5250 5168 4949	038 997 016M	2878	302E

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New Beetle	1.9L (BEW)	038 906 016P	7000 6111 5859	038 997 016M	2878	302E
Passat	2.0L (BHW)	038 906 016L	6417 6036 5978 5656 5377	038 997 016N	1388	3047
Passat	2.0L (BHW)	038 906 016R	6416 6222	038 997 016N	1388	3047
Passat	2.0L (BHW)	038 906 016R	8900	038 997 016N	1388	3047
Touareg	5.0L (BKW)	070 906 016BG	6366 5979 5676	070 997 016R	2813	3046

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

WARNING:

The electric cooling fans may be activated during the ECM updating procedure.

Tip:

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

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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
(A4) Jetta, Jetta Wagon	2004 - 2005	1.9L (BEW)	All	All	All
Golf	2004 - 2005	1.9L (BEW)	All	All	All
New Beetle	2004 - 2005	1.9L (BEW)	All	All	All
(B5) Passat, Passat Wagon	2004 - 2005	2.0L (BHW)	All	All	All
Touareg	2004	5.0L (BKW)	All	All	All
Claim Type:		Use applicable Claim Type [1]			
SAGA Coding					
Service Number: Programming	Damage Code	Damage Location (Depends on Service No.)	Parts Manufacturer (removed part)		
2360	0039	Use applicable when indicated in ElsaWeb (L/R)	___ [2]		
Service Number: Glow Plug	Damage Code	Damage Location (Depends on Service No.)	Parts Manufacturer (removed part)		
2884	0012	Use applicable when indicated in ElsaWeb (L/R)	___ [2]		
Labor Operation [3]: Programming, Jetta, Jetta Wagon		23382599 = 90 TU			
Labor Operation [3]: Glow Plug Replacement, Jetta, Jetta Wagon		28842000 = 70 TU			

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Labor Operation [3]: Programming, Golf	23382599 = 90 TU	
Labor Operation [3]: Glow Plug Replacement, Golf	28842000 = 70 TU	
Labor Operation [3]: Programming, New Beetle	23382599 = 90 TU	
Labor Operation [3]: Glow Plug Replacement, New Beetle	28842000 = 70 TU	
Labor Operation [3]: Programming, Passat, Passat Wagon	23602599 = 100 TU	
Labor Operation [3]: Glow Plug Replacement, Passat, Passat Wagon	28842000 = 70 TU	
Labor Operation [3]: Programming, Touareg	24702599 = 90 TU	
Labor Operation [3]: Glow Plug Replacement (Touareg Only)	28842063 = 50 TU	
Labor Operation [3]: Intake Manifold R&I (Touareg ONLY, predecessor to labor operation above)	23802013 = 250 TU	
Diagnostic Time [4]		
GFF Time expenditure	01500000 = actual print time	YES
Road Test	01210002 & 01210004	NO
Technical Diagnosis	0132xxxx = XX TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2017520" in comment section of Warranty Claim.		

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[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.

[4] Documentation required per Warranty Policy & Procedures Manual.

Required Parts and Tools

Part Description	Part No:	Quantity
Glow Plug	N10591607	Engine Specific

Tool Description	Tool No:	Quantity
VAS Diagnostic Tool (with Base CD V.14.00 and the Brand CD V.14.88.00 or higher)	VAS 5051 / 5052	1

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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OWNER INFORMATION ABOUT CONTROL MODULE TUNING* ACKNOWLEDGEMENT AND AUTHORIZATION FOR REPROGRAMMING (REFLASHING) OF CONTROL MODULE(S)

**) "TUNING" is described as the addition of or modification of any component which causes a Volkswagen vehicle to perform outside the normal parameters and specifications approved by Volkswagen Group of America, Inc..*

Date:_____

Dealer Number:_____

Vehicle Identification Number:_____

Repair Order Number:_____

Dealer stamp

I _____, owner or driver of the above identified Volkswagen, confirm:

❑ "Tuning" as described above (especially power increasing modifications) has NOT been performed on my vehicle.

❑ "Tuning" as described above has been performed on my vehicle and the following components were modified or installed:

_____

_____

TUNING was performed by (Please provide Company name and telephone number, if you wish us to contact them):_____

_____

I understand that if my Control Module is determined to have been tuned, any damage caused by the tuning of the Control Module (including adverse emissions consequences) will not be covered by Volkswagen Group of America, Inc. warranties.

I am permitting an authorized Volkswagen Dealer to reflash (update) my Control Module, and by doing so, I understand that this process will automatically overwrite (destroy) and permanently delete any tuning program that was previously installed on the Control Module of my Volkswagen vehicle.

By signing below, I fully acknowledge and understand that the tuning program will not be restored and Volkswagen Group of America, Inc., will not be liable in any way for the loss of tuning data.

_____

Signature of Customer

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