# Technical Bulletin

| Model(s) | Year | Engine Code | Trans. Code | VIN Range From | VIN Range To |
|----------|------|-------------|-------------|----------------|--------------|
| Jetta Hybrid | 2013-2014 | 1.4L (CNLA) | 7spd Auto DSG (0CG) DQ200 | All | All |

## Condition

**01 13 20** July 31, 2013 **2034844**

**Update Programming, Sporadic Misfire Faults Stored in ECM Fault Memory**

One or more of the following fault codes may be stored in the Engine Control Module Fault Memory:

| DTC | Description |
|-----|-------------|
| P0300 | Random/Multiple Cylinder Misfire Detected |
| P0301 | Cy1 Misfire Detected |
| P0302 | Cy2 Misfire Detected |
| P0303 | Cy3 Misfire Detected |
| P0304 | Cy4 Misfire Detected |

 **Note:**

**DO NOT** diagnose or replace components due to misfire faults **before** performing the update function as explained in this bulletin.

**Tip:**

This software update is designed to re-program the ECM, Power Electronics Module, and/or Battery Management Control Module with new software. The re-programming itself should carry out the updates without technician intervention. Please ensure all control module software as applicable has been updated after the flash is completed.

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## Technical Background

During normal operation of the Jetta Hybrid, the electric drive motor will be activated as a generator to charge the High Voltage Battery. Once the High Voltage battery has reached a 100% state of charge, the regenerative function will shut off and the electric drive motor load will be released. Under certain driving conditions, this release of load from the engine can result in sporadic misfire faults storing in the Engine Control Module fault memory.

## Production Solution

Improved software implemented into production.

## Service

**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.

**Note:**

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.

**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.

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- Update the **Engine Control Module** (Address Word 01) 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 Hybrid | CNLA | 04E 906 023 | All | 04E 906 023 | 6364 | 384C |

This SVM Unit Code also includes an update to the Power Electronics Control Module. If the control module software is already up to date, update programming will not be performed.

- Update the **Power Electronics Control Module** (Address Word 51) 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 Hybrid | CNLA | 5C0 907 080 C<br>5C0 907 080 D<br>5C0 907 080 E | All | 5C0 907 080 E | 0535 | 384C |

This SVM Unit Code also includes an update to the Battery Management Control Module. If the control module software is already up to date, update programming will not be performed.

- Update the **Battery Management Control Module** (Address Word 8C) 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 Hybrid | CNLA | 5C6 915 182 B | 0551 | 5C6 915 182 B | 0601 | 384C |

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

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> ⚠️ **WARNING:**
>
> 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!

**ℹ️Tip:**

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.

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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** |
| Jetta Hybrid | 2013-2014 | 1.4L (CNLA) | 7spd Auto DSG (0CG) DQ200 | All | All |
| **SAGA Coding** | | | | | |
| **Claim Type:** | **Use applicable Claim Type [1]** | | | | |
| **Service Number:** | **Damage Code** | | **HST** | **Damage Location (Depends on Service No.)** | |
| 2470 | 0039 | | -- | Use applicable when indicated in ElsaWeb (L/R) | |
| **Parts Manufacturer** | **Jetta Hybrid** | | | | **3ME [2]** |
| **Labor Operation [3]: Charge Battery** | 27068950 = 10 TU | | | | |
| **Labor Operation [3]: Update Programming** | 24702599 = 40 TU | | | | |
| **Causal Part: Select Labor Operation** | 24702599 | | | | |
| **Diagnostic Time [4]** | | | | | |
| **GFF Time expenditure** | 01500000 = 30 TU max. | | | | YES |
| **Road Test** | 01210002 = 00 TU 01210004 = 00 TU | | | | NO |
| **Technical Diagnosis** | 01320000 = 00 TU max. | | | | NO |
| **Claim Comment: Input "As per Technical Bulletin 2034844" in comment section of Warranty Claim.** | | | | | |

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## 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/-VPC with:**<br>**VAS-PC Base V19.01.01 and current version Brand disc**<br>**ODIS Service V1.1.3 or higher** |

## 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.**

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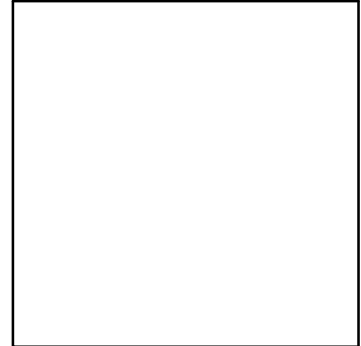## ACKNOWLEDGEMENT AND AUTHORIZATION FOR REPROGRAMMING (REFLASHING) OF CONTROL MODULE(S)

*) *"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 / Volkswagen Group Canada.*

**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 VWGoA / VGC 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 VWGoA / VGC, will not be liable in any way for the loss of tuning data.

_____
Signature of Customer