

01-25-05 - Update Programming, MIL ON, DTC P00B7 Stored in the -J623- Engine /Motor Control Module

## Condition

| Applicable Vehicles |      |                |             |                |              |
|---------------------|------|----------------|-------------|----------------|--------------|
| Model(s)            | Year | Eng. Code      | Trans. Code | VIN Range From | VIN Range To |
| Golf R              | 2022 | 2.0T<br>(DSF*) | All         | All            | All          |
| Golf R              | 2024 | 2.0T<br>(DSF*) | All         | All            | All          |

| Revision Table  |                |                |                       |
|-----------------|----------------|----------------|-----------------------|
| Instance Number | Published Date | Version Number | Reason For Update     |
| 2079099/1       | 9/10/2025      | 01-25-05       | Original publication. |

One or more of the following fault code(s) must be stored in the ECM:

| DTC   | Description   |
|-------|---|
| P00B7 | Engine Coolant Flow Low/Performance                           |
| P0116 | Engine Coolant Temperature Sensor 1 Circuit Range/Performance |
| P2681 | Engine Coolant Bypass Valve "A" Control Circuit/Open          |

### NOTICE

DO NOT diagnose or replace any components for the above fault(s) before performing the update function as explained in this bulletin.

## Technical Background

Updated ECM software to improve thermostat performance.

## Production Solution

Improved ECM software implemented in production.

## Service

### Update-Programming Procedure:



#### WARNING

**Critical Warning:** The Midtronics battery charger with at least 70A charging current 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.



#### 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 objects away from Radiator Fan(s) during update process.



#### NOTICE

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 # VHW-22-13. 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 6154/X wireless transmitter head for a flash procedure, 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.



To Update-Programming using Software Version Management (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 or action is carried out that is not explicitly stated in the Technical Bulletin.

- Update the **-J623-** Engine/Motor 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 |
|--------|----------------|-----------------------|----------------------|-----------------------|----------------------------------|---------------|
| Golf R | 2.0T<br>(DSF*) | 5H0 906 259<br>A      | 0001<br>0003         | 5H0 906 259<br>A      | 0004                             | 51C6          |
| Golf R | 2.0T<br>(DSF*) | 5H0 906 259<br>J      | 0001                 | 5H0 906 259<br>J      | 0002                             | 51C6          |



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

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

## Warranty

| <p>To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>(1)</sup></p> |      |   |                           |                |              |
|---|------|---|---------------------------|----------------|--------------|
| Model(s)  | Year | Eng. Code                                       | Trans. Code               | VIN Range From | VIN Range To |
| Golf R  | 2022 | 2.0T<br>(DSF*)                                  | All                       | All            | All          |
| Golf R  | 2024 | 2.0T<br>(DSF*)                                  | All                       | All            | All          |
| <b>SAGA Coding</b>  |      |   |                           |                |              |
| <b>Claim Type:</b>  |      | <b>Use applicable Claim Type <sup>(1)</sup></b> |                           |                |              |
| <b>Service Number:</b>  |      | <b>Damage Code</b>                              | <b>HST</b>                | --             |              |
| 2470  |      | 0039  | --                        | --             |              |
| <b>Parts Manufacturer</b>   |      | Golf R  | <b>WVO <sup>(2)</sup></b> |                |              |
|   |      |   |                           |                |              |

|  |  |     |
|--|--|-----|
| <b>Labor Operation</b> <sub>3)</sub> : GFF functions (including Battery Charge)  | 01500010 = See Elsa for the latest time units. |     |
| <b>Labor Operation</b> <sub>3)</sub> : Update Programming  | See GFF Time expenditure                       |     |
| <b>Causal Part:</b> Select Labor Operation   | 01500060                                       |     |
| <b>Diagnostic Time</b> <sub>(4)</sub>  |  |     |
| <b>GFF Time expenditure</b>  | 01500060 = 50 TU max.                          | YES |
| <b>Road Test</b>   | 01210004 = 00 TU                               | NO  |
| <b>Technical Diagnosis</b>   | 01320000 = 00 TU max.                          | NO  |
| Claim Comment: Input "As per Technical Bulletin "2077632" in comment section of Warranty Claim.  |  |     |
| <ol style="list-style-type: none"> <li>1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</li> <li>2) Code per warranty vendor code policy.</li> <li>3) Labor Time Units (TUs) are subject to change with ELSA updates.</li> <li>4) Documentation required per Warranty Policies and Procedures Manual.</li> </ol> |  |     |

## Required Parts and Tools

No special parts required.

| Tool Description                  | Tool No.   |
|-----------------------------------|--|
| Midtronics Battery Tester/Charger | GRX3000VAS<br>or<br>MTRMSP0702 battery maintainer/charger                  |
| VAS Diagnostic Tool               | VAS 6150/X & VAS 6160/X with:<br>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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photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.



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

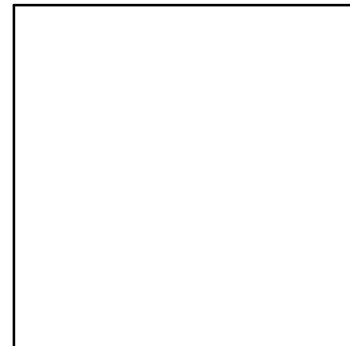
\*) "TUNING" is described as the addition of or modification of any component which causes a Volkswagen vehicle to perform outside the normal parameters and specifications approved by Volkswagen Group of America / Volkswagen Group Canada.

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