Emissions Recall Code: 23EM



Subject

Engine Control Module (ECM) Software

Release Date

December 20, 2022

Affected Vehicles

Country	Beginning Model Year	Ending Model Year	Vehicle	Vehicle Count
USA	2009	2012	TOUAREG	305
CAN	2009	2012	TOUAREG	69

Check Campaigns/Actions screen in ELSA on the day of repair to verify that a VIN qualifies for repair under this action. ELSA is the <u>only</u> valid campaign inquiry & verification source.

- ✓ Campaign status must show "open."
- ✓ If ELSA shows other open action(s), inform your customer so that the work can also be completed at the same time the vehicle is in the workshop for this campaign.

Problem Description

Volkswagen has determined, based on service records, that the software version of the engine control module (ECM) requires an update to validate and, if necessary, reapply the ECM software that was installed on these vehicles at the time that they received the Approved Emissions Modification (USA) / Emissions Modification (Canada). This issue could have an impact on vehicle tailpipe emissions.

Corrective Action

Update the ECM software.

Code Visibility

On or about December 20, 2022, the campaign code will be applied to affected vehicles.

Owner Notification

Owner notification will take place in December 2022. Owner letter examples are included in this bulletin for your reference.

Emissions Campaigns Requirements (CALIFORNIA ONLY)

The California Air Resources Board and the Department of Motor Vehicles (DMV) require emissions-related campaigns to be completed prior to vehicle registration renewal. When campaign work is done you must provide the owner with a signed "Vehicle Emission Recall – Proof of Correction" certificate (RC EMISCAVWAU). Order certificates online via the Compliance Label Ordering portal at www.vwhub.com.

Additional Information

Please alert everyone in your dealership about this action, including Sales, Service, Parts and Accounting personnel. Contact Warranty if you have any questions.

Dealers must ensure that every affected inventory vehicle has this campaign completed <u>before</u> <u>delivery to consumers</u>.

Fill out and affix Campaign Completion Label (CAMP 010 000) after work is complete. Labels can be ordered at no cost via the Compliance Label Ordering portal at www.vwhub.com.

The repair information in this document is intended for use only by skilled technicians who have the proper tools, equipment and training to correctly and safely maintain your vehicle. These procedures are not intended to be attempted by "do-it-yourselfers," and you should not assume this document applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Volkswagen dealer. ©2022 Volkswagen Group of America, Inc. and Volkswagen Canada. All Rights Reserved.

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Claim Entry Instructions

The labor times listed here may differ from the labor operations and labor times listed in ELSA.

After campaign has been completed, enter claim as soon as possible to help prevent work from being duplicated elsewhere. Attach the ELSA screen print showing action <u>open on the day of repair</u> to the repair order.

If customer refused campaign work:

- ✓ <u>U.S. dealers:</u> Submit request via WISE under the *Campaigns/Update/Recall Closure* option.
- ✓ <u>Canada dealers:</u> Upload the repair order [signed by customer] to Volkswagen WIN/Operations/Campaign Closure.

Comice Number	225M					
Service Number	23EM					
Damage Code	0099					
Parts Vendor Code	WWO					
Claim Type	Sold vehicle: 7 10					
	Unsold vehicle: 7 90					
Causal Indicator	Mark labor as causal					
Vehicle Wash/Loaner	Do not claim wash/loaner under this action					
	<u>U.S.A.:</u> Loaner/rental coverage cannot be claimed under this action. However, loaner/rental may be covered under the Alternate Transportation Program. Please refer to the Volkswagen Warranty Policy and Procedures Manual for loaner claims information and reimbursement details.					
	<u>Canada:</u> Loaner/rental coverage cannot be claimed under this action. Please refer to Volkswagen Service Loaner Program to determine loaner eligibility.					
Criteria I.D.	01					
	LABOR					
	Labor Op	Time Units	Description			
	2706 89 50	10	Connect battery charger			
	2470 25 99	Time stated on diagnostic protocol (up to 50 TU)	Update engine control module software			

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Customer Letter Example (USA)

<MONTH YEAR>

<CUSTOMER NAME>

<CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <MODEL YEAR> <BRAND> <CARLINE>, <VIN>

Subject: Emissions Recall 23EM - Engine Control Module (ECM) Software

Dear Volkswagen Owner,

In cooperation with the United States Environmental Protection Agency and the California Air Resources Board, we are informing you of our decision to conduct an emissions recall on certain 2009-2012 model year Volkswagen vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue?

Volkswagen has determined, based on service records, that the software version of the engine control module (ECM) requires an update to validate and, if necessary, reapply the ECM software that was installed on these vehicles at the time that they received the Approved Emissions Modification. This issue could have an impact on vehicle tailpipe emissions.

What will we do?

Your authorized Volkswagen dealer will update the ECM software in your vehicle. This work will take about an hour to complete and will be performed for you free of charge. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

IMPORTANT! Please note that if the ECM in your vehicle has been "chipped," "tuned," or otherwise modified from factory specifications with aftermarket components and/or software, work needed to repair, replace, or return the ECM to factory specifications is NOT covered under this action.

What should you do?

Please contact your authorized Volkswagen dealer as soon as possible to schedule this service. To set up an appointment online, please visit www.vw.com/find-a-dealer.

Lease vehicles and address changes

If you are the lessor and registered owner of the vehicle identified in this action, please forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

California Vehicle Owners - California Regulations

Important information for California regulations require that this campaign be completed prior to the time you renew your vehicle registration. Therefore, please make sure that this campaign is completed prior to the renewal of your vehicle registration, and that you furnish proof of completion to the Department of Motor Vehicles (DMV) in the form of a copy of the dealer's repair order, including a signed "Proof of Correction" certificate. You obtain this from your dealer after the campaign has been completed. Please retain the signed "Proof of Correction Certificate" with your vehicle records. DO NOT MAIL THIS FORM to the DMV, unless requested.

Can we assist you further?

If your authorized Volkswagen dealer fails or is unable to complete this work free of charge within a reasonable time, or if you should have any questions about this communication, please reach out to us using your preferred method of communication at www.vw.com/contact or by calling us at 800-893-5298.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Volkswagen Customer Protection

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Customer Letter Example (CANADA)

<MONTH YEAR>

<CUSTOMER NAME>
<CUSTOMER ADDRESS>
<CUSTOMER CITY STATE ZIPCODE>

This notice applies to your vehicle: <MODEL YEAR> <BRAND> <CARLINE>, <VIN>

Subject: Emissions Recall 23EM - Engine Control Module (ECM) Software

Dear Volkswagen Owner,

This notice is sent to you in accordance with the requirements of the *Canadian Environmental Protection Act, 1999*. Volkswagen has determined that a defect, which relates to a prescribed emission standard, exists in certain 2009-2012 model year Volkswagen vehicles. Our records show that you are the owner of a vehicle affected by this action.

What is the issue?

Volkswagen has determined, based on service records, that the software version of the engine control module (ECM) requires an update to validate and, if necessary, reapply the ECM software that was installed on these vehicles at the time that they received the Emissions Modification. This issue could have an impact on vehicle tailpipe emissions.

What will we do?

Your authorized Volkswagen dealer will update the ECM software in your vehicle. This work will take about an hour to complete and will be performed for you free of charge. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

IMPORTANT! Please note that if the ECM in your vehicle has been "chipped," "tuned," or otherwise modified from factory specifications with aftermarket components and/or software, work needed to repair, replace, or return the ECM to factory specifications is NOT covered under this action.

What should you do?

In order to limit any possible inconvenience, please contact your authorized Volkswagen dealer as soon as possible to schedule this service. On or about December 20, 2022 the necessary repair instructions and parts will be available to your authorized Volkswagen dealer.

Lease vehicles and address changes

If you are the lessor and registered owner of the vehicle identified in this action, please forward this letter immediately via first-class mail to the lessee within ten (10) days of receipt. If you have changed your address or sold the vehicle, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

Can we assist you further?

If your authorized Volkswagen dealer fails or is unable to complete this work free of charge within a reasonable time, please contact Customer Relations, Monday through Friday from 8AM to 8PM EST by phone at 1-800-822-8987 or via our "Contact Us" page at www.vw.ca.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your vehicle continues to meet and exceed your expectations.

Sincerely,

Volkswagen Customer Protection

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Required Tools



Battery Tester/Charger capable of minimum 70 Amp continuous supply



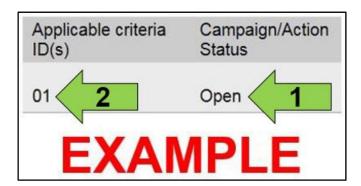
Diagnostic Tester
-VAS6150X/VAS6160X(or equivalent)

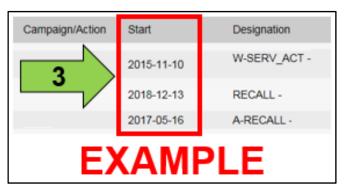
Repair Instruction

Section A - Check for Previous Repair

i TIP

If Campaign Completion label is present, no further work is required.





• Enter the VIN in Elsa and proceed to the "Campaign/Action" screen.

i TIP

On the date of repair, print this screen and keep a copy with the repair order.

- Confirm the Campaign/Action is open <arrow 1>. If the status is closed, no further work is required.
- Note the Applicable Criteria ID <arrow 2> for use in determining the correct work to be done and corresponding parts associated.



- All Safety Recalls must be completed prior to completing this campaign.
- Proceed to Section B.

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Section B - Software Update Instructions

NOTE

Prior to launching the VAS Diagnostic Tester and starting an update, ensure the following conditions are met:

- The ODIS software is completely up to date.
 - Refer to the "Alerts" section on ServiceNet home page for the current ODIS version.
- The battery charger is connected to the vehicle battery and remains connected for the duration of the software update.
 - Battery voltage must remain above 12.5 volts for the duration of the software update. Failure to do so may cause the update to fail, which could result in damage to the control module. Control modules damaged by insufficient voltage will not be covered.
- The screen saver and power saving settings are off.
 - Failure to do so may result in the tester entering power save mode during the software update, which could result in damage to the control module.
- The VAS Diagnostic Tester is plugged in using the supplied power adapters.
 - Under no circumstances should the tester be used on battery power alone during the software update. Failure to do so may result in the tester powering off during the update, which could result in damage to the control module.
- The VAS Diagnostics Interface MUST ONLY be connected to the tester with a USB cable.
 - Performing a software update using a Bluetooth or WiFi connection increases the risk of losing connection during the update, which could result in damage to the control module. It also greatly increases the time required to perform the update. Requests for additional time or parts will be denied if the GFF log shows the update was performed using Bluetooth or WiFi.

MARNING

Radiator Fan(s) may cycle ON high speed during the Update Process! There is a serious 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!



To Update-Programming using SVM, review and follow instructions in Technical Bulletin 2014603: Software Version Management (SVM) Operating Instructions.

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.

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U NOTE

- Damages resulting from improper repair or failure to follow these work instructions are the dealer's responsibility and are not eligible for reimbursement under this action.
- Diagnosis and repair of pre-existing conditions in the vehicle are not covered under this action.

① NOTE

- All campaign software updates must be completed during a single, standalone ODIS Diagnostic Session.
 You must fully complete this campaign and send all logs before beginning any other campaigns or operations.
- If there are any ODIS "Hot-Fix" patches installed, they must be removed from the scan tool before beginning this operation. ODIS "Hot-Fix" patches may affect the update process.
 - Open the hood.
 - Open the battery cover.
 - Switch the ignition on.
 - Apply the parking brake.
 - Switch off all consumers (headlights, heated seats, climate control, etc.).
 - Connect the VAS6150X/VAS6160X Diagnostic Tester to the vehicle.
 - Start the ODIS program.
 - Attach a Battery Tester/Charger capable of minimum 70 Amp continuous supply.



Vehicles with Battery Monitoring Control Module -J367- and/or an EFB Battery:

When connecting the charger to the battery, connect the positive cable to the positive terminal of the battery and connect the negative cable to the grounding lug on the chassis. DO NOT connect the ground cable directly to negative terminal of the battery.

Turn the hazards on.

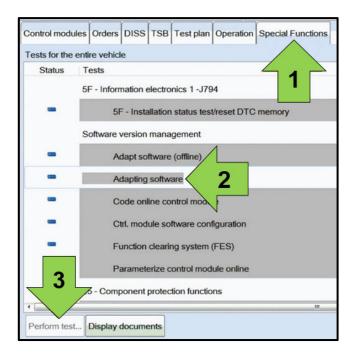
A CAUTION

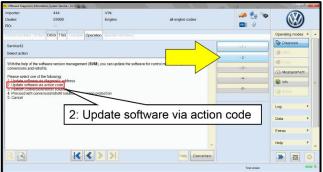
The procedure may cancel itself if the hazard warning lights are not switched on. The hazard warning lights prevent the system from switching to bus sleep mode during the update.

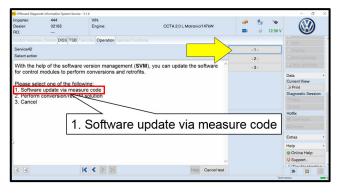
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- Confirm that scan tool is communicating with the diagnostic head by USB <Green Arrow>.
 - If the Bluetooth symbol is shown <Red Arrow> then disconnect the diagnostic head from the vehicle and reconnect the USB cable to the diagnostic head and then reattach to the vehicle.
- Upon ODIS startup, verify the "Diagnosis" operating mode is selected <as shown>.
- Once the GFF scan is complete, select "Special functions" <arrow 1>, then "Adapting software" <arrow 2>, then select "Perform test" <arrow 3>.

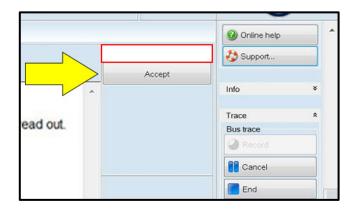
 Select the correct option to "Update software via action code" OR "Software update via measured code".



The different options to perform the SVM operation may vary based on model.

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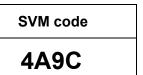




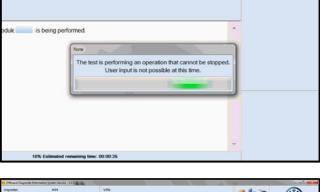
Using <u>Bluetooth or WiFi</u> for this action is PROHIBITED!

Damage caused to electronic components (e.g. ECM, TCM, etc.) during the SVM flash process is not covered.

• Enter the corrective action code (SVM code) as listed below.

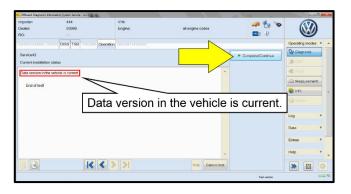


- Select "Accept" <arrow> and follow the on screen prompts.
- During the flash, this screen appears when each operation is performed:





Select Complete/Continue <arrow> after each operation is completed.



- When the SVM update is complete a confirmation message is displayed <as shown>.
- Select "Complete/Continue" <arrow>.

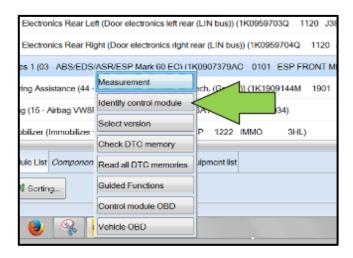


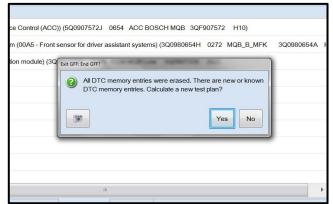
If the software in the vehicle is already current, a message may appear indicating this. If this occurs, complete the ODIS test plan and send the diagnostic protocol online.

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U NOTE

- It is <u>IMPERATIVE</u> that <u>ALL</u> of the ignition cycle on/off delay requests are fulfilled in their entirety during this flash process <arrow 1>.
- Failing to wait for the ignition on/off timing cycle to complete (progress bar and countdown timer <arrow 2>) before cycling the ignition on/off MAY damage a control module.
- Damage to control modules as a result of failing to wait the specified time displayed by the progress bar and countdown timer <arrow 2> are <u>NOT</u> covered under this action.
- After the software update is completed and before sending the GFF Log Online:
 - Select the "Control Module" tab.
 - Scroll down and right click on the module that was updated.
 - Select "Identify Control Module" <arrow>.

 Exit GFF and send diagnostic protocol online when prompted.



Static communication faults may store in various control modules during the flash. These faults can be cleared by putting the vehicle in a bus sleep mode.

To put the vehicle in bus sleep mode, disconnect the diagnostic tester, remove the key from the vehicle and lock the vehicle with the remote for about a minute. The faults should change from static to passive and will be cleared upon exiting GFF.

- Release the parking brake.
- Disconnect the VAS tester.
- Switch off and disconnect the battery charger.
- Reinstall the battery cover.

Proceed to Section C.

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Section C - Campaign Completion Label

 Fill out and affix Campaign Completion Label, part number CAMP 010 000, next to the vehicle emission control information label.

i TIP

Ensure Campaign Completion Label does not cover any existing label(s).

Proceed to Section D

Section D – California Only Requirements

CALIFORNIA ONLY Requirements for Emissions Campaigns Having Customer Notification

The California Air Resources Board and the Department of Motor Vehicles (DMV) require emissions-related campaigns to be completed prior to vehicle registration renewal. When campaign work is done you must provide the owner with a signed "Vehicle Emission Recall – Proof of Correction" certificate (RC EMIS_CAL VW). Certificates can be ordered at no cost online via the Compliance Label Ordering portal at www.vwhub.com.

i TIP

Ensure owners are aware of the importance of retaining the completed certificate for their records. It should be mailed to the California DMV *only upon request*.

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