

Engine Control Module (ECM), Software
Updates
VN Mexico Only

SP 284-066, Engine Control Module (ECM), Software Updates

(February 2020)

Mexico Only

Certain VN trucks with EURO-4 emission regulation, may experience incorrect fuel mileage reading in the instrument cluster. Reprogramming the Engine Control Module (ECM) parameter is required to resolve this issue. Follow the repair procedure outlined in this Service Program (SP) to reprogram the parameter settings in the ECM.

Check the current main software for ECM to determine the action required as shown in the table below.

Action Required		
ECM	Main Software	Action Required
D11/ D13	Equal or Less Than 22687459	Update to Latest Software
D16	Equal or Less Than 22644015	Update to Latest Software

Required Tools

Premium Tech Tool (PTT) version 2.06.35 or higher

VOCOM Diagnostic Connector 88890304

Communication Interface 88890300

Note: Using other interfaces may affect programming speed.

Note: Check Premium Tech Tool version by clicking Help tab and then click "About Tech Tool".

ECM Software Update Procedure

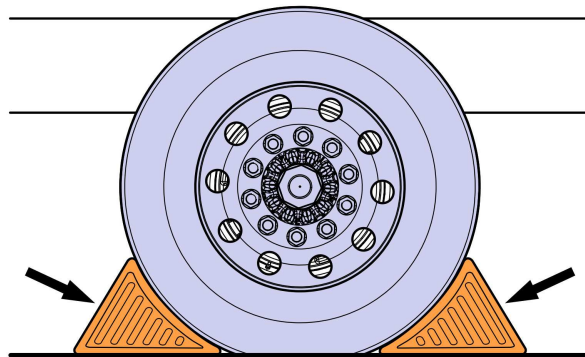
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engines" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.



DANGER

Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

- 1 Park the vehicle on a level surface.
- 2 Apply the parking brake.
- 3 Place the gear lever in neutral or park.
- 4 Install the wheel chocks.



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- 5 Connect Premium Tech Tool (PTT) to the vehicle diagnostics connector using the 16-pin OBD cable 88890304 and Communication Interface 88890300. Connect the PC to a functional LAN or modem connection and a 120-Volt AC source.

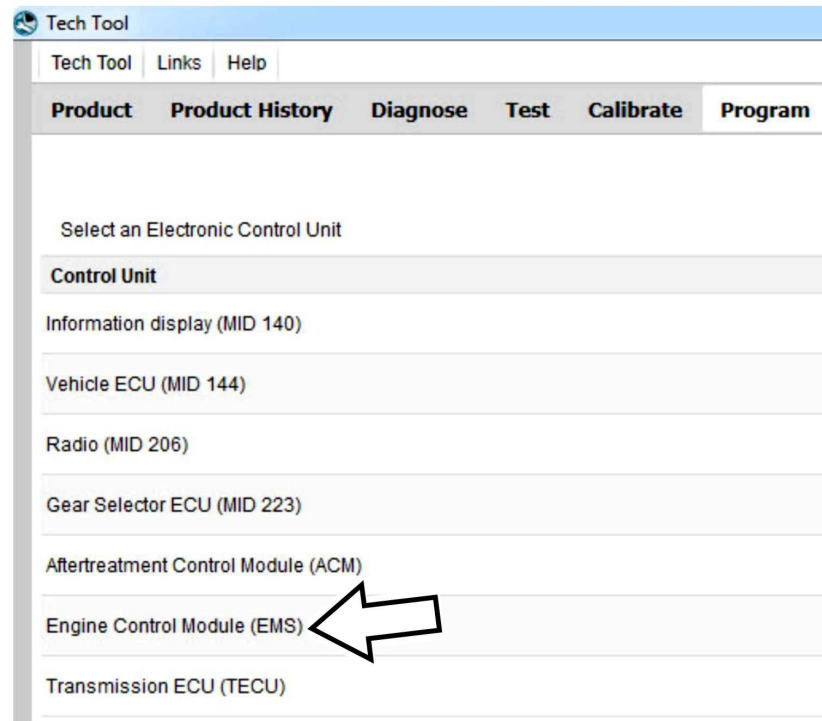
- 6 Turn the ignition switch **"ON"**.
- 7 Log in to PTT and Identify Vehicle is displayed.
- 8 Once the vehicle has been identified, enter the Work Order Number information, then click Start Work.

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- 9 From the Main Menu, select Program and **then** Program Electronic Control Unit 1700-08-03-39. Then click Start.

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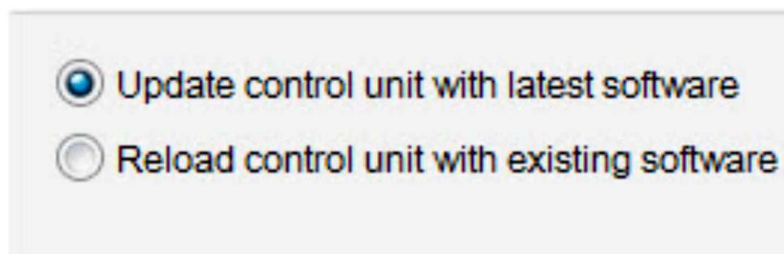
10 Select **Engine Control Module (EMS)**.



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11 Select Program to update the **ECM** with the latest software.

Programming options



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- 12 Certain conditions must be met to continue with programming: battery voltage above 10v, parking brake applied, and ignition key in ON position with engine not running. When all conditions have been met, click Continue to proceed with programming.

1	 > 10 V	12.7 V	
2	  		
3	  = 0 rpm	 0 rpm	

1700-08-03-39 Program control unit - Update software

Automatically checked conditions

- 1 Battery voltage above 10 V
- 2 Parking brake applied
- 3 Ignition key in **ON** position. Engine not running

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- 13 Select "I accept" to agree to the terms and press continue to proceed.

Note: In the United States and Canada, the programming is NOT chargeable. An invoice will not be generated.

1700-08-03-39 Program control unit - Update software

The following control units will be programmed

Engine Control Module (EMS)

Chargeable programming

The software you are about to program is chargeable. If programming is performed using the software, an invoice will be generated.

Programming will be charged once even if multiple retries are needed.

The software has commercial part number

85136079 : Engine Control Module

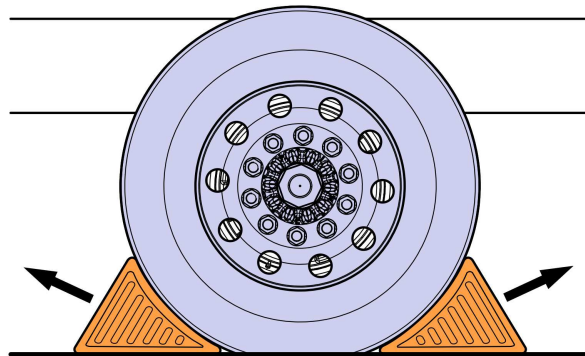
The number can be used for price lookup in your local system and will be specified on the invoice.

☒ I accept 

Select I accept to agree to the terms Press Continue to proceed

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- 14 When programming is complete, click Exit to return to Main Menu.
- 15 When all programming is complete, clear any diagnostic trouble codes (DTC) and Finish Work.
- 16 Remove the wheel chocks.



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Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	W
Labour Code	
Primary Labour Code: Engine Control Module (ECM), Software update Secondary Labour Code: Take charge	2841-22-09-14 0.3hrs 1700-16-01-01 0.3 hrs
Causal Part	3092091
SCC Code	S7426
Expiration Date	02-28-2021

VOLVO Trucks North America reserves the right to make any changes in design or to make additions to or upon its products without incurring any obligations to install the same on vehicles previously built.

Take charge may be eligible, but can only be used once per vehicle repair visit. If the vehicle is having other warranty repairs performed, take-charge should be charged to the warranty repair, otherwise take-charge can be charged to this Service Program.