

Service Program Trucks

Date Group No. Release Page 7.2018 **284 067 01** 1(8)

Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Software Updates D13M VAH, VHD, VN

SP 284-067, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Software Updates

(July 2018)

Information

Software updates with enhancements are available for the Engine Control Module (ECM) and Aftertreatment Control Module (ACM), for certain VOLVO D13M engines with US2017 emission level, on vehicles built from November 2016 to July 2018.

Note: Follow the reprogramming procedure in the following order as outlined in this document:

- ECM reprogramming
- ACM reprogramming

USA142234712 PV729-SP284-067

The software updates address the following Diagnostic Trouble Codes (DTCs):

- P0471 Engine Exhaust Backpressure Circuit Range/Performance
- P04DB Crankcase Ventilation System Disconnected
- P009E Fuel Pressure Relief Control Performance / Stuck Off
- P0087 Fuel Rail/System Pressure Too low Bank 1
- P02EC Diesel Intake Air Flow Control System High Air Flow Detected
- P02ED Diesel Intake Air Flow Control System Low Air Flow Detected

Note: If any DTCs reoccur after software updates, they must be diagnosed properly before replacing components.

Required Tools

Premium Tech Tool (PTT) version 2.06.65 or higher

VOCOM Diagnostic Connector 88890304

Communication Interface 88890300 or 88894000

Note: Using other interfaces may affect programming speed.

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

Software Update Procedure

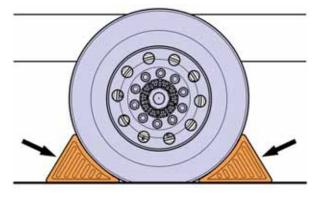
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engines" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.



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.

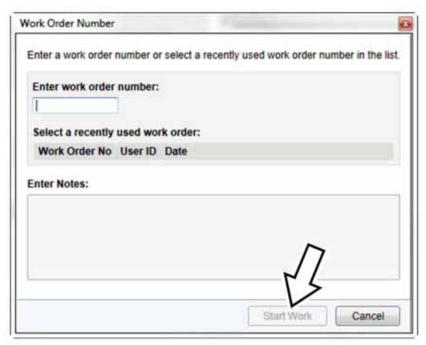
- 1 Park the vehicle on a level surface.
- 2 Apply the parking brake.
- 3 Place the transmission in neutral or park.
- 4 Install the wheel chocks.



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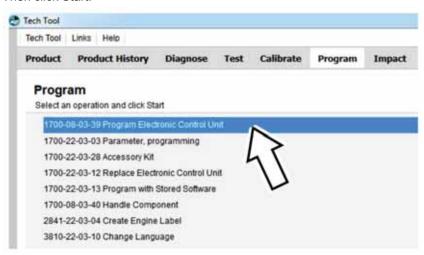
- 5 Verify service program eligibility by checking service program status in VDA.
- 6 Connect Premium Tech Tool (PTT) to the vehicle diagnostics connector using the 16 pin OBD cable 88890304 and Communication Interface 88890300 or 88894000. Connect the PC to a functional LAN or modem connection and a 120 Volt AC source.

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

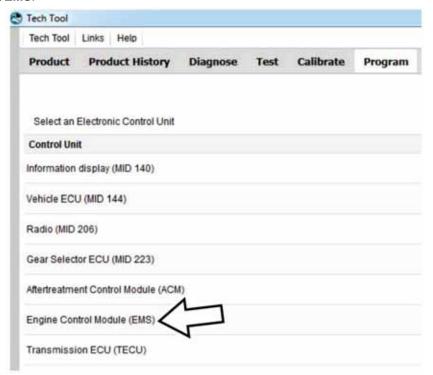


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10 From the Main Menu select Program and **then** Program Electronic Control Unit 1700-08-03-39. Then click Start.

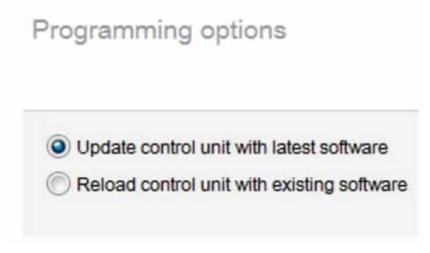


11 Select EMS.

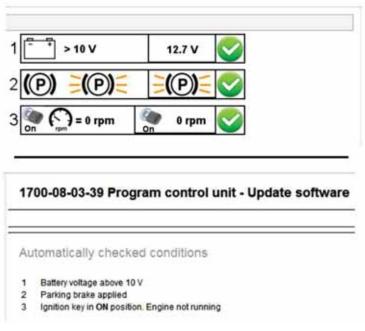


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12 Select Program to update the **EMS** with the latest software.



13 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.



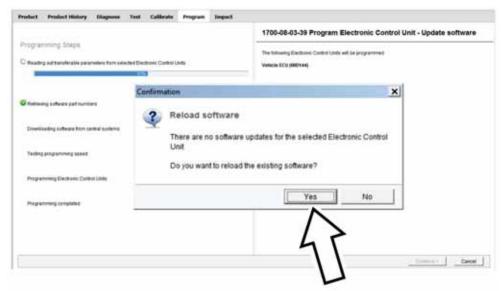
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14 Select "I accept" to agree to the terms and press continue to proceed.

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

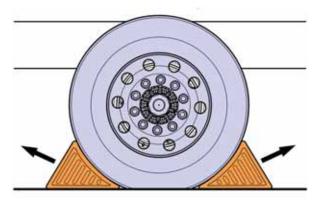


15 If the software is already updated, this screen opens. Select Yes to reload existing software.



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- 16 When the programing is complete, clear any diagnostic trouble codes (DTC) and Finish.
- 17 When programming is complete, click Exit to return to Main Menu to program the ACM.
- 18 When all programing is complete, clear any diagnostic trouble codes (DTC) and Finish Work.
- 19 Remove the wheel chocks.



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Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement
Recall Status	
Vehicle inspected, repair not required	1- Inspected OK
Vehicle repaired per instruction	2- Modified per instruction
Labor Code	
Primary Labor Code: Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Software Updates	2841–22–09–20 0.4 hrs
Time to take charge and determine campaign status	1700–16–01–01 0.3 hrs
Causal Part	3092091
Parts Disposition	N/A
SCC Code	S7318
Authorization Number	N/A
Expiration Date	25- JUN - 2019

Note: Take Charge Time is not included in the Labor Code for this operation. Take charge may be eligible but can only be used once per repair visit. If 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.