

(June 2018)

Information

Software updates with enhancements are available for the engine control module (ECM) and aftertreatment control module (ACM) for VOLVO D11, D13 and D16 engines on OBD2015 vehicles built from January 1, 2015 to December 31, 2015.

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

- ECM reprogramming
- ACM reprogramming

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

- P026C - Fuel Injector, Low Mass Flow
- P0507 - Idle Engine Speed Rationality: Idle Speed High
- P2002 - PM Filter Efficiency Monitor
- P0422 - Catalyst 2 Efficiency Below Threshold (Bank 1)
- P226D - Diesel Particulate Filter (DPF) Missing Substrate
- P249C - Time to Enter DEF (Diesel Exhaust Fluid) Dosing
- P208E - Aftertreatment Reagent Dosing Valve Clogged
- P2459 - Too Frequent Regeneration
- P24A4 - DPF Restriction - Soot Accumulation Too High (Bank 1)
- P10FE - DPF Restriction - Soot Accumulation Moderately High (Bank 1)
- P226C - Boost Pressure Slow Response
- P249F - Excessive Time to Enter Closed Loop DPF Regeneration Control
- P24A0 - Closed Loop DPF Regeneration Control at Limit - Temperature Too Low
- P208A - Aftertreatment DEF Pump: Open Circuit
- P20CF - (AHI) Fuel Injector "A" Stuck Open
- P226C00 - Turbocharger Boost Control "A" Slow Response
- P205B - Aftertreatment DEF tank Temperature Sensor: Rationality Low
- P20128 - Engine Cooling System: Stuck Open or Leaking Thermostat Monitor

Check the current main software for ECM and ACM 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
ACM	Main Software	Action Required
D11/ D13	Equal or Less Than	Update to Latest

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/ D16	22741796	Software
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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 on Help tab and then click on "About Tech Tool".

Software Update Procedure

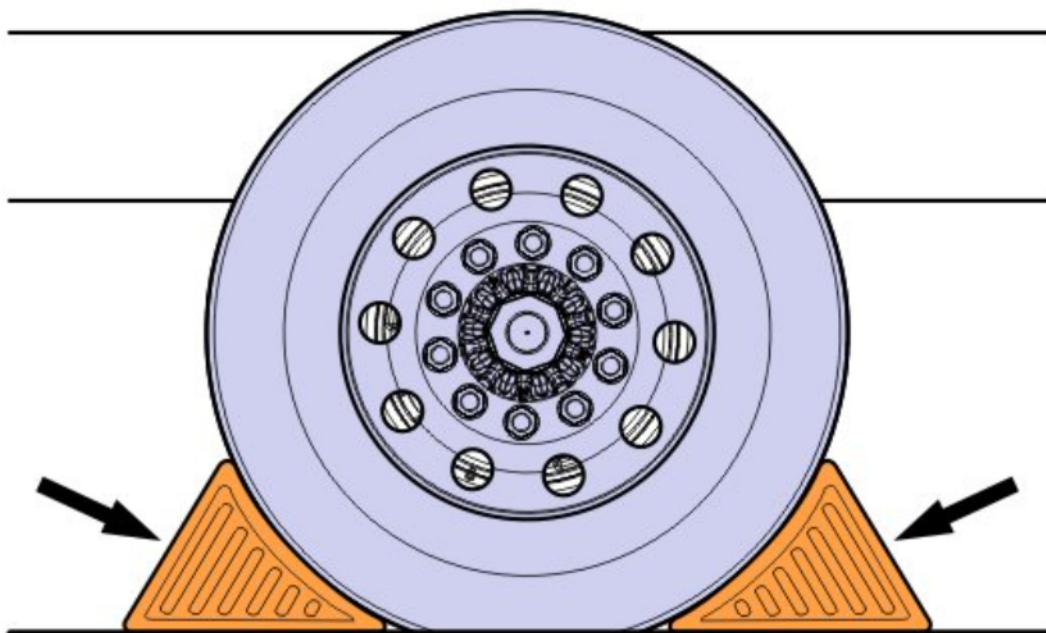
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engines" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.



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.



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.

Work Order Number

Enter a work order number or select a recently used work order number in the list.

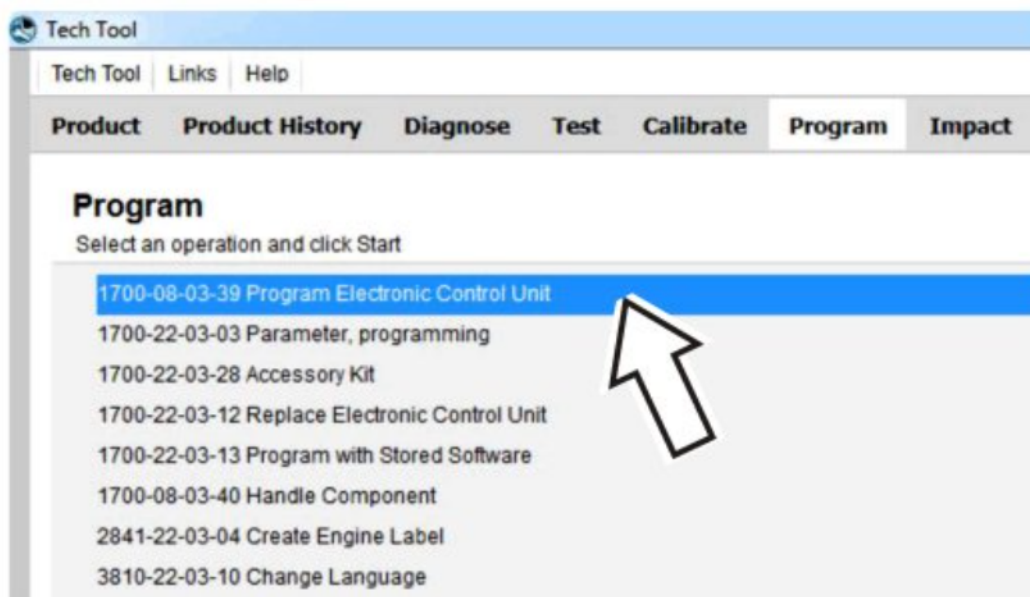
Enter work order number:

Select a recently used work order:

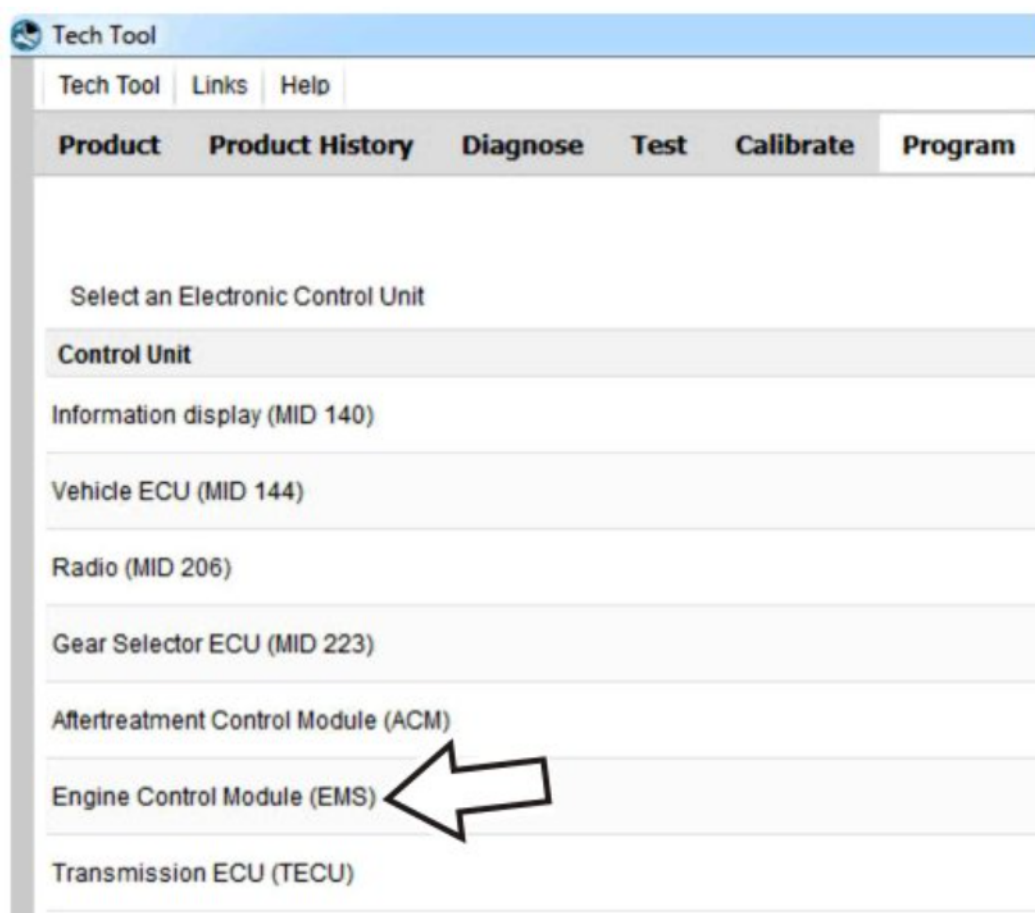
Work Order No	User ID	Date

Enter Notes:

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



10. Select Engine Control Module (EMS).

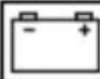


11. Select Program to update the ECM with the latest software.

Programming options

- ☒ Update control unit with latest software
☐ Reload control unit with existing software

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	 On  = 0 rpm	 On 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

13. 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.

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

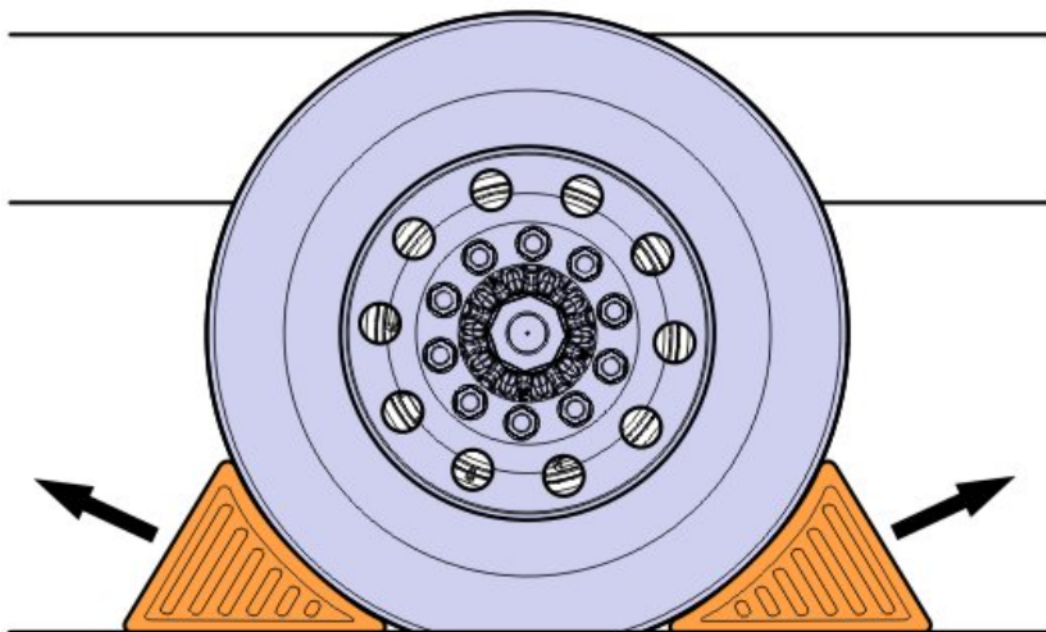
The number can be used for price lookup in your local system and will be specified on the invoice.



I accept

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

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



Reimbursement

This repair may be eligible for reimbursement if a product failure

UCHP
Reimbursement

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was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	W
Labor Code	
Primary Labor Code (Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming)	2841-22-09-16 0.4 hrs.
Causal Part	3092091

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