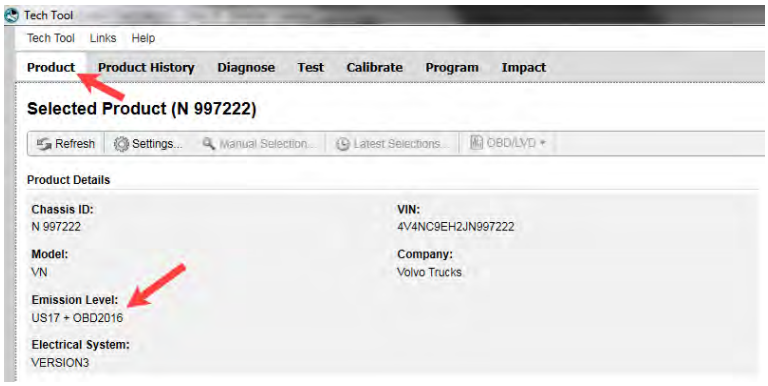
Volvo Chassis - Diagnostic Trouble Code (DTC) P208A Lighting The Malfunction Indicator Lamp (MIL) - US14+OBD13 And US14+OBD15 Emissions, Common Model Years 2015 And 2016

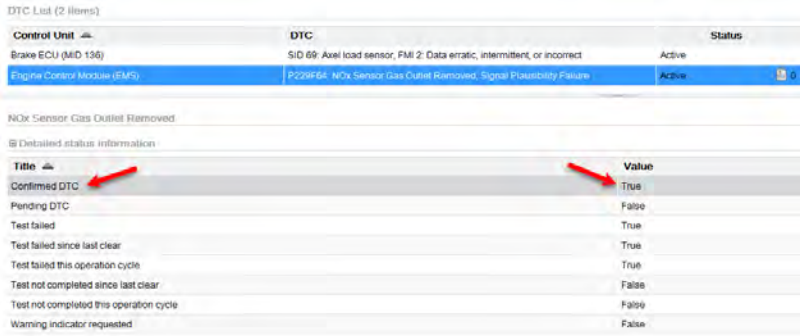
Internal Content

Verify the chassis emissions level

• Details can be found in the Product Details box on the Product tab in PTT as seen below:



Review the Detailed Status Information for the relevant code on the DTC Readout.



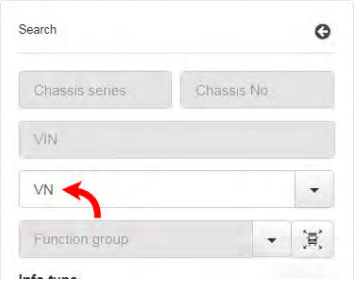
Software improvements have been released for both emissions levels to address this DTC. Field Service Bulletins with information and instructions have been published for each emissions level. Both FSBs can be found under the Service tab in Impact, Function Group Live UI e articles can also be searched for by Title. Refer to the chart below for the correct bulletin information:

Emissions Level (Model Year)	Field Service Bulletin
US14+OBD13 (2015)	FSB 284-066 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming
US14+OBD15 (2016)	FSB 284-064 Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

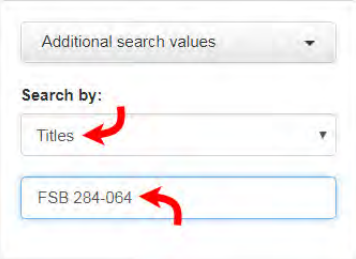
If the Bulletin does not appear when searched with either VIN or Chassis information entered, search by model:

1. Clear any chassis information from the Search box.

2. Select or enter the applicable model.



3. Make sure Title is selected in the Search By field. Enter the correct Bulletin title in the text entry field.

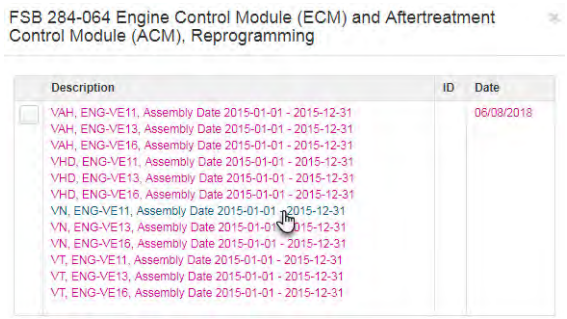


4. Press the Search button. The operation will appear in the results window.



5. Select the correct vehicle configuration from the list that appears as below:

Live UI



If software shows to be current, ensure the Confirmed DTC status is True as shown above, then proceed with diagnostics. Review and diagnose any related codes prior to replacing any parts for P208A findings.
- **If the Confirmed DTC status is FALSE**, DO NOT proceed with diagnosis. Address any other issues, clear the codes, and release the chassis.

Tags p208a13 k40341485 p208a-13 volvo

Live UI

Related links and attachments **Feedback**

Related links and attachments

KC-429 FSB 284-066

KC-429 FSB 284-064

Feedback

Give feedback

to help improve the content of this article

Live UI

(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 – To 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

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

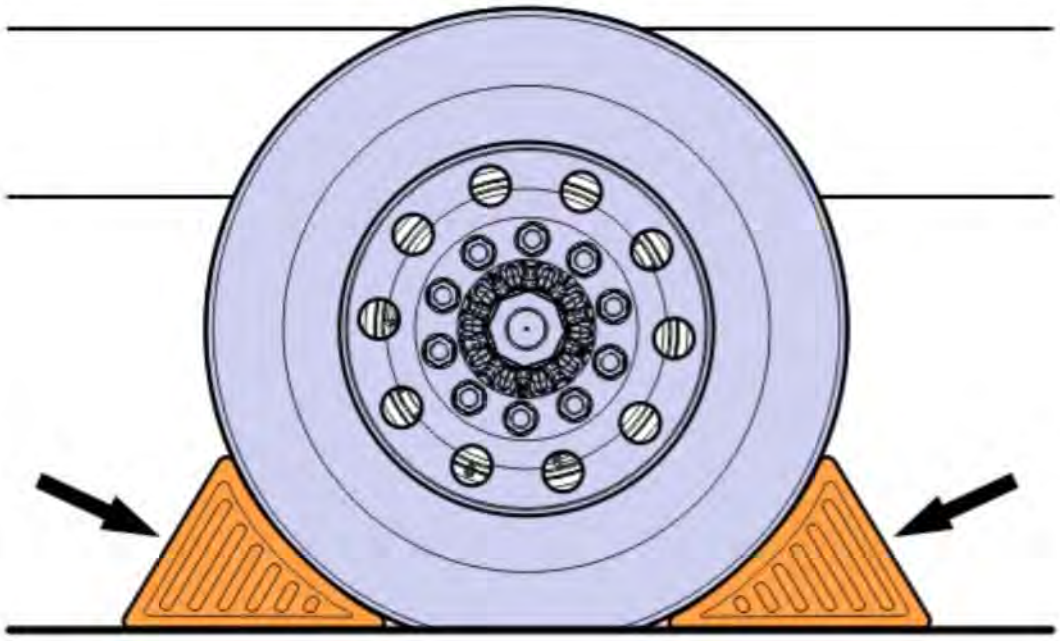
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engines" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

Danger

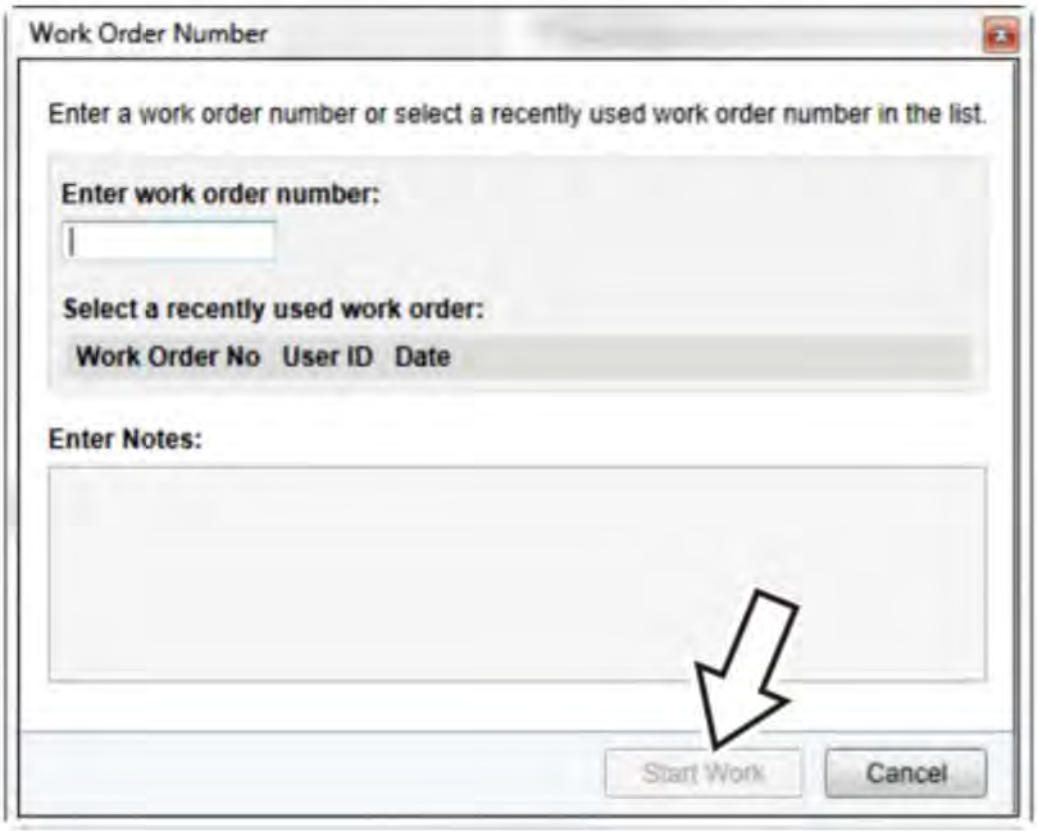
Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

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.

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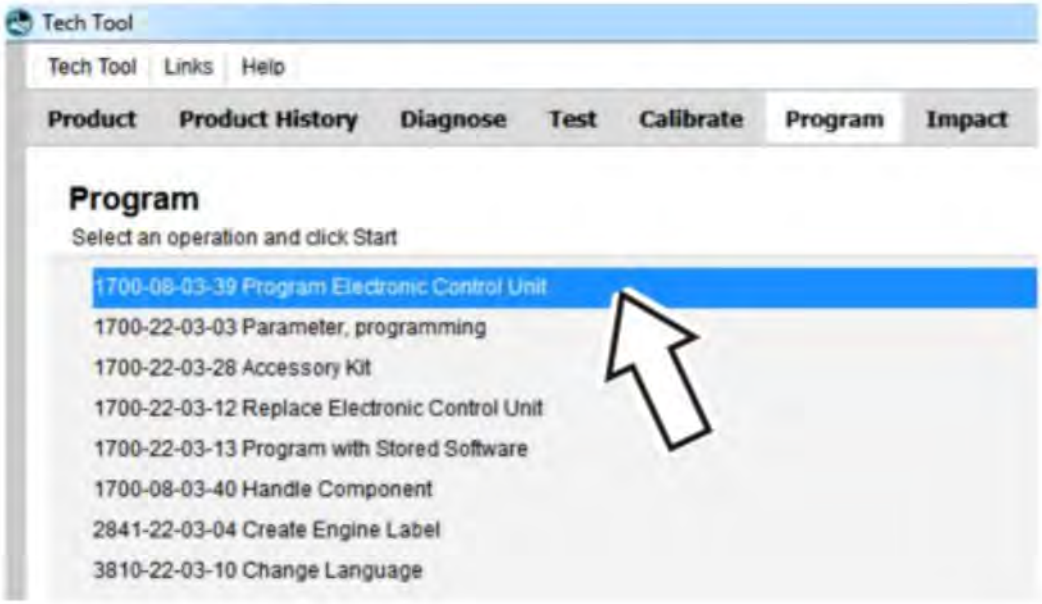


5. Connect Premium Tech Tool (PTT) to the vehicle diagnostics connector using the 16 pin OBD cable 88890304 and Communication Interface 88890300. Connect the PC to a functional LAN or modem connection and a 120 Volt AC source.
6. Turn the ignition switch “ON”.
7. Log in to PTT and Identify Vehicle is displayed.
8. Once the vehicle has been identified, enter the Work Order Number information, then click Start Work.

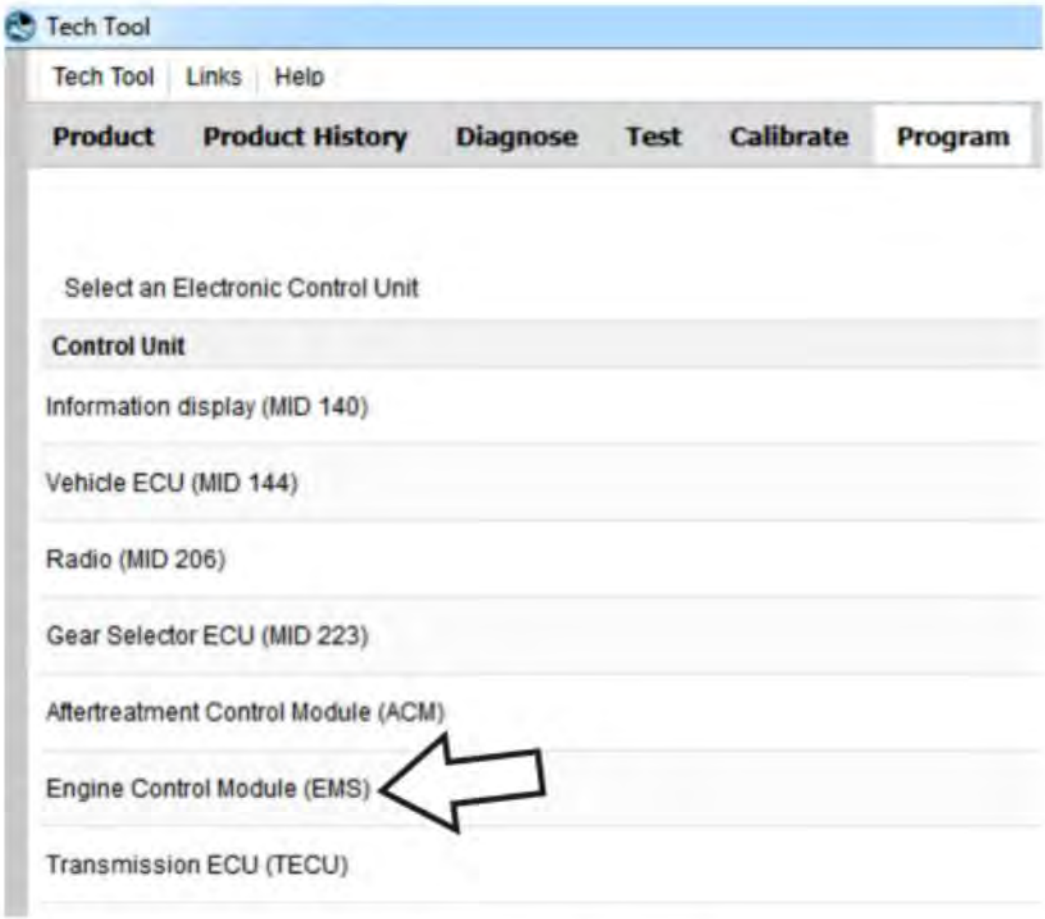


9. From the Main Menu select Program and then Program Electronic Control Unit 1700-08-03-39. Then click Start.

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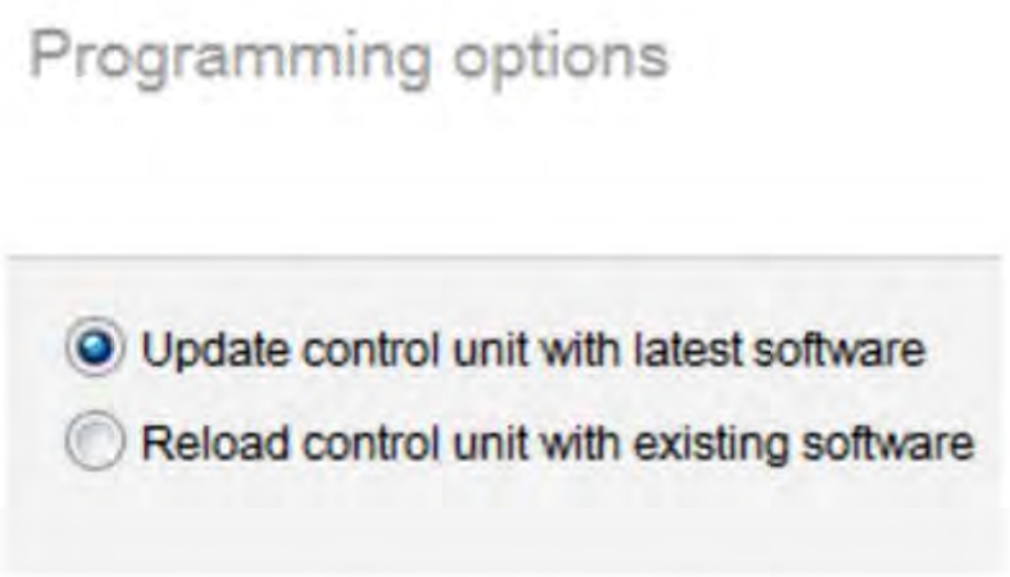


10. Select Engine Control Module (EMS).

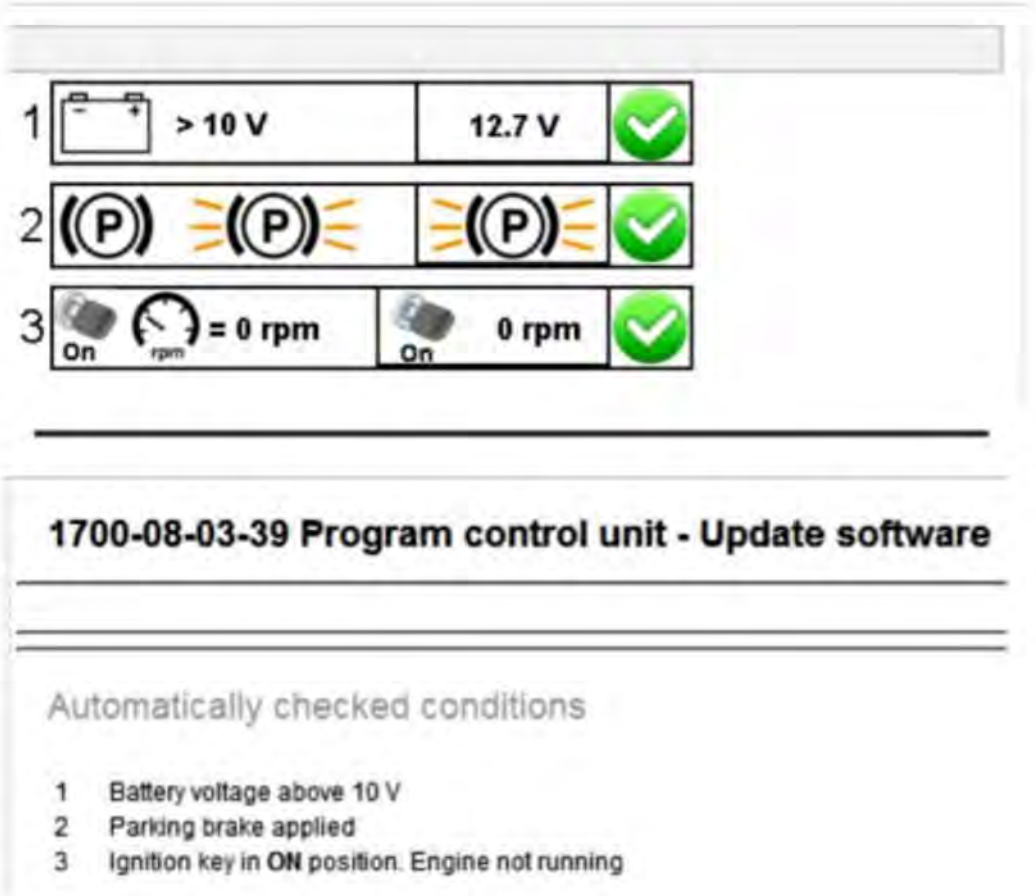


11. Select Program to update the ECM with the latest software.

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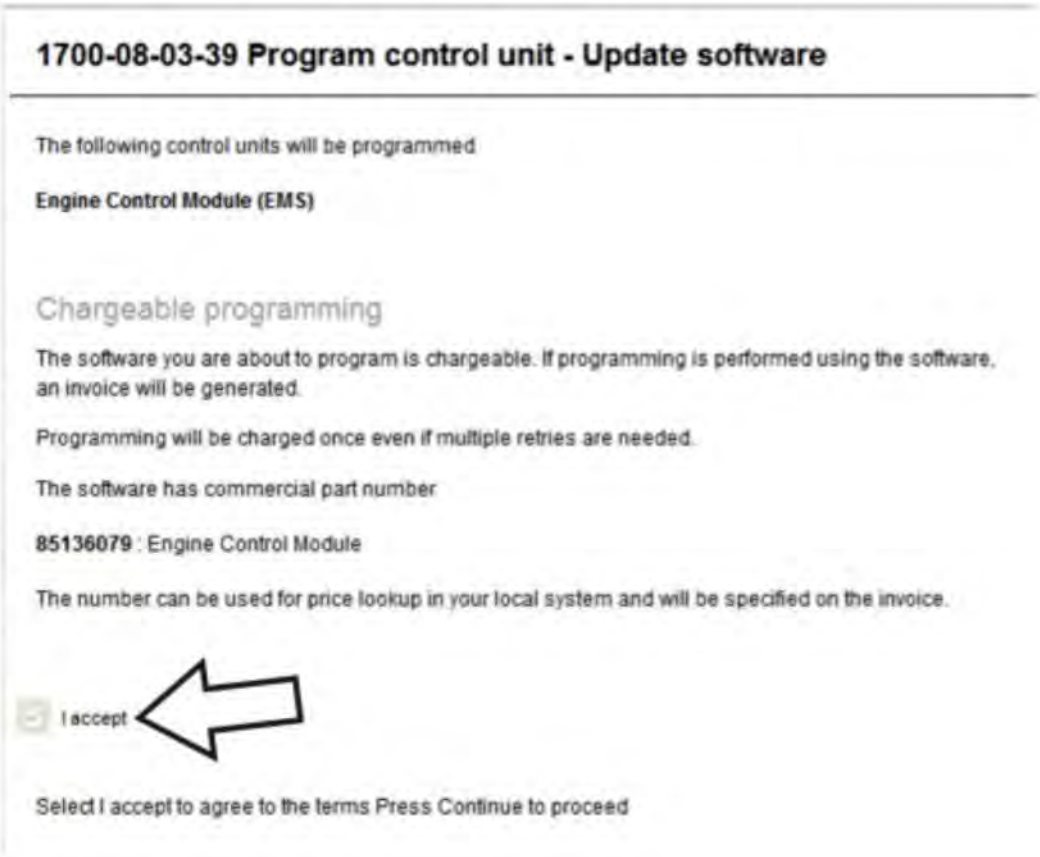
12. Certain conditions must be met to continue with programming: battery voltage above 10v, parking brake applied, and ignition key in ON position with engine not running. When all conditions have been met, click Continue to proceed with programming.



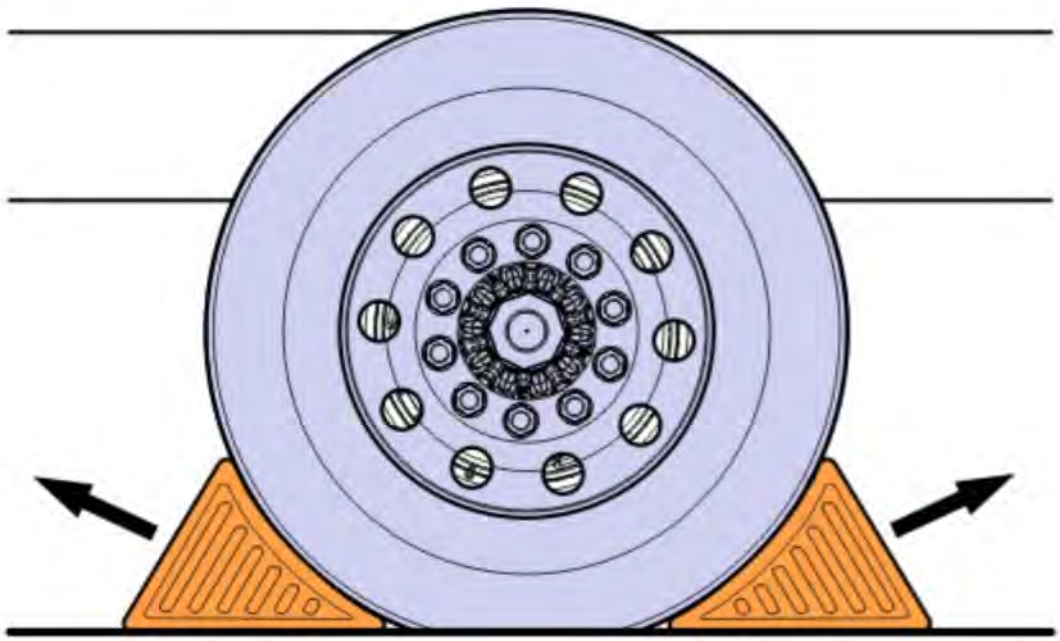
13. Select "I accept" to agree to the terms and press continue to proceed.

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

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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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(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 OBD2014 vehicles built from January 1, 2014 to December 31, 2014.

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
- P208A – Aftertreatment DEF Pump: Open Circuit
- P208E – Aftertreatment Reagent Dosing Valve Clogged
- P226C – Boost Pressure Slow Response
- P24A4 – Diesel Particulate Filter Restriction - Soot Accumulation Too High (Bank 1)
- P10FE – Particulate Filter Restriction - Soot Accumulation Moderately High (Bank 1)

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 22728362	Update to Latest Software
D16	Equal or Less Than 22728362	Update to Latest Software
ACM	Main Software	Action Required
D11 / D13 / D16	Equal or Less Than 22490157	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 on Help tab and then click on "About Tech Tool".

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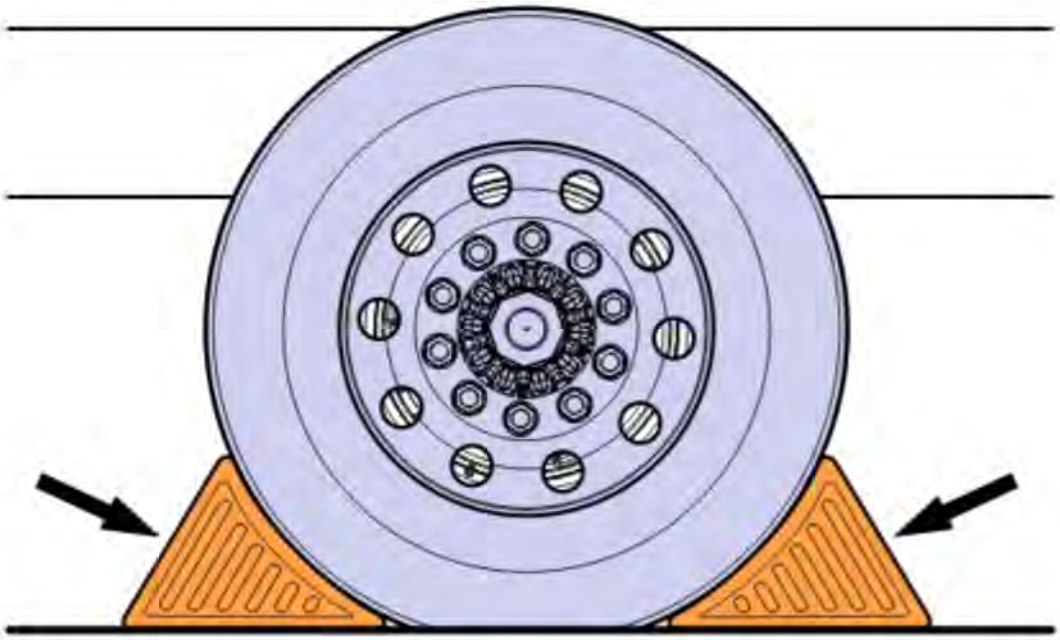
Software Update Procedure

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

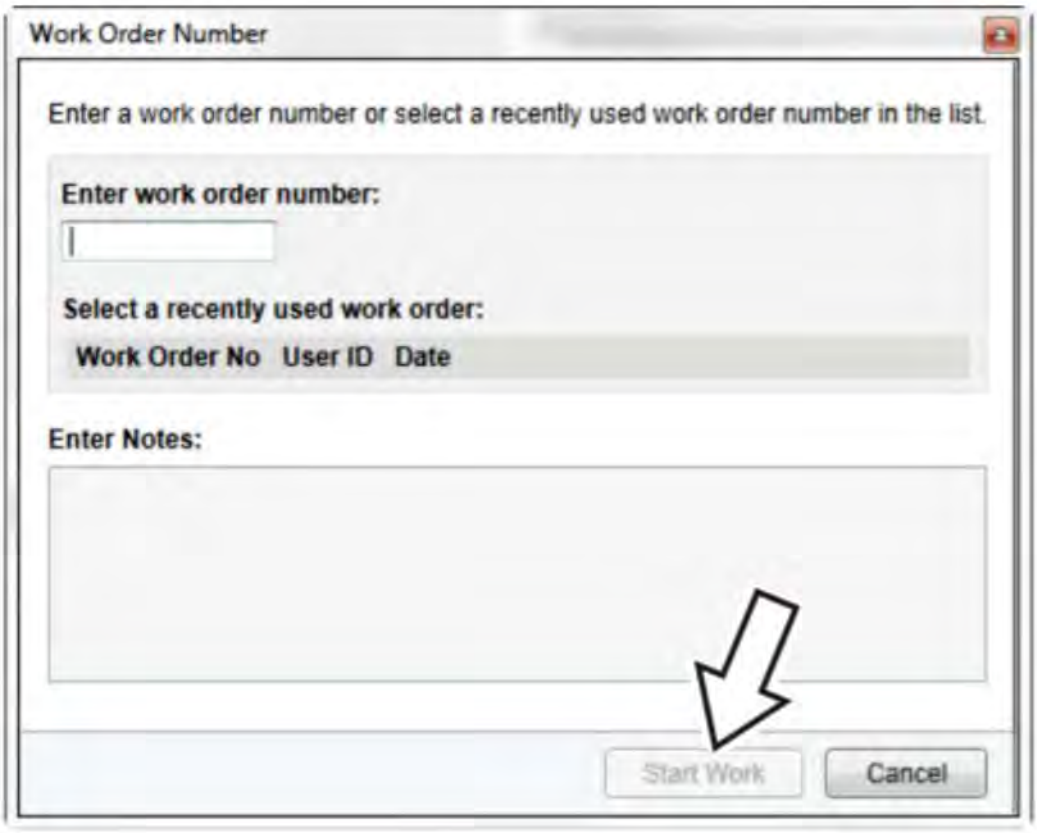
Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

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.

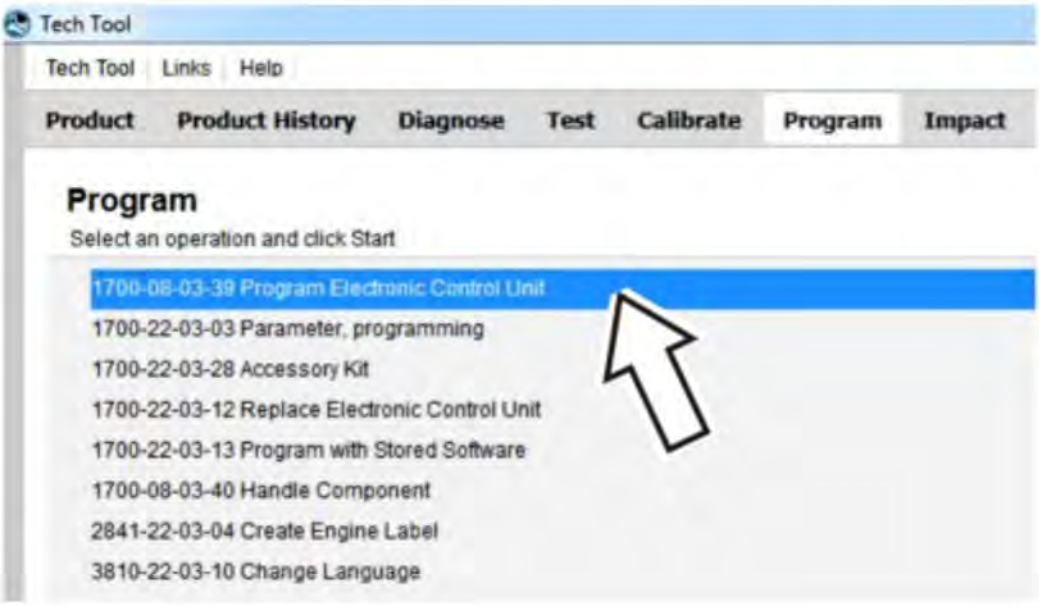


5. Connect Premium Tech Tool (PTT) to the vehicle diagnostics connector using the 16 pin OBD cable 88890304 and Communication Interface 88890300. Connect the PC to a functional LAN or modem connection and a 120 Volt AC source.
6. Turn the ignition switch “ON”.
7. Log in to PTT and Identify Vehicle is displayed.
8. Once the vehicle has been identified, enter the Work Order Number information, then click Start Work.

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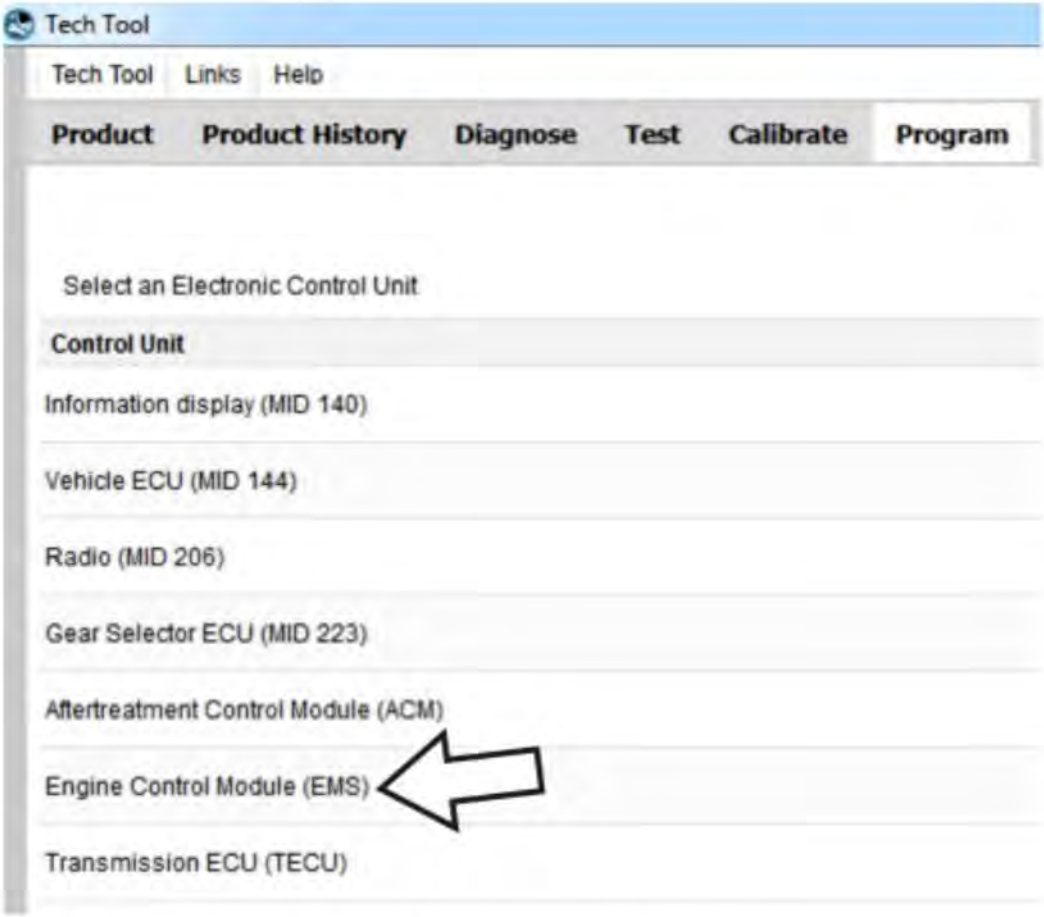


9. From the Main Menu select Program and then Program Electronic Control Unit 1700-08-03-39. Then click Start.

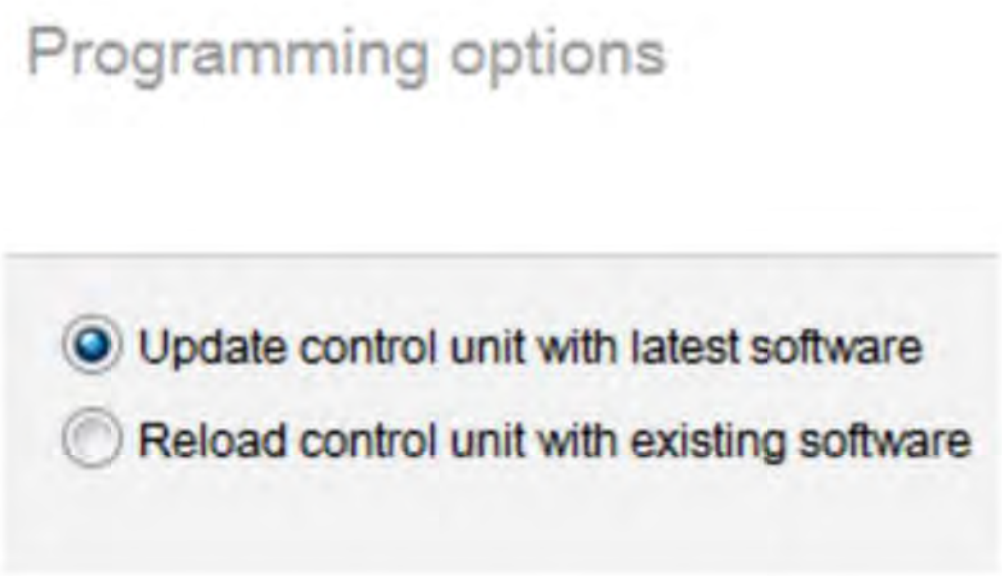


10. Select Engine Control Module (EMS).

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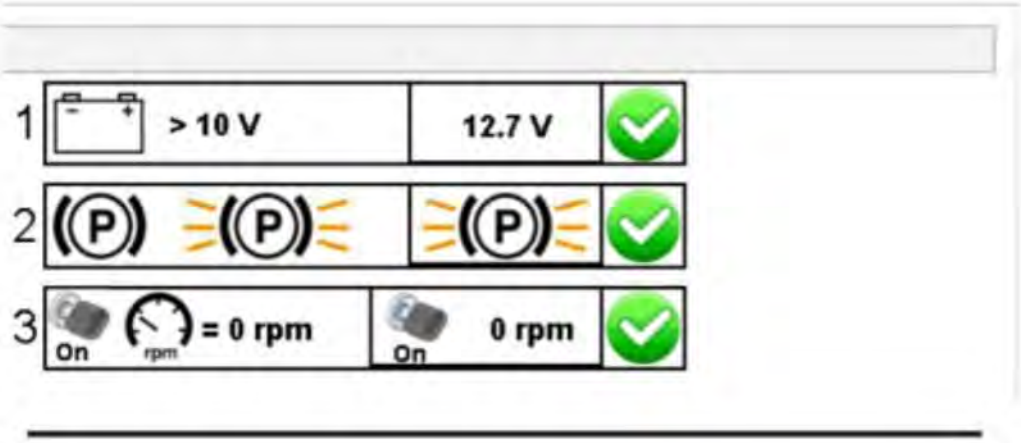


11. Select Program to update the ECM with the latest software.



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.

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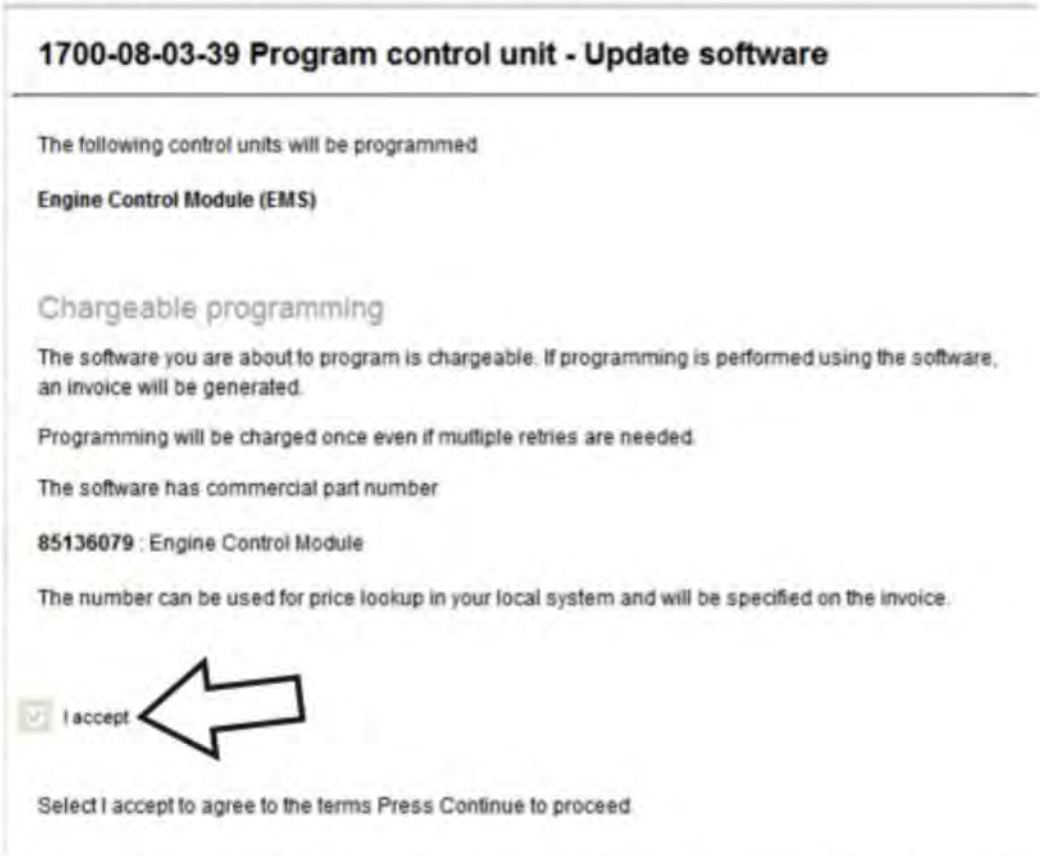
1700-08-03-39 Program control unit - Update software

Automatically checked conditions

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

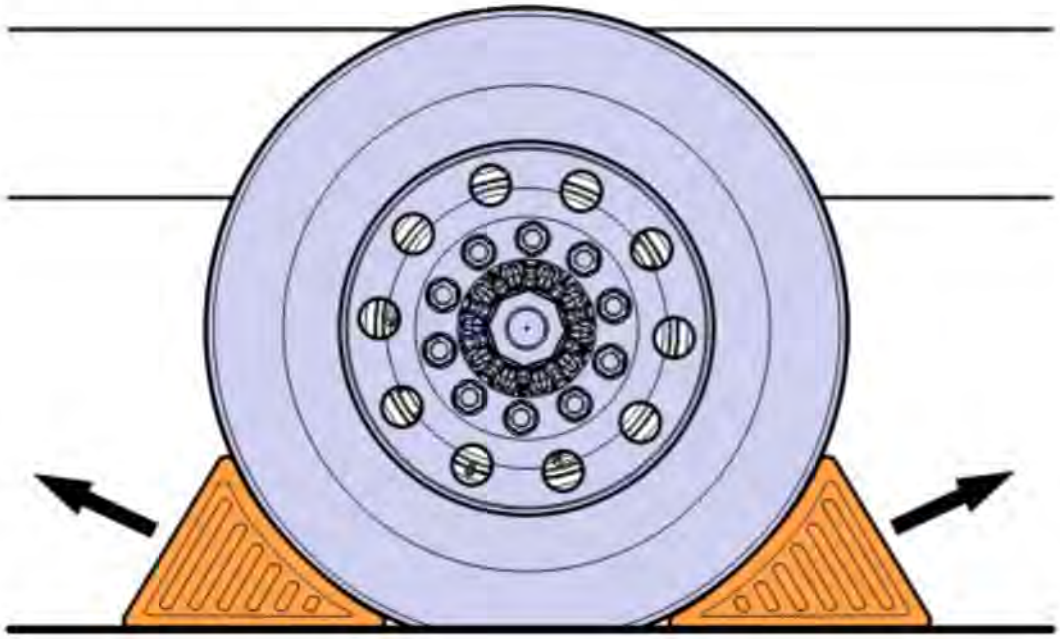
13. Select “I accept” to agree to the terms and press continue to proceed.

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



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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 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
Labor Code	
Primary Labor Code (Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming)	2841-22-09-18 0.4 hrs.
Causal Part	3092091

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