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Engine Control Module (ECM) and
Aftertreatment Control Module (ACM),
Reprogramming
CHU, CXU, GU, LEU, MRU, TD, PI, AN, GR,
LR, TE,

FSB 284-065, Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming

(March 2018)

Information

Software updates with enhancements are available for the engine control module (ECM) and aftertreatment control module (ACM) for MACK MP7, MP8 and MP10 engines on OBD2016 vehicles built from January 1, 2016 to December 31, 2016.

Note: This bulletin does not apply to MACK Trucks Australia.

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
- P0422 – Catalyst 2 Efficiency Below Threshold (Bank 1)
- P0507 – Idle Engine Speed Rationality: Idle Speed High
- P10FE – Particulate Filter Restriction - Soot Accumulation Moderately High (Bank 1)
- P208E – Aftertreatment Reagent Dosing Valve Clogged
- P226C – Boost Pressure Slow Response
- P226D – Particulate Filter Deteriorated/Missing Substrate Bank 1
- P24A0 – Closed Loop DPF Regeneration Control at Limit – Temperature Too Low
- P24A4 – Diesel Particulate Filter Restriction - Soot Accumulation Too High (Bank 1)
- P2459 – Diesel Particulate Filter Regeneration Frequency (Bank 1)
- P249C – Excessive Time To Enter Closed Loop Reductant Injection Control
- P249F – Excessive Time to Enter Closed Loop-Regeneration Control

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
MP7 / MP8	Equal or Less Than 22898389	Update to Latest Software
MP10	Equal or Less Than 23169815	Update to Latest Software
ACM	Main Software	Action Required
MP7 / MP8 / MP10	Equal or Less Than 22825019	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".

Software Update Procedure

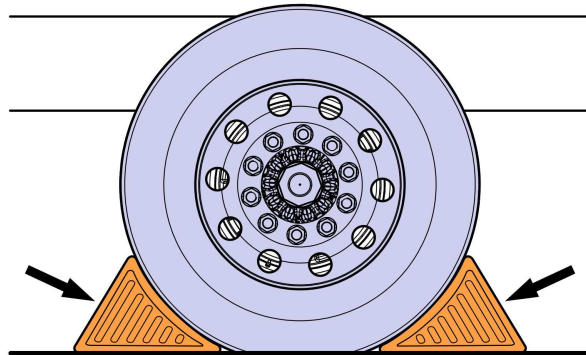
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engines" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.



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.

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
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Enter Notes:

Start Work Cancel

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

Tech Tool

Tech Tool Links Help

Product Product History Diagnose Test Calibrate **Program** Impact

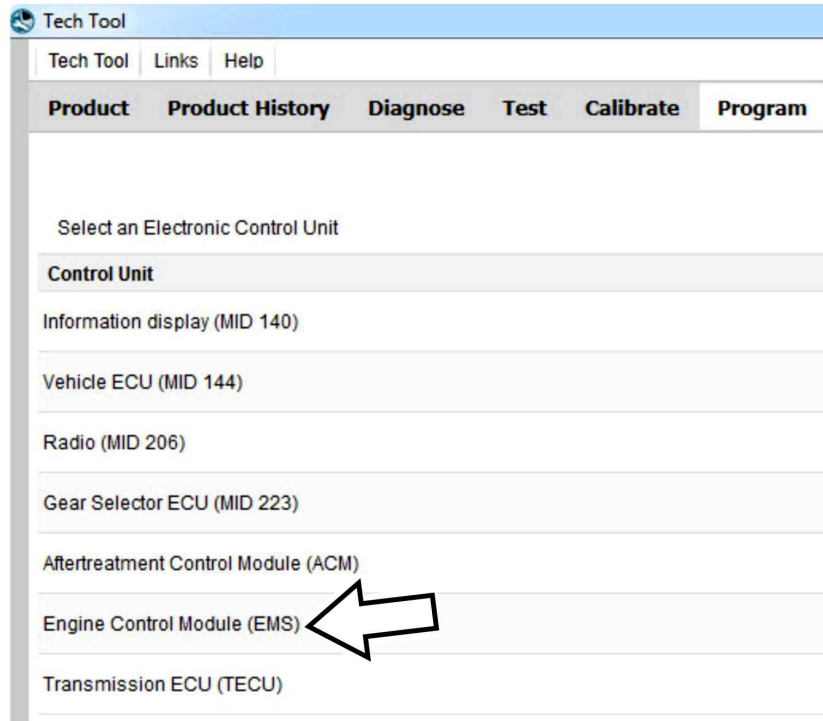
Program

Select an operation and click Start

- 1700-08-03-39 Program Electronic Control Unit**
- 1700-22-03-03 Parameter, programming
- 1700-22-03-28 Accessory Kit
- 1700-22-03-12 Replace Electronic Control Unit
- 1700-22-03-13 Program with Stored Software
- 1700-08-03-40 Handle Component
- 2841-22-03-04 Create Engine Label
- 3810-22-03-10 Change Language

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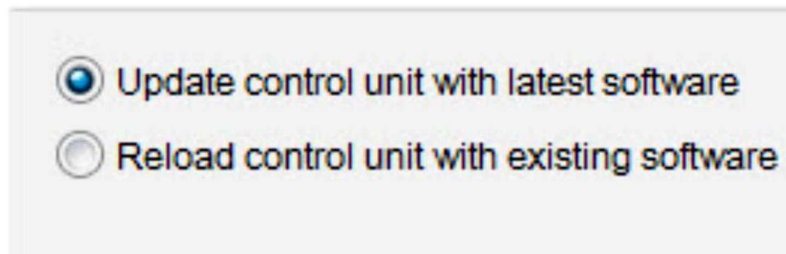
10 Select **Engine Control Module (EMS)**.



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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 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

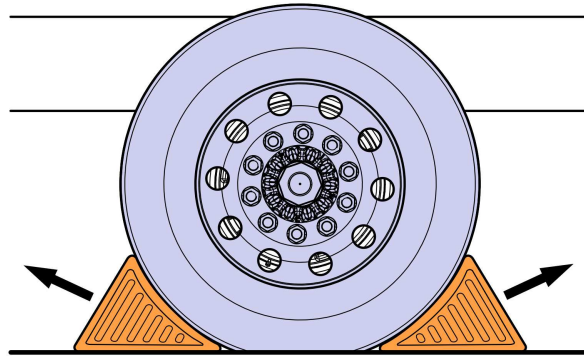
The number can be used for price lookup in your local system and will be specified on the invoice.

I accept 

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

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- 14 When programming is complete, click Exit to return to Main Menu to program the ACM.
- 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

<p>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.</p>	<p>UCHP Reimbursement</p>
<p>Claim Type (used only when uploading from the Dealer Bus. Sys.)</p>	<p>01</p>
<p>Labor Code</p>	<p style="background-color: #cccccc;"></p>
<p>Primary Labor Code (Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming)</p>	<p>2841-22-09-17 0.4 hrs.</p>
<p>Causal Part</p>	<p>3092091</p>

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