



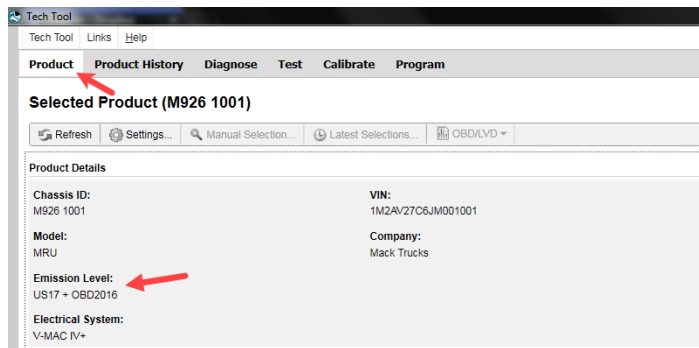
Mack Chassis - Diagnostic Trouble Code (DTC) P009E-73 - Fuel Pressure Relief Control Performance / Stuck Off - US17+OBD16 And US17+OBD18 (GHG17) Emissions (With Common Rail Fuel System), Commonly Model Years 2018 And 2019



> 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:



Once the chassis is confirmed to be US17+OBD16 or US17+OBD18:

Software improvements have been made that address this DTC.
There are two documents that should be reviewed:

1. Product Improvement [PI0883 Engine Control Module \(ECM\) and Aftertreatment Control Module \(ACM\), Software Updates](#) was released July 2018. This product improvement should appear under the Campaigns section of the Product screen of Premium Tech Tool (PTT) when first connecting to the vehicle. **Applicability to this campaign should be checked first.**

- The Service Program document can be found on the dealer [Mack Trucks eMedia](#).



• **Note:** There will be a prompt to sign in to the Trucks Dealer

Portal site if necessary.

- Searching for PI0883 will return a link to the bulletin.

- If the PI applies to the product it is not necessary to proceed to the Field Service Bulletin below.

2. Field Service Bulletin FSB 284-067 [Engine Control Module \(ECM\) and Aftertreatment Control Module \(ACM\), Reprogramming](#) has been released and should be reviewed if the Product Improvement does not apply to the vehicle.

- The FSB document can be found on [Mack Trucks eMedia](#) or under the Service tab in [Impact](#).

- Searching for 284-067 will return a link to the document in either application.

3. If either of the above documents applied and there are no other issues present, the vehicle should be released when software updates have been completed.

 Tags

[k42200114](#)

[p009e-73](#)

[fsb 284-067](#)

[p009e73](#)

[mack](#)

 Live UI

Related links and attachments

No links or attachments available



Feedback

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to help improve the content of this article

(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 OBD2017 and OBD2018 vehicles built from January 1, 2017 to March 01, 2018.

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):

- P0420 – Catalyst System Efficiency Below Threshold
- P02FA – Diesel Intake Air Flow Position Sensor Minimum / Maximum
- P24DA – Particulate Matter Sensor Exhaust Sample Error Bank 1
- P009E – Fuel Pressure Relief Control Performance / Stuck Off
- P0471 – Engine Exhaust Back Pressure Circuit Range/Performance
- P1031 – Particulate Matter Sensor Clogged Tip

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 23080716	Update to Latest Software
D16	Equal or Less Than 22825014	Update to Latest Software
ACM	Main Software	Action Required
D11 / D13 / D16	Equal or Less Than 23004689 (D11) 22883002 (D13) 22825000 (D16)	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”.

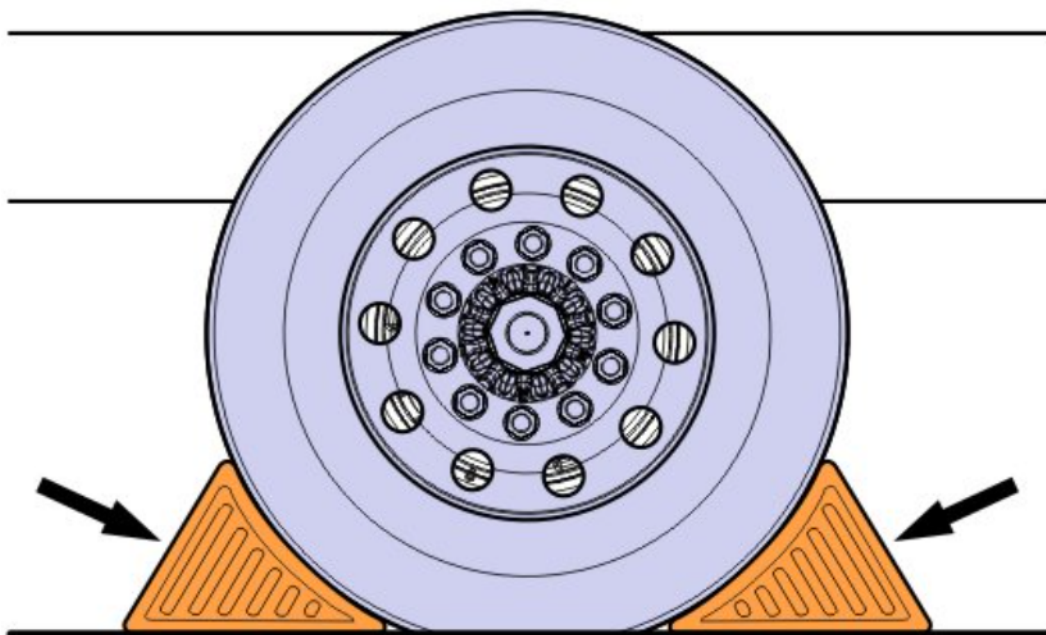
Software Update Procedure

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.



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:

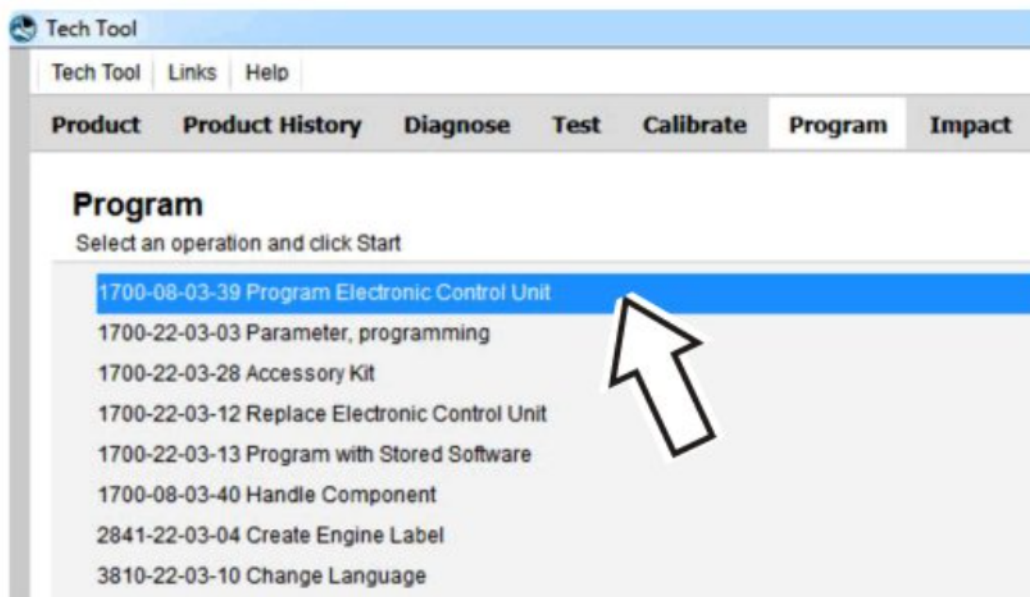
Select a recently used work order:

Work Order No	User ID	Date
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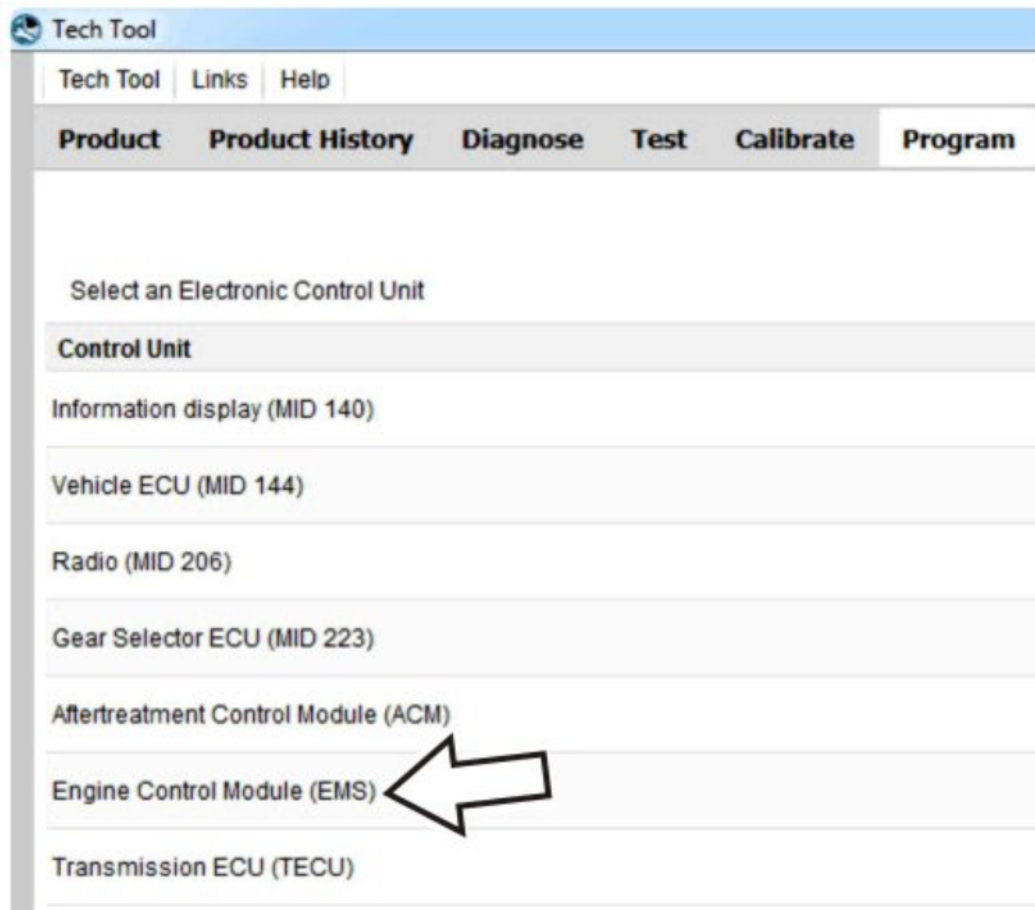
Enter Notes:

Start Work Cancel

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

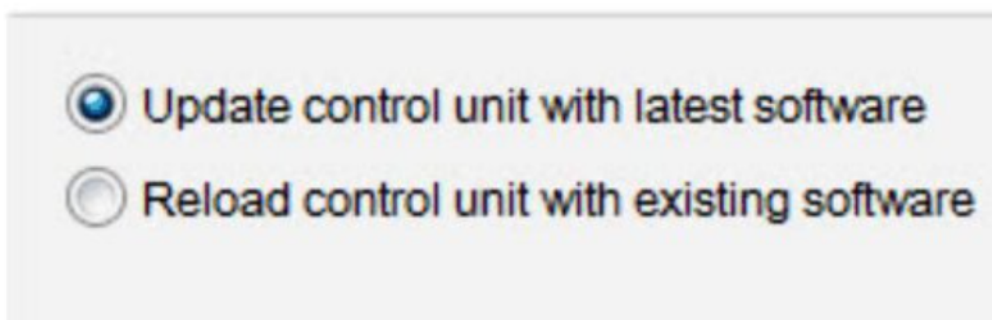


10. Select Engine Control Module (EMS).

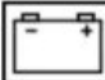











11. Select Program to update the ECM with the latest software.

Programming options



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 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

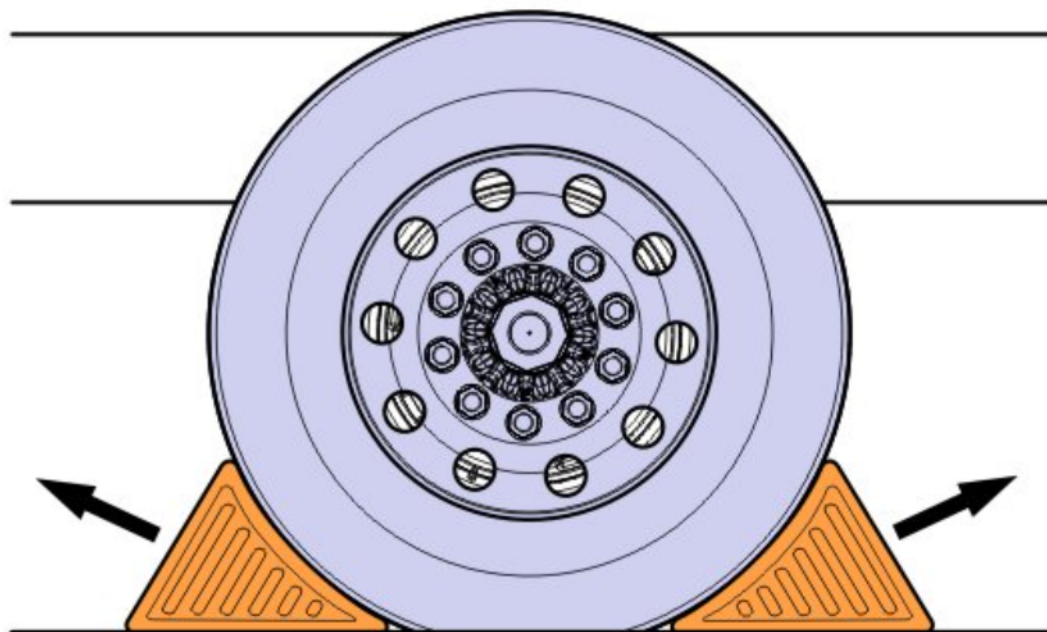
The number can be used for price lookup in your local system and will be specified on the invoice.

I accept



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

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

<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>W</p>
<p>Labor Code</p>	
<p>Primary Labor Code (Engine Control Module (ECM) and Aftertreatment Control Module (ACM), Reprogramming)</p>	<p>2841-22-09-19 0.4 hrs.</p>
<p>Causal Part</p>	<p>3092091</p>

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