

Date	Expiration	Release	Page
12.2021	12.2023	1	1(5)

First Release -

12-15-2021

ENGINE CONTROL MODULE (ECM) SOFTWARE UPDATE

Prevost vehicles

DESCRIPTION

On the vehicles affected by this bulletin, perform the engine software update **23958948.P01**.

Main software & Dataset update: US OBD20 EMS VGT running change release to address OBD and conditional certification items.

MODEL YEAR(S) AND VEHICLES INVOLVED

NOTICE TO SERVICE CENTERS		
Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.		
Model	VIN	Fleet Number
X3-45 Commuter Model Year: 2021	From 4RKJ33492 <u>M9737751</u> up to 4RKJ33495 <u>M9737825</u> incl. except 4RKJ33499 <u>M9737813</u> (DOB 1573)	From 1300 up to 1384 incl. & From 1557 up to 1585 incl.
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery.		

SOFTWARE TOOL NEEDED

Description
Latest version of Premium Tech Tool (PTT) with appropriate communication interface equipment

Date	Expiration	Release	Page
12.2021	12.2023	1	2(5)

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop the engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

1. Connect the vehicle's battery charger to a 120-Volt outlet.
2. Connect Premium Tech Tool (PTT) to the vehicle On-Board Diagnostics connector (OBD). Connect the PC to a functional LAN or Wi-Fi connection and a power source.
3. Turn the ignition switch to "ON". Activate the hazard warning flashers to prevent the vehicle from entering sleep mode.
4. Log in to PTT.
5. Enter the Work Order Number information and then click Start Work.

6. On **Product** tab (item A), identify the current vehicle (item B).

Date	Expiration	Release	Page
12.2021	12.2023	1	3(5)

Product Product History Diagnose Test Calibrate Program Impact

Selected Product (PREVH 720635)

Refresh Settings Manual Selection... Latest Selections... OBD/LVD

Product Details

Chassis ID: PREVH 720635 VIN: 2PCH33493KC720635

Model: PREVH Company: Volvo Buses

Emission Level: US17 + OBD2016

Electrical System: Multiplexed version 3

Connectivity

Status	Description
✓	VOCOM I (USB) is connected to the computer.
✓	The selected product PREVH 720635 is connected. Product Data Retrieved:
✓	Central Data Retrieved:

7. Select **Program** tab and then **1700-08-03-39 Program Electronic Control Unit**. Click **Start**.

Program

Select an operation and click Start

1700-08-03-39 Program Electronic Control Unit

1700-22-03-09 Parameter, programming

1700-22-03-02 System Date and Time

1700-22-03-06 Accessory Kit

1700-22-03-11 Campaign

1700-22-03-12 Replace Hardware

1700-22-03-13 Program with Stored Software

1700-08-03-40 Handle Component

1700-22-03-14 Synchronize electronic control unit data

3810-22-03-10 Change Language

3837-22-03-01 Odometer programming

1700-08-03-39 Program Electronic Control Unit

To run the operation in simulation mode, select Run as simulated

☐ Run as simulated

Description

This operation is used to program a selected Electronic Control Unit. Parameter values will be transferred to the new software

Note: DTCs in the programmed Electronic Control Units will be cleared

Update software

This option programs the selected Electronic Control Unit with updated software. If any other Electronic Control Units are affected by the update, they will also be programmed at the same time

Reload software

This option reloads the selected Electronic Control Unit with the software version that is currently in use by the control unit

Note: It may be necessary to perform calibrations after an Electronic Control Unit has been programmed. It is necessary to perform a DTC readout on the complete product after the operation in order to secure that no new active DTC has occurred

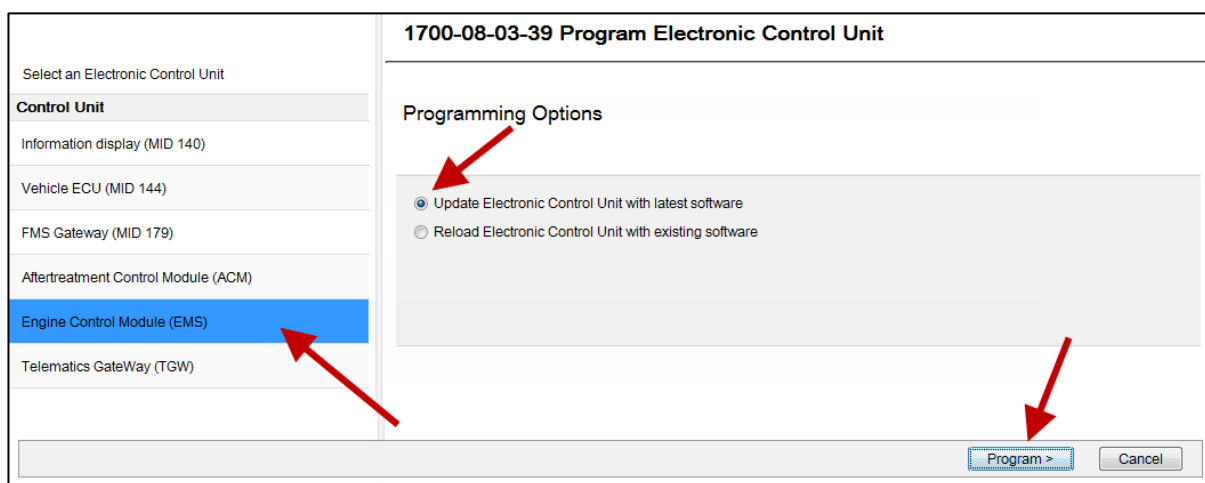
Start >

Date	Expiration	Release	Page
12.2021	12.2023	1	4(5)

8. Select **ENGINE CONTROL MODULE (EMS)**.
9. Select the following programming option "Update Electronic Control Unit with latest software".

NOTE: engine software update **23958948.P01**.

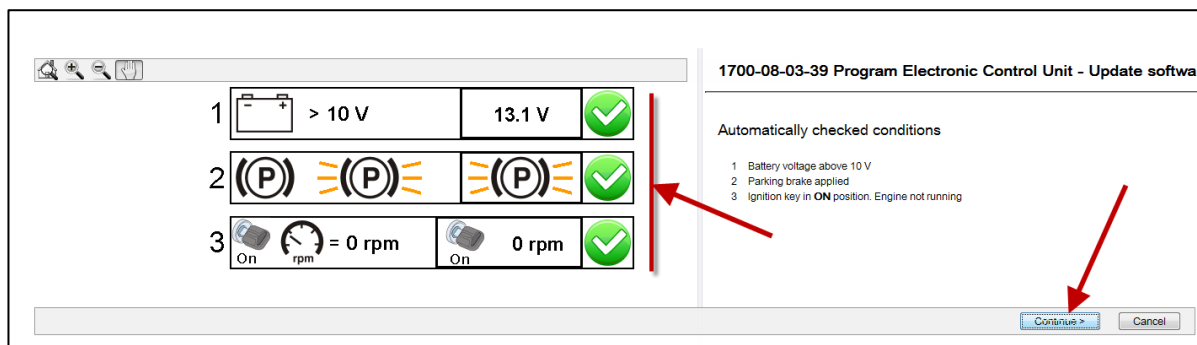
10. Click **Program** button.



11. Certain conditions must be met to allow programming:

- I. battery voltage above 10 Volts.
- II. parking brake applied.
- III. ignition key in ON position and the engine is not running.

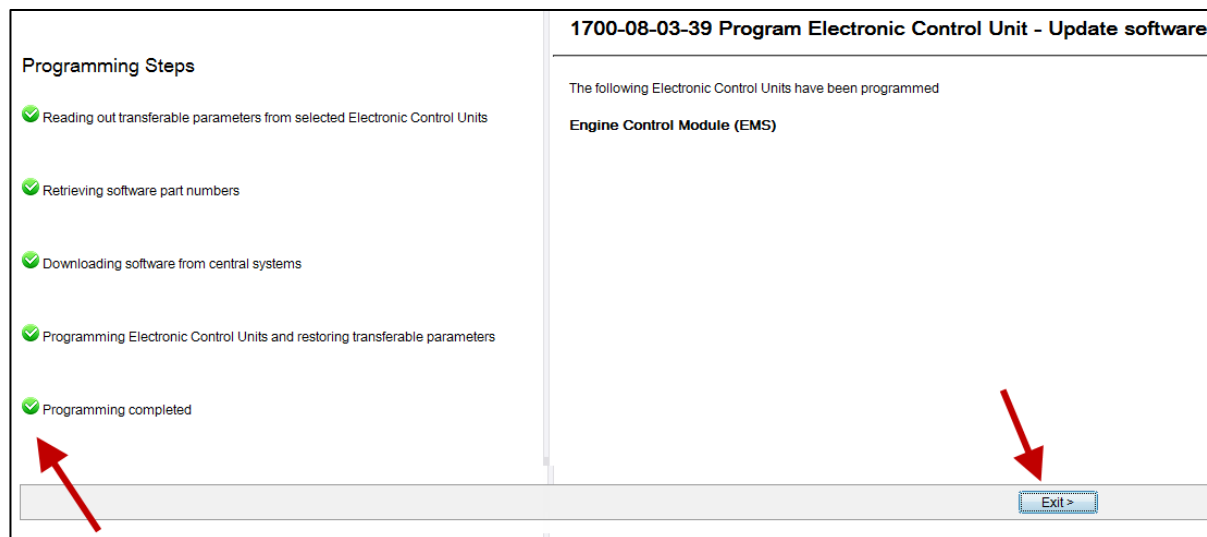
When all conditions have been met, click **Continue** to proceed with programming.



Date	Expiration	Release	Page
12.2021	12.2023	1	5(5)

12. Wait until all Programming Steps check turn to green color (Programming completed).

13. When the programing is complete, click **Exit** button.



14. Clear any diagnostic trouble codes (DTC).

ESTIMATED TIME

The time required to perform this special bulletin is ½ hour (0.5 h).

OTHER

VBC Bulletin	N/A
Fail Code	01.00-2
Defect Code	49
Syst. Cond	B
Causal Part	3092091

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