

REVISION B: THIS WARRANTY BULLETIN SUPERSEDES PREVIOUS VERSION.

Hold lifted. All vehicles programmed before January 20th, 2014 must be updated with the latest release.

**EMS & ACM SOFTWARE UPDATE
9700 (B13R)**

APPLICATION

NOTICE TO SERVICE CENTERS	
<i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevest website.</i>	
Model	VIN
Volvo 9700 B13R Model Year : 2013- 2014	From 3CET2S226 <u>D5156182</u> , up to 3CET2S224 <u>E5163729</u> incl.
<p>This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.</p>	

DESCRIPTION

Software updates with enhancements are available for the EMS and aftertreatment control module (ACM) for the vehicles affected by the bulletin.

All vehicles require a DPF Service Regeneration *and* Crystal Sublimation when programming is completed.

Software updates are to resolve the following diagnostic trouble codes (DTC).

- DTC P1086, Oil Level Moderately Low, low oil level light coming on during start up
- DTC P0420, NOx Catalyst: Missing SCR, catalyst system efficiency below threshold
- DTC P205B, Aftertreatment Diesel Exhaust Fluid (DEF) Tank Temperature Sensor: Rationality Low
- DTC P2002, PM Filter Efficiency Monitor, aftertreatment diesel particulate filter (DPF) efficiency fault

MATERIAL

No parts required for the bulletin.

REQUIRED TOOLS

Premium Tech Tool version 2.02.55 or higher Diagnostic Connector 88890304

Communication Interface 88890300 with firmware 1.12.0.2 or higher

Check Premium Tech Tool version by clicking on Help tab and then click on "About TechTool".



PROCEDURE

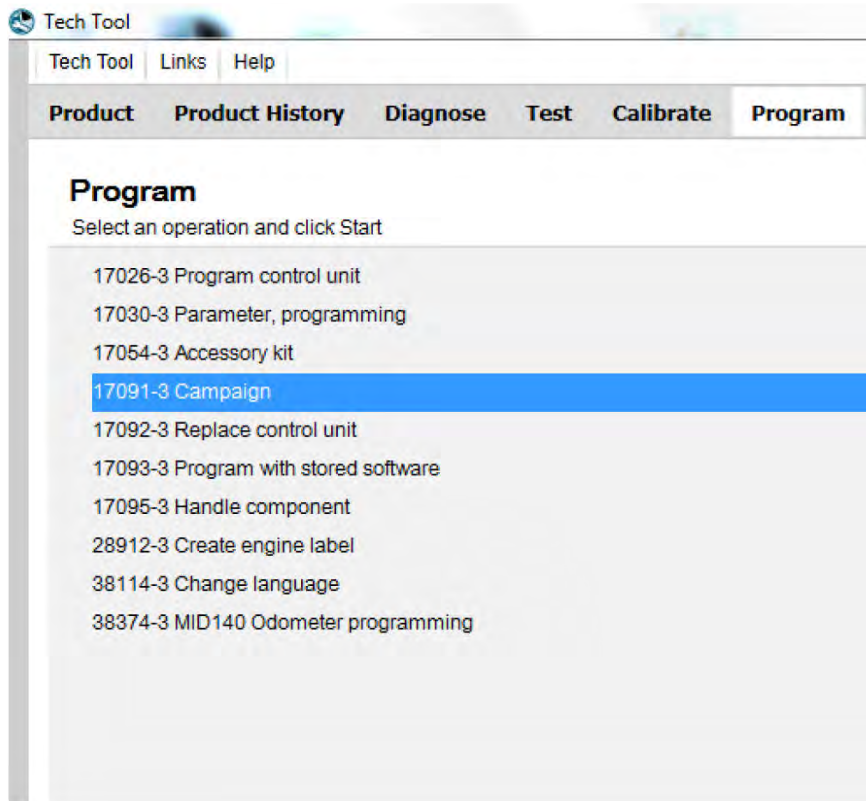


DANGER

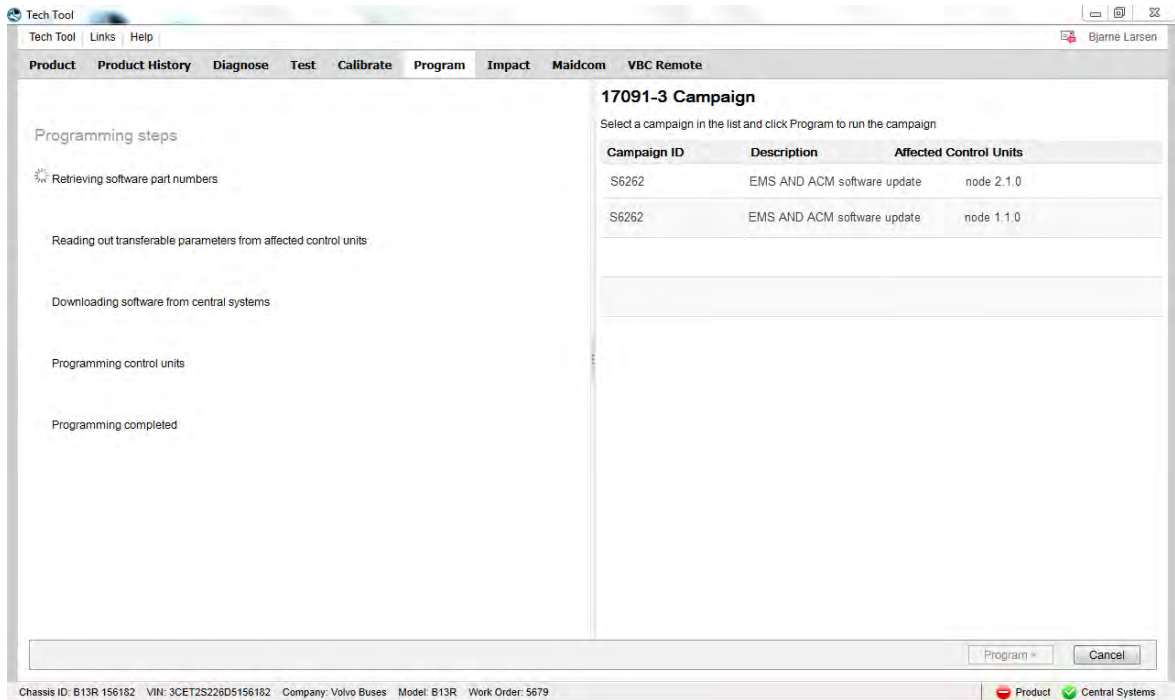
Park vehicle safely, apply parking brake and stop engine prior to working on the vehicle.

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. Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral.
2. 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.
3. Turn the ignition switch "ON".
4. Log in to PTT and Identify Vehicle is displayed.
5. Once the vehicle has been identified, enter the Work Order Number information, then click Start Work
6. From the Main Menu select Program and then Program Control Unit 1700-08-03-39. Then click Start.



7. Select **Campaign** from the list. For this campaign, update the engine control module (EMS) and aftertreatment control module (ACM).



8. Select Campaign to update the control unit with the latest software.
9. 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.



Date	Expiration	Group	No.	Page
11.2013	11.2014			4

11. Program is now ongoing

Tech Tool | Links | Help

Product | Product History | Diagnose | Test | Calibrate | Program | Impact | Maidcom | VBC Remote

17091-3 Campaign

Simulation

The following control units will be programmed

Engine Management System (EMS)

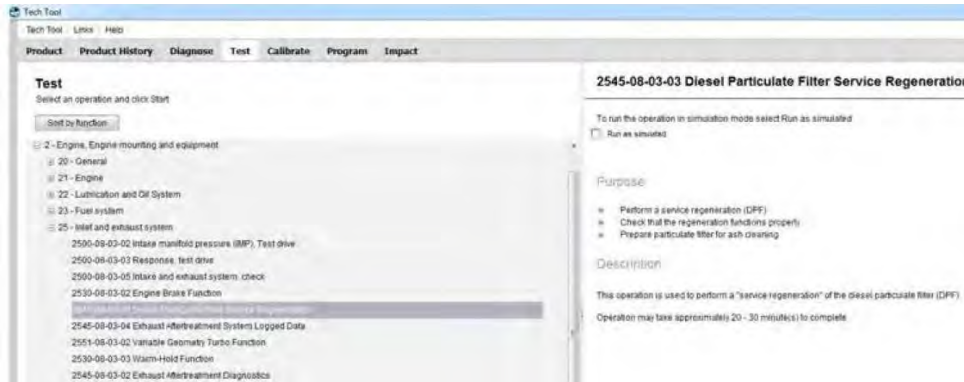
54%

Continue > | Cancel

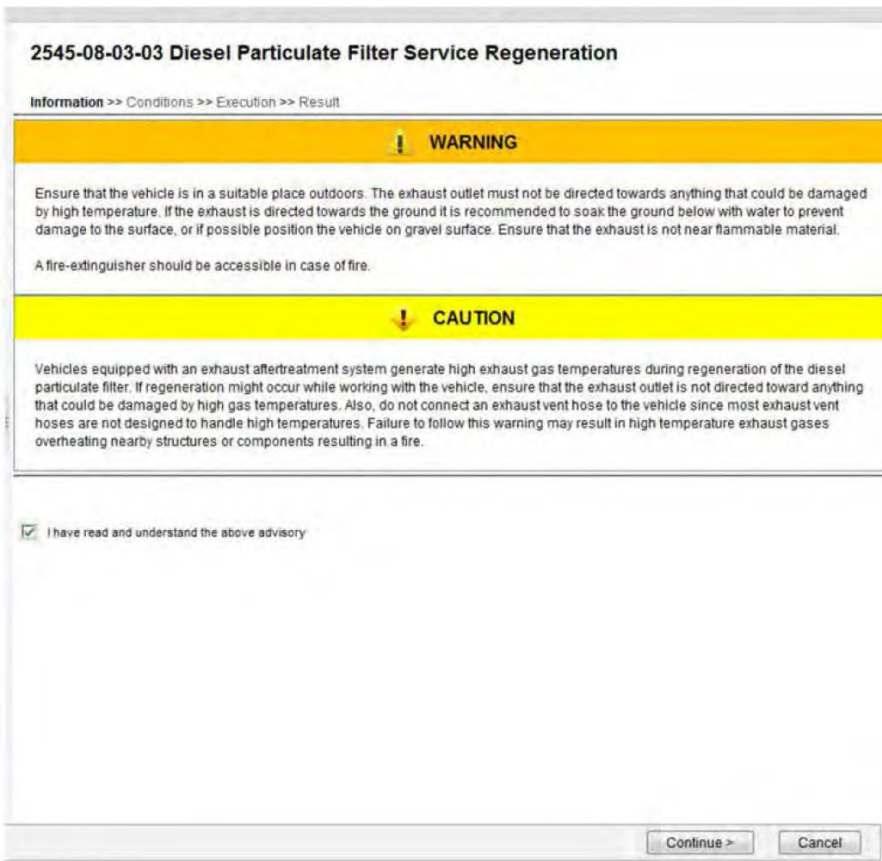
Chassis ID: B13R 156182 | VIN: 3CET2S226D5156182 | Company: Volvo Buses | Model: B13R | Work Order: 5679

Product | Central Systems

Note: Engine hours will be lost once modules have been programmed.



13. Review the advisories, check the box and click on Continue.



14. When all conditions are met, check the confirmed box and click on Continue.



15. When regeneration is complete, allow engine to idle until high exhaust system temperature (HEST) light goes off.



High Exhaust System Temperature (HEST)

16. When the HEST light goes off, select Test from the Main Menu. Select 2585-11-03-03 SCR, Diesel Exhaust Fluid, Crystal Sublimation and click on Start.

Note: Start the Crystal Sublimation process within 2 minutes of engine coming back to idle.



17. Review the advisories, check the box and click on Continue.

2585-11-03-03 SCR, Diesel Exhaust Fluid, Crystal Sublimation

Information >> Conditions >> Execution

! WARNING

Ensure that the vehicle is in a suitable place outdoors. The exhaust outlet must not be directed towards anything that could be damaged by high temperature. If the exhaust is directed towards the ground it is recommended to soak the ground below with water to prevent damage to the surface, or if possible position the vehicle on gravel surface. Ensure that the exhaust is not near flammable material.

A fire-extinguisher should be accessible in case of fire.

! CAUTION

Vehicles equipped with an exhaust aftertreatment system generate high exhaust gas temperatures during regeneration of the diesel particulate filter. If regeneration might occur while working with the vehicle, ensure that the exhaust outlet is not directed toward anything that could be damaged by high gas temperatures. Also, do not connect an exhaust vent hose to the vehicle since most exhaust vent hoses are not designed to handle high temperatures. Failure to follow this warning may result in high temperature exhaust gases overheating nearby structures or components resulting in a fire.

I have read and understand the above advisory

18. When all conditions are met, check the confirmed box and click on Continue.

2585-11-03-03 SCR, Diesel Exhaust Fluid, Crystal Sublimation

Information >> Conditions >> Execution

Automatically checked conditions:

1. Parking brake applied
2. Ignition has to be ON position, Engine running
3. Engine Coolant Temperature (ECT) above 122 °F
4. Accelerator pedal position above 2%

Manual conditions:

5. Gear selector in neutral position
6. Reference from diagnostics tool is available in Technical Support
7. Vehicle address in a suitable area

Confirmed

19. When sublimation is complete, allow engine to idle until HEST light goes off.



High Exhaust System Temperature (HEST)

20. Clear any diagnostic trouble codes (DTC) and Finish Work.

PARTS / WASTE DISPOSAL

DO NOT RETURN THE REPLACED PARTS. Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

This modification is covered by Prevo's normal warranty.

We will reimburse you two hours (2 h) of labor upon receipt of a warranty claim.

Please submit claim via our Online Warranty System, available at www.prevo.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin WB13-85".

OTHER

VBC Bulletin	S6262
Fail Code	01.00-2
Defect Code	49
Syst.Cond.	B
Causal Part	3092091

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in the subject to receive our warranty bulletins by e-mail.

