

Heater Relay Monitoring Accessory Kit

Service Category Service

Section Function Group 311

Technician Skill Level A

Market North America

Applicability

VOLVO

Years	Models
2021 - 2024	VNRE

Introduction

Volvo Trucks has developed a software accessory kit to improve heater relay monitoring. This improvement will enable heater relay diagnostics and fail-safe protection modes. With this update installed, drivers will be alerted when the heater system needs to be serviced and/or has a system failure.

Production Change Information

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	Emission Level	Starting Build Date	Ending Build Date
Volvo	BEV	EM-ZE	4-Decemeber-2020	12-June-2023

Warranty Information

This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.		
Claim Type (used only when uploading from the Dealer Bus. Sys.)		B
Main Labor Code	Description	Hours
1700-22-03-11	Campaign Programming	0.3
1720-16-09-01	Campaign General x 5	0.5
3810-22-03-11	Program Instrument Cluster if needed	0.4
Causal Part	23894097	
SCC Authorization Code	S3388	
Expiration Date	July 29, 2026	

Heater Relay Monitoring Accessory Kit

Required Tools & Equipment

- Premium Tech Tool (PTT) with latest version

Calibration Information

- None

Repair Procedure

1. Secure vehicle for service.
2. Connect the latest version of Premium Tech Tool (PTT) to the Vehicle.
3. After identification is complete, open Control Unit Information under Product Status.
4. Select Energy Storage Control Module (ECSM) within Control Unit Information.
5. Open the Sub Hardware drop down tab and ensure that all six ESS sub hardware numbers are listed.
6. If all six ESS sub hardware numbers are listed continue to next step. If not please disconnect PTT from the vehicle, perform a complete vehicle power cycle and return to step two.
7. Ensure MID140 software is PN 24421352 or newer, if not reprogram MID140 Cluster.
8. Navigate to the program tab within PTT.
9. Select operation 1700-22-03-06 Accessory Kit.
10. Install accessory kit P/N **85165871**.

Important Note
If you are prompted with the following message "One or more parameters cannot be written to the ECU(s). / These will be set to their default values." Please select Ignore .

11. After installing accessory kit, open Control Unit Information under Product Status.
12. Select Energy Storage Control Module (ECSM) within Control Unit Information.
13. Open the Sub Hardware drop down tab and ensure that all six ESS sub hardware numbers are listed.
14. If all six ESS sub hardware numbers are listed continue to next step. If not please disconnect PTT from the vehicle, perform a complete vehicle power cycle and return to step ten.
15. Return to the programming tab within PTT.
16. Perform DC/DC programming.
17. Perform BMU programming.
18. Perform MCU programming.
19. Once all programming is complete, navigate to the calibration tab in PTT.
20. Perform Resolver Angle Calibration.
21. After programming and calibration steps are complete, clear any inactive DTC's left by the programming process.
22. Return the vehicle to service.

If you have questions about the programming operation with PTT 2.8 visit

<http://www.premiumtechtool.com/>