Instruction Sheet

IS-19920

Volvo 9700 ELD Interface Kit for US07 Vehicles

First Release

09-26-2019

APPLICATION

Model	VIN
Volvo 9700 Model Year : 2009 - 2011	From 3CET2M627 9 5 127142 up to 3CET2S229 <u>B</u> 5 142239

MATERIAL

Order Kit # 7775219, which includes the following parts:

Part No.	Description	Qty
23446645	ELD Harness US07/US10 (9 PIN)	1
23446650	ELD Jumper Harness US07	1
20890176	Control Unit FMS Gateway	1
390038	ELD Decal	1
23338070	OBD Decal (Volvo)	1
952641	Adel Clamp Rub #35	1
952634	Adel Clamp Rub #24	1
500124	Screw SS #8X1/2	4
504637	Cable tie Nylon STD Black	15
IS-19920	Instruction Sheet (EN)	1

Equipment required:

Description	Qty	
Laptop with PTT (Premium TechTool, latest version installed) & related cables.	1	

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position. Wait 20 seconds and set the main switch and the battery switch to the OFF position. Disconnect negative terminals from the batteries.

Lock out & 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.

PART 1: FMS GATEWAY MODULE INSTALLATION

1. Open the electrical compartment located behind the driver's seat.



2. Remove both drivers' lateral utility compartment doors.



3. Route the ELD interface harness **23446645** from the electrical compartment up to the driver's area (diagnostic connector area).



- From the electrical compartment, route the diagnostic connector side of the harness (two 9 PIN connectors) inside the lateral utility compartment.





- Pass the harness from the lateral compartment to the driver's foot area (diagnostic connector area).

4. Remove the vehicle dash cover (4 Torx screws under the dash cover).



5. Locate the R08 connector under the dash.



6. Connect the jumper harness XC125 connector to the R08 connector.



- 7. Route the jumper harness A126_C and A126_D wires under the dash (diagnostic connector area).

8. Secure the R08/XC125 connectors and the R13_A resistor with supplied cable ties.



9. Reinstall the vehicle dash cover.

- 10. Remove the vehicle 9 PIN diagnostic connector from the underside of the dashboard (drivers' side).
 - Remove the connector from the support bracket (4 Torx screws).
 - Also remove the bracket from the vehicle.



11. Connect the jumper harness wires A126_C and A126_D to the diagnostic connector C and D cavities.

NOTE

Some vehicles may already have wires connected to the C & D cavities. These wires will need to be cut and removed using an appropriate connector removal tool (Volvo # **9808646** or equivalent).

Protect cut wire ends with shrink tube and secure wires.





Volvo # 9808646 extractor



12. Connect the vehicle diagnostic connector (previously removed from the bracket) to the ELD harness round 9 PIN connector identified **OBD_O**.



- 13. Install the ELD harness diagnostic connector identified **OBD_N.A** (with square flange).
 - Remove the grey protective cap and secure the connector square flange **OBD_N.A** to the mounting bracket (4 previously removed Torx screws).
 - Install the bracket at its original location under the dashboard.



1. Inside the electrical compartment, secure the ELD FMS gateway module **20890176** to the compartment wall.



- Make a support bracket for the module using the supplied #35 Adel clamp **952641** as shown.



- Secure the module to the compartment wall using the supplied **500124** screws (module connector facing down). Connect the ELD harness **A946** green connector to the gateway module.



- 2. (Optional step) If using a Volvo branded ELD device (part # 7770385). Secure the ELD device next to the gateway module using the supplied #24 Adel clamp **952634** (connector facing down).
 - Make a support bracket for the module using the Adel clamp and secure to the electrical compartment wall next to the FMS Gateway module.
 - Connect the module to the ELD harness round 9 PIN connector identified **A126_A** (remove gray protective cap) using the adaptor cable supplied with the ELD module.



NOTE

Do not discard the gray protective cap. Secure the cap to the cable using a small cable tie.



3. Secure the ELD harness inside the electrical compartment, at the bottom of the lateral utility compartment and under the dash using cable ties.



- 4. Install ELD and OBD warning decals.
 - Install the OBD decal 23338070 on the lower part of the dashboard (above the OBD connector).
 When using a Volvo ELD device, also install the ELD decal 390038 over the ELD device in the electrical compartment.



5. Reinstall the electrical compartment cover and lateral compartment doors.

PART 2: FMS GATEWAY MODULE PROGRAMMING

1. Connect to PTT (Premium Tech Tool) and select TEST. Expand operation *Service and Maintenance*, select *Vehicle Information Test* and click START.

Tech Tool Links Help	📬
Product Product History Diagnose Test Calibrate Program Impact	
Test Select an operation and click Start	- Vehicle Information, Test
Select an operation and click start	To run the operation in simulation mode, select Run as simulated Run as simulated This operation reads ECU information from the vehicle.
	Start> Cancel
hassis ID: DRFUV 729989 VIN: 20103349340729989 Wive Ovter: FLDTest	🖉 Product 🙉 Or

2. Confirm in Vehicle Information Test that <u>MID 179 – FMS Gateway</u> is present, but that related information's are <u>not available</u>.



3. Exit the TEST menu and select PROGRAM. Expand operation *Service and Maintenance*, select *Accessory Kit* and click START.



4. Click YES on the following message box.

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roduct	Prod	uct History	Diagnose	Test	Calibrate	Program	n Impact	
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							Possible damage to electronic components. Turn the	
							vehicle ignition switch OFF before disconnecting or	
							connecting any electrical components. Failure to de- energize circuits may result in electronic equipment	
							damage.	
							CAUTION	
							To prevent electrostatic discharge (ESD), which may damage sensitive electronic components, a wrist grounding	
							strap must be used when working on electronic equipment	
							(e.g. the instrument cluster). Failure to use a wrist strap may result in permanent damage to electronic components.	
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							The warnings and precautions above have been read and understood.	
							Yes No	
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5. Press the PLAY D button to open the dialog box then enter Accessory Kit # 85152926. Click OK.

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Tech Tool Links Help		
Tech Tool Links Help	Typest Authorization Communication with the central systems in progress Saving to a job card Operation complete	
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The control unit concerned must be programmed once this operation has been performed.		
Note: Updating the central systems can take a while.		
€		
hassis ID: PREVX 729989 VIN: 2PCG33493AC729989 Work Order: ELDTest		Service Service Product

6. Complete the action by clicking OK on the following message.

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7. Once completed, exit the PROGRAM menu.



8. Select the PRODUCT menu and click Finish Work then choose Latest Selections.

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roduc	t Product History Diagnose Test	Calibrate Program	Impact		
elec	ted Product (PREVX 729989)				
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roduct	t Details			Product Status	
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Model:		Company:		 Current battery level: 13.0 V. 	19/03/2018 10:26 AM
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onnec	tivity			Campaigns (0)	Readout Time: 19/03/2018 10:24 Al
Status	Description			There are no available campaigns for this product.	
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0	Central Data Retrieved:		19/03/2018 10:24:18 AM		

9. In the Latest Selection list, select (click to highlight) the corresponding job (validate with Chassis ID or VIN) then click *Remove*. The system is now ready to refresh the MID 179 – FMS Gateway information's and program the FMS Gateway module.

Tech Tool Links Help	Latest Selections	E
Product Product History Diag	Select an item in the table and click OK to work with it. You can also Update or Remove the selected item.	
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	24/01/2018 3:07 PM PREVH 710100 2PCH33494JC710100 Volvo Buses Multiplexed version 3 Not applicable PREVH M300874	
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	15/01/2018 9:56 AM PREVH 716114 Volvo Buses Multiplexed version 3 Not applicable PREVH M300874	
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	Show only products selected by me	
	OK Cancel	

10. In the PRODUCT menu, start a new work session.

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PREVX 729999 2PC033493A07 Model: Company: PREVX Volvo Buses Emission Level: US07 Electrical System: Multiplexed version 2			Enter Work order number: ELD2 Select a recently used work order: Work Order No. User ID Date ELDTest M300874 19/03/2018 10:43 AM Enter Notes:		
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11. Go to the PROGRAM menu, expand the *Electrical System and Instruments* operation and select <u>MID</u> <u>179 Control Unit Programming</u> option (click START).

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Tech Tool Links Help	
Product Product History Diagnose Test Calibrate Program Impact	
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tessis ID: PREVX 729969 VIN: 2PCG33493AC729669 Work Order: ELD2	S Product S On

12. Click YES on the following message box.

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13. Click PLAY It to open the dialog box then choose the *Download software and show commercial part number* option. Click OK.

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sis ID: PREVX 729989 VIN: 2PCG33493AC729989 Work Order: ELD2	Second Se

14. Select Reprogram control unit with complete software package, then click OK.

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	2	Ext
	hassis ID: PREVX 729989 VIN: 2PCG33493AC729989 Work Order: ELD2	

15. Confirm both conditions (engine must be switched off & parking brake applied) to continue.

Tech Tool	E	• 0 X
Tech Tool Links Help		
Product Product History Diagnose Test Calibrate Program Impact		
MiD 129 Control Unit. Programming Reading data from the control unit Caution: Possible damage to electronic components. Turn the vehicle ignition switch OFF before disconnecting or connecting any electrical components. Falure to de-energize circuits may result in electronic equipment damage. Reading data from the control unit Caution: To prevent electrostatic discharge (ESD), which may damage sensitive electronic components. Reading data from the control unit Mid parage sensitive electronic components. Swing to a job card Dynament damage to electronic components. Swing to a job card Dynament damage to electronic components. Swing to a job card Dynament damage to electronic components. Conditions This operation is used to program the FMS Gateway. Conditions The operation is used to programming an existing control unit. The operation mays these settings from the outrol module and programming an existing control unit. The operation is used when reprogramming an existing control unit. The operation is used when reprogramming an existing control unit. for example when a conversion kit has been ordered necessitating reprogramming of the control unit. The operation control control unit. The operation is used when reprogramming an existing control unit. for example when a conversion kit has been ordered necessitating reprogramming of the control unit. The operation readule codes in the porteron more fault codes may be set. These fault codes to the ob carde fore cunning this operation readule c		
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16. Click YES on the product reset warning.



17. Click Continue on the identical software information box.



18. Software is free of charge, click OK to continue.

oduct Product History Diagnose Test Calibrate	Program Impact
A control of the second s	A Reading data from the control unit Connection to the control unit Authorization Confirming software status Programming Saving to a job card Commercial part number The software you are about to program is free of charge. (K)

19. Choose IGNORE on the High Speed Programming option.

roduct Product History Diagnose Test Calibrate P	Program Impact
▶ =	
MID 179 Control Unit, Programming	18
	Testing max speed
Caution: Possible damage to electronic components. Turn the	This Control Unit supports high speed
vehicle ignition switch OFF before disconnecting or connecting any	programming. In order to program at high speed, all other control units must have their
electrical components. Failure to de-energize circuits may result in	all other control units must have their communication disabled.
electronic equipment damage.	
	The System could not disable communications
Caution: To prevent electrostatic discharge (ESD), which may damage sensitive electronic components, a wrist grounding strap	from the following Control Units. Please remove
nust be used when working on electronic equipment (e.g., the	the fuse(s) controlling power to these Control
nstrument cluster). Failure to use a wrist strap may result in	Units.
permanent damage to electronic components.	
	MID 130 Transmission ECU
This operation is used to program the FMS Gateway.	
This operation must be used when replacing the control unit. The operation reads the software and parameter settings from the old	
control module and programs these settings into the new control	
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0.07 3892	
The operation is also used when reprogramming an existing control	
unit, for example when a conversion kit has been ordered	Press Ignore to program at standard speed.
necessitating reprogramming of the control unit.	
Note: The fault codes in the programmed ECU will be cleared. Read	Ignore
and save all fault codes to the job card before running this operation.	- Ignite
Note that after the operation new fault codes may be set. These fault	
codes should be cleared.	
	*
2	

20. When prompted, switch the vehicle power to OFF (ignition switch), wait 10 seconds then switch the power ON again. Wait for the *Standard Speed Programming* to complete.



21. Once completed, exit the PROGRAM menu and go back to the TEST menu, expand operation *Service and Maintenance*, select *Vehicle information*, *Test* and click START.





22. Confirm in Vehicle Information Test that <u>MID 179 – FMS Gateway</u> is present and that all related information's are now available.





23. Refresh and delete codes.

PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)