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13 LITER ENGINE, INDUCEMENT ALGORITHM

Prevost and Volvo vehicles

REVISION : A THIS BULLETIN SUPERSEDES PREVIOUS VERSION.

08-30-2017 Campaign completion label relocated to front junction box.

DESCRIPTION

On the vehicles affected by this bulletin, software updates are available for the Engine Control Module (ECM) for certain Prevost and Volvo vehicles equipped with a 2015 model year D13 engine. The software update is to address an emission-related defect involving the inducement algorithm of the Selective Catalytic Reduction (SCR) System. The defect does not result in an emissions impact during normal operation. The issue has no impact on fuel economy, driveability, performance, or safety.

Please contact your nearest Prevost Service Center or Prevost service manager and schedule an appointment to have the required repairs applied.

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			
H3-41, H3-45 coaches Model Year : 2015 - 2016	From 2PCH33494 <u>F</u> C71 <u>2923</u> up to 2PCH33491 <u>G</u> C71 <u>3366</u> incl.			
H3-45 VIP motorhomes Model Year : 2015 - 2016	From 2PCVS3498 <u>F</u> C71 <u>2929</u> up to 2PCVS3496 <u>G</u> C71 <u>3367</u> incl.			
X3-45 coaches	From 2PCG33492 <u>F</u> C73 <u>5872</u> up to 2PCG3349X <u>G</u> C73 <u>6088</u> incl.			
Model Year : 2015 - 2016	From 4RKG33493 <u>F</u> 973 <u>7030</u> up to 4RKG33490 <u>G</u> 973 <u>7309</u> incl.			
X3-45 VIP motorhomes Model Year : 2015 - 2017	From 2PCBS3491 <u>F</u> C73 <u>5892</u> up to 2PCBS3495 <u>H</u> C73 <u>6093</u> incl.			
X3-45 VIP commercial use Model Year : 2015 - 2016	From 2PCCS3496 <u>F</u> C73 <u>5875</u> up to 2PCCS3498 <u>G</u> C73 <u>6091</u> incl.			
9700 Volvo coaches Model Year : 2015 - 2016	From 3CET2V221 <u>F</u> 5 <u>171371</u> up to 3CET2V42X <u>G</u> 5 <u>176275</u> incl.			
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.				



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MATERIAL NEEDED

Order the following parts:

Part No.	Description	Qty
85152363	Emissions Recall Completion Sticker (All)	1

TOOLS NEEDED

Description	Qty
Premium Tech Tool (PTT) version 2.05.23 or higher	1
Vocom Diagnostic Connector 88890304	1
Communication Interface 88890300	1

NOTE

- Using other interfaces may affect programming speed.
- Check Premium Tech Tool version by clicking on Help tab and then click on "About Tech Tool".

PROCEDURE



DANGER

Prior to working on the vehicle, park vehicle safely, apply parking brake and set the ignition switch to the ON position with the engine not running.

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.

Software Update Procedure

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You must read and understand the precautions and guidelines in Impact; 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.

- 1. Verify service program eligibility by checking service program status in VDA.
- 2. Connect Premium Tech Tool (PTT) to the vehicle diagnostic 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.

Vork Order Number			
Enter a work order	number or select a rece	ently used work order number in the	list.
Enter work order	number:		
Work Order No.	Used Work order:		
Enter Notes:			
		Л	
		13	
		Start Work Cancel	

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

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C Tech Tool								
Tech Tool	Links Help							
Product	Product History	Diagnose	Test	Calibrate	Program	Impact		
Progr	am							
Select a	n operation and click St	art						
1700-	08-03-39 Program Elec	tronic Control Ur	iit	\sim				
1700-	22-03-03 Parameter, pr	ogramming		>				
1700-	22-03-28 Accessory Kit		1	11				
1700-	22-03-12 Replace Elect	ronic Control Un	it	\mathbf{N}				
1700-	22-03-13 Program with	Stored Software						
1700-	08-03-40 Handle Comp	onent						
2841-	22-03-04 Create Engine	Label						
3810-	22-03-10 Change Lang	uage						

7. Select EMS.

Tech Tool	Links Help				
Product	Product History	Diagnose	Test	Calibrate	Program
Select an I	Electronic Control Unit				
Control Uni	t .				
nformation	display (MID 140)				
/ehicle ECU	J (MID 144)				
Radio (MID :	206)				
Gear Select	or ECU (MID 223)				
Aftertreatme	ent Control Module (AC	M)			
Engine Con	trol Module (EMS)				
		7			

8. Select Program to update the **EMS** with the latest software.



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Programming	options			
Update control Reload control	unit with lates unit with exist	t software ing 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.

1[> 10 V	12.7 V	\bigcirc
2 🕷	P) =(P)=	=(P) =	
3	n (rpm) = 0 rpm	0 rpm	\checkmark
17	00-08-03-39 Progra	am control	unit - Update software
Au	tomatically checked	conditions	
1	Battery voltage above 10 V		
2	Parking brake applied		
3	Ignition key in ON position.	Engine not runnii	ng

10. Select "I accept" to agree to the terms and press continue to proceed. **Note:** In the United States and Canada, the programing is NOT chargeable. An invoice will not be generated.



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1700-08-03-39 Program control	unit - Update so	ftware		
The following control units will be programmed				
Engine Control Module (EMS)				
Chargeable programming				
The software you are about to program is charge an invoice will be generated.	able. If programming is pe	rformed using the software,		
Programming will be charged once even if multip	le 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 s	pecified on the invoice.		
lacept				
Select I accept to agree to the terms Press Contin	nue to proceed			

11. If the software is already updated, this screen opens. Select Yes to reload existing software.

				1700-03-03-39 Program Electronic Control Unit - Update software
Programming Staps Reading out tanalerable parameters from celect	led Electronic Control	í Unite		The following Electronic Carbol Units will be programmed Venical etc. (page 444)
	Confirmatio	on		×
Febieving software part sumbers	-			
Contrading entrates from cost at systems	2 ·	Reload so There are n	oftware o software	updates for the selected Electronic Control
Topling programming speed				
Programming Electronic Control Units		Do you wan	t to refoad t	he existing software?
Programming completed				Yes No
				41
				Ownitrue - Cance

12. When the programing is complete, clear any diagnostic trouble codes (DTC) and Finish Work.

NOTE

Use a campaign completion label (85152363) to signify that the campaign has been completed, use a permanent type marker to write the recall number, the completion date (*MM/DD/YYYY*) and dealer code on the label. The label is to be applied to the <u>inside of the Front Junction Box door</u> of all Prevost and Volvo 9700 vehicles as shown in the illustrations.

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NOTE

A Certificate of Emissions Recall Completion is also provided <u>at the end of this bulletin</u>. Fill in the appropriate information and give the certificate to the customer/owner of the vehicle.

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PARTS / WASTE DISPOSAL				

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

WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse you 3/4 hour (0.75) of labor upon receipt of a warranty claim. Please submit claim via our Online Warranty System, available at <u>www.prevostcar.com</u> (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin EC0016A ".

OTHER

VBC Bulletin	N/A	Access all our Service Bulletins on
Fail Code	06.27-2	http://techpub.prevostcar.com/en/
Defect Code	49	or scan the QR-Code with your smart phone.
Syst. Cond	R	"ADD" in the subject to receive our warranty bulletins by e-mail.
Causal Part	3092091	

Prevost engages in a continuous program of testing and evaluating to provide the best possible product. Prevost, however, is not committed to, or liable for updating existing products.



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CERTIFICATE OF EMISSIONS RECALL COMPLETION (should be kept in vehicle).

License Number N	lake Year Model	Body Type Ve	hicle Identification Number
Manufacturer:			
manufacturer.	Recall N	lumber:	
The above desc Related Recall	ribed vehicle has b hat is listed above.	een repaired, mo	odified to address the Emissions
Branch/Dealer's	A	ddress, City, Sta	ate/Province
Authorized Sigr	ature		
x			