SP18-35J

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Revision: J Range of applicable VINs updated 09/23/2022

P20EE (diagnostic troubleshooting code) SOLUTION - NOX CONVERSION EFFICIENCY Prevost vehicles

B13R (9700 us/can)

MODEL YEAR(S) AND VEHICLES INVOLVED

GHG17 or OBD18 compliant vehicles

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.							
H3-41, H3-45 coaches Model Year: 2017 - 2019	2PCH33492 <u>H</u> C71 <u>3670</u> and From 2PCH33494 <u>H</u> C71 <u>3735</u> up to 2PCH33490 <u>K</u> C71 <u>0466</u> incl.						
H3-45 VIP motorhomes Model Year: 2017 - 2019	2PCVS3495 <u>H</u> C71 <u>3507</u> and From 2PCVS3493 <u>H</u> C71 <u>3747</u> up to 2PCVS3496 <u>K</u> C72 <u>0585</u> incl.						
X3-45 coaches Model Year: 2017 - 2019	From 4RK G33491 <u>H</u> 973 <u>7417</u> up to 4RKG33499 <u>K</u> 973 <u>7575</u> incl.						
X3-45 coaches Model Year: 2017 - 2019	2PCG3349X <u>H</u> C73 <u>6092</u> 2PCG33495 <u>H</u> C73 <u>6114</u> 2PCG33490 <u>H</u> C73 <u>6117</u> and From 2PCG33490 <u>H</u> C73 <u>6182</u> up to 2PCG33494 <u>K</u> C73 <u>6404</u> incl.						
X3-45 VIP commercial use Model Year: 2017 - 2019	2PCCS3493 <u>H</u> C73 <u>6145</u> and From 2PCCS3495 <u>H</u> C73 <u>6180</u> up to 2PCCS3499 <u>K</u> C73 <u>6433</u> incl.						
X3-45 VIP motorhomes Model Year: 2017 - 2019	except 2PCCS3498 K C73 6407						
VOLVO 9700 Model Year: 2017 - 2019	From 3CET2V927 <u>H</u> 5 <u>184392</u> up to 3CET2V926 <u>K</u> 5 <u>194709</u> incl.						

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DESCRIPTION

For the vehicles <u>on which a notification</u> for SP18-35 <u>exists</u>, perform the following checklist and operations. It has been determined that these vehicles had the code (DTC) P20EE activated.

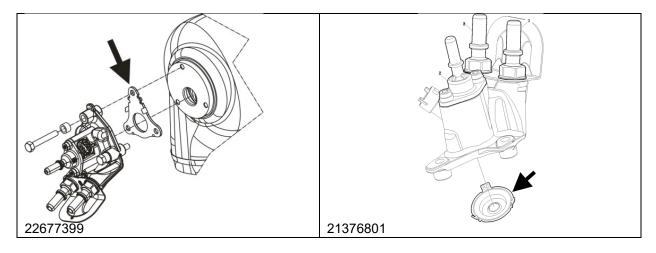
DO NOT perform this special bulletin on a specific vehicle unless a notification exists, otherwise, no reimbursement will be awarded.

You can request a vehicle to be notified, to do so, send a request to the Technical Publications functional mailbox: technicalpublications_prev@volvo.com and include a screen capture of diagnostic troubleshooting codeP20EE.

MATERIAL

Part required

Part No.	Description	Qty
22677399	GASKET, DEF INJECTION NOZZLE	1
21376801	SEALING PLATE	1



NOTE

Material can be obtained through regular channels.

Other parts that may be required. Note that these parts are not covered by this bulletin.

Part No.	Description	Qty
22303390	NOx SENSOR, PRE	1
22303391	NOx SENSOR, POST	1

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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.

IMPORTANT NOTES



<u>DO NOT perform</u> WB18-04 or WB18-84 EMS & ACM SOFTWARE UPDATE <u>before</u> the following checklist, otherwise useful diagnostic codes and monitor data could be erased.

Wb18-04 for Prevost coaches, Wb18-84 for Volvo 9700



Any troubleshooting labor of active DTCs (Diagnostic Troubleshooting Codes) other than P20EE is considered as a separate operation of the RO (repair order) and cannot be charged to this special bulletin.

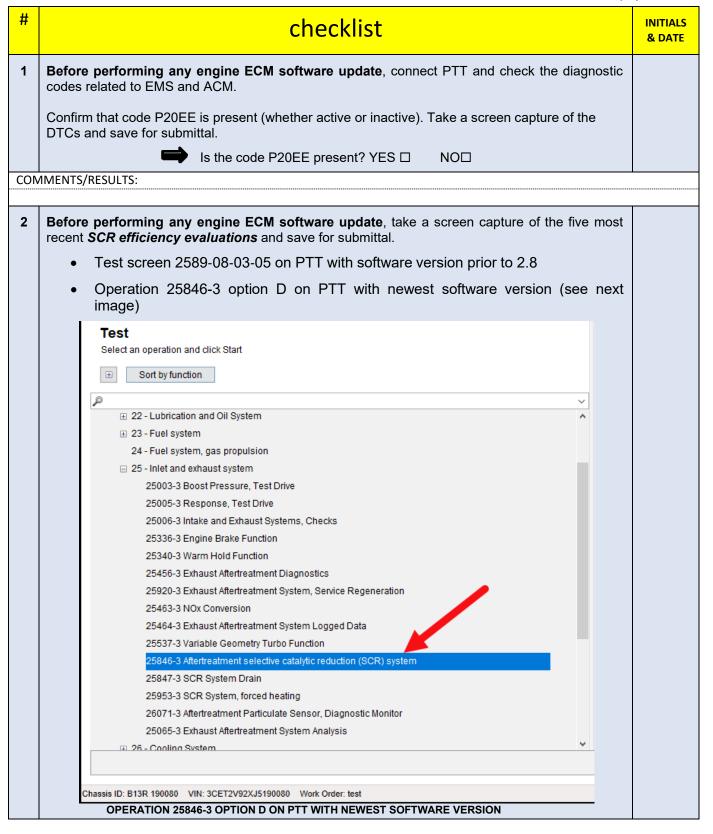


Perform the steps in the same order as they appear. If this recommendation is not followed, required diagnostic information might not be recoverable after the software update.

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				Veh	<mark>icle ide</mark>	entification	on		
H3 X3 9700				V.I.N (sh	ort) : _				
OPERA	ATION	s to	BE PI	ERFORME	D IN AI	OVANCE	BY THE SEF	RVICE AD	/ISOR
Ask the c	customer	whethe	er he/sh	e noticed an a	bnormal o	consumption	of oil or coolant		
				concerning the n to the repair o		ment system	or severe turbo	failure in the	history of repair
35 once	again, c	contact	the Te		ations for	instructions.	You can send		ot perform SP18 to theTechnica
NOTE/RES	SULTS:								
ļ									

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	79 % Evalu 77 % Evalu 80 % Evalu	unitor Data num fault limit uation (Most recent) uation 2 uation 3 uation 4			
COM	MMENTS/RESULTS:				
3	Check if there are leaks at the Charge Ai EGR, exhaust gas (between turbo and SC considered as a separate operation of the bulletin. Note: Try to clear exhaust clamps while to avoid damages because the heat can	CR converter). Note RO (repair order) and keeping in mind the make them fragile	any presence and cannot be cl	of soot. Any repair is narged to this special	
CON	MMENTS/RESULTS:				
4	Vehicle Tests II	Indicated DIAGNOSTICS = 1 / 6 Ingine ECU Iransmission ECU Instrument Cluster Vehicle ECU Electrical Aftertreatment ECU Brake ECU Brake ECU	•	ER > ENGINE ECU	
CON	IMENTS/RESULTS:				
5	Engine ECU (a.k.a. Engine Control Module ECM) software update.				

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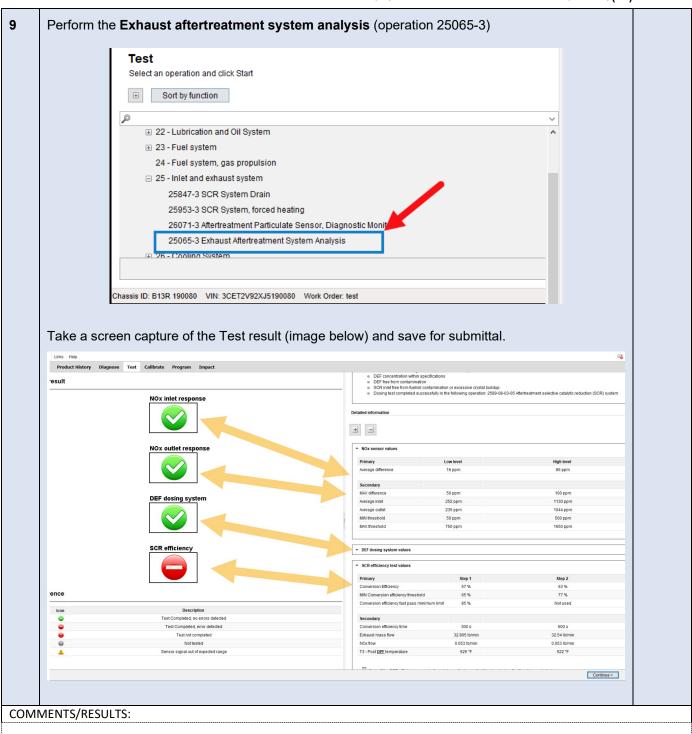
If the engine ECU software is not up to date, perform an update to the latest version (software version should be 23766686 or higher). COMMENTS/RESULTS: 6 Remove DEF doser, perform the dosing test (operation 25846-3 option B) and record the results Expected values: small dosing: 49 - 60 ml large dosing: 196 - 240 ml Dosing amount: small ml ml large_ C Tech Tool ð Tech Tool Links Help Product Product History Diagnose Test Calibrate Program Impact Maidcom 25846-3 Aftertreatment selective catalytic reduction (SCR) system Simulation Check that a newly installed, repaired, overhauled or replaced SCR system works correctly It will be necessary to remove the dosing valve from the inlet pipe in one of the tests Select the illustration corresponding to the method or test to be performed A - System pressure build up Check function/leakage of dosing valve
Perform the Dosing test after the dosing valve has been replaced in order to exit inducement and clear <u>DTC.</u>
P208C or P1030. COMMENTS/RESULTS: Test the concentration of DEF and record the result below. Tool: refractometer # 88890105. 7 DEF GOOD range °C|°F --58 -20 - 4 ETHYLENE 88890105 Apply a drop of DEF on the viewer of the refractometer. If the level is above the word "DEF" or below the word "AdBlue" the DEF is contaminated. If no level is shown, it may indicate chemical residue, such as pure water or diesel Is the DEF of proper concentration? NO□ YES

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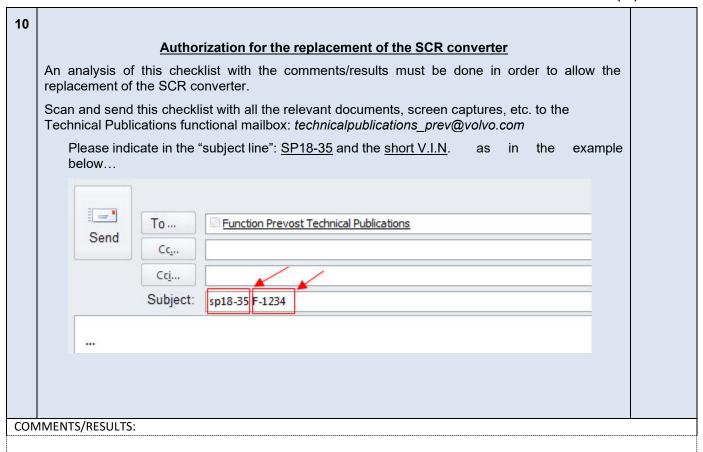
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CON	IMENTS/RESULTS:				,
8	Check inside the pipe downstream of the DEF injector for DEF, attach pictures of crystal accumulations if applicable seals.				
	NOTE: A small amount of crystal accumulation is normal.				
	Is there significant/excessive DEF crystal buildup	?	YES □	NO□	
CON	MENTS/RESULTS:				

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PARTS / WASTE DISPOSAL

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

WARRANTY

This diagnostic is covered by Prevost's normal warranty. We will reimburse you the parts and labor upon receipt of a warranty claim according to the following:

PARTS COVERED BY THIS BULLETIN

22677399 DEF injection nozzle gasket Qty: 1 21376801 sealing plate Qty: 1

Any other parts such as parts installed to correct exhaust leaks or for the replacement of sensors cannot be charged to this bulletin. These are covered by the normal warranty when applicable and must be charged on a different operation.

LABOR COVERED BY THIS BULLETIN

The time allowed to complete this bulletin in its entirety is 2.25 hours

This allowed time covers the execution of the procedure described in this document only. Any corrective work such as replacing the DEF injector, correcting exhaust leaks or any diagnostic work of active DTCs codes other than P20EE is considered a separate operation on the repair order and cannot be charged to this special bulletin.

Please submit claim via our Online Warranty System, available at www.prevostcar.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin SP18-35".

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OTHER

VBC Bulletin	N/A
Fail Code	04.04-1
Defect Code	9
Syst. Cond	В
Causal Part	21970125

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