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SCR CONVERTER REPLACEMENT - AFTERTREATMENT SYSTEM

Prevost vehicles & B13R (9700 us/can)

Revision: A

Volvo 9700 vehicle population change

05-08-2025

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DESCRIPTION

On vehicles affected by this recall, you must perform the replacement of the Selective Catalyst Reduction (SCR) system.

CORRECTIVE MEASURES

US Customer:

To ensure conformity with Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulations, the SCR must be replaced by a Prevost representative or Prevost Certified Service Provider. Contact your nearest Prevost Service Center, Prevost Service Provider or Prevost Service/Sales Managers to schedule an appointment and have this modification performed at your earliest convenience.

A list of all Prevost Service Centers and Service Providers is available on:

https://prevostcar.com/contact/parts-service-center

Canada Customer:

To ensure conformity with the *Canadian Environmental Protection Act, 1999*, the SCR must be replaced by a <u>Prevost representative or Prevost Certified Service Provider</u>. Contact your nearest Prevost Service Center, Prevost Service Provider or Prevost Service/Sales Managers to schedule an appointment and have this modification performed at your earliest convenience.

A list of all Prevost Service Centers and Service Providers is available on:

https://prevostcar.com/contact/parts-service-center

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APPLICATION

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
H3-45 coaches Model Year : 2017 - 2019	From 2PCH33499 <u>H</u> C71 <u>3746</u> up to 2PCH33493 <u>K</u> C71 <u>0428</u> incl.
H3-45 VIP motorhomes Model Year : 2017 - 2019	From 2PCVS3498 <u>H</u> C71 <u>3825</u> up to 2PCVS3492 <u>K</u> C72 <u>0597</u> incl.
X3-45 coaches	From 2PCG33491 <u>H</u> C73 <u>6188</u> up to 2PCG33494 <u>K</u> C73 <u>6404</u> incl.
Model Year : 2017 - 2019	From 4RKG33494 <u>J</u> 973 <u>7448</u> up to 4RKG33497 <u>K</u> 973 <u>7574</u> incl.
X3-45 Commuter Model Year : 2017 - 2019	From 4RKJ33498 <u>H</u> 973 <u>7386</u> up to 4RKJ33495 <u>K</u> 973 <u>7546</u> incl.
X3-45 VIP commercial use Model Year : 2017 - 2019	From 2PCCS3495 <u>H</u> C73 <u>6180</u> up to 2PCCS3495 <u>K</u> C73 <u>6428</u> incl.
X3-45 VIP motorhomes Model Year : 2017 - 2019	From 2PCBS3497 <u>H</u> C73 <u>6175</u> up to 2PCBS3495 <u>J</u> C73 <u>6262</u> incl.
Volvo 9700 US/CAN Model Year : 2017 - 2019	From 3CET2V927 <u>H5184392</u> up to 3CET2V928 <u>K5194257</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.

Emissions Recall

EC0032A

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MATERIAL NEEDED

Order kit **EC0032** which includes the following parts:

Part No	Description		Qty
23190006	SCR CONVERTER		1
22303390	NOx SENSOR, PRE	1	1
22303391	NOx SENSOR, POST	3	1
21021850	CLAMP, V-BAND 5-INCH		2
21095726	GASKET EXHAUST PIPE V-BAND JOINT, 5-INCH		2
540067	EXHAUST CLAMP 5"		1
22998036	TIE, STAINLESS STEEL		4
504637	CABLE TIE, NYLON BLACK		12
500952	SCREW, TAPPING BDG PH SS #8X1/2		12
7771942	CERTIFICATE OF EMISSIONS RECALL COMPLETION	The contract of the contract o	1
85152363	EMISSIONS RECALL – CAMPAIGN COMPLETION LABEL	General Conduction Laboratory Conduction Lab	1

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Material can be obtained through regular channels.

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SPECIAL EQUIPMENT REQUIRED



scissor lift – mobile platform



electric winch



swivel hook for fork lift Vestil LM-HP6-S Swivel Lift Master Hook Plate, 24" Width, 6" Height, 6000 lbs Capacity

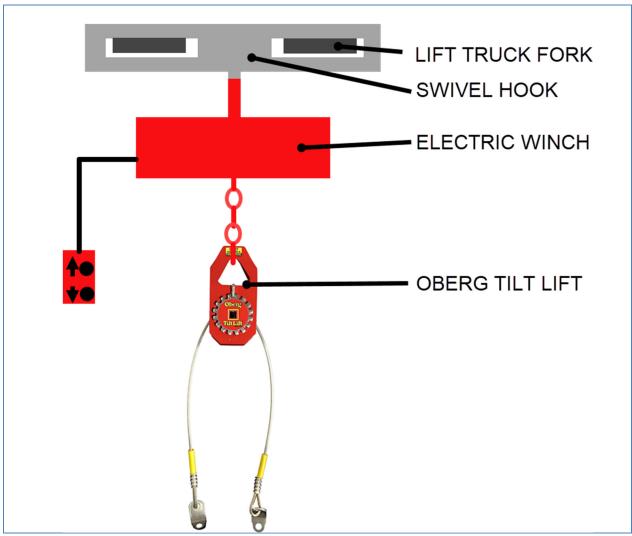


Oberg tilt lift 2,000 lbs. Capacity – special lifting tool available in Service Centers use with a half-inch ratchet or half-inch breaker bar.





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fork lift truck	JCHL Soft Loop Tie Down			



SPECIAL LIFTING EQUIPMENT ARRANGEMENT

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SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.
- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:



PROCEDURE



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.

Lockout & 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.

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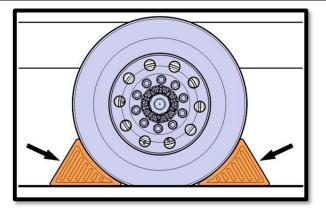
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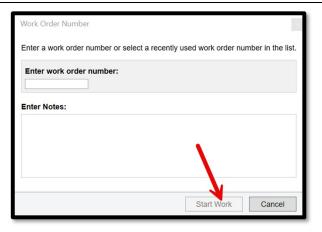
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SOFTWARE UPDATE

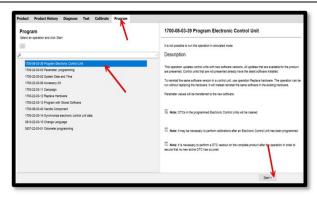
- 1. Secure the vehicle for service.
- 2. Apply the parking brake.
- 3. Place the transmission in neutral.
- 4. Install wheel chocks.



- 5. Turn on the ignition switch.
- 6. Log into PTT and connect to the truck.
- 7. Once the vehicle has been identified, enter the Work Order Number, then click Start Work.



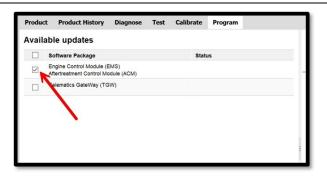
8. From the Main Menu select the Program tab, then select Program Electronic Control Unit 1700-08-03-39, then click Start.



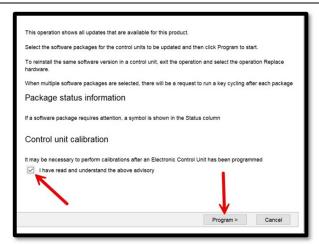
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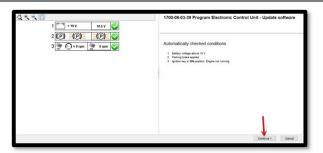
9. Select Engine Control Module (ECM) and After-treatment Control Module (ACM).



10. Check the Advisory Box, then click Program.



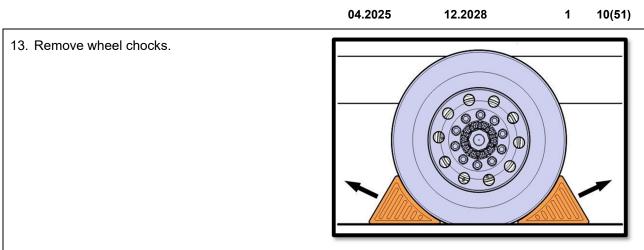
11. Certain conditions must be met to continue with the programming. Once all conditions are met, click Continue to start programming.



 Once programming has completed, clear any diagnostic trouble codes (DTC) and Finish Work.



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Part 1- H3 SERIES AND X3 SERIES VEHICLES

PROCEDURE



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 the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

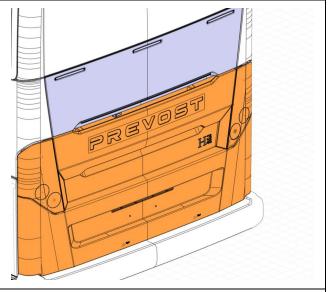
Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.



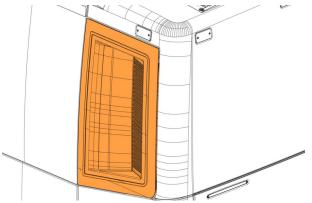
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PRELIMINARY STEPS

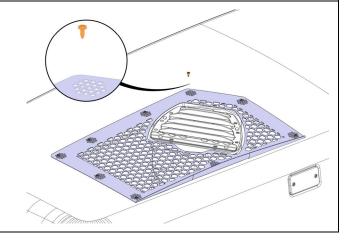
14. Open the engine compartment door and the DPF access door.



15. Remove the SCR converter access door. Doing so will allow the extraction of the SCR converter out of its compartment.

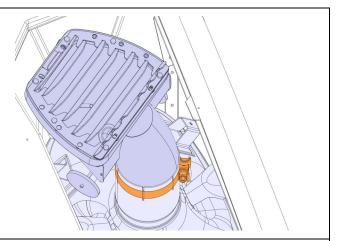


- 16. The SCR converter is heavy, huge and the free space in the opening is limited. Do whatever is necessary to protect the fiberglass and the paint around the opening giving access to the SCR. Using adhesive tape, place pieces of cardboard around the area.
- 17. Remove the SCR overhead ventilation grille.

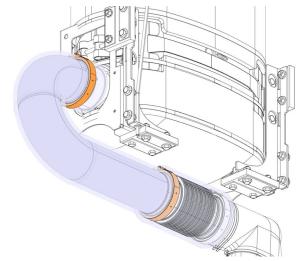


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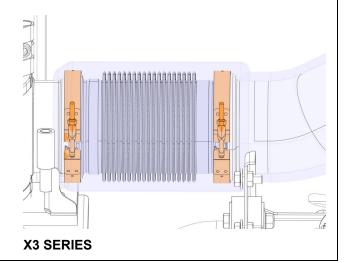
18. Loosen the clamp and then remove the diffuser assembly with the drain tube attached.



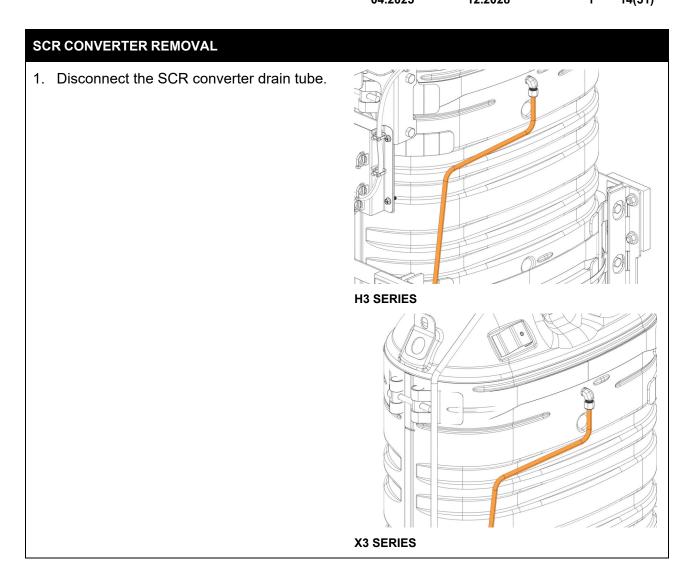
19. Support the exhaust pipe between the SCR and the flexible section. Remove the insulating blanket around the pipe and then remove the two V-band clamps securing the exhaust pipe. Move the exhaust pipe to clear it from the SCR converter compartment.



H3 SERIES



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2. Unscrew and remove the NOx sensor and module. Return the NOx sensor with the defective SCR converter to Prevost.

H3 SERIES

Nox SENSOR MODULE

Nox SENSOR MODULE

X3 SERIES

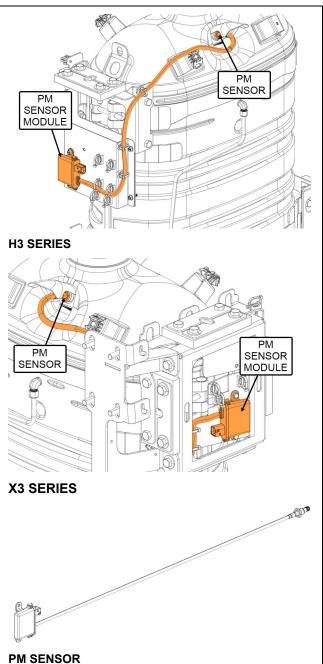
Nox SENSOR

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- 3. Unscrew the PM (particulate matter) sensor from the SCR converter.
- 4. Secure the PM sensor and harness next to the PM sensor module on the panel.

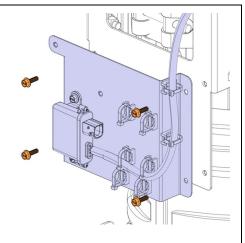
Handle the PM sensor with care as it has fragile ceramic part that can be damaged by a slight impact.

Save the PM sensor for reuse.



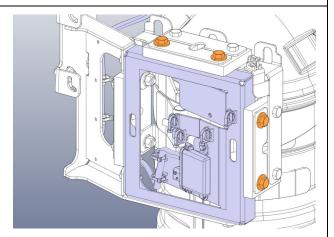
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5. **H3 SERIES -** Remove the module panel and put aside.



H3 SERIES

6. **X3 SERIES -** Remove the module panel and put aside.



X3 SERIES

7. Install special lifting equipment (see SPECIAL EQUIPMENT REQUIRED) to the lifting eyelets of the SCR converter.

See the image on the right and refer to **SPECIAL EQUIPMENT REQUIRED.**

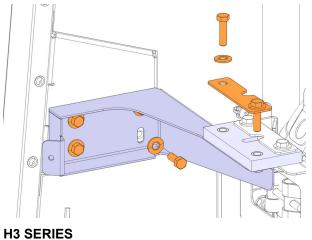


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8. With the lifting equipment, support the weight of the SCR converter.



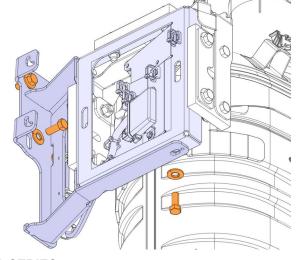
9. **H3 SERIES** - Remove the upper mounting bracket. Unscrew and remove six bolts identified on the image.



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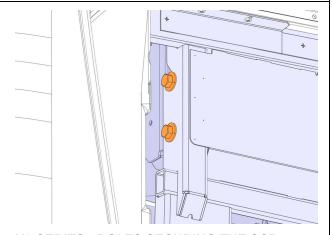
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10. **X3 SERIES** - Remove the upper mounting bracket. Unscrew and remove seven bolts identified on the image.



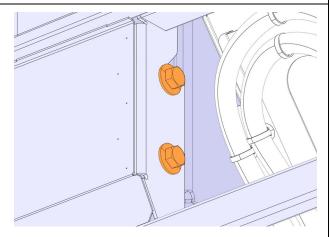
X3 SERIES

- 11. **H3 SERIES** Thread the upper bolt out about 1/4 in.
- 12. H3 SERIES Remove the lower bolt.



H3 SERIES - BOLTS SECURING THE SCR CONVERTER TO THE CHASSIS - STREET SIDE

- 13. **H3 SERIES** Thread the upper bolt out about 1/4 in.
- 14. H3 SERIES Remove the lower bolt

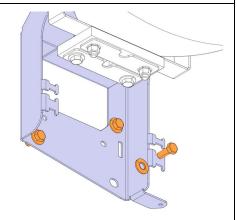


H3 SERIES - BOLTS SECURING THE SCR CONVERTER TO THE CHASSIS - CURBSIDE

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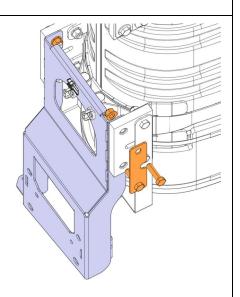
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- 15. **H3 SERIES** Using the lifting device, lift the SCR converter a few inches so it will disengage from the fixing points at the bottom.
- 16. **X3 SERIES** Unbolt the lower support bracket from the chassis (4 bolts).



X3 SERIES

17. **X3 SERIES** – Lift the SCR converter and then remove the lower support bracket to ease the removal of the SCR converter.



X3 SERIES

Emissions Recall

EC0032A

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18. While proceeding with great care, take the SCR converter out of the compartment through the L.H. side opening. The SCR converter is heavy. Proceed with the help of a co-worker.



CAUTION

RISK OF INJURY

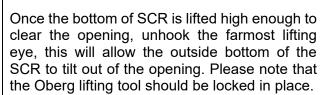
Make sure the electric winch cannot be activated inadvertently. The person who extracts the SCR should not be in possession of the remote control.

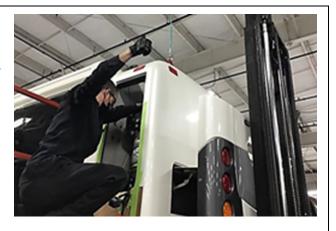


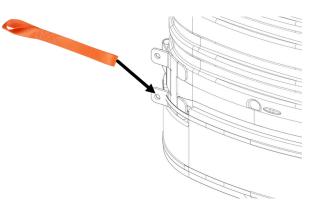
CAUTION

RISK OF INJURY

The SCR lifting eyes can have very sharp edges. Be sure to use the JCHL soft loop tie downs when lifting and tilting the lower part of the SCR out of the compartment.





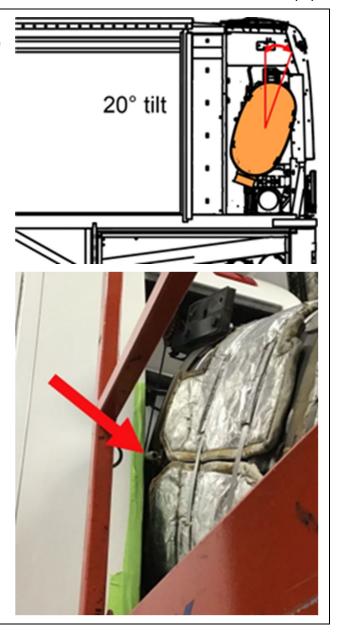


Use the JCHL soft loop lifting straps to pull the SCR from the compartment



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19. To extract the SCR from the compartment, tilt the SCR clockwise 20° to increase clearance for the NOx sensor mounting point.



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20. Once secured on the work platform, reattach the lift hoist and safely lift the SCR to the ground.



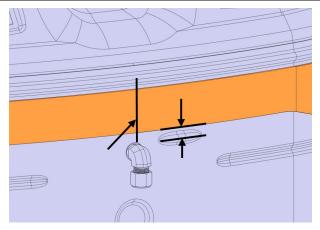


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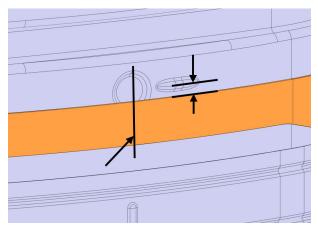
TAKE THE STRAPS AND BRACKETS APART FROM THE DEFECTIVE SCR CONVERTER

It is IMPORTANT to take all the necessary precautions in order to ease the installation of the straps and brackets on the replacement SCR converter. It is very important to position the straps and the mounting brackets as much as possible like they were positioned on the defective SCR converter. Doing so will greatly facilitate the installation of the SCT in the compartment.

It is highly recommended to measure and/or mark the position of the straps on the defective SCR converter in order to have references for positioning the straps on the new installation.



ON THE STRAP, DRAW A LINE CENTERED WITH THE DRAIN FITTING. MEASURE THE UPPER STRAP POSITION IN RELATION TO THE EMBOSS



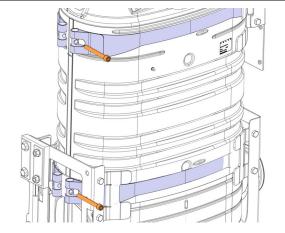
ON THE STRAP, DRAW A LINE CENTERED WITH CIRCULAR EMBOSS. MEASURE THE LOWER STRAP POSITION IN RELATION TO THE EMBOSS

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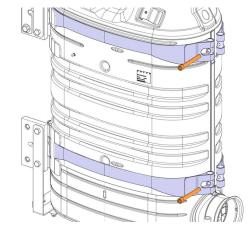
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21. Remove the mounting straps and brackets from the SCR converter. Unscrew the bolts identified by the arrows.

Note: wear cut resistant protection gloves when removing mounting straps

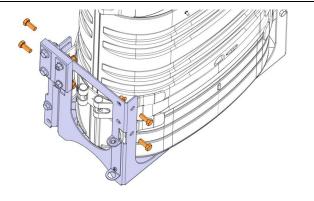


H3 SERIES - UNSCREW THE BOLTS INDICATED



X3 SERIES - UNSCREW THE BOLTS INDICATED

22. **H3 SERIES** - Take the R.H. side lower bracket apart from the SCR converter.

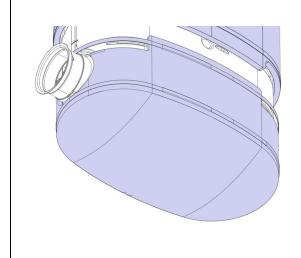


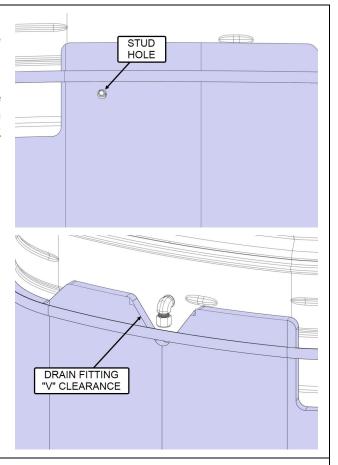
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23. Install the insulating blankets recovered from the defective SCR converter. Secure with new stainless-steel ties 22998036 (4x).

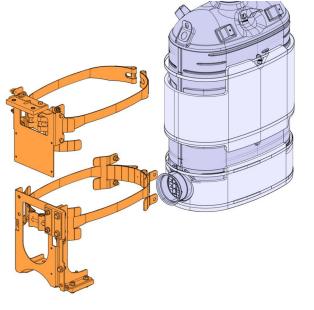
IMPORTANT: Make sure that the « V » clearance and the round clearance of the insulation blanket are placed at the drain fitting and the stud found on the SCR converter respectively.





24. Install the straps and brackets on the new SCR converter.

Note: Install the brackets exactly as on the defective SCR.

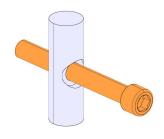


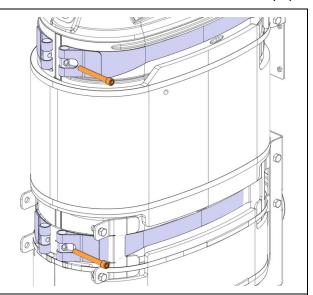
(H3 Series shown)

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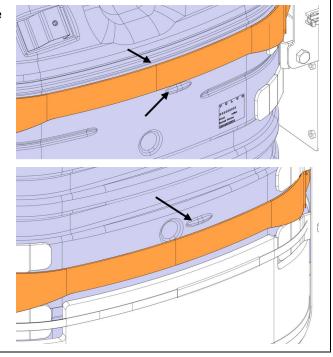
25. Tighten the bolts just enough to hold the straps in place while allowing movement for position adjustment.

Caution: The bolt head must go into the chamfered hole.



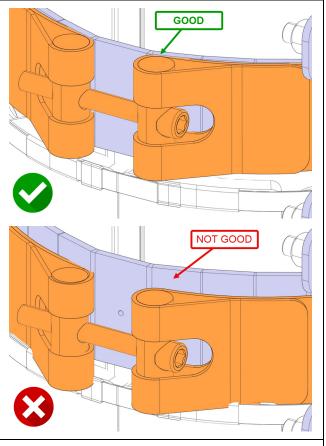


26. Adjust the straps position in reference to the emboss.



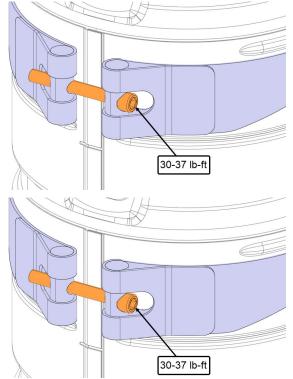
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27. **H3 SERIES** - Prior final tightening, make sure that each strap is properly centered on its respective bracket.



28. Once properly positioned, apply final torque to the strap bolts.

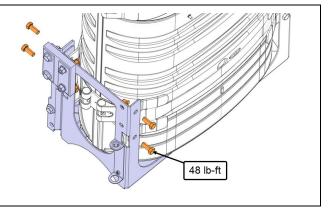
FINAL TORQUE: 30-37 lb-ft



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29. **H3 SERIES** - Install the R.H. side lower bracket and tighten the bolts (4x) to proper torque.

FINAL TORQUE: 48 lb-ft

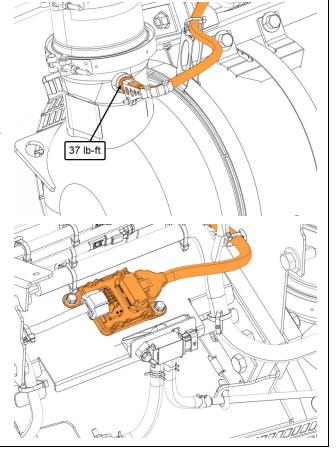


INSTALL THE PRE-SCR NOx SENSOR

1. Apply anti-seize compound on the new NOx sensor threads 22303390 and then fix onto the DPF outlet. Secure the harness using nylon ties.

NOx sensor torque: 37 lb-ft

Return the old NOx sensor with the SCR converter to Prevost

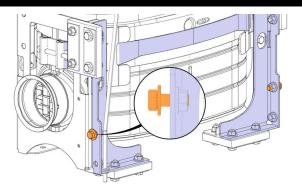


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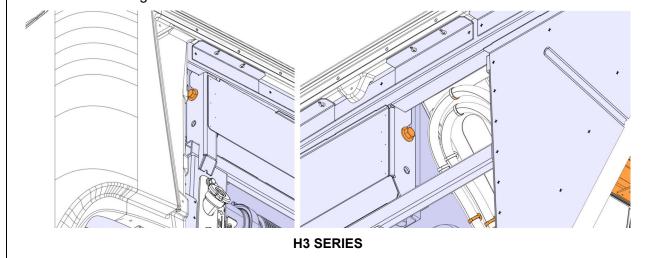
REINSTALL THE SCR CONVERTER IN ITS COMPARTMENT

1. **H3 SERIES** - Make sure that there is a 1/2" gap between the washer pressed against the bolt head and the bracket surface as shown on the image at right (2 bolts).

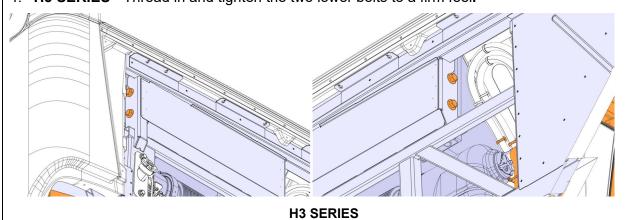


H3 SERIES - LOWER BRACKETS

- 2. **H3 SERIES** Install the SCR converter in final position. Rest the SCR converter at the fixing points on the chassis with the two upper bolts secured to both lower brackets.
- 3. **H3 SERIES** Tighten the two bolts to a firm feel.



4. H3 SERIES - Thread in and tighten the two lower bolts to a firm feel.



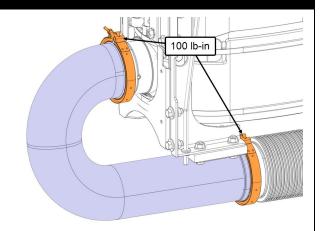
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5.	X3 SERIES – Install the SCR converter in final position. Reinstall the lower support bracket on the SCR converter.				
6.	X3 SERIES – Fasten the lower support to the vehicle chassis.	X3 SERIES			

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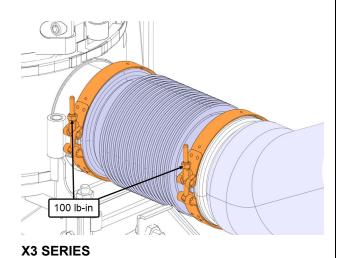
REINSTALL THE EXHAUST PIPE AND INSULATING BLANKET

- 1. Clean the sealing surfaces between the after-treatment SCR converter inlet, the exhaust pipe and the flexible section.
- 2. Using a new gasket 21095726 (2x), position the pipe to the after-treatment SCR converter and install a new V-band clamp 21021850 2x). Tighten the V-band clamp to specification. Proceed similarly with the other end of the exhaust pipe.

V-band clamp torque to 100 lb-in



H3 SERIES

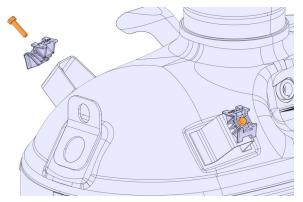


Date Expiration Release Page 04.2025 12.2028 33(51) 3. Reinstall the insulating blanket. **H3 SERIES** X3 SERIES

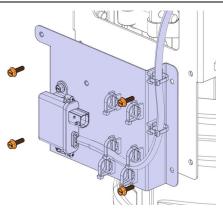
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INSTALLATION OF THE PM SENSOR

1. Recover the two harness mounts on the defective SCR converter and install them on the replacement SCR converter.

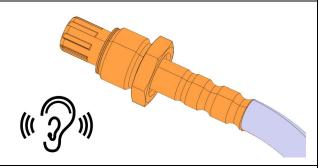


2. **H3 SERIES -** Reinstall the sensor module panel.

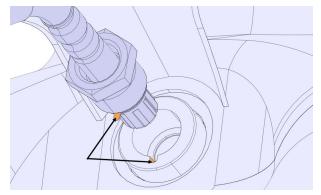


H3 SERIES

3. **Installation of the PM sensor.** Before installing the PM Sensor, shake the sensor close to your ear to detect a broken ceramic noise. If there is a sound of broken ceramic, reject the PM Sensor, it is defective. Install a PM sensor in good condition.



4. Before connecting the PM Sensor, make sure you align the keying tab with the orientation slot in the mating boss.



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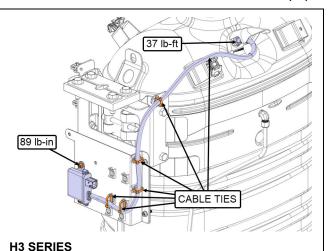
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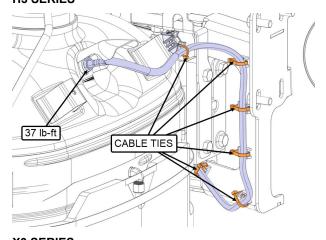
5. Install the PM sensor and secure the harness as shown using nylon cable ties 504637.

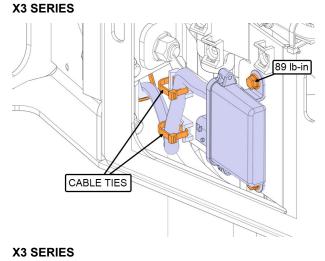
PM sensor torque: 37 lb-ft PM sensor module: 89 lb-in

6. **H3 SERIES** – Take up the extra length of the PM sensor harness shown on the image and secure to a nylon tie mount.







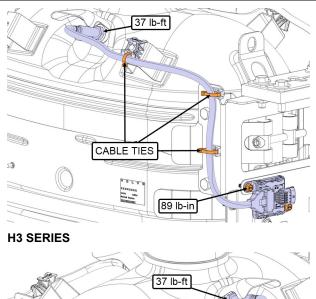


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INSTALL THE POST-SCR NOx SENSOR

1. Apply anti-seize compound on the NOx sensor threads 22303391 and then fix onto the SCR converter. Secure the harness as shown using nylon cables ties 504637.

NOx sensor torque: 37 lb-ft NOx sensor module: 89 lb-in



37 lb-ft

R9 lb-in

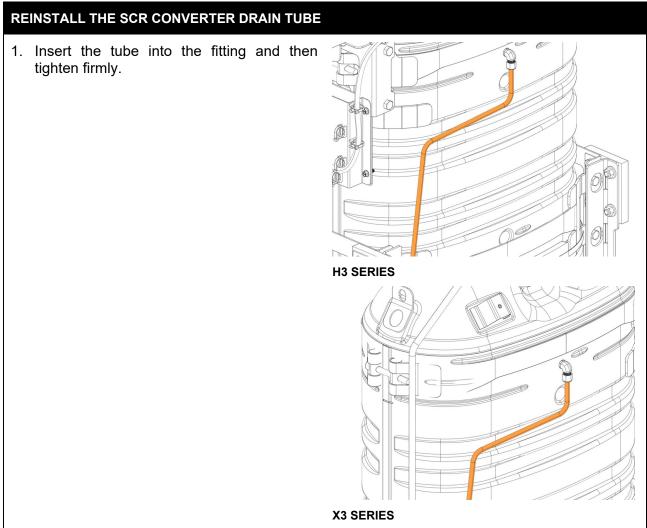
CABLE TIES

Writer JPHD <QF7720961 rev8>

X3 SERIES

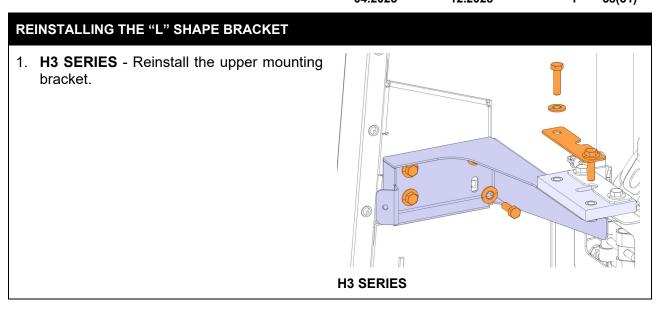
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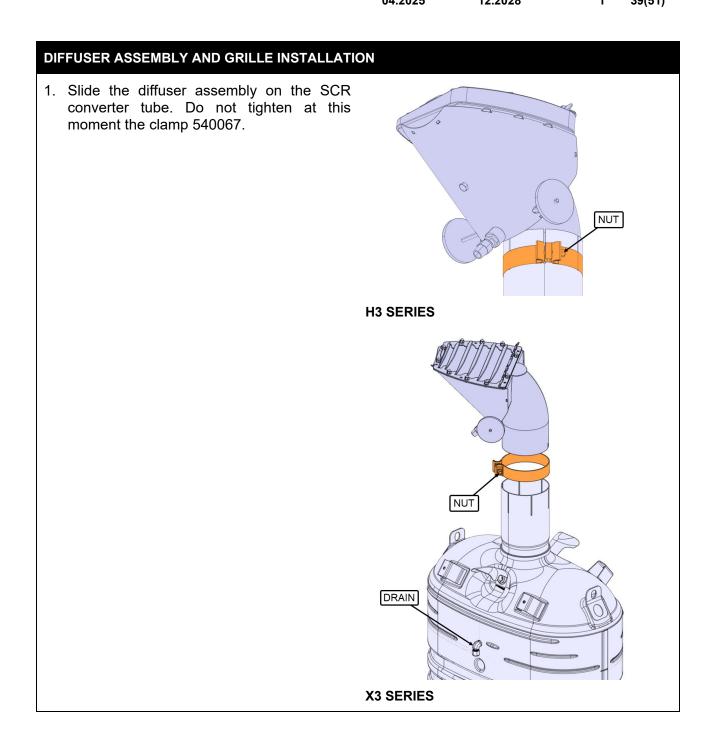
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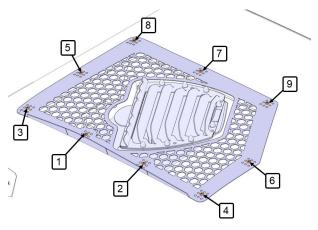
DIFFUSER DRAIN TUBE

Date Expiration Release Page 04.2025 12.2028 1 40(51) 2. Install the drain tube. 3. Insert the drain tube in the drain tube guide. **H3 SERIES** SCR DRAIN TUBE

X3 SERIES

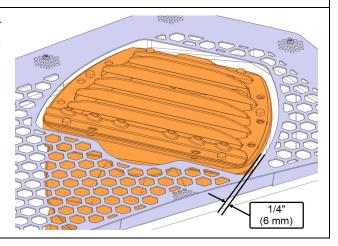
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4.	Install the SCR converter compartment grille on the top of the coach. Tighten the screw in the order shown on the image.	5	6		2
	#500952 tapping screw #8x1/2 SS	9			7
			4		3

H3 SERIES



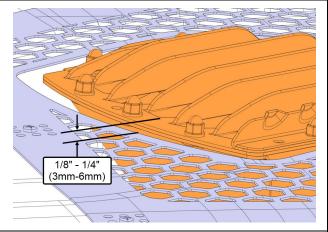
X3 SERIES

5. Adjust the spacing between the diffuser assembly and the grille. The minimum spacing should be ½" (6 mm).



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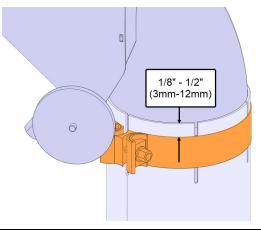
6. Adjust the diffuser assembly height above the grille. The edge height should be 1/8" to ½" (3 mm to 6 mm) at the diffuser corner shown on the image while the edge height should be 1/8" to ½" (3 mm to 12 mm) at the outer edge for the rest of the periphery.



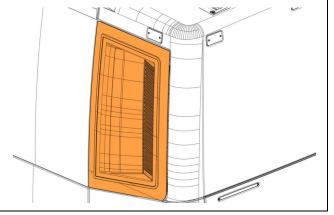
7. Slide the diffuser clamp close to the top of the SCR converter outlet tube.

Measurement: between 1/8" to $\frac{1}{2}$ " (3mm to 12mm)

8. Tighten the clamp.



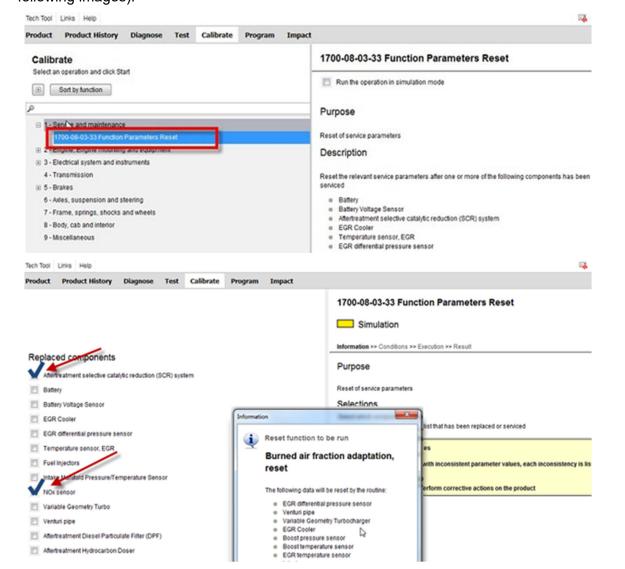
9. Reinstall the SCR converter compartment access hatch.



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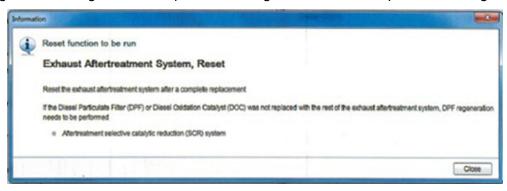
FINAL STEPS

- 1. Reconnect all previously removed cables to the negative (ground) battery terminals if applicable.
- 2. Start the engine and check for leaks of the exhaust system and proper operation.
- 3. Check for diagnostic troubleshooting code related to the after-treatment system, in particular, the PM sensor and NOx sensor.
- 4. Using TechTool, perform a Data Reset of the components that were replaced (refer to the two following images).



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5. Disregard the dialog box that requests DPF regeneration. Do not perform the regeneration.



PACKAGING FOR RETURN

1. Indicate the serial number of **new SCR converter** and **removed SCR converter** on RO.



2. Return the old SCR converter using the packaging of the new unit.

If not possible, ideally use cardboard box where SCR converter is covered, capped (reuse caps) and protected from elements and damage during shipping.

Tag part with RO and VIN info.

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Part 2- VOLVO 9700 VEHICLES

PROCEDURE



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 the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position. Lockout & 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.

You will find in Part 1 of this bulletin, useful information such as the diffuser removal/installation procedure, strap installation, SCR converter insulating blanket installations, NOx sensor installation, among others.

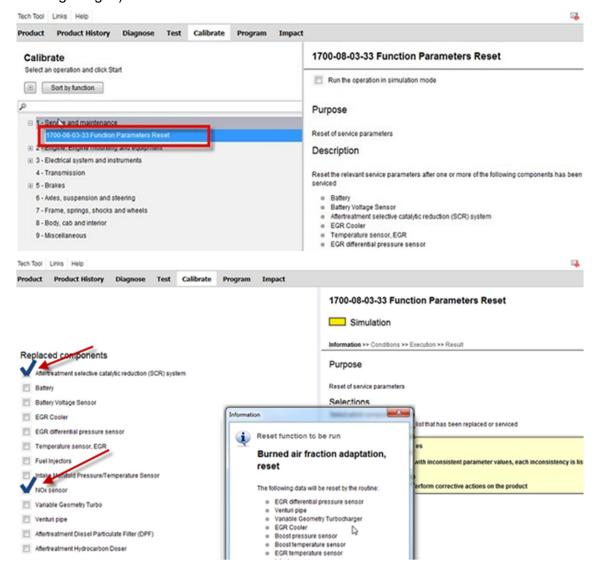
In complement to Part 1, please refer to the document listed below, available on Impact.

IDENTITY	ID/OPERATION	TITLE
129601506	2586-03-02-01	Aftertreatment Selective Catalytic Reduction (SCR) Catalyst, Replacement

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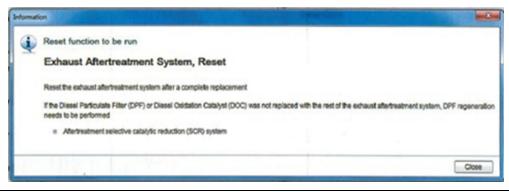
FINAL STEPS

- 1. Reconnect all previously removed cables to the negative (ground) battery terminals if applicable.
- 2. Start the engine and check for leaks of the exhaust system and proper operation.
- 3. Check for diagnostic troubleshooting code related to the after-treatment system, in particular, the PM sensor and NOx sensor.
- 4. Using TechTool, perform a Data Reset of the components that were replaced (refer to the two following images).



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5. Disregard the dialog box that requests DPF regeneration. Do not perform the regeneration.



PACKAGING FOR RETURN

1. Indicate the serial number of **new SCR converter** and **removed SCR converter** on RO.



2. Return the old SCR converter using the packaging of the new unit.

If not possible, ideally use cardboard box where SCR converter is covered, capped (reuse caps) and protected from elements and damage during shipping.

Tag part with RO and VIN info.

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INSTALL THE CAMPAIGN LABEL

1. Affix a campaign completion label p/n 85152363 (Figure 1) as shown on Figure 3-Figure 2.

CAMPA	IGN COMPLETION	ON LABEL
RECALL NUMBER NUMÉRO DE RAPPEL ECXXXX	COMPLETION DATE MM/DD/YYYY DATE D'EXÉCUTION MM/JJ/AAAA	BRANCH / DEALER CODE SUCCURSALE
		85152363

Figure 1: campaign completion label

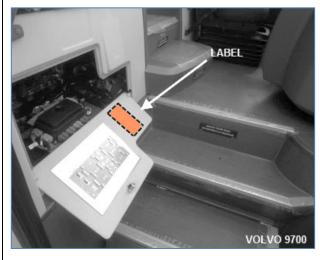


Figure 2: VOLVO 9700



Figure 3: X3 SERIES



Figure 4: H3 SERIES

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- 2. On the campaign completion label, signify that the campaign has been completed. Use a permanent type of marker/sharpie to write:
 - The recall number i.e., EC0032
 - The completion date (MM/DD/YYYY)
 - The branch/service center code)
- 3. A Certificate of Emissions Recall Completion is also provided in the kit. Fill in the appropriate information and give the certificate to the customer/owner of the vehicle. An image of the certificate is included at the end of this document should the provided certificate be damaged. **Preferably, use the one included in the kit.**

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PARTS / WASTE DISPOSAL

All replaced parts must be returned to Prevost according to the Return Shipping Instructions available on https://www.prevostcar.com/content/warranty-documents for full reimbursement. A copy of the warranty claim form must be enclosed with the shipment.

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

WARRANTY

This modification is covered by Prevost's normal warranty and will be performed free of charge. This warranty will expire if the vehicle has more than 750,000 miles (1,207,000 km) and/or is more than 10 years old and/or after December 31, 2028.

ESTIMATED TIME

The estimated time required to execute this bulletin see the table below.

Prevost vehicles	10 hours
Volvo 9700	5 hours

OTHER

VBC Bulletin	C0285
Fail Code	04.04-1
Defect Code	09
Syst. Cond	R
Causal Part	21970125

Access all our Service Bulletins on http://techpub.prevostcar.com/en/

or scan the QR-Code with your smart phone.

E-mail us at <u>technicalpublications prev@volvo.com</u> and type "ADD" in the subject to receive our warranty bulletins by e-mail.



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.

---- CUT HERE -----

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

d'immatriculation	Make/Marque	Year Model/Année Modèle	Model/Modèle	Vehicle Identification Number/Numéro d'identification du véhicule
Manufacturer/Fabriqu	ant:	Recall Numbe	r/Numéro de r	appel:
	éhicule a été r e des émissions sentative	éparé ou mod s. Repair	difié dans le l carried out at	iddress the Emissions Related Recall that is but de répondre au rappel inscrit ci-dessu (address, city, state/province) ville, province)
Authorized Signature,	/Signature du re	eprésentant au	torisé	