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Revision: D	Procedure updated. Additional tools depicted		03/22/2022	

SCR CONVERTER REPLACEMENT - AFTERTREATMENT SYSTEM

Prevost vehicles & B13R (9700 us/can)

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DESCRIPTION

This special bulletin is the continuity of Special Bulletin SP18-35. Only if authorized, perform the replacement of the SCR converter.

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's website.					
Specific	c GHG17 & OBD18 compliant vehicles				
This bulletin does not necessarily appl before delivery.	y to all the above-mentioned vehicles, some vehicles may have been modified				

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MATERIAL NEEDED

Order kit **SP18-39** which includes the following parts:

Part No.	Description	Qty
500952	SCREW, TAPPING BDG PH SS #8X1/2	12
504637	CABLE TIE, NYLON BLK	12
540067	EXHAUST CLAMP 5"	1
21021850	CLAMP, V-BAND 5-INCH	2
21095726	GASKET EXHAUST PIPE V-BAND JOINT, 5-INCH	2
22303390	NOx SENSOR, PRE	1
22303391	NOx SENSOR, POST	1
22998036	TIE, STAINLESS STEEL	4
23190006	SCR CONVERTER	1

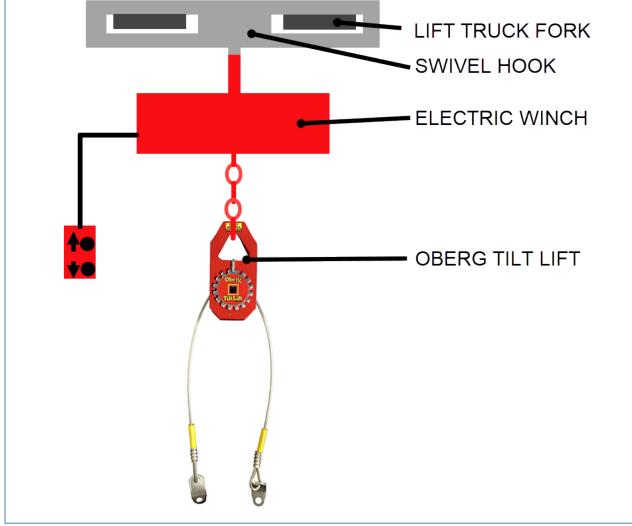
NOTE

Material can be obtained through regular channels.

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PECIAL EQUIPMENT REQ	UIRED			
scissor lift – mobile platform	electric winch	Master Hoo	for fork lift IP6-S Swive k Plate, 24" V 000 lbs Capa	Vidth,
Oberg tilt lift 2,000 lbs. Capaci use with half-inch ratchet or h	ity – special lifting tool available alf-inch breaker bar		Oberg Tillin Total	

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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:



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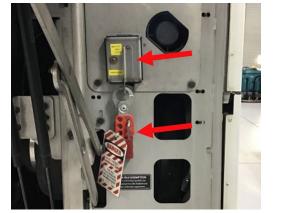
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Part 1- H3 SERIES AND X3 SERIES VEHICLES

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 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.



PRELIMINARY STEPS

- 1. Open the engine compartment door and the SCR converter access door.
- Remove the SCR converter access door. Doing so will allow extraction of the SCR converter out of its compartment.

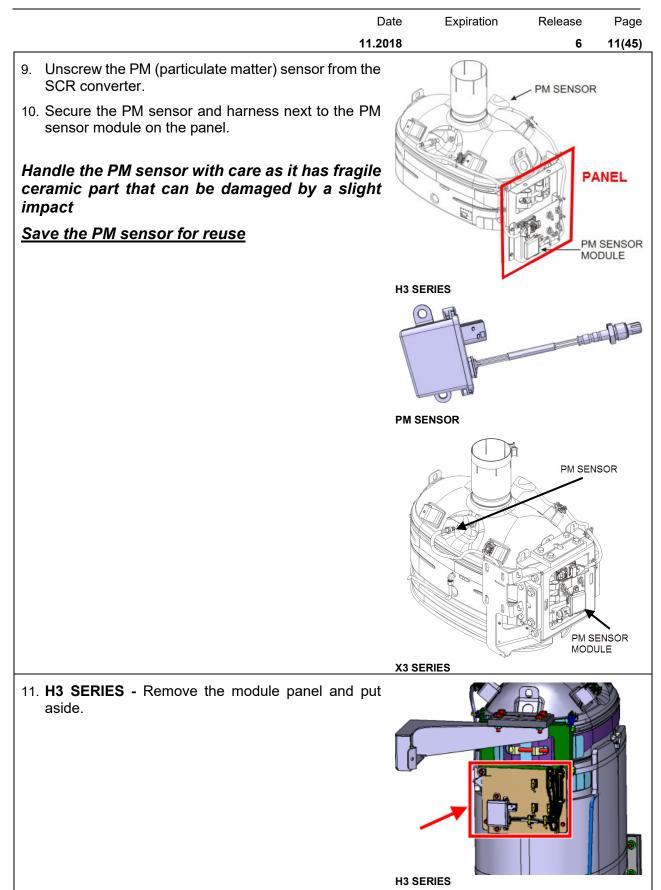


3. The SCR converter is heavy, huge and the free space in the opening is limited. Do whatever is necessary to protect the fiberglass and the paint around the opening giving access to the SCR. Using adhesive tape, place pieces of cardboard around the area.

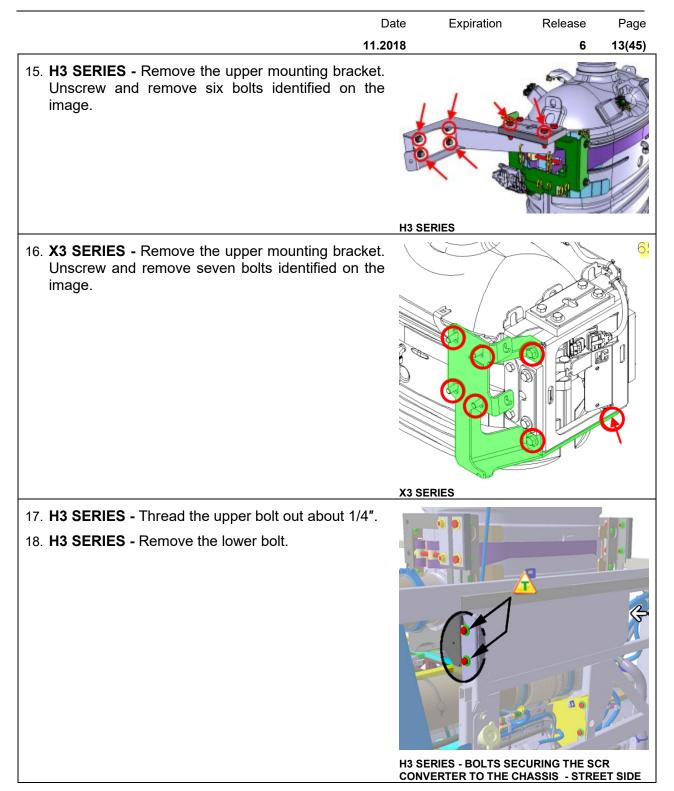
			iration	Release	Page
4.	11.20 Remove the SCR overhead ventilation grille.			6	8(45)
5.	Loosen the clamp and then remove the diffuser assembly with the drain tube attached.	(.			I
6.	Support the exhaust pipe between the SCR and the flexible section. Remove the insulating blanket around the pipe and then remove the two V-band clamps securing the exhaust pipe. Move the exhaust pipe to clear it from the SCR converter compartment.	H3 SERIES			
		X3 SERIES			

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SCR CONVERTER REMOVAL				
7. Disconnect the SCR converter drain tube	H3 S	ERIES		
	X3 S	ERIES		

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		11.2018		6	10(45)
8.	Unscrew and remove the NOx sensor and modu <u>Return the NOx sensor with the defective Seconverter to Prevost</u> .			Nox S	ensor
		1	Nox SENSOR MODULE		PANEL
		H3 :	SERIES		
				NOX SER	SENSOR
		X3 \$	SERIES		

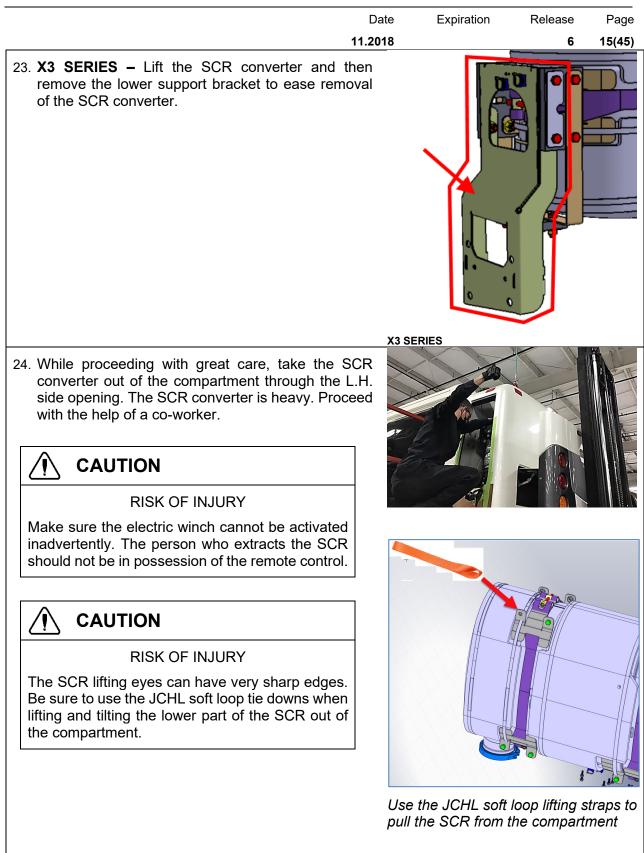


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12. X3 SERIES - Remove the module panel and paside.	out X3 SEF	RIES		
13. Install special lifting equipment (see SPECI EQUIPMENT REQUIRED) to the lifting eyelets the SCR converter.	AL of			ST 1
See the image on the right and refer to SPECI EQUIPMENT REQUIRED				
14. With the lifting equipment, support the weight of t SCR converter.	he			



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11.20	18	6	14(45)
 19. H3 SERIES - Thread the upper bolt out about 1/4 in. 20. H3 SERIES - Remove the lower bolt. 	H3 SERIES - BOLTS SECONVERTER TO THE C	CURING THE SO	J J J J J J J J J J J J J J J J J J J
21. H3 SERIES - Using the lifting device, lift the SCR cor from the fixing points at the bottom.	nverter a few inches	so it will dis	engage
22. X3 SERIES – Unbolt the lower support bracket from the chassis (4 bolts).			441
	X3 SERIES		

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Once the bottom of SCR is lifted high enough to clear the opening, unhook the farmost lifting eye, this will

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allow the outside bottom of the SCR to tilt out of the opening. Please note that the Oberg lifting tool should be locked in place.	AL.			
25. To extract the SCR from the compartment, tilt the SCR clockwise 20° to increase clearance for the NOx sensor mounting point.		20° tilt		

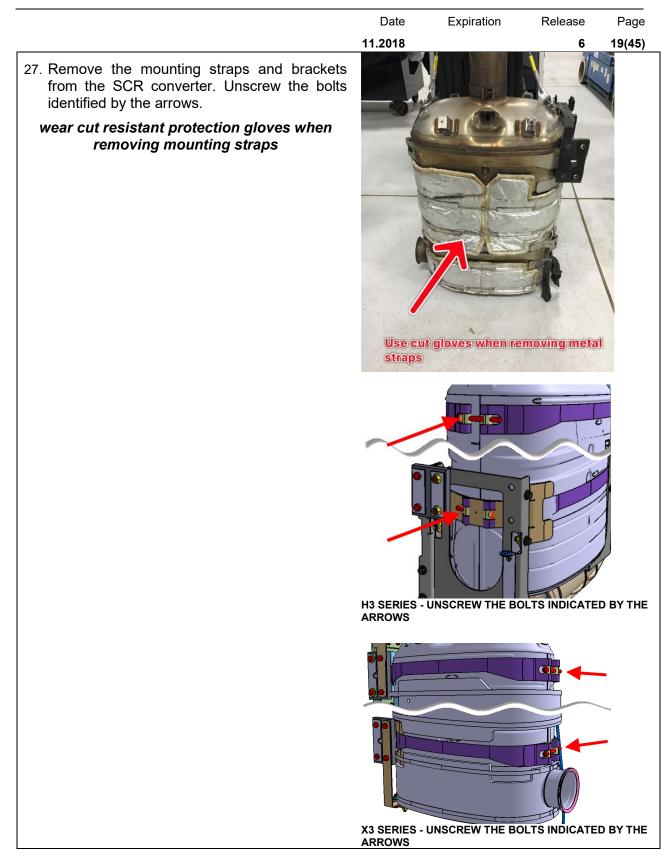
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26.	Once secured on the work platform, reattach the li hoist and safely lift the SCR to the ground.	ft			

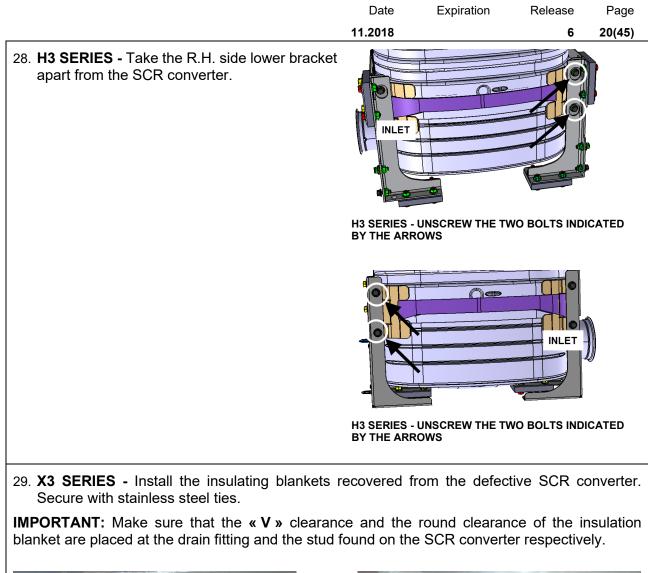
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TAKE THE STRAPS AND BRACKETS APART FROM	I THE DEFEC	TIVE SCR CON	VERTER	
It is IMPORTANT to take all the necessary precautions in order to ease the installation of the straps and brackets on the replacement SCR converter. It is very important to position 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.		P, DRAW A LINE C ASURE THE UPP THE EMBOSS		

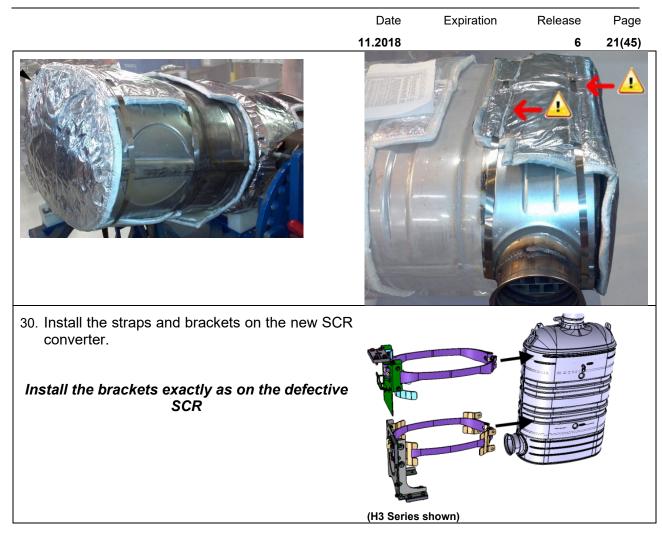
ON THE STRAP, DRAW A LINE CENTERED WITH CIRCULAR EMBOSS. MEASURE THE LOWER STRAP POSITION IN **RELATION TO THE EMBOSS**

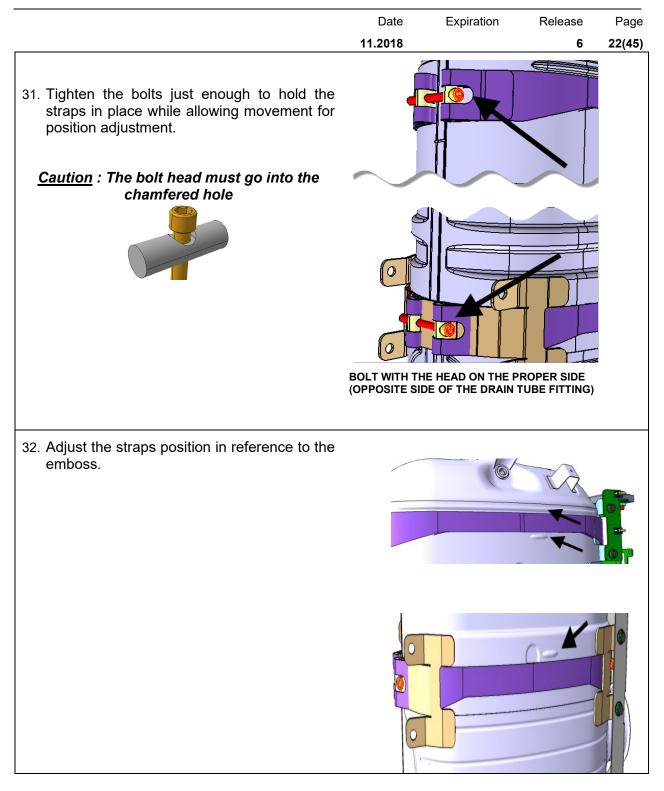








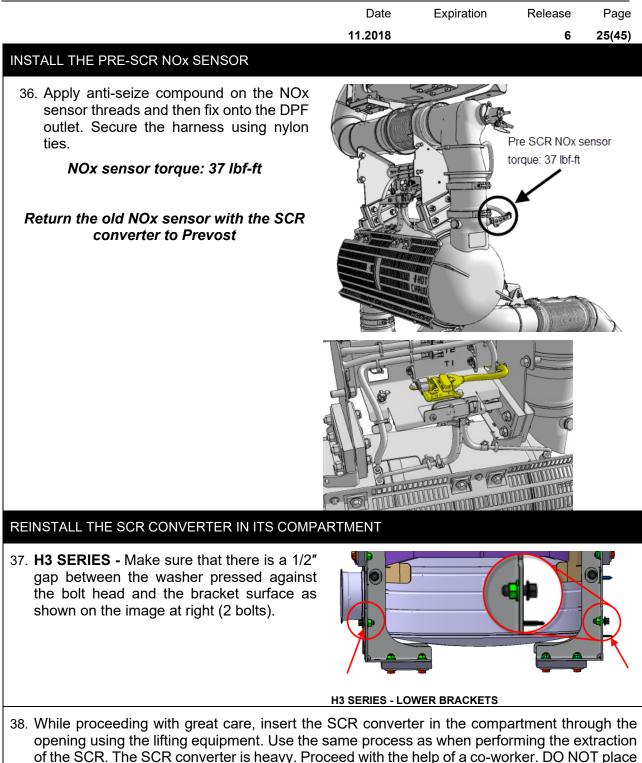




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33. H3 SERIES - Prior final tightening, make sure that each strap is properly <u>centered</u> on its respective bracket.				
			NOT GO	OD
34. Once properly positioned, apply final torque to the strap bolts.<i>FINAL TORQUE: 30-37 lbf-ft</i>				
	0			

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35. H3 SERIES - Install the R.H. side lower bracket and tighten the bolts (4x) to proper torque. <i>FINAL TORQUE: 48 lbf-ft</i>	H3 SERIES		4x	

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of the SCR. The SCR converter is heavy. Proceed the SCR converter in final position yet.

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39. **H3 SERIES** - Install the upper and lower insulating blankets recovered from the defective SCR converter. Secure with stainless steel ties.

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.



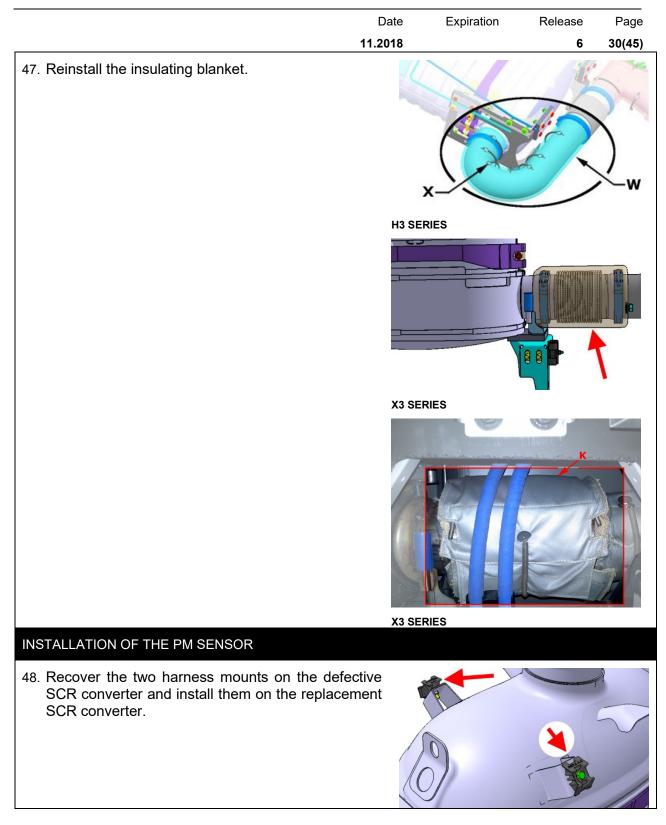




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 40. H3 SERIES - Install the SCR converter in final position. Rest the SCR converter at the fixing points on the chassis with the two upper bolts secured to both lower brackets. 41. H3 SERIES - Tighten the two bolts to a firm feel. 	H3 SERIES	E C		
42. H3 SERIES - Thread in and tighten the two lower bolts to a firm feel.	H3 SERIES			

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 43. X3 SERIES - Reinstall the lower support bracket on the SCR converter. 44. X3 SERIES - Fasten the lower support to the vehicle chassis. 				
	X3 SERIES			
		0		

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REINSTALL	THE EXHAUST PIPE AND INSULATING BLAN	KET			
treatme	the sealing surfaces between the after- ent SCR converter inlet, the exhaust pipe and ible section.	`			
treatme clamp.	new gasket, position the pipe to the after- ent SCR converter and install a new V-band Tighten the V-band clamp to specification. d similarly with the other end of the exhaust	1			N
Gas	sket, qty: 2	H3 S	ERIES		
V-ba	and clamp, qty: 2 (torque=100 lbf-in)	X3 S	FRIES		



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49. H3 SERIES – Reinstall the sensor module panel.	H3 S	ERIES		
50. Installation of the PM sensor . Before installin the PM Sensor, shake the sensor close to your e to detect a broken ceramic noise. If there is sound of broken ceramic, reject the PM Sensor is defective. Install a PM sensor in good conditio	ng ar a 7 it	(((5))))		((G)))
51. Before connecting the PM Sensor, make sure you align the keying tab with the orientation slot in the mating boss.				

.2018	37 lbf	6 -ft	32(45)
3	37 lbf	-ft	S
	0	13	
Alter and a	89 lbf-in		
H3 SE	RIES	- 1/-1	
X3 SE	RIES		
		89 lbf-i	
	37 37 X3 SE	AS SERIES X3 SERIES	

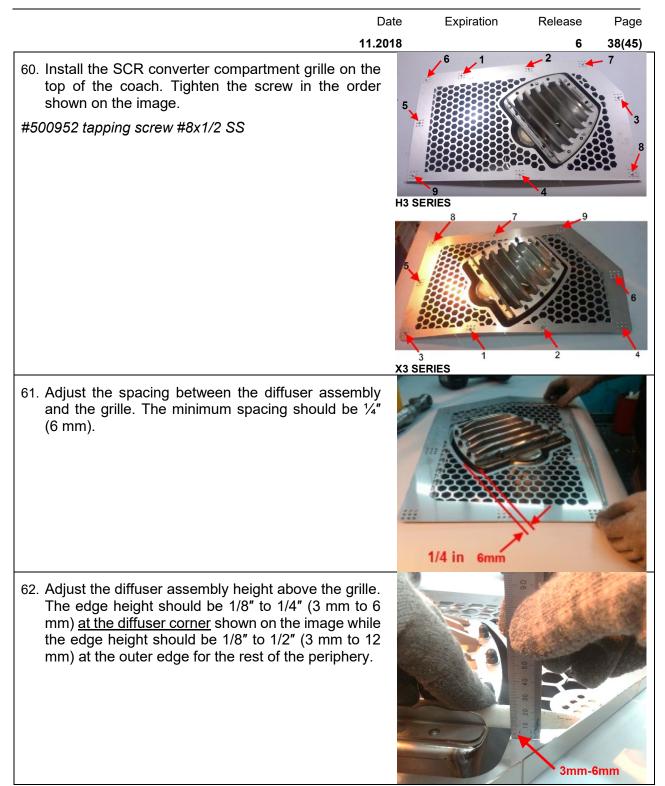
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53. H3 SERIES – Take up the extra length of the PM sensor harness shown on the image and secure to a nylon tie mount.	- Alter and - Alter	SERIES		

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INSTALL THE POST-SCR NOX SENSOR			
54. Apply anti-seize compound on the NOx sensor threads and then fix onto the SCR converter. Secure the harness as shown using nylon ties. <i>NOx sensor torque: 37 lbf-ft</i>	With the second seco		

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REINSTALL THE SCR CONVERTER DRAIN TUBE				
55. Insert the tube into the fitting and then tighten	firmly.	RIES		
	x3 SE			
REINSTALLING THE "L" SHAPE BRACKET				
56. H3 SERIES – Reinstall the upper mounting bracket.				

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DIFFUSER ASSEMBLY AND GRILLE INSTALLATION				
57. Slide the diffuser assembly on the SCR conv tube. Do not tighten at this moment.		SERIES - NUT ON TH	IIS SIDE	Ç
		Prain SERIES – NUT ON TH	AIIS SIDE	

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58. Install the drain tube.				
59. Insert the drain tube in the drain tube guide.				
		SERIES SERIES	DIFFUS DRAIN SCR DR TUBE	



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63. Slide the diffuser clamp close to the top of the s converter outlet tube.	SCR		¥	
Measurement: between 1/8" to 1/2" (2 mm to mm)	o 12		+	
64. Tighten the clamp.				I
65. Reinstall the SCR converter compartment acc hatch.	cess			

FINAL STEPS 66. Reconnect all previously removed cables to the negative (ground) battery ter applicable. 67. Start the engine and check for leaks of the exhaust system and proper operation. 68. Check for diagnostic troubleshooting code related to the after-treatment sy particular, the PM sensor and NOx sensor. 69. Using TechTool, perform a Data Reset of the components that were replaced (ref two following images). TechTool Links Help Product Product History Diagnose Test Calibrate Program Impact 1700-08-03-33 Function Parameters Reset Setect an operation and click Start Setect and parameters Reset Description Reset of service parameters Description Reset of service parameters after one or more of the following conserviced Settery Totale Sensor - Addes, suspension and steering - Addes, suspension and steering - Addes, suspension and steering	stem, in
 66. Reconnect all previously removed cables to the negative (ground) battery ter applicable. 67. Start the engine and check for leaks of the exhaust system and proper operation. 68. Check for diagnostic troubleshooting code related to the after-treatment sy particular, the PM sensor and NOx sensor. 69. Using TechTool, perform a Data Reset of the components that were replaced (ref two following images). TechTool Links Help Product History Diagnose Test Calibrate Program Impact Product History Diagnose Test Calibrate Program Impact Purpose Reset of sender parameters After one or more of the following conserved Purpose Reset of sender parameters after one or more of the following conserved Purpose Predict system and instruments Transmission Finded system and stering Finded system and stering Finded system and instruments Finded system and stering Finde	stem, in er to the
applicable. 67. Start the engine and check for leaks of the exhaust system and proper operation. 68. Check for diagnostic troubleshooting code related to the after-treatment sy particular, the PM sensor and NOx sensor. 69. Using TechTool, perform a Data Reset of the components that were replaced (rel two following images). Tech Tool Links Help Product Product History Diagnose Test Calibrate Program Impact Calibrate Select an operation and click Start Better and maintenance From Addes, suspension and stering 7. Frame, springs, shocks and wheels 8. Body, cab and interfor Body, cab and interfor	stem, in er to the
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particular, the PM sensor and NOx sensor. 69. Using TechTool, perform a Data Reset of the components that were replaced (ref two following images). Tech Tool Links Help Product Product History Diagnose Test Calibrate Program Impact Calibrate Select an operation and click Start B Sort by function Set by	er to the
Two following images). Tech Tool Links Help Product Product History Diagnose Test Calibrate Program Impact Calibrate Select an operation and click Start Image: Sort by function Image: Sor	
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Calibrate Select an operation and click Start Image: Sort by function Sort by function Image: Sort by function	
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I - Sen/'s and maintenance Put pose 1700-08-03-33 Function Parameters Reset Reset of service parameters I - Engine, Engine monoming and equipment Description II - Transmission Reset the relevant service parameters after one or more of the following conserviced II - Sen/'s and maintenance Reset the relevant service parameters after one or more of the following conserviced II - Sen/'s and maintenance Reset the relevant service parameters after one or more of the following conserviced III - Sen/'s and maintenance IIII - Sen/'s and maintenance III - Sen/'s and maintenance Reset the relevant service parameters after one or more of the following conserviced III - Sen/'s and maintenance IIII - Sen/'s and maintenance III - Sen/'s and maintenance IIII - Sen/'s and maintenance III - Sen/'s and maintenance IIIII - Sen/'s and maintenance III - Sen/'s and maintenance IIIII - Sen/'s and maintenance III - Sen/'s and maintenance IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
1700-08-03-33 Function Parameters Reset Reset of service parameters 2 - engine, Engine monitory and equipment Description 3 - Electrical system and instruments Reset of service parameters after one or more of the following conserviced 4 - Transmission Reset the relevant service parameters after one or more of the following conserviced 6 - Axles, suspension and steering Battery 7 - Frame, springs, shocks and wheels Battery Voltage Sensor 8 - Body, cab and interior EGR Cooler	
2 - Engine, Engine mounting and equipment 3 - Electrical system and instruments 4 - Transmission 5 - Brakes 6 - Axles, suspension and steering 7 - Frame, springs, shocks and wheels 8 - Body, cab and interior EGR Cooler	
4 - Transmission Reset the relevant service parameters after one or more of the following conserviced Image: 5 - Brakes serviced 6 - Axles, suspension and steering Image: Battery 7 - Frame, springs, shocks and wheels Battery Voltage Sensor 8 - Body, cab and interior Image: Battery Image: Battery Image: Battery <	
Image: Solution of the service of	meneric has been
7 - Frame, springs, shocks and wheels Battery Voltage Sensor Aftertreatment selective catalytic reduction (SCR) system EGR Cooler 	nponents has been
8 - Body, cab and interior Body, cab and interior EGR Cooler	
e Est coner	
9 - Miscellaneous Temperature sensor, EGR	
EGR differential pressure sensor	
Tech Tool Links Help	4
Product Product History Diagnose Test Calibrate Program Impact	
1700-08-03-33 Function Parameters Reset	
Simulation	
Information >> Conditions >> Execution >> Result	
Replaced components Purpose	
Aftertreatment selective catalytic reduction (SCR) system	
Battery Reset of service parameters Selections	
EGR Cooler	
EGR differential pressure sensor	
E Temperature sensor, EGR es	
Fuel Injectors Burned air fraction adaptation, reset with Inconsistent parameter values, eac	h inconsistency is lis
Intake Ventifold Pressure/Temperature Sensor The following data will be reset by the routine: Interform corrective actions on the product	
NUX sensor	,
Vanable Geometry ruleo	
Venturi pipe Variable Geometry Turbocharger EGR Cooler Boost pressure sensor	
Afterfreatment Hydrocarbon Doser Boost temperature sensor	
EGR temperature sensor	

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70. Disregard the dialog box that requests DPF re	egeneration.	Do not perform	the regene	ration.
Information	and the second s			
Reset function to be run				
Exhaust Aftertreatment System, Reset				
Reset the exhaust aftertreatment system after a complete replacement				
If the Diesel Particulate Filter (DPF) or Diesel Oxidation Catalyst (DOC) was no needs to be performed	t replaced with the rest of the	exhaust aftertreatment system, DP	F regeneration	
 Aftertreatment selective catalytic reduction (SCR) system 				
CONTRACTOR OF STREET			Close	
PACKAGING FOR RETURN				
71 Indicate carial number of new CCD converte			tar an DO	
71. Indicate serial number of <u>new SCR converte</u>	and <u>remov</u>		<u>ter</u> on RO.	
			21437514 3992 14W 12400003969102	48
72. Return the old SCR converter using the p	ackaging of	<u>f the new unit</u> .		
If not possible, ideally use cardboard bo (reuse caps) and protected from elements and o			covered, ca	apped
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, s the ignition switch to the OFF position and trip the main circuit breakers equipped with a tributton. On the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.	rip
Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activitie Refer to your local procedure for detailed information regarding the control of hazardo 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

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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Tech Tool Links Help	
Product Product History Diagnose Test Calibrate Program Impa	x
Calibrate	1700-08-03-33 Function Parameters Reset
Select an operation and click Start	Run the operation in simulation mode
Sort by function	
	Purpose
1 - Sen/Ye and maintenance 1700-08-03-33 Function Parameters Reset	Reset of service parameters
2 - Engine, Engine mounting and equipment	Description
④ 3 - Electrical system and instruments 4 - Transmission	Reset the relevant service parameters after one or more of the following components has been
⊞ 5 - Brakes	serviced
6 - Axles, suspension and steering 7 - Frame, springs, shocks and wheels	 Battery Battery Voltage Sensor
8 - Body, cab and interior	 Aftertreatment selective catalytic reduction (SCR) system EGR Cooler
9 - Miscellaneous	Temperature sensor, EGR EGR differential pressure sensor
Tech Tool Links Help Product Product History Diagnose Test Calibrate Program Impact	
Product Product mistory Diagnose rest Cambrate Program Ampact	
	1700-08-03-33 Function Parameters Reset
	Simulation
Replaced components	Information >> Conditions >> Execution >> Result
Aftertreatment selective catalytic reduction (SCR) system	Purpose
Aller Battery	Reset of service parameters
Battery Voltage Sensor	Selections
EGR Cooler Information	list that has been replaced or serviced
EGR differential pressure sensor Temperature sensor, EGR	on to be run es
Evel Injectors Burned at	r fraction adaptation, with inconsistent parameter values, each inconsistency is lis
Intake Ventrold Pressure/Temperature Sensor	
	ata will be reset by the routine:
Vanable Geometry Farbo	rential pressure sensor pe Seometry Turbocharger
EGR Co	
Affertreatment Hydrocarbon Doser	nperature sensor
	ts DPF regeneration. Do not perform the
regeneration.	
Information	
Reset function to be run	
Exhaust Aftertreatment System, Reset	
Reset the exhaust aftertreatment system after a complete replacement	
If the Diesel Particulate Filter (DPF) or Diesel Oxidation Catalyst (DOC) was needs to be performed	not replaced with the rest of the exhaust aftertreatment system, DPF regeneration
Aftertreatment selective catalytic reduction (SCR) system	
	Close

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PACKAGING FOR RETURN				
6. Indicate serial number of <u>new SCR conv</u>	erter and remove	ed SCR conve	<u>rter</u> on RO.	
			21437514 1982 1982 12400003989102	446
7. Return the old SCR converter using th	ne packaging of	the new unit		
If not possible, ideally a cardboard box where and protected from elements.	e SCR converter	is covered, ca	pped (reuse	caps)
Tag part with RO and VIN info.				

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PARTS / WASTE DISPOSAL

Return the defective SCR converter to Prevost.

ESTIMATED TIME

The time required to perform this special bulletin is approximately:

Prevost vehicles	10 hours	
Volvo 9700	3 hours	

OTHER

VBC Bulletin	N/A	Access all our Service Bulletins on
Fail Code	04.04-1	http://techpub.prevostcar.com/en/ or scan the QR-Code with your smart phone.
Defect Code	09	
Syst. Count	В	
Causal Part	21970125	

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.