

DTC (Code) P207F-00 / P20EE-00 Codigo:	Bulletin: RD18-002 Date Fecha: May 11, 2018
Description: See below for fault code description(s)	
Application: US10 – US20 Emissions	

General Information

These repair instructions are intended to address the following faults:

DTC	Description	Possible Cause	Possible (Observable) Symptoms
P207F-00	Reductant Quality - No additional information	<ul style="list-style-type: none"> • Dosing too low • Wrong liquid in tank • Aftertreatment selective catalytic reduction (SCR) catalyst • Aftertreatment diesel exhaust fluid (DEF) dosage valve • Restricted filter • Aftertreatment Hydrocarbon Doser, over-fueling 	Vehicle speed is limited to 5 mph
P20EE-00	SCR NOx Catalyst Efficiency Below Threshold (Bank 1)	<ul style="list-style-type: none"> • DEF Dosing • DEF concentration • SCR Catalyst • Diesel particulate filter (DPF) Catalyst • Hydrocarbon dosing amount is too high 	<ul style="list-style-type: none"> • Too high NOx emissions • Engine de-rated

NOTE: You have received this repair instruction due to DTC P20EE-00 (SCR NOx Catalyst Efficiency Below Threshold) also being active. Please follow instructions below.

Required Parts

Part Number	Description	Quantity
22303390	Pre-Cat NOx sensor	1
22303391	Post-Cat NOx sensor	1

Repair Instructions

NOx Sensor and Control Module, Replacement

NOTE: Vehicles equipped with US2017 emission compliant engines have two NOx sensors, one that measures NOx level before the exhaust enters the Selective Catalyst Reduction (SCR) unit and one that measures NOx level after the exhaust leaves the SCR. This procedure is for both NOx sensor and control module locations.

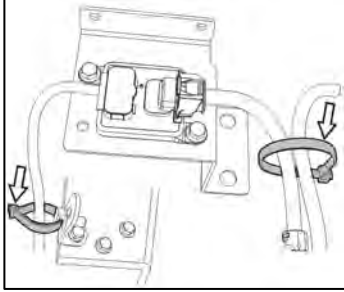


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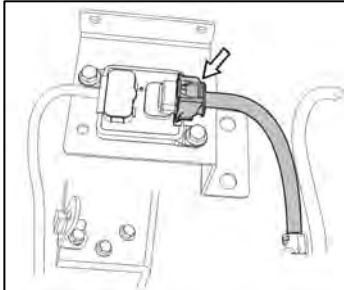
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Removal

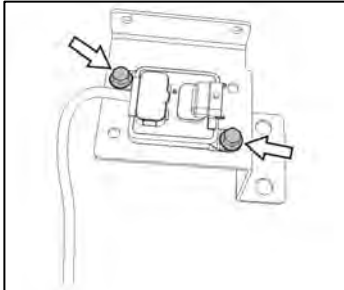
1. Open the rear engine service doors.
2. Set the engine disable switch to "OFF".
3. Open the left rear selective catalytic reduction (SCR) access door.
4. Remove all tie straps that attach the harness connector and the sensor lead.



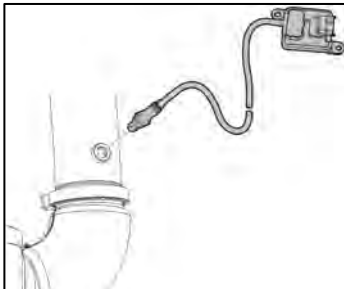
5. Disconnect the harness from the NOx control module.



6. Remove the control module mounting fasteners.



7. Remove the NOx sensor from the exhaust outlet pipe.



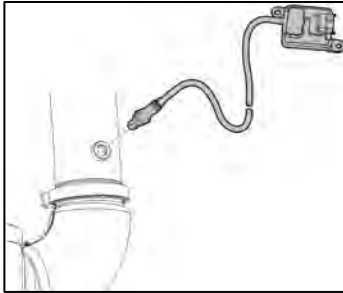


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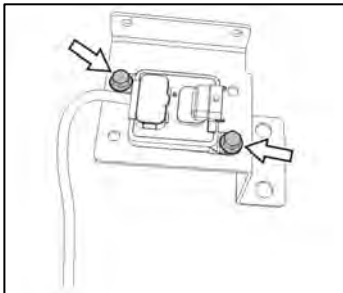
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Installation

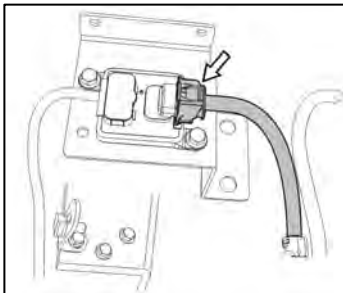
1. Install the replacement NOx sensor in the exhaust outlet pipe.



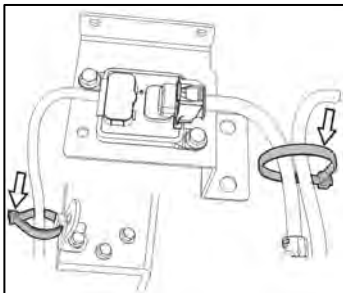
2. Install the control module mounting fasteners.



3. Connect the harness to the control module.



4. Attach the harness and the sensor lead with tie straps.



5. Set the engine disable switch to "ON".
6. Connect the Tech Tool, clear diagnostic trouble codes (DTCs) and check operation.
7. Close the left rear selective catalytic reduction (SCR) access door.
8. Close the rear engine service doors.



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Additional Resources

These repairs are the most likely fix for the identified fault(s), if this does not fix the issue, Tech Tool will need to be used for more detailed diagnostics. If filing a warranty claim, please include the ASIST case number.

Labor Code	
2589-03-02-10	0.6
2589-03-02-11 SCR Inlet	0.4-1.0 (Depending on model)
Causal Part	22303390
	22303391