

**DTC (Code)** P207F-00  
**Codigo:**

**Bulletin:** RD18-003  
**Date Fecha:** May 17, 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<br>- No additional information | <ul style="list-style-type: none"> <li>Dosing too low</li> <li>Wrong liquid in tank</li> <li>Aftertreatment selective catalytic reduction (SCR) catalyst</li> <li>Aftertreatment diesel exhaust fluid (DEF) dosage valve</li> <li>Restricted filter</li> <li>Aftertreatment Hydrocarbon Doser, over-fueling</li> </ul> | Vehicle speed is limited to 5 mph |

### 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

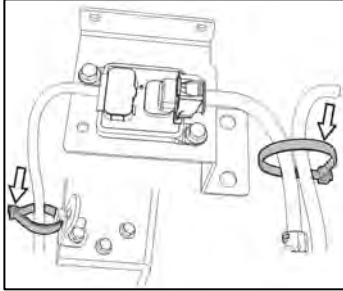
#### Removal

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.

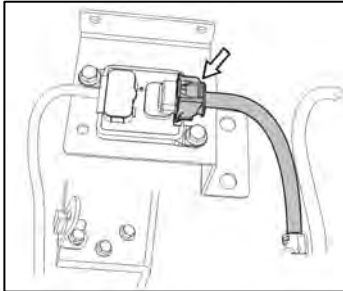
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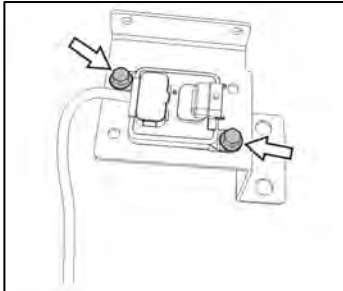
4. Remove all tie straps that attach the harness connector and the sensor lead.



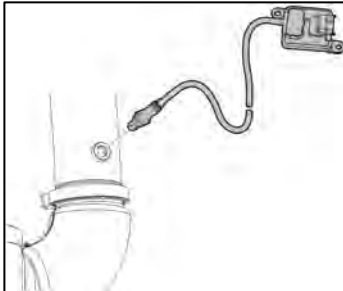
5. Disconnect the harness from the NOx control module.



6. Remove the control module mounting fasteners.



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

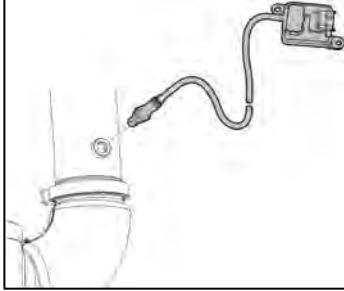


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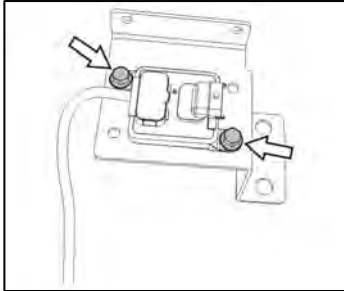
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### Installation

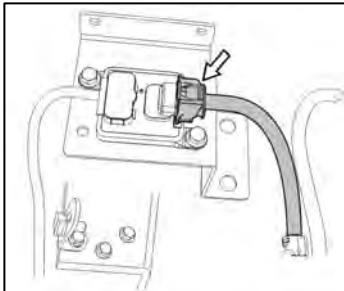
1. Install the replacement NOx sensor in the exhaust outlet pipe.



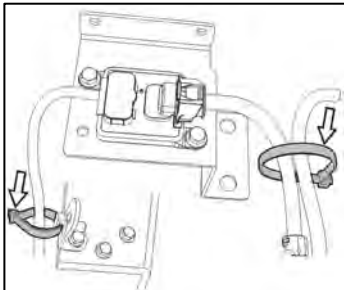
2. Install the control module mounting fasteners.



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 SCR Outlet | 0.7      |
| 2589-03-02-11 SCR Inlet  | 0.8      |
| Causal Part              | 22303390 |
|                          | 22303391 |