

<b>Technical Service Bulletin Number</b>
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TSB150153
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## Technical Service Bulletin

### Subject

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Fault Code 3314, 3317, 3319, 3146 or 4518 Caused by Aftertreatment Exhaust Gas Temperature Sensor Malfunction

### Warranty Statement

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The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

### Contents

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#### Product Affected

- ISB6.7 CM2350 B101
- ISL9 CM2350 L101
- ISX12 CM2350 X102
- ISX15 CM2350 X101

#### Issue

The malfunction of the aftertreatment selective catalytic reduction (SCR) exhaust gas temperature sensor and aftertreatment diesel particulate filter (DPF) exhaust gas temperature sensor have been observed.

- The malfunction of the aftertreatment SCR exhaust gas temperature sensor is associated with Fault Code 3146 and 4518.
- The malfunction of the aftertreatment DPF exhaust gas temperature sensor is associated with Fault Code 3314, 3317, and 3319.

The cause of the malfunction has been determined to be the inconsistent frequency between the application specific integrated circuit and the microprocessor in the aftertreatment exhaust gas temperature sensor module. A new software for the aftertreatment SCR exhaust gas temperature sensor and aftertreatment DPF exhaust gas temperature sensor has been developed to remedy the issue.

Exhaust gas temperature sensors with the updated software can **only** be identified by using the inspection criteria found below in the resolution section. See Table 1 below

**Resolution**

If the aftertreatment SCR exhaust gas temperature sensor or the aftertreatment DPF exhaust gas temperature sensor requires replacement, the new aftertreatment exhaust gas temperature sensor **must** be inspected prior to installation. See Table 1 below.

Table 1, Aftertreatment Exhaust Gas Temperature Sensor Inspection Criteria			
Part Description	Date Code On Sensor Body <sup>1</sup>	Markings <sup>2</sup>	Action
Aftertreatment Exhaust Gas Temperature Sensor	20150730 and before	No marking	Do <b>not</b> use
	20150730 and before	White half circle and a pink line on the hexagon nut	OK for use
	20150514 and before	Two white lines on side of housing	OK for use
	20150730 and before	White half circle on the hexagon nut	OK for use
	20150730 and before	White half circle with pink dot on the hexagon nut	OK for use
	20150730 and before	White dots on sensor body	OK for use
	20150731 and after	No marking or two parallel white bars on the hexagon nut	OK for use
<sup>1</sup> See Figure 1 Below. <sup>2</sup> See Figure 2 and Figure 3 Below.			



Figure 1, Date Code Location on the Aftertreatment Exhaust Gas Temperature Sensor.



Figure 2, Marking on the Hexagon Nuts.

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Figure 3, Marking on Exhaust Gas Temperature Sensor Body.

### Part Inventory Action

In stock parts are affected. See Parts Alert MDC-012-15 for details.

### Document History

Date	Details
2015-9-15	Module Created
2016-9-6	Updated Table 1. Added Figure 3.

**Last Modified: 06-Sep-2016**

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