



Technical Service Bulletin

Technical Service Bulletin: TSB150057	Released Date: 17-May-2019
Aftertreatment Outlet NOx Sensor Water Intrusion Resulting in Fault Code 1887, 3583, or 3545	

Aftertreatment Outlet NOx Sensor Water Intrusion Resulting in Fault Code 1887, 3583, or 3545

Core Issue

Water intrusion can cause the malfunction or failure of the aftertreatment outlet NOx sensor on certain aftertreatment configurations.

Confirmation

Product Affected

- ISB6.7 CM2350 B101
- ISB6.7 CM2350 B103
- ISL9 CM2350 L101
- ISL9 CM2350 L111
- ISX12 CM2350 X102
- ISX15 CM2350 X101

Configuration: This failure occurs primarily on side outlet aftertreatment Selective Catalytic Reduction (SCR) catalyst systems with vertical exhaust configurations.

Symptom: Fault Code 1887, 3583, or 3545

Resolution

If symptom has been verified, the aftertreatment outlet NOx sensor bolt-in water shield **must** be installed. See Installation Instructions 4908441, for details on how to install the aftertreatment outlet NOx sensor bolt-in water shield.

To assess if a unit already has an outlet NOx sensor bolt-in water shield installed:

- Inspect for spot welds or two bolts installed in the tailpipe near the outlet NOx sensor. See Figure 1 below.
- Verify the build of the engine serial number (ESN) is August 2015 or later. This can be done using the physical engine dataplate or QuickServe® Online dataplate.

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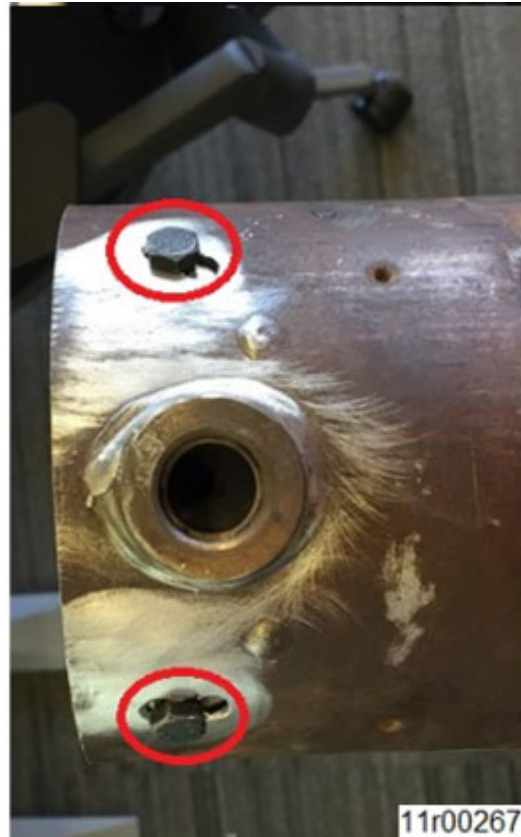


Figure 1, Two Outlet Nox Sensor Bolt-In Water Shield Bolts in the Exhaust Pipe.

Required Service Parts

See Table 1 and 2 below for required service part numbers to install the aftertreatment outlet NOx sensor bolt-in water shield.

Table 1, Required Service Parts for ISX12, ISX15		
Description	Part Number	Quantity
Drip Shield	4352880	1
Screw, Hex Flange Head Cap	4354269	2
Template	4353074	1
High Temp Sealant	5362108	1
Table 2, Required Service Parts for ISB6.7, ISL9		
Description	Part Number	Quantity

Table 2, Required Service Parts for ISB6.7, ISL9		
Description	Part Number	Quantity
Drip Shield	4353926	1
Screw, Hex Flange Head Cap	4354269	2
Template	4353074	1
High Temp Sealant	5362108	1

Cummins® High Temp Sealant, Part Number 5362108, is the **only** sealant approved to be used.

Warranty Statement

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

Document History

Date	Details
2015-4-24	Module Created
2015-6-25	Fix broken link to 4908441 Installation Instruction
2016-6-21	Added assessment section to see if a unit already has an outlet NOx sensor bolt-in water shield installed. Added Figure 1.
2019-5-9	Added "Inspect for spot welds or two bolts installed in the tailpipe near the outlet NOx sensor. See Figure 1 below."

Last Modified: 17-May-2019
