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Coding Information

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Title: N13 NOx Signal Codes Diagnostic Help

Applies To: All N13 Vehicles with SCR Aftertreatment

CHANGE LOG

2014/08/05: Launch to field

DESCRIPTION

The purpose of this article is to enhance the ability to troubleshoot the diagnostic trouble codes listed below.

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC	Description
3216-4	NOx IN Signal Out of Range LOW
3216-10	NOx IN Signal Abnormal Rate of Change
3216-13	NOx IN Out of Calibration
3216-20	NOx IN Signal Drifted HIGH
3216-21	NOx IN Signal Drifted LOW
3226-4	NOx OUT Signal Out of Range LOW
3226-10	NOx OUT Signal Abnormal Rate of Change
3226-13	NOx OUT Out of Calibration
3226-20	NOx OUT Signal Drifted HIGH
3226-21	NOx OUT Signal Drifted LOW

DIAGNOSTIC STEPS

Step	Action	Decision
1	Verify your fault code is on the list above. Is your fault code the only active fault code?	Yes: Go to step 2. No: Diagnose other active faults and retest.

Step	Action	Decision
2	Is the NOx Sensor Module connector, harness, and terminals clean and undamaged?	<p>Yes: If diagnosing 3226-20, inspect the decomposition tube for DEF crystallization. For all other NOx codes listed in the symptoms above, replace appropriate NOx sensor.</p> <p>No: Repair harness, connector, or terminal damage. When repair is complete, retest for codes.</p>

WARRANTY INFORMATION

Warranty Claim Coding:

For NOx IN Sensor (Engine Out):

Group:	18250 - DEF Controls/Sensors
Noun:	648 - Sensor, Engine Out (NOx)

For NOx OUT Sensor (Exhaust Out):

Group:	18250 - DEF Controls/Sensors
Noun:	649 - Sensor, Exhaust Out (NOx)

Standard Repair Times:

For ProStar:

Description	SRT Link	Hours
NOx IN Sensor (Engine Out) Replace	R18-1649US-20	1.8
NOx OUT Sensor (Exhaust Out) Replace	R18-1649US	1.0

OTHER RESOURCES

Link to QuickServe Online:

<https://quickserve.cummins.com/qs3/portal/index.html>

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