

Technical Service Bulletin: TSB190091 Released Date: 13-Jun-2019

Incorrect Pressure/Temperature Sensor: Fault Code 125, 222, 2191, 2973

# Incorrect Pressure/Temperature Sensor: Fault Code 125, 222, 2191, 2973

## 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.

## Contents

#### **Product Affected**

- B6.7 CM2350 B121B
- ISB6.7 CM2150 (EPA 2007)
- ISB6.7 CM2250 (EPA 2010)
- ISB6.7 CM2350 B101
- ISC CM2150
- ISC CM2250
- ISL CM2150
- ISL CM2250
- ISL CM2350 L101
- ISM CM876
- ISX11.9/12 CM2250
- ISX12 CM2350 X102
- ISX15 CM2250
- ISX15 CM2350 X101
- ISX15 CM871
- L9 CM2350 L116B
- L9 CM2350 L119B
- QSB6.7 CM2250
- QSB6.7 CM2350 B105

- QSL9 CM2250
- QSL9 CM2350 L102
- QSX15 CM2250
- QSX15 CM2350 X105
- X12 CM2350 X119B
- X15 CM2350 X114B
- X15 CM2350 X116B

#### Issue

### Symptom:

- Fault Codes 125, 222, 2191, 2973
- · Low power
- · White smoke
- Engine misfire
- Aftertreatment performance complaints

#### Root Cause:

 Incorrect pressure/temperature sensor installed in the incorrect location on the engine.

#### Verification

- Remove the pressure/temperature sensor in question and verify pressure/temperature sensor part number.
- View pressure/temperature sensor values in a key on engine off condition using INSITE® electronic service tool or equivalent, an incorrect pressure/temperature sensor can give an incorrect value.
- At key ON engine off, the barometric air pressure should read the local barometric air pressure, and the intake manifold pressure should read 0.0 in-hg.

#### Resolution

Refer to QuickServe Online parts catalog on to determine the correct sensor to use in the correct location for a given engine.

Install correct pressure/temperature sensor. See Table 1 below for part numbers.

Table 1, Sensor Part Number and Application				
Part Number	Pressure Sensing Rangemm- hg [ in-hg ]	Application	Alternate Part Numbers	

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Part Number	Pressure Sensing Rangemm- hg [ in-hg ]	Application	Alternate Part Numbers	
2897332	330 mm-hg [ 13 in- hg ] to 838 mm-hg [ 33 in-hg ]	Barometric air pressure and/or turbocharger compressor intake pressure	4921850	
2897333	330 mm-hg [ 13 in- hg ] to 1574.8 mm- hg [ 62 in-hg ]	Intake manifold pressure on 6.7L or smaller engines	4921322	
2897334	330 mm-hg [ 13 in- hg ] to 3810 mm-hg [ 150 in-hg ]	Intake manifold pressure on 8.3L or larger engines	4921324, 2872784	

#### **Part Identification**

- Pressure/temperature sensor part number is located on underside of pressure/temperature sensor body.
- Pressure/temperature sensor must be removed to verify part number. See Figure 1 for part number location. See Figure 2 for pressure/temperature sensor similarity examples.





Figure 2, Pressure/Temperature Sensor Similarity Example.

# **Document History**

Date	Details
2019-6-5	Module Created

Last Modified: 13-Jun-2019