



## SIB 12 01 15

2020-08-13

### N20 and N26 Differential Pressure Sensor Fault 195002 Stored in DME

This Service Information Bulletin (Revision 3) replaces SI B12 01 15 **dated April 2015**.

#### What's New (Specific text highlighted):

- Warranty Information was completely revised

## MODEL

F10 (5 Series Sedan)	F22 (2 Series Coupe)	F25 (X3 Sports Activity Vehicle)	F26(X4 Sports Activity Coupe)
F30 (3 Series Sedan)	F31 (3 Series Sports Wagon)	F32 (4 Series Coupe)	F33 (4 Series Convertible)
F34 (3 Series Gran Turismo)	F36 (4 Series Gran Coupe)		

Vehicles produced to 12/2014 with the N20 and N26 engines

## SITUATION

The Service Engine Soon (MIL) light is on with the following differential pressure sensor fault stored:

- 195002 - Differential pressure sensor, tank vent valve, electrical: Short circuit to ground

## CAUSE

During engine operation, vibration and movement of the sensor can damage the pin contacts of the harness connector, or cause a break in the wiring.

## CORRECTION

Perform diagnosis with the latest version of ISTA. A revised test plan for this DME fault was made available with ISTA 3.48, released in February 2015.

Install a differential pressure sensor repair harness, which is spliced in at the DME connector. It now includes a harness clip to secure it to the ventilation pipe, to prevent any future damage.

## PROCEDURE

The repair procedure is described in the attachment.

## PARTS INFORMATION

Part Number	Description	Quantity
12 51 8 645 886	Adapter repair harness	1

## WARRANTY INFORMATION

Based on the current age and mileage of the BMW models listed above and as determined by their model year, eligible vehicles equipped with the **N26 PZEV/SULEV engine** that are **registered** in the:

- State of California; or a
- State that has **fully adopted** the State of California PZEV/SULEV regulation,

This repair is covered by the terms of this California Limited Emissions Warranty for 15 years/150,000 miles, whichever occurs first.

Or, for:

The remaining vehicles, this repair covered under the terms of the BMW Certified Pre-Owned Program or any BMW Group Vehicle Service Contract that may apply to the vehicle.

Applying the above information, reimbursement for this repair will be via normal claim entry utilizing the following information together with the listed part number:

<b>Defect Code:</b>	<b>1362169900</b>	<b>Differential pressure sensor (intake manifold pressure sensor) fault stored in diagnostic memory</b>
:		
<b>Labor Operation</b>	<b>Description</b>	<b>Labor Allowance</b>
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR
And, as necessary:		
61 00 006	Performing vehicle diagnosis – test module	Work time (WT)
And:		
11 12 570	Remove and install/replace acoustic cover	Refer to AIR
And:		
61 20 900	Disconnecting and connecting battery ground lead	Refer to AIR
And:		
12 99 000	Work time to install the differential pressure sensor repair harness	2 FRU

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

Work time labor operation codes 61 00 006 and 12 99 000 are not considered Main labor operations.

As applicable to your center, please refer to **SI B01 01 20** or **B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), WT and repair-related explanation procedures.

## **QUESTIONS REGARDING THIS BULLETIN**


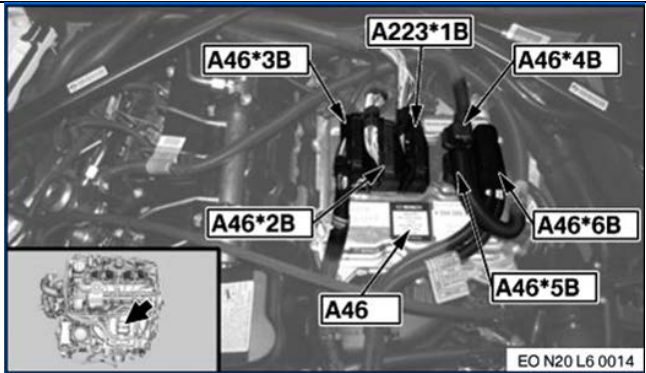
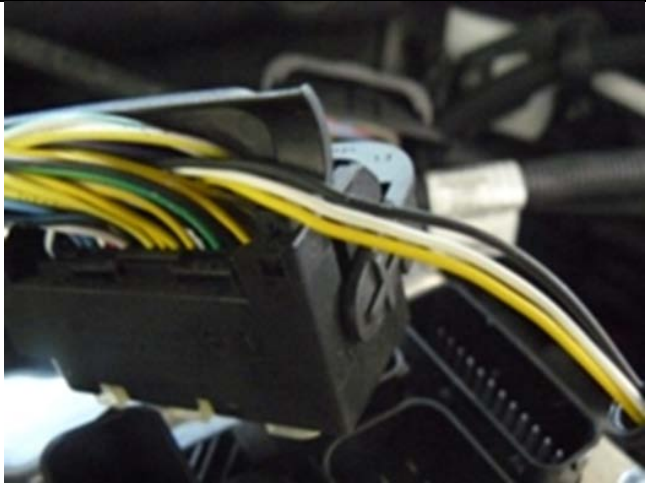
Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Parts Department

Supporting Materials

[picture\\_as\\_pdf B12 01 15 N2x\\_diff-press-sensor-harness-repair.pdf](#)

# N20 AND N26 DIFFERENTIAL PRESSURE SENSOR FAULT 195002 STORED IN DME

## N20 AND N26 DIFFERENTIAL PRESSURE SENSOR HARNESS REPAIR

	<p>Remove the engine acoustic cover to access the DME harness connectors.</p>
	<p>The repair harness will be spliced into the existing differential pressure sensor wiring on DME connector A46*2B.</p> <p>For clear access to do the repair, disconnect the other DME connectors and position them out of the way</p>
	<p>Remove the wire tie and electrical tape from the existing three-wire harness at the DME connector.</p> <p>Cut off the existing three-wire harness approximately 40 mm from the connector housing. Be careful to leave enough length for the splice and heat-shrink tubing.</p>



Splice the new harness to the existing wiring in connector A46\*2B, using the supplied splice crimp connectors and heat-shrink tubing.

Apply electrical tape over the spliced section. Secure it back to the connector housing with a small wire tie.

**Note:**  
The heat-shrink supplied in the kit can be replaced by heat-shrink with a smaller diameter.



The replacement harness is then secured to the plastic ventilation pipe with the clip.



Reconnect the DME harnesses and reinstall the engine acoustic cover.