



**NUMBER:** 25-001-13 REV. A

**GROUP:** Emissions Control

**DATE:** May 10, 2013

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 25-001-13, DATED JANUARY 29, 2013, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE ADDITIONAL MODEL YEARS, UPDATED PART NUMBERS, AND SIMPLIFIED DIAGNOSTICS.**

***SUBJECT:***

MIL Illumination Due to P2000, P2A00 and/or P2A01

***OVERVIEW:***

This bulletin involves inspecting both Oxygen (O<sub>2</sub>) sensors and either cleaning or replacing the sensors and installing an O<sub>2</sub> Sensor Heat Shield on the exhaust pipe in the area of the **FRONT** O<sub>2</sub> sensor.

***MODELS:***

2007 - 2009	(D1)	Ram Truck 3500
2010 - <b>**2011**</b>	(D2)	Ram Truck 3500
2007 - 2009	(DH)	Ram Truck 2500
2010 - <b>**2011**</b>	(DJ)	Ram Truck 2500

**NOTE: This bulletin applies to vehicles equipped with a 6.7L Cummins diesel engine (sales code ETJ) built before **\*\*August 2, 2010 (MDH0802XX)\*\***.**

***SYMPTOM/CONDITION:***

Customer may experience MIL illumination. Further investigation by the technician may find one or more of the following DTC(s) present:

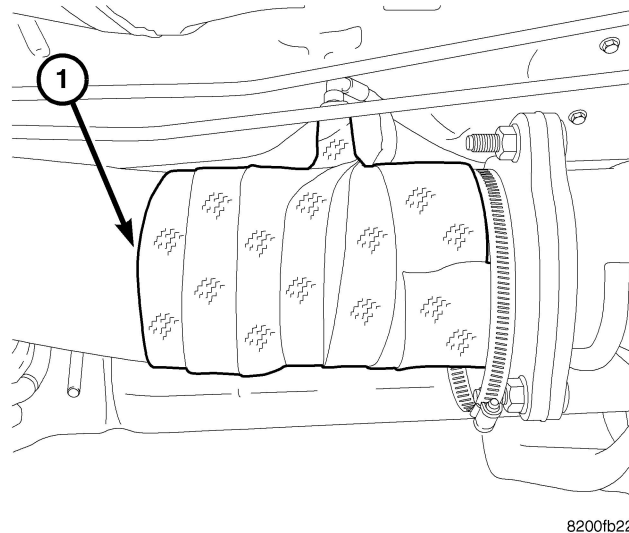
- P2000 - NOX Absorber Efficiency Below Threshold - Bank 1.
- P2A00 - O<sub>2</sub> Sensor 1/1 Circuit Performance.
- P2A01 - O<sub>2</sub> Sensor 1/2 Circuit Performance.

***DIAGNOSIS:***

1. **\*\*Complete a Diesel Diagnostic Worksheet per instructions in Service Bulletin 18-045-11 Dated October 19, 2011 and U. S. Warranty Bulletin D-11-55 Dated October, 2011. All DTC's need to be recorded on the WRO and DTC's other than the ones listed above may require additional diagnosis and repair after completing this Bulletin.**

**NOTE: O2 sensor fouling may be related to other components that can cause increase sooting. Follow the procedures provided in DealerCONNECT>TechCONNECT>Service Info>Group 28 DTC Based Diagnostics>Module, Engine control (ECM), 6.7L>Standard Procedure>PRE-DIAGNOSTIC TROUBLE SHOOTING PROCEDURE, 6.7L or DealerCONNECT>TechCONNECT>Service Info>Group 29 Non-DTC Diagnostics>Drivability - Diesel, 6.7L>Diagnosis and Testing>PRE-DIAGNOSTIC TROUBLE SHOOTING PROCEDURE, 6.7L before proceeding with this bulletin.**

2. Inspect the front O2 sensor area of the exhaust for the presence of either a wrap or blanket (Fig. 1).



**Fig. 1 O2 SENSOR WRAP**

1 - O2 SENSOR WRAP

3. Is there a wrap or blanket around the exhaust pipe in the area of the front O2 sensor?
  - a. YES>>>Proceed to the next step.
  - b. NO>>>Proceed to the Repair Procedure.
4. Was the wrap/blanket installed properly and is not damaged or torn/tattered?
  - a. YES>>>This bulletin will not address the symptom/condition. Follow the diagnostic information provided in DealerCONNECT>TechCONNECT>Service Info>Group 28 DTC Based Diagnostics>Module, Engine control (ECM), 6.7L>Standard Procedure>PRE-DIAGNOSTIC TROUBLE SHOOTING PROCEDURE, 6.7L or DealerCONNECT>TechCONNECT>Service Info>Group 29 Non-DTC Diagnostics>Drivability - Diesel, 6.7L>Diagnosis and Testing>PRE-DIAGNOSTIC TROUBLE SHOOTING PROCEDURE, 6.7L.
  - b. NO>>>Proceed to the Repair Procedure.\*\*

**PARTS REQUIRED:**

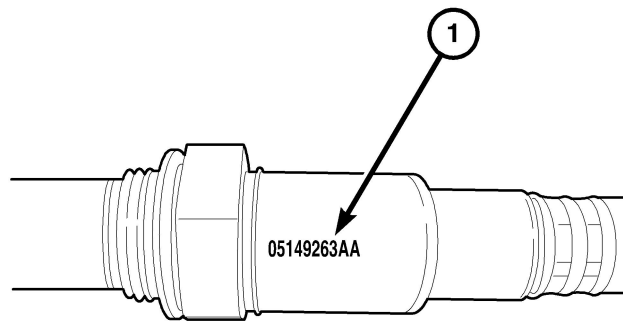
Qty.	Part No.	Description
AR (2)	05149263AA	Oxygen Sensors (Do not use earlier versions of O2 sensor when performing this repair. Ensure part number is <b>05149263AA or higher</b> level).
1	68102274AA	Kit, O2 Sensor Heat Shield
**AR (1)	52121859AD	Clamp, Band - 2010 and 2011 MY only and only until kit 68102274AB or later is available.**

**REPAIR PROCEDURE:**

1. Raise the vehicle on a hoist.
2. If the vehicle is already equipped with a wrap or blanket but this bulletin is being performed because they are damaged, remove the damaged wrap or blanket from the exhaust pipe.
3. Remove both upstream and downstream Oxygen (O2) sensors.
4. Remove the exhaust pipe. Refer to the procedures identified in DealerCONNECT>TechCONNECT>Service Info>11 - Exhaust System>PIPE, Exhaust>Removal>6.7L DIESEL for additional information.
5. Install heat shield (p/n 68102274AA). Refer to the procedures identified in the Instruction Sheet (p/n K6855747) for additional information.

**NOTE: \*\*The O2 sensor heat shield kit P/N 68102274AA contains band clamp P/N 52121859AC. 2010 and 2011 Model year trucks must use a heavier duty clamp. This clamp part number is 52121859AD. The O2 sensor heat shield kit will soon be updated to supersede from P/N 52121859AC to 52121859AD. Once the kit has been updated, it will no longer be necessary to order turbocharger band clamp 52121859AD separately. Any O2 sensor heat shield kit P/N 68102274AB and beyond will have the updated clamp.\*\***

6. Install the exhaust pipe. Refer to the procedures identified in DealerCONNECT>TechCONNECT>Service Info>11 - Exhaust System>PIPE, Exhaust>Installation>6.7L DIESEL for additional information.
7. Inspect both O2 sensors to ensure that the latest sensors are installed in the vehicle. O2 sensors that have p/n 05149263AA (or later) scribed on the sensor, (Fig. 2) are the newer style sensor. If it is difficult to read the part number, the newer style sensor can easily be identified by the soot shield design on the sensor, (Fig. 3).

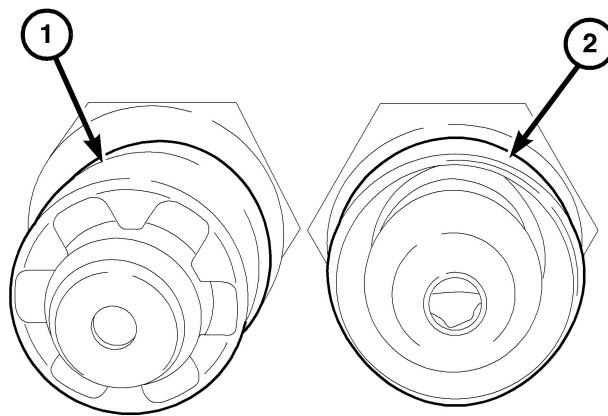


8201a085

**Fig. 2 O2 SENSOR PART NUMBER LOCATION**

1 - O2 SENSOR PART NUMBER

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**Fig. 3 O2 SENSOR OLD VERSUS NEW**

1 - EARLY STYLE SOOT SHIELD (OLD SENSOR)

2 - NEW STYLE SOOT SHIELD (NEW SENSOR)

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- 8. If the oxygen sensor is not scribed with p/n 05149263AA or newer or if the soot shield appears as the older style soot shield (as seen in (Fig. 3)), replace the oxygen sensors with p/n 05149263AA. If the oxygen sensors are to be reused, clean the O2 sensor using shop air only. **Do not use any solvents or cleaners when cleaning the O2 sensor.** Torque to 41 N•m (30 ft. lbs). Connect wiring to both of the Oxygen (O2) sensors.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
25-01-70-90	Shield, O2 Sensor - Install and Either Clean and/or Replace O2 Sensors (2 - Skilled)	1.7 Hrs.
<b>Optional Procedure</b>		
25-01-70-94	Remove O2 Sensor Wrap and Clean Exhaust Pipe (2 - Skilled)	0.2 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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