

NUMBER: 25-001-13

GROUP: Emissions Control

DATE: January 25, 2013

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 25-001-09 DATED OCTOBER 20, 2009, WHICH SHOULD BE REMOVED FROM YOUR FILES. THIS BULLETIN IS A COMPLETE REVISION.

SUBJECT:

MIL Illumination Due to P2000, P2A00 and/or P2A01

OVERVIEW:

This bulletin involves verifying all service bulletins related to high sooting issues have been properly addressed, inspecting both Oxygen (O₂) sensors and either cleaning the sensors or replacing sensors, and installing an O₂ Sensor Shield on the exhaust pipe in the area of the **FRONT** O₂ sensor.

MODELS:

2007 - 2009	(D1)	Ram Truck 3500
2010	(D2)	Ram Truck 3500
2007 - 2009	(DH)	Ram Truck 2500
2010	(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, 2009 (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 - O₂ Sensor 1/1 Circuit Performance.
- P2A01 - O₂ Sensor 1/2 Circuit Performance.

DIAGNOSIS:

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.

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.

NOTE: If the vehicle is equipped with an O2 sensor wrap, verify proper O2 sensor wrap installation, (**Fig. 1**). If the O2 sensor wrap has been installed properly and is not damaged or if the vehicle is equipped with an O2 sensor blanket and is not damaged, 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.

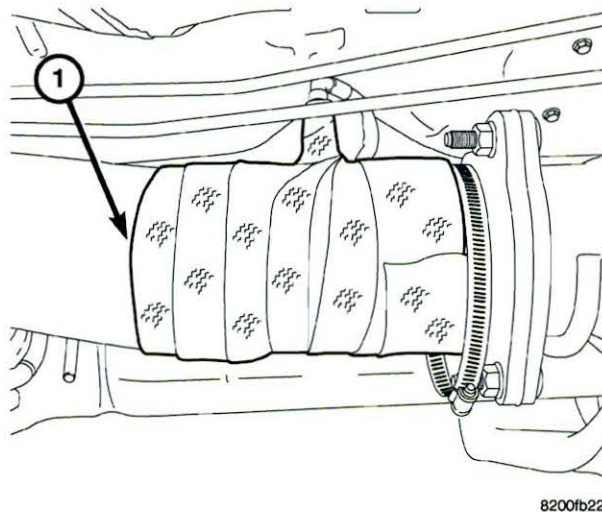


Fig. 1 PROPER WRAP INSTALLATION

1 - O2 SENSOR WRAP

- On 2007 - 2009 Model Year vehicles, verify that Recall J35 has been completed.

NOTE: New EVIC messages were made available with some CCN updates. ECM (PCM) software commands when and what the CCN will display on the EVIC regarding engine system and exhaust aftertreatment system messages. The ECM and CCN software must be up to date (correct software level) in order for the new EVIC messages to display as designed.

- **IF** making a Diesel Particulate Filter (DPF) and/or turbocharger repair(s) in conjunction with this service bulletin, ensure EGR system, Turbo, Intake, Charge Air Cooler, and other sensors are inspected for proper operation. Vehicles that have excess soot build up should have the source of the soot build up diagnosed and

- repaired prior to proceeding with this bulletin.
- Verify proper maintenance has been performed, including verifying the condition and brand of the fuel and air filter (Mopar recommended).
- Check Crankcase Ventilation (CCV) system for restriction which may cause oil infiltration into turbo and intake system.

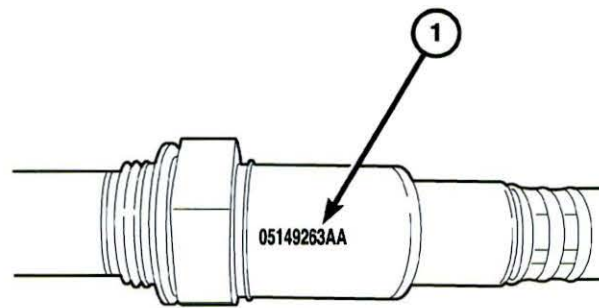
If any of the DTC's listed in the SYMPTOM/CONDITION are present and the conditions listed above have been met, perform the REPAIR PROCEDURE.

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 05149263AA or higher level).
1	68102274AA	Kit, O2 Sensor Heat Shield

REPAIR PROCEDURE:

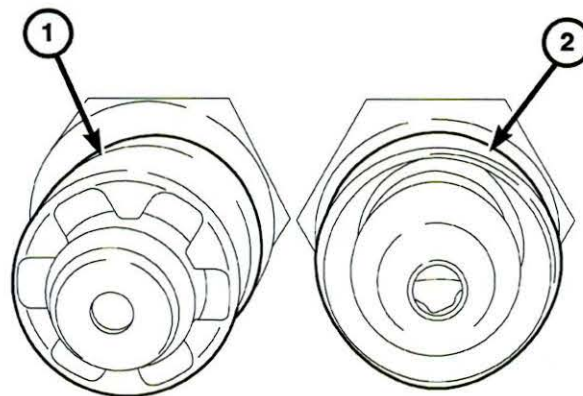
1. Raise the vehicle on a hoist.
2. If the vehicle is already equipped with a wrap or blanket but this bulletin is being performed because they are damaged, remove the damaged wrap or blanket from the exhaust pipe.
3. Remove both upstream and downstream Oxygen (O2) sensors.
4. Remove the exhaust pipe. 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.
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



8201a084

Fig. 3 O2 SENSOR OLD VERSUS NEW

1 - EARLY STYLE SOOT SHIELD (OLD SENSOR)

2 - NEW STYLE SOOT SHIELD (NEW SENSOR)

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.
Optional Procedure		
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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