



NUMBER: 18-035-08

GROUP: Vehicle Performance

DATE: September 13, 2008

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SUBJECT:

MIL Illumination Due to P2000, P2A00 and/or P2A01

OVERVIEW:

This bulletin involves verifying all TSB's related to high sooting issues have been properly addressed, replacing both Oxygen (O2) Sensors, and wrapping the exhaust pipe in the area of the **FRONT** O2 sensor.

This bulletin also involves verifying that the Documentation Kit has been installed in the vehicle and the customer has been informed of its contents.

MODELS:

2007 - 2008 (DH/D1) Ram Truck 2500/3500

NOTE: This bulletin applies to vehicles equipped with a 6.7L Cummins diesel engine (sales code ETJ).

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:

If DTC's **other than those listed above** are present record them on the repair order and repair as necessary before proceeding further with this bulletin. Refer to TSB's related to turbocharger and DPF repairs (11-002-07, 11-001-08, 11-002-08 and 18-013-08) if needed.



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NOTE: ECM (PCM) software commands when and what the CCN will display on the EVIC regarding the new engine system and exhaust aftertreatment system messages. The ECM software must be up to date (correct software level) in order for the new EVIC messages to display as designed and to address the symptoms and conditions above.

- Verify software level in ECM and CCN is at the latest software level available in DealerCONNECT.
- Verify DTC's other than those listed in the SYMPTOM/CONDITION should be addressed with the appropriate TSB or Service Procedures available in DealerCONNECT.
- **IF** making a Diesel Particulate Filter (DPF) or turbocharger repair in conjunction with this TSB, ensure EGR system, Turbo, Intake, Charge Air Cooler, and other sensors are inspected and cleaned as described in these TSB's. Systems should be cleaned to "Like New" condition. 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: fuel and air filter brand (Mopar recommended) and condition.
- Check Crankcase Ventilation (CCV) system for restriction which may cause oil infiltration into turbo and intake system.
- Some vehicles may only have a part of the Documentation Kit (i.e. Diesel Owners Manual Supplement). Make sure the vehicle/customer has received a complete Documentation Kit.

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
2	05149263AA	Oxygen Sensors (Do not use earlier versions of O2 sensor when performing this repair. Ensure part number is 05149263AA or higher level).
12.5' (3.8 m)	11002 Thermo Tec (or equivalent)	Exhaust Insulating Wrap - Rated for 2000° F (1093° C) 2" X 50' - (1 roll will service 4 vehicles)
2	NPN	5" Diameter Stainless Steel Band Clamp
1(AR)	68049170AA	Documentation Kit (includes: Diesel Owners Manual Supplement, Sun Visor Label, and Informational DVD/CD Kit) - Kit is zero cost

REPAIR PROCEDURE:

1. Remove and replace both Oxygen Sensors with p/n 05149263AA. Torque to 41 N•m (30 ft. lbs). Connect wiring to both of the Oxygen (O2) sensors.

NOTE: Do not use earlier versions of O2 sensor when performing this repair. Ensure part number is 05149263AA or higher level.

2. Using scissors or a utility knife, cut exhaust wrap to a length of 12.5' (3.8 m).

3. Locate the Diesel Oxidation Catalyst (DOC) downpipe to NOx Absorber Catalyst (NAC) flange. Measure and mark a line at a distance of 7" (18 cm) in front of this flange ([Fig. 1](#)).

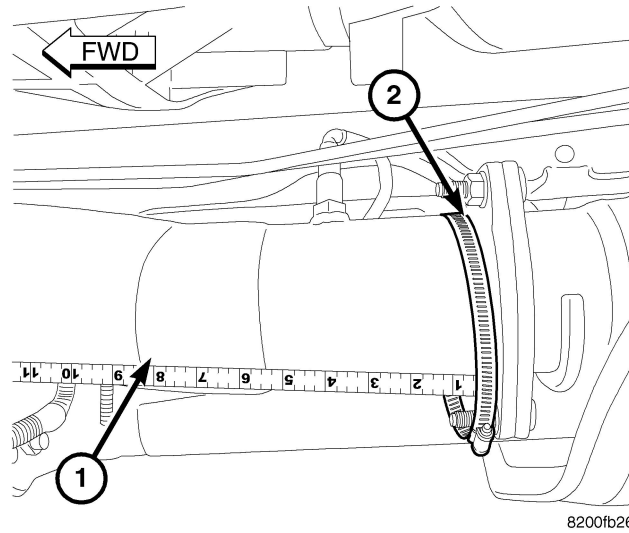


Fig. 1 MEASURE 7" FORWARD FROM FLANGE

- 1 - MARK 7" (17.75 cm) IN FRONT OF DOC-TO-NAC FLANGE
 - 2 - REAR BAND CLAMP LOOSELY INSTALLED
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4. Loosely install band clamps;
 - a. One in front of O2 sensor.
 - b. One between DOC-to-NAC flange and O2 sensor.

NOTE: Do not wrap or cover wiring for oxygen sensor or temperature sensor with insulation.

5. Starting about 1" (25 mm) in front of the (DOC)-to-(NAC) flange and using full overlap, wrap insulation once around the exhaust pipe ([Fig. 2](#)).

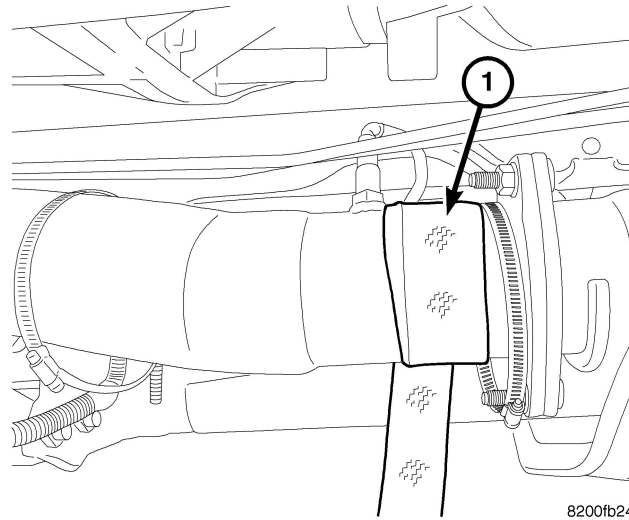


Fig. 2 FIRST WRAP IN FRONT OF FLANGE

1 - START 1" (25 mm) FROM FLANGE

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6. Wrap pipe in an upstream direction (toward O2 sensor) using a 1" (25 mm) over lap. Wrap to the O2 sensor. Wrap the body of the O2 sensor two times.
 7. Then continue wrapping the exhaust pipe in an upstream direction to the 7" (17.75 cm) mark established in [Step #3](#).
 8. Now continue the exhaust pipe wrap in a downstream direction and slalom around sensor. This time, do not wrap the insulation around the body of the O2 sensor. Continue to the wrap until you reach the (DOC)-to-(NAC) flange ([Fig. 3](#)).

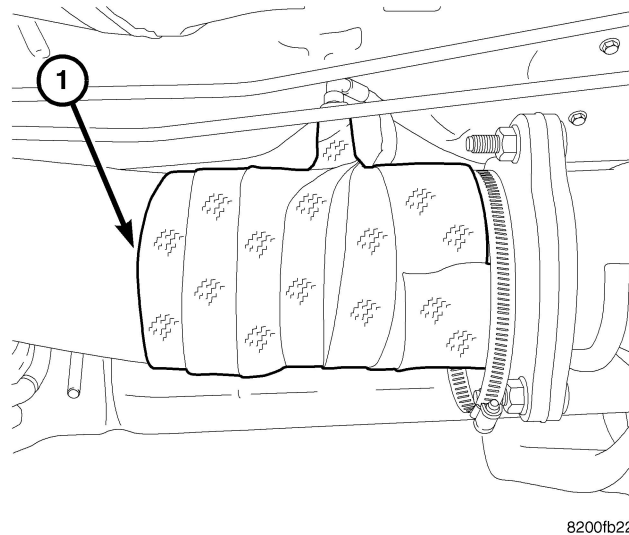


Fig. 3 WRAP COMPLETED

1 - WRAPPED FORWARD 7" (17.75 cm) FROM FLANGE AND BACK TO FLANGE

- 9. Slide a band clamp over each end of the wrap.
- 10. Tighten both clamps. One at front of wrap and one at rear of wrap.
- 11. If a complete Documentation Kit has not been installed on the vehicle, install the Documentation Kit now. (Kit is zero cost).
 - a. Place the new **Diesel Owners Manual Supplement** in the vehicle Glove Box.
 - b. Place the **Informational DVD** in the vehicle Glove Box.
 - c. Place the **Informational CD** in the vehicle's CD player, (if equipped).
 - d. Install the new **Sun Visor Label** on the left (driver) side sun visor. The label should be centered on the sun visor and to the left of the seat belt warnings. Verify that the label is firmly attached to the sun visor material.
 - e. Dealer personnel should inform the customer the Documentation Kit has been installed on the vehicle and advise the customer to familiarize themselves with this information.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
25-01-70-92	Oxygen Sensors (Both) - Replace, and Wrap Exhaust at Front Sensor and Install Documentation Kit (B)	0.5 Hrs.

FAILURE CODE:

ZZ	Service Action
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