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GROUP: Electrical

DATE: June 30, 2005

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SUBJECT:

MIL Illumination, DTC's P0037, P0058, P0131, P0132, P0133, P0138, P0151, P0153, P0159

OVERVIEW:

This bulletin involves repositioning the upstream Oxygen (O₂) sensor connectors and replacing the wiring harness connector(s) and O₂ sensor(s) as necessary.

MODELS:

2005 - 2006 (LX) 300/Magnum/Charger

NOTE: This bulletin applies to vehicles equipped with a 2.7L, 3.5L or 5.7L engine (sales code EER, EGG or EZB).

SYMPTOM/CONDITION:

MIL Illumination due to one or more of the following DTC's:

- P0037-O₂ SENSOR 1/2 HEATER CIRCUIT LOW
- P0058-O₂ SENSOR 2/2 HEATER CIRCUIT HIGH
- P0131-O₂ SENSOR 1/1 CIRCUIT LOW
- P0132-O₂ SENSOR 1/1 CIRCUIT HIGH
- P0133-O₂ SENSOR 1/1 SLOW RESPONSE
- P0138-O₂ SENSOR 1/2 CIRCUIT HIGH
- P0151-O₂ SENSOR 2/1 CIRCUIT LOW
- P0153-O₂ SENSOR 2/1 SLOW RESPONSE
- P0159-O₂ SENSOR 2/2 SLOW RESPONSE

The condition may be due to the cowl drain flowing water onto the connectors for the O₂ sensor(s) at the center rear area of the engine. This leads to water intrusion into the wiring harness connector(s) which may lead to terminal corrosion and/or MIL illumination.

DIAGNOSIS:

NOTE: If the vehicle is equipped with a 5.7L engine (sales code EZB) and was built on or before August 18, 2004 (MDH 0818XX), perform Service Bulletin 18-031-04 REV A as necessary before continuing with diagnosis. For 2.7L and 3.5L engines continue with the diagnosis.

1. Open the hood

2. Disconnect the O2 Sensor connectors and check for water intrusion and/or corrosion in both upstream O2 sensor connectors at the center rear area of the engine.
 - a. If no water or corrosion is present, reposition the wiring harness connectors to the outboard edge of the valve cover away from the center of the engine. Tie strap the harnesses in place. If no water or corrosion was present, further diagnosis is required. This bulletin does not apply.
 - b. If water is present but no corrosion, blow out the connector(s) and reposition the wiring harness to the outboard edge of the valve cover away from the center of the engine. Tie strap the harness in place.
 - c. If corrosion is present, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
AR (2)	05161925AA	Wiring, 4 way
AR (2)	56029049AA	Sensor, Oxygen (2.7 & 3.5L engines)
AR(2)	56028994AB	Sensor, Oxygen (5.7L engine)

SPECIAL TOOLS/EQUIPMENT REQUIRED:

05019912AA	Mopar Wire Crimping Tool (or equivalent)
NPN	Oxygen Sensor Socket (Snap-On YA8875 or equivalent)

REPAIR PROCEDURE:

2.7L and 3.5L Engines Replace O2 Sensor and Wiring Harness Connector

1. Remove the appropriate O2 sensor. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 14 - Fuel System, Fuel Injection, O2 Sensor, Removal.

NOTE: It may be necessary to disconnect the purge vacuum harness to gain better access to the harness connectors.

2. Replace the wiring harness connector, using kit p/n 05161925AA. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 8 - Electrical, Wiring Diagram Information, Wire, Standard Procedures, Wire Splicing.
3. Install the new O2 sensor using the appropriate part number. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 14 - Fuel System, Fuel Injection, O2 Sensor, Installation.
4. Reposition the wiring harness connectors to the outboard edge of the valve cover away from the center of the engine. Tie strap the harnesses in place.

5.7L Engine Replace O2 Sensor and Wiring Harness Connector

1. Release Fuel Pressure. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 14 - Fuel System, Fuel Delivery, Standard Procedure - Fuel Pressure Release.

WARNING: THE FUEL SYSTEM IS UNDER CONSTANT PRESSURE EVEN WITH ENGINE OFF. BEFORE SERVICING FUEL RAIL, FUEL SYSTEM PRESSURE MUST BE RELEASED.

2. Disconnect the negative battery cable.

3. Remove the intake manifold. Refer to the detailed removal procedures available in TechCONNECT, under: Engine, Manifolds, Manifold - Intake, Removal.
4. Remove the 3 engine harness retaining clips from the engine harness bracket.
5. Disconnect and remove the appropriate O2 sensor. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 14 - Fuel System, Fuel Injection, O2 Sensor, Removal.
6. Pull the lower harness up to access the O2 harness connectors.
7. Replace the wiring harness connector, using kit p/n 05161925AA. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 8 - Electrical, Wiring Diagram Information, Wire, Standard Procedures, Wire Splicing.
8. Install the new O2 sensor using the appropriate part number. Refer to the detailed removal procedures available in TechCONNECT, under: Service Info, 14 - Fuel System, Fuel Injection, O2 Sensor, Installation.
9. Reposition the wiring harness connectors to the outboard edge of the valve cover away from the center of the engine. Tie strap the harnesses in place.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
08-90-98-90	Inspect and Reposition O2 Harnesses 2.7, 3.5, 5.7L Engines	0.2 Hrs.
08-90-98-91	Inspect and Reposition O2 Harnesses, Repair One Harness, and Replace One Upstream O2 Sensor 2.7, And 3.5L Engines	0.8 Hrs.
08-90-98-92	Inspect and Reposition O2 Harnesses, Repair One Harness, and Replace One Upstream O2 Sensor 5.7 Engine	1.2 Hrs.
08-90-98-93	Inspect and Reposition O2 Harnesses, Repair Both Harnesses, and Replace Both Upstream O2 Sensors 2.7, And 3.5L Engines	1.2 Hrs.
08-90-98-94	Inspect and Reposition O2 Harnesses, Repair Both Harnesses, and Replace Both Upstream O2 Sensors 5.7 Engine	1.5 Hrs.

FAILURE CODE:

3T	Terminal(s) Corroded
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