



NUMBER: 18-003-11

GROUP: Vehicle Performance

DATE: January 12, 2011

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SUBJECT:

Setting Readiness - On Board Diagnostic (OBD) Test OR Inspection And Maintenance Check Will Not Pass

OVERVIEW:

Some vehicles may have difficulty passing an On Board Diagnostic (OBD) system inspection because too many OBD monitors report as not ready, including Comprehensive Component Monitor (CCM) readiness. The Engine Control Module (ECM) may be incapable of setting readiness for CCM without installation of a calibration update, and this inability could contribute to significantly delaying or precluding adequate readiness for an OBD system inspection. Refer to SB 18-030-10 on how to remedy incorrect CCM readiness setting on affected vehicles.

Chrysler LLC has extended the warranty on all affected vehicles to offer reprogramming of the ECM to fix this issue free of charge to the vehicle owner without limitations on age or mileage. With the update, CCM readiness will be set to "Ready" upon engine starting, as permitted by California and federal OBD requirements. Vehicle owners that have paid to have the ECM updated to fix the issue in question may submit their receipts and other relevant documentation to Chrysler for reimbursement.

MODELS:

2004	DR	Ram Truck (2500/3500 Pick Up)
2005	DH	Ram Truck (2500/3500 Pick Up)

NOTE: This bulletin applies to 2004 & 2005 vehicles equipped with a 5.9L Cummins Diesel Engine (sales code ETH) with California emissions (sales code NAE) built after December 7, 2003.

NOTE: 2004 and 2005 EPA/Federal certified vehicles from the models above were not required to have OBD systems. This bulletin does not apply to such vehicles because they should not be subject to an OBD inspection.

DISCUSSION:

OBD Monitor Information

Detailed information regarding the OBD readiness indicators on affected vehicle is provided below to aid in the setting of readiness when necessary.

The affected vehicles from model year 2004.5 and 2005 have three OBD monitors:



Comprehensive Component Monitor (CCM), Fuel System Monitor, and Misfire Monitor. For CCM and Fuel System Monitor, note that the behavior varies by calibration level, which is discussed below.

For vehicles updated to the calibrations listed below (or later), the Comprehensive Component Monitor and Fuel System Monitor will report as “Ready” immediately after the ignition is turned on.

Vehicles with the following calibration level software (or later version) will **NOT** require the processes below;

MY2004.5 CARB Automatic - 20325233AM

MY2004.5 CARB Manual - 20325231AM

MY2005 CARB Automatic - 25325333AH

MY2005 CARB Manual - 25325331AH

NOTE: The preferred repair for affected vehicles is updating the ECM per TSB 18-030-10. It is not necessary to follow the procedures below to run the monitors after updating the ECM.

Fuel System Monitor

For calibrations prior to the level listed above, the following conditions must be met:

- Fuel level greater than 25 percent.
- PTO or idle-up not engaged.
- Battery voltage must be between 11 and 16 volts.

To run monitor:

- Allow the vehicle to sit a minimum of 8.5 hours with the ignition OFF.
- Turn key to ON position, do not start.
- Wait a minimum of 15 seconds.
- Start vehicle and idle or drive until coolant temperature exceeds 100° F (38° C).
- Continue to idle or drive vehicle for a minimum of 10 minutes after coolant temp exceeds 100 F (38° C).

Comprehensive Component Monitor

For calibrations prior to those listed above, Comprehensive Component Monitor may not report as “Ready”.

In such cases, no sequence of driving events can cause the monitor status to change from “Not Ready” to “Ready”. The monitor can only be made to indicate “Ready” by updating the ECM per service bulletin 18-030-10.

Misfire Monitor

These conditions must be met for all calibrations:

- Fuel level greater than 25 percent.
- PTO / idle-up not engaged.
- Battery voltage must be between 11 and 16 volts.
- Coolant temperature must be over 160° F (71° C).

To Run Monitor:

- Allow the engine to idle for a minimum of 25 seconds.

- Vehicle must be stationary / not moving (Vehicle speed < 2 MPH).
- Do not depress accelerator pedal (Accelerator Pedal Position 0 percent).

POLICY:

Information Only