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GROUP: Emissions Control

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 25-002-11, DATED DECEMBER 06, 2011, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE REVISED NOTE ABOUT UPDATED SCAN TOOL INFORMATION AND VERBIAGE WITHIN THE STEPS.**

****THE wiTECH SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.****

SUBJECT:

On Board Diagnosis (OBD) Monitor Readiness

MODELS:

2010 - 2012	(DJ)	Ram Truck (2500 Pick Up)
2010 - 2012	(D2)	Ram Truck (3500 Pick Up)

NOTE: This bulletin applies to DJ/D2 vehicles equipped with a 6.7L Cummins engine (sales code ETJ).

DISCUSSION:

Vehicles that fail to pass a state mandated emissions inspection may have certain OBD readiness monitors that have **NOT** completely run. **Anytime an ECM/PCM has been replaced or flashed, the OBD readiness monitors may need to run again to complete the monitoring process.** This bulletin describes the necessary steps required to run each monitor.

Customers may be required to drive the vehicle for an extended period of time in a variety of driving styles to allow all of the OBD Monitors to run.

NOTE: **The names in brackets are the names that can be found on the wiTECH under PCM Misc Function Menu CARB Readiness Status.**

1). Misfire Monitor [Misfire **Monitor];****The following conditions must be met:**

- Fuel level greater than 25 percent.
- Battery voltage must be between 11 and 16 volts.
- PTO or idle-up not engaged.
- Final Aftertreatment Operating Mode is Normal.
- Coolant temperature must be over 140°F (60°C).

To run the monitor:

- Allow the engine to idle for a minimum of 2 minutes.
- Vehicle must be stationary and/or not moving (Vehicle Speed = 0 MPH).
- Do not depress accelerator pedal (Accelerator Pedal Position = 0 %).

2). Fuel System Monitor [Fuel System Monitor**];****The following conditions must be met:**

- Fuel level greater than 25 percent.
- Battery voltage must be between 11 and 16 volts.
- PTO or idle-up not engaged.
- Final Aftertreatment Operating Mode is Normal.
- Coolant temperature must be over 140°F (60°C).
- Grid heater is off.

To run the monitor:

- Let the vehicle idle for a minimum of 2 minutes with the above conditions met.
- Drive the vehicle at highway speeds. Perform a zero fueling event (Decelerate condition for 10 seconds, with foot off of accelerator pedal). Repeat 10-15 times.

3). Boost System Monitor [Boost Pressure System Monitor**];****The following conditions must be met:**

- Engine must be running for 10 minutes.
- VGT Compressor Inlet Air Temp must be below 122°F (50°C).
- Mass Airflow must be above 2 kg/min.
- Ambient Air Temperature must be above 20°F (-7°C).
- Final Aftertreatment Operating Mode is Normal.
- Coolant temperature must be over 140°F (60°C).

To run the monitor:

- Drive the vehicle on the highway. Perform a boost event (sudden depression of the accelerator pedal to provide turbocharger boost to the system). Repeat 15-20 times.

4). EGR System Monitor [EGR **and/or VVT System Monitor];****The following conditions must be met:**

- Coolant temperature must be over 140°F (60°C).
- Final Aftertreatment Operating Mode is Normal.

To run the monitor:

- Drive the vehicle on the highway for 20-25 minutes.

5). Exhaust Gas Sensor (EGS) Monitor [Exhaust Gas Sensor Monitor**];****The following conditions must be met:**

- Engine must be running for 2 minutes.
- Coolant temperature must be over 180°F (80°C) for more than 1 minute.
- Final Aftertreatment Operating Mode is Normal.

To run the monitor:

- Drive the vehicle on the highway with the Final Aftertreatment Operating Mode in Normal Mode. Perform a zero fueling event (Decelerate condition for 10 seconds, with foot off of accelerator pedal). When accelerating gradually depress the accelerator pedal (Do not depress the accelerator pedal suddenly). Repeat 15-20 times.
- At the end of the drive at the dealership. Ensure the Exhaust Gas Temperature Sensor 2 is above 365°F (180°C). While the vehicle is in Park with the Parking Brake engaged, increase the engine speed to 1200-1300 RPMs for 2-3 minutes. Repeat this 2-4 times.

NOTE: If the Exhaust Gas Sensor Monitor does not go to ready, key off the vehicle and allow for a 10 minute power down of the PCM before repeating the above directions.

6). NMHC System Monitor [NMHC Catalyst Monitor**];****The following conditions must be met:**

- Coolant temperature must be over 140°F (60°C).
- Final Aftertreatment Operating Mode is DeSoot.

To run the monitor:

- Drive the vehicle on the highway for 12-15 minutes at steady state. After the 12-15 minutes of highway driving, exit the highway and proceed to a parking lot. Once in the parking lot come to a complete stop for 5 minutes. Repeat this if the truck is still in DeSoot.

7). Particulate Matter (PM) Filter System Monitor [PM Filter Monitor**];****The following conditions must be met:**

- Exhaust Gas Temp Sensor 2 reading is above 302°F (150°C).
- Inlet Air Pressure reading at idle is above 75 kPa (11 psi).
- Soot Filter Delta Pressure reading is below 200 kPa (29 psi).
- Coolant temperature must be over 140°F (60°C).

To run the monitor:

- This monitor requires a minimum of two DeSoots to complete the diagnostics.
- Drive the vehicle on the highway until the truck goes into DeSoot and continue to drive on the highway for 45 minutes. The truck will then need to complete a second DeSoot. Once the Second DeSoot completes, drive the truck for 15 minutes. The DeSoots do not need to be completed in the same drive cycle.

NOTE: City driving or a stop and go driving style generally produces more soot and will enable the truck to achieve soot levels in the DPF that require a DeSoot the quickest.

8). NOx Aftertreatment System Monitor [**NOx/SCR Aftertreatment Monitor****];**

The following conditions must be met:

- Exhaust Gas Temp Sensor 3 reading is above 302°F (150°C).
- Coolant temperature must be over 140°F (60°C).

To run the monitor:

- The vehicle will need to be driven on the highway until a DeSoot has been completed. Immediately following the DeSoot, the vehicle will go through some DeNox and DeSox events (~5 minutes). Once these are complete continue to drive on the highway at a steady speed until 10-15 DeNox events occur.

9). Comprehensive Component Monitor (CCM) [Comprehensive Component **Monitor****];**

To run the monitor:

- This monitor runs almost immediately at engine start. If it does not run, completely power down and restart the engine.

POLICY:

Information Only

NOTE: **When all repairs are completed, the Mileage Out is noted and the RO is returned to dispatch/Service Advisor.**