



**NUMBER:** 25-005-15

**GROUP:** Emissions Control

**DATE:** October 23, 2015

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 25-003-11, 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:***

2011 - 2012	(DD)	Ram Truck (3500 Cab Chassis)
2011 - 2012	(DP)	Ram Truck (4500/5500 Cab Chassis)

**NOTE: This bulletin applies to DD/DP 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.
- PTO not engaged.
- 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).
- EGR Flow reading is above 0.75 kg/min.
- PTO not engaged.

- 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:**

- PTO not engaged.
- Coolant temperature must be over 180°F (80°C) for more than 1 minute.

**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.
- The vehicle will then need to complete four DeSoots. These DeSoots do not need to be completed in one drive cycle.

**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.
- PTO not engaged.

**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).
- PTO not engaged.

**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:**

- Inlet Air Pressure reading is above 80 kPa (11 psi) and below 160 kPa (23 psi).
- Intake Air Temperature Degrees is above 21°F (-6°C).
- A minimum of 1 gallon of Diesel Exhaust Fluid (DEF) has been added to the tank.
- Coolant temperature must be over 140°F (60°C).
- PTO not engaged.
- Final Aftertreatment Operating Mode is Normal.

**To run the monitor:**

- Drive the vehicle (preferably on the highway to allow for a nonstop drive cycle) keeping the engine RPMs between 2000 - 2250 RPMs.

**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.\*\***