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Case Number: S2025000003

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Symptom/Vehicle Issue:

Persistent or Repeating P013A and / or P014C DTC

Diagnosis:

Vehicles that repeatedly exhibit P013A and/or P014C faults may be the result of a “Package and Delivery” type driving cycle. Customers that do not drive on the road in a manner to create enough heat in the exhaust for a long enough period of time are more susceptible to these conditions. The vehicle may generate more soot in the Aftertreatment System and may be unable to remove excess accumulated soot due to these driving conditions.

NOTE: Ensure that all applicable TSB’s and proper diagnostics are performed first to ensure the engine is not producing excess soot.

NOTE: To ensure proper repair, the wiring repair outlined in Service Bulletin 25-002-14 (Oxygen Sensor Wiring Repairs) MUST be performed exactly as directed.

Ensure PCM is flashed to the latest calibration.

Before replacing any O2 sensor components, you must ensure that the vehicle is not creating excessive soot. Some contributors to excess soot accumulation (but not limited to) include;

- Improper maintenance and/or poor fuel quality which can lead to fuel contamination.
- EGR malfunctions.
- Turbocharger malfunction.
- Charge Air Cooler or other air inductions system leak(s).
- Improper oil (Low Ash required) or overfilling crankcase when serviced due to improper draining procedure. Allow oil to drain for a minimum of 30 minutes and ensure engine is warm, at least 140°F (60°C).

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Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found

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If all the above has been checked and validated, perform Repair Procedure.

Parts Required:

- 2 05149263AA Sensor, Oxygen
- 1 68055582AG Module, Oxygen Sensor

Repair Procedure:

Replacing the Oxygen Sensor Module will help clean Sensors sooted by P&D type drive cycles.

1. Replace both Oxygen Sensors. Refer to DealerCONNECT > TechCONNECT > 14 – Fuel System > Fuel Injection, 6.7L Diesel > SENSOR, Oxygen > Removal/Installation.
2. Replace Oxygen Sensor Module. Refer to DealerCONNECT > TechCONNECT > 08 – Electrical > 8E – Electronic Control Modules > MODULE, Oxygen Sensor, 6.7L Diesel > Removal/Installation.
3. Perform Verification procedure below.

Verification:

Verification will ensure Oxygen Sensors are properly “relearned” and functioning as desired.

1. Connect WiTECH to vehicle if not already connected.
2. Operate the vehicle until warm and then drive the vehicle at 50 MPH. Perform a zero fueling event (deceleration condition for 10 seconds, with foot off of accelerator pedal). Repeat 3-5 times.
3. Monitor Oxygen Sensor percent in WiTECH, Data Display; percent should not vary more than 4.0% from each other during any of the drive events. Variance of greater than 4% will result in future MIL illumination.

Further diagnosis will be required if variance is exceeded. Refer to TechCONNECT for DTC(s) set during verification

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