



This Service Information bulletin supersedes SI M12 02 12 **dated April 2013**.

NEW designates changes to this revision

SUBJECT

N16 and N18 Engine: Engine Ventilation Heating Faults Stored in DME Fault Memory After Programming

MODEL

R55

R56

R57

R58

R59

R60

NEW Produced from March 1, 2011 to December 1, 2011

SITUATION

After reprogramming the vehicle to integration level R056-11-11-503 (ISTA/P P45.1.3.0) or higher, one of the following fault codes are stored in the DME fault memory:

Vehicles with N16 engine:

- 2F42 Engine ventilation heating, Control

The Service Engine Soon lamp is not illuminated.

Vehicles with N18 engine:

- 37DE Engine ventilation, heating, triggering: open circuit

The Service Engine Soon lamp is illuminated.

NEW CAUSE

Due to a DME software change, the diagnostic monitoring capability is improved for the engine ventilation heating system. However, a fault will be stored in the fault memory because the engine ventilation heater circuit has a malfunction currently present. One of the following may be the cause:

- Loose or defective electrical connection
- Missing or defective crankcase ventilation heater relay

NEW PROCEDURE

1. Follow the applicable test plan for the fault stored. If the test plan is inconclusive, manually verify the integrity of the circuit using the wiring schematic and its component locations in ISTA/D. The total circuit resistance when connected properly is approximately 12.5-15.5Ω.
2. If an electrical connection is found loose then correct the connection and retest the system.
3. Check the installation location of crankcase ventilation relay P/N 61 36 8 373 700. This relay may be missing or installed in the wrong location. Verify the proper relay location using the ISTA/D component locations and install it in the correct location.
4. After correcting connections, installing or replacing components verify that faults no longer exist in DME fault memory by performing a vehicle test.

Use the following path to view the engine ventilation heating circuit schematic:

1. Function Structure
2. 01 Drive
3. MEV Engine Electronics
4. Engine oil
5. Engine-venting Heating
6. Start Search
7. Select (SSP) Engine Oil Supply

NEW WARRANTY INFORMATION

As recommended in the “Procedure” section, if the ISTA diagnostics and the related test plans, or performing other troubleshooting for the listed causes results in an eligible and covered repair(s), claim this work with the applicable defect code(s) and labor operations listed in KSD2.

[Copyright ©2014 BMW of North America, Inc.]