



SUBJECT

N52 EDK Throttle Jamming Faults 2D09, 2CED and 2CEC

MODEL

E90 and E91 (3 Series)

E60 and E61 (5 Series), all models with N52 engine

Vehicles produced up to 11/2005

SITUATION

Immediately after starting the engine, the Service Engine Soon lamp is illuminated and the engine enters power reduction ("fail-safe") mode. The EDK (throttle) has failed the start-up test due to binding or jamming. In these specific cases, the vehicle may have been parked for an extended period of time in a freezing climate. One or more of the following faults are stored in the DME:

- 2D09 Throttle - air supply not correct
- 2CED Throttle - valve actuator, jamming continuously - jammed permanently
- 2CEC Throttle - valve actuator, jamming briefly - jammed briefly.

In addition, the customer complains that one or more of the following situations was encountered after start-up:

- Abnormal engine noise
- Heavy smoke from the tail pipe
- Engine surging and/or misfire.

When diagnosed, one or more of the following can be found:

- Oil dripping from the exhaust
- Excessive oil in the intake manifold
- Oil in the combustion chambers.

CAUSE

The crankcase ventilation system deposits a small amount of moisture in the intake track. This moisture can freeze on the throttle valve while the vehicle is parked for extended periods of time. Frequent starts and shorter driving trips can cause an increase of moisture accumulating in the oil, compounding the situation.

PROCEDURE

1. On a customer complaint basis only, use the DIS plus or GT1 diagnostic device to complete all applicable test plans for the faults stored. If no defects are found directly related to the EDK (throttle valve), proceed to step 2.

2. On a customer complaint basis only, replace the intake manifold, crankcase ventilation hose and the crankcase ventilation drain hose with the improved parts. Refer to Repair Instruction RA 11 61 050 [Removing and installing intake air manifold (N52)].

PARTS INFORMATION

E90 325i/Xi, E91 325i/Xi, and E60 525i/Xi only

Part Number	Description	Quantity
11 61 7 559 524	Intake manifold	1
11 61 7 559 530	Ventilation hose	1
11 15 7 567 801	Crankcase ventilation drain hose (rear wheel drive only)	1
11 15 7 567 802	Crankcase ventilation drain hose (all wheel drive only)	1

E90 330i/Xi, E60 530i/Xi and E61 530Xi only

Part Number	Description	Quantity
11 61 7 559 523	Intake manifold	1
11 61 7 559 530	Ventilation hose	1
11 15 7 567 801	Crankcase ventilation drain hose (rear wheel drive only)	1
11 15 7 567 802	Crankcase ventilation drain hose (all wheel drive only)	1

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty.

Defect Code	11 15 03 15 00	
Labor Operation	11 61 051	Replacing intake manifold with
Labor Allowance	20 FRU	crankcase ventilation hoses