

**SUBJECT****E90, E70 M57Y Diesel - Diagnosis for DDE FC 4521/4530****MODEL**

E70, E90 with M57Y engine

SITUATION

The Service Engine Soon lamp is illuminated (with a "Reduced Engine Power" message displayed in the CC), and one of the following fault codes may be stored in the DDE control module:

- 4521 – Charge air pressure control, control deviation, charge–air pressure too high
- 4530 - Charge air pressure control, control deviation, charge–air pressure too low.

CORRECTION

The possible causes for the induction undercharge/overcharge faults are:

- Charged air leakage between the turbochargers and the intake manifold;
- Air filter or air path before turbocharger clogged;
- Incorrect operation of turbochargers actuators (low vacuum supply for wastegates, compressor bypass valve jammed, etc.);
- Intake manifold pressure sensor malfunction;
- Excessive backpressure in the exhaust system.

IMPORTANT:

Do NOT perform the ISID test module **B1365_D7LMS (Air Mass System Test)** which is called for the faults 4521/4530. The test module, in its current version, is not applicable for the M57Y US engine version and may produce implausible results, leading to unnecessary component replacement. Test module B1365_D7LMS will be corrected with future releases of ISTA/D.

In case fault codes 4521 or 4530 are stored, perform the following test modules:

- B1362_D6TRK (Turbine control flap – wastegate control of the smaller turbocharger);
- B1362_D6WGV (Turbine control flap – wastegate control of the larger turbocharger);
- B1362_D6VBK (Multistage turbo charging – US diesel).

To check the integrity of the intake system, perform the smoke test, using BMW approved smoke generating equipment (VACUTEReg; Smoke Machine 625-522B-BMW).

Refer to [SI B16 01 07](#) for detailed information related to the VACUTEReg; Smoke Machine 625-522B-BMW.

WARRANTY INFORMATION

For information only

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