

**SUBJECT****N63T: Improvements to Bosch Spark Plug****MODEL**

F01 (7 Series Sedan)

F02 (7 Series Sedan LWB)

F06 (6 Series Gran Coupe)

F07 (Gran Turismo)

F10 (5 Series Sedan)

F12 (6 Series Coupe)

F13 (6 Series Convertible)

Produced to approximately 11/2013

With the N63T engine

F15 (X5)

Produced to approximately 1/2014

With the N63T engine

SITUATION

Various engine performance symptoms could occur if the spark plug insulator becomes damaged:

- The Service Engine Soon (MIL) may be on with rough running and misfire fault(s) stored.
- Intermittent performance or rough running without a relevant DME fault stored.

CAUSE

The spark plug insulator could be damaged in cases of combustion faults such as misfiring, ignition knock or super knocking conditions.

CORRECTION

Perform diagnostics with ISTA and complete all recommended steps in the order specified for each test plan(s).

Depending on the vehicle's current I-level and faults stored, ISTA may include steps such as: Checking/installing the fuel rail pressure sensor clips (see [SI B12 14 13](#)) and updating the vehicle software.

If during diagnosis a spark plug(s) is found to have a cracked insulator, check the stamped Bosch number.

1. If Bosch **ZR5TPP339** (P/N 12 12 0 038 894) is installed, all spark plugs must be replaced with the newer Bosch **ZR5TPP330A** (P/N 12 12 0 040 581).
2. If Bosch **ZR5TPP330A** (P/N 12 12 0 040 581) is installed, only replace the faulty spark plug(s).

Important:

The spark plugs on all turbocharged engines must always be removed and installed by hand and tightened to the specific torque (**23 Nm**), as described in the repair instructions.

The use of pneumatic tools or improper installation torque can easily result in premature spark plug failure.

WARRANTY INFORMATION

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

A. In conjunction with performing a covered repair to correct a misfire, ignition knock and/or super knocking condition, claim under the defect code for the corresponding repair.

Labor Operation:	Labor Allowance:	Description:
12 12 521	Refer to KSD2	Removing and installing/renewing all spark plugs

Or:

B. As a stand-alone repair

Defect Code:	12 12 00 15 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as "Charging battery")
And, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
And:		
12 12 521	Refer to KSD2	Removing and installing/renewing all spark plugs

Labor operation code 00 00 006 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the "Search" button, and then enter the applicable flat rate labor operation in the FR code field.

Even though work time labor operation code 61 00 006 ends in "006," it is not considered a Main labor operation.

Work time (WT) labor operation 61 00 006 requires an individual punch time.

Other Repairs

If performing the ISTA diagnostics and related test plans results with **other** eligible and covered work, including programming and coding, claim this work with the applicable defect code and labor operations listed in KSD2 or with the information listed above.

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