



MODEL

G30 (5 Series Sedan)			
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SITUATION

Malfunction Indicator Lamp (MIL) is illuminated.

The following fault code is stored in the DME:

- 194006 Tank leakage detection module, solenoid valve: jammed open is present

The following fault code may also be stored with FC 194006:

- 190302 Fuel tank ventilation system micro-leak: Leakage larger than 0.5 mm.

CAUSE

Vacuum leak in fuel tank ventilation system or an internal failure (pressure switch) of the NVLD (Natural Vacuum Leak Detection)

CORRECTION

Possible sources of a leak that need to be repaired are:

- Fuel filler cap, or other system component, not sealed.
- Defective Natural Vacuum Leak Detection (NVLD) system.
- Fuel tank leak.

PROCEDURE

For conditions that are similar to the situation described:

1. Run the diagnosis with ISTA/Next and work through the corresponding test module, if necessary.
2. Check fault memory entries.

Is 190302 Fuel tank ventilation system micro-leak: Leakage larger than 0.5 mm also stored?

YES- go to next step.

NO – go to Step 9.

3. Verify proper fuel filler cap installation.
4. Using ISTA test plan, check for vehicle leaks (Leak detector BMW leak detector) and repair, if identified.
5. Delete the fault memory.
6. Reconnect the NVLD system, if necessary.

7. Start the vehicle and allow to run for 10 minutes.

8. Turn off engine and recheck fault memory.

Are both memory entries 194006 Tank leakage detection module, solenoid valve: jammed open and 190302 Fuel tank ventilation system micro-leak: Leakage larger than 0.5 mm still present?

YES- go to next step.

NO – Go to Step 10.

9. Conduct NVLD acoustic check.

Was “clacking” noise audible?

YES- go to next step.

NO – replace the NVLD (part #16 13 7 373 623) according to repair instructions REP16 13 521 “Removing and installing/replacing pressure switch for Natural Vacuum Leak Detection (NVLD)”.

10. Reprogram and encode the vehicle with ISTA Next 4.06.1x / ISTA/P 3.62.0 (I level S15A-17-07-500) or a more recent version.

PARTS INFORMATION

Part Number	Description	Quantity
16 13 7 373 623	Vent pipe with dust filter (Including NVLD)	1

WARRANTY INFORMATION

This service information bulletin provides technical, diagnostic and/or repair-related information.

Eligible and Covered Work/Repairs

The repair procedures outlined in this bulletin that apply to the repair of a verified defect in materials or workmanship are covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks

To submit a claim, please following the established and applicable warranty policy and procedures (Labor/Part/Sublet) that apply to the repair being performed.

Refer to KSD2/AIR for the corresponding defect code(s), flat rate labor operations (including diagnosis) and flat rate unit (FRU) allowances.

Only one Main labor operation code can be claimed per repair visit.

Work time labor operation codes require individual punch times and explanations on the repair order and in the claim comments section.