



SIB 16 01 23

2023-06-20

TANK VENTILATION MICRO-LEAK DIAGNOSIS USING NVLD3 TESTER PN 83 30 5A39389

MODEL

F90 (M5 Sedan) Model Year (MY) 2018 and newer	F91 (M8 Convertible) MY 2020 and newer	F92 (M8 Coupe) MY 2020 and newer	F93 (M8 Gran Coupe) MY 2020 and newer
F95 (X5 M Sports Activity Vehicle) MY 2020 and newer	F96 (X6 M Sports Activity Coupe) MY 2020 and newer	F97 (X3 M Sports Activity Vehicle) MY 2020 and newer	F98 (X4 M Sports Activity Coupe) MY 2020 and newer
G01 (X3 Sports Activity Vehicle) MY 2018 and newer	G02 (X4 Sports Activity Coupe) MY 2019 and newer	G05 (X5 Sports Activity Vehicle) MY 2019 and newer	G06 (X6 Sports Activity Coupe) MY 2020 and newer
G07 (X7 Sports Activity Vehicle) MY 2019 and newer	G12 LCI (7 Series Sedan) MY 2020 and newer	G14 (8 Series Convertible) MY 2019 and newer	G15 (8 Series Coupe) MY 2019 and newer
G16 (8 Series Gran Coupe) MY 2020 and newer	G20 (3 Series Sedan) MY 2019 and newer	G22 (4 Series Coupe) MY 2020 and newer	G23 (4 Series Convertible) MY 2020 and newer
G26 (4 Series Gran) Coupe) MY 2022 and newer	G29 (Z4 Roadster) MY 2019 and newer	G30 (5 Series Sedan) MY 2017 and newer	G32 (640i xDrive Gran Turismo) MY 2018 and newer
G42 (2 Series Coupe) MY 2022 and newer	G80 (M3 Sedan) MY 2021 and newer	G82 (M4 Coupe) MY 2021 and newer	G83 (M4 Convertible) MY 2022 and newer
And the other applicable NVLD3 models going forward			

SITUATION

A vehicle arrives at your center to be diagnosed for a micro-leak in the fuel evaporative (EVAP) system (NVLD natural vacuum leak detection).

For this condition, the following fault is stored in the DME:

- 190302 - fuel tank ventilation and scavenging air system, micro-leak: leakage more than 0.5 mm

For:

- Model vehicles other than the ones listed above, or for
- EVAP faults related to a "large leak," after confirming that the fuel filler cap is fitted properly, then, proceed to follow the corresponding test plan

CAUSE

Micro-leaks have been detected in the EVAP system.

PROCEDURE

Use Micro-leak detector tool (B04 02 22) with the ISTA test plan:

ABL-DIT-AS1214_BX8_DHP_NVLD3-Natural Vacuum Leak Detection leakage test-V.3

Refer to Video V160122 for setting up and operating the NVLD test tool (if needed).

PARTS INFORMATION

When and as applicable, obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which considers specific equipment and/or options.

Part Number	Description	Quantity
Refer to ETK/AIR	Venting line with leak diagnosis module (NVLD)	1
Or/and:		
Refer to ETK/AIR	Fuel tank breather valve	1
Or:		
Refer to ETK/AIR	Fuel tank ventilation valve with pipe (1-4)	1
Or/and		
Refer to ETK/AIR	Fuel tank ventilation valve with pipe (5-8)	1

Additionally, other materials and small parts that are not specified above, such as fluids, lubricants, one-time use screws, nuts, and seals, which must be replaced or installed according to the ISTA repair instructions/ETK, must be selected from the Electronic Parts Catalog, or other approved BMW resources, according to the respective vehicle type. Invoiced these items separately under the corresponding Repair Code below that applies.

CLAIM INFORMATION

This Service Information Bulletin provides technical, diagnostic, and repair-related information.

Damage and/or issues caused by outside influences are not covered under the BMW limited warranties.

NVLD3 and EVAP Micro-Leak Diagnosis

Labor Operation	Description	Labor Allowance
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Support voltage of the vehicle electrical system / recharge vehicle electrical system battery	Refer to AIR
And as needed:		
61 00 006*	Performing vehicle diagnosis – test module (Work time)	WT
Or		
00 58 500*	Diagnosis Worktime Flat Rate	2 FRU

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006, or exclude (including 61 21 528) when the Vehicle Test is included in another repair.

And, together with the diagnosis above:

Labor Operation	Description	Labor Allowance
13 90 500	Replace the tank vent valve (To access one valve for testing, replace when applicable)	Refer to AIR
Or, when applicable:		
13 90 509	Replacing both tank vent valves (To access both valves for testing, replacing when and as applicable)	Refer to AIR
And:		
16 13 523	Removing and installing/replacing diagnostic module	Refer to AIR

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	(NVLD) (after vehicle diagnosis) (To access for testing, replace when applicable)	
And		
16 13 525	Special tool kit (B04 02 22 - PN 83 30 5 A39 389) for NVLD/Purge Valve "micro leaks" diagnosis	Refer to AIR

Work time labor operation codes 61 00 006, 00 58 500, and 16 10 510 are not considered Main labor operations.

Eligible and Covered Work/Repairs

When used to repair a verified defect in materials or workmanship, the information provided in this bulletin is covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks, including the Emissions coverage that applies.

Note: Always review the VIN-specific Vehicle Comment section in the Warranty Vehicle Inquiry for a notifications of applicable component-specific extended limited warranty (ELW) coverage that also may apply.

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

Using the Repair Code (one or both) that applies.

1613111200:	Fuel tank leak diagnostic module NVLD Permanent failure
1390011500:	Tank ventilation valve Permanent malfunction

Together with the applicable flat rate labor operation codes above and the flat rate unit (FRU) allowances in AIR (including the diagnosis that applies*), unless otherwise required by State law.

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

*Based on which one applies to your center, please refer to **SI B01 01 20** or **B01 07 20** for the applicable procedure for documenting, claiming, and explaining, on the RO and in the claim comments, your diagnosis work time (WT), job/repair work time (WT), and the vehicle repairs your center performed, unless otherwise required by State law.

Other Repairs

If other eligible and covered work is performed because of performing the ISTA diagnostics, the related test plans and/or the diagnosis of leaks (Micro or Large) on the EVAP system with other applicable special tools, claim this work with the applicable Defect Code and labor operations listed in AIR (including the diagnosis that applies*), unless otherwise required by State law.

Labor Operation	Description (Associated work)	Labor Allowance
16 00 510	16 00 510 Leak detection on fuel tank and tank ventilation system (Associated work) (Work time)	5 FRU

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topics of this bulletin: Submit your feedback in the rating box at the top of this bulletin
Warranty Feedback	To submit feedback for the CLAIMS section of this bulletin: Submit an IDS ticket to the Warranty Department, or use the chat available in the Warranty Documentation Portal
Parts Feedback	To submit feedback for the PARTS section of this bulletin: Submit an IDS ticket to the Parts Department

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Supporting Materials

Videos

[16 01 22](#)

