



Technical Service Bulletin

01 MIL on P045600 Very Small Leak Detected - NVLD

01 24 12 2071199/3 March 11, 2024. Supersedes Technical Service Bulletin Group 01 number 23-69 dated August 18, 2023 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, A4 allroad, S4, A5, A5 Cabriolet, A5 Sportback, S5, S5 Cabriolet, S5 Sportback, RS 5, and RS 5 Sportback	2021 - 2024	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised Service (Added Service TV videos)
2	08/18/2023	Revised <i>Warranty Table</i> (Added labor operations)
1	08/09/2023	Initial publication

Customer states:

- The exhaust emissions warning lamp (MIL) is on.

Workshop findings:

The following DTC may be stored:

- DTC P045600 (P0456)** – “Very Small Leak Detected” is logged in the event memory.
 - No further relevant entries must be logged.
 - DTC P045600** – “Very Small Leak Detected” has not previously been logged for this vehicle.

Technical Background

The smallest contamination may be sufficient to cause an internal leak in fuel tank pressure sender G400 (NVLD); this can lead to the DTC “P045600 – Very Small Leak Detected” being set.

Production Solution

Not applicable.



Technical Service Bulletin

Service

Ensure that there are no leaks in fuel system; check according to the Guided Fault Finding or the Workshop Manual.

If GFF instructs you to replace fuel tank pressure sender G400 (NVLD), please proceed as follows:

- Please remove fuel tank pressure sender G400 (NVLD) as specified in Workshop Manual.
- Using a compressed air gun, please blow through the NVLD (item 12 in illustration) with several brief pressure applications of approx. 5 bar. To do so, use the opening on the NVLD marked in the illustration by a green arrow (Figure 1).

NOTICE

The opening marked with a red circle (Figure 1) must not be closed or exposed to compressed air, as this may cause irreparable damage to the NVLD. In addition, this ensures that possible contamination can be blown out of the NVLD.

NOTICE

While blowing through the component as described above, please hold it in your hand → the component must not be clamped or secured in a vice due to risk of damage.



Technical Service Bulletin

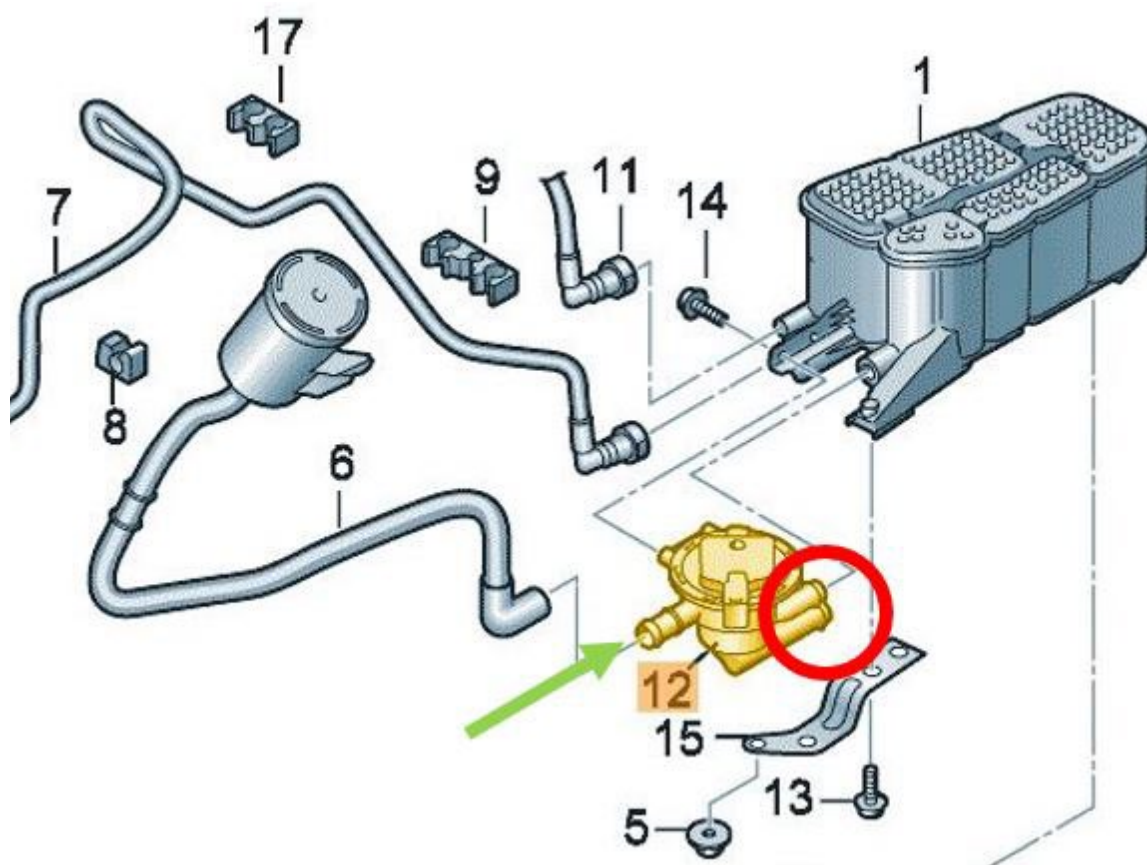


Figure 1: Fuel tank pressure sender G400 (NVLD).

- Reinstall the fuel tank pressure sender G400 (NVLD), and recheck the system for leaks.

NOTICE

Please check the following Service TV videos in the Audi Knowledge Tank, as they can be very helpful here.



Figure 2: Introduction to the flue gas tester.



Technical Service Bulletin

<https://www.knowledgetank.audi/page/detail/type=stv&key=0f15432f-2228-4dd7-ad01-05e6e997ecd0/>



Figure 3: Testing applications using the flue gas tester.

<https://www.knowledgetank.audi/page/detail/type=stv&key=8c7ec80f-15ec-4ea4-929f-c9f246dbf435/>



Figure 4: Information on the activated charcoal fuel system/fuel tank leak detection (Audi Q5 TFSIe pressure tank).

<https://www.knowledgetank.audi/page/detail/type=stv&key=d315bdf4-e998-4fa5-a4bc-0a39f8bb74e2>

Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 Up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	2041		
Damage Code:	0050		
Labor Operations:	Check EVAP system for leaks	2010 0199	20 TU
	NVLD pressure switch remove + reinstall	2041 1950	See SRT with associated operations
	Clean out NVLD pressure switch	2041 4999	10 TU



Technical Service Bulletin

Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 50 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No Allowance	0 TU
Claim Comment:	As per TSB 2071199/3		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Additional Information

All part and service references provided in this TSB (**2071199**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

©2024 Audi of America, Inc. All rights reserved. The information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies, and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites without the prior expressed written permission of the publisher.