



# Technical Service Bulletin

## 01 MIL on P045600 Very Small Leak Detected - NVLD

01 24 41 2071199/4 October 4, 2024. Supersedes Technical Service Bulletin Group 01 number 24-12 dated March 11, 2024 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 - 2023 | All             | Not Applicable             |
| A4, A4 allroad, and S4                                                                                       | 2024        | 000001 – 001222 |                            |
| A5, A5 Cabriolet, A5 Sportback, S5, S5 Cabriolet, S5 Sportback, RS 5, and RS 5 Sportback                     | 2024        | 000001 – 000702 |                            |

## Condition

| REVISION HISTORY |            |                                                        |
|------------------|------------|--------------------------------------------------------|
| Revision         | Date       | Purpose                                                |
| 4                | -          | Revised header (Added VIN breaks)                      |
| 3                | 03/11/2024 | Revised <i>Service</i> (Added Service TV videos)       |
| 2                | 08/18/2023 | Revised <i>Warranty Table</i> (Added labor operations) |

### Customer states:

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

### Workshop findings:

The following DTC is stored:

- DTC P045600 (P0456)** – Very Small Leak Detected” is logged in the event memory.
- No further relevant entries must be logged.



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- **DTC P045600** – “Very Small Leak Detected” has not previously been logged for this vehicle.

## Technical Background 1

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.

## 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

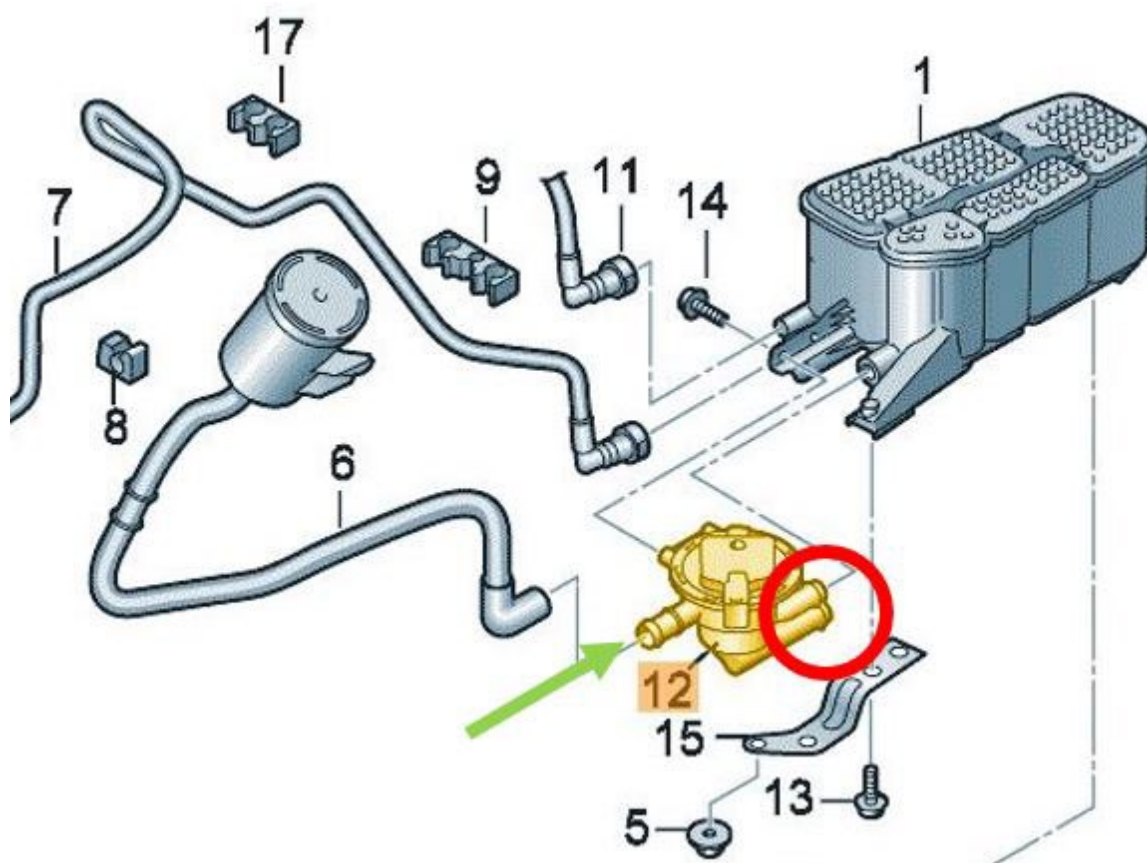
**The opening marked with a red circle (Figure 1) must not be closed or exposed to compressed air, as this may cause irreparable damage to the NVLD. In addition, this ensures that possible contamination can be blown out of the NVLD.**

### 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.**



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*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.





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*Figure 2: Introduction to the flue gas tester.*

<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"><li>If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.</li></ul> |
| Service Number: | 2041                                                                                                                                              |
| Damage Code:    | 0050                                                                                                                                              |



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|                          |                                         |           |                                        |
|--------------------------|-----------------------------------------|-----------|----------------------------------------|
| <b>Labor Operations:</b> | Check EVAP system for leaks             | 2010 0199 | Bill according to time required        |
|                          | NVLD pressure switch remove + reinstall | 2041 1950 | See SRT with associated operations     |
|                          | Clean out NVLD pressure switch          | 2041 4999 | 10 TU                                  |
|                          | Charge Battery                          | 2706 8950 | See SRT with associated operations     |
|                          | GFF                                     | 0150 0060 | Time stated on the diagnostic protocol |
| <b>Claim Comment:</b>    | As per TSB 2071199/4                    |           |                                        |

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.

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