



# Technical Service Bulletin

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## 20 MIL on, DTC P045600 stored in the ECM

20 19 16 2035073/14 May 24, 2019. Supersedes Technical Service Bulletin Group 20 number 19-13 dated April 11, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3 Sedan	2015	000001 – 122823	With NVLD
A3 Cabriolet	2015	000001 – 122834	With NVLD
A3 Sedan	2015	000001 – 122823	With NVLD
A4, A4 Cabriolet	2015	A900001 – A106622 N000001 – N033839	With NVLD
A4 allroad	2015	000001 – 110433	With NVLD
A5 Coupe	2015	000001 - 048917	With NVLD
A5 Cabriolet	2015	000001 – 008878	With NVLD
RS 5 Coupe	2013	900001 - 999999	With NVLD
RS 5 Coupe	2014	900001 - 999999	With NVLD
RS 5 Coupe	2015	900001 - 901489	With NVLD
RS 7	2016	900001 – 900125	With NVLD
A8	2011 - 2014	All	With NVLD
A8	2015	000001 – 033269	With NVLD
A6, A7	2016	000001 – 009518	With NVLD
A6, A7, and RS 7	2012 - 2015	All	With NVLD
A4, A4 allroad, A5, A5 Cabriolet, RS 5, and Q5	2013 - 2014	All	With NVLD
Q5	2015	000001 – 109552 000001 - 111804	With NVLD



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## Condition

REVISION HISTORY		
Revision	Date	Purpose
14	-	Revised header data (Added VIN breaks)
13	04/11/2019	Revised title Revised <i>Warranty</i> (Added Labor Operation)
12	10/29/2015	Revised header data (Corrected Elsa display error)

### Customer states:

- MIL on.

### Workshop findings:

The following DTC is stored in the engine control module (ECM), J623 (address word 0001):

- **DTC P045600** (EVAP System Leak Detected NVLD (very small leak)).
- Drivability is not affected.

## Technical Background

The NVLD pressure switch may erroneously detect a very small leak.

## Production Solution

New NVLD pressure switches and NVLD filters in production.

## Service

1. Ensure that **DTC P045600** (EVAP System Leak Detected NVLD (very small leak)) is stored in the engine control module (ECM), J623 (address word 0001). If **DTC P045600** is not present, this bulletin does not apply.
2. Replace the NVLD pressure sensor G400 and the NVLD filter with the latest part number available (Figure 1).



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*Figure 1. NVLD pressure sensor (left) and NVLD filter (right).*



**Note:**

Read the following information for correct installation of the NVLD switch grommet. The following information applies only if the sensor is directly installed into the charcoal canister.

3. Align the grommet and sensor outer edges (Figure 2).



*Figure 2. Align the grommet and sensor outer edges.*



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4. To aid installation, wrap several (~10) layers of vinyl tape behind the grommet to ensure that it does not slip during installation (Figure 3 and Figure 4).



*Figure 3. Wrapping vinyl tape behind the grommet.*



*Figure 4. Vinyl layer supporting grommet.*



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5. Apply a small amount of grease to create a film on the outer surface of the grommet before installing the sensor (Figure 5).

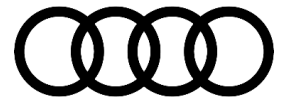


**Figure 5.** Grease film on the outer surface of the grommet.

6. When the sensor and grommet have been correctly installed, the grommet and canister will be flush (Figure 6). At this point, the vinyl tape can be removed (or it can be left in place).



**Figure 6.** Correctly-installed sensor and grommet.



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7. An incorrectly-installed sensor and grommet (Figure 7) can cause an EVAP leak and repeat failures. Issues can occur when the NVLD switch is pressed too far into the canister, then pulled back out in an attempt to align the NVLD switch with the mounting holes.

Do not apply any lubricant between the sensor and the grommet.



**Figure 7.** Plastic port extending past the grommet (A) causing installation issues (B).

 **Note:**

Due to the functionality of the new tank leak diagnostic system (NVLD), it is not possible to check the system using a basic setting or an output diagnostic test mode like the previously-used LDP system.

 **Note:**

Always use a VIN to search parts in ETKA.

## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	2041		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	<b>For A3 and A3 Cabriolet:</b>		
	NVLD pressure switch remove + reinstall	2041 1950	See SRT
	Rear wheel housing liner remove + reinstall	6676 1900	See SRT
	<b>For A4, A5, and A5 Cabriolet:</b>		
NVLD pressure switch remove + reinstall	2041 1950	See SRT	



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	Activated charcoal filter remove + reinstall	2025 1910	See SRT
	Rear wheel housing liner remove + reinstall (includes time for filter replacement)	6676 1999	40 TU
	<b>For A6 and A7:</b>		
	NVLD pressure switch remove + reinstall	2041 1950	See SRT
	Activated charcoal filter remove + reinstall	2025 1900	See SRT
	Rear wheel housing liner remove + reinstall (includes time for filter replacement)	6676 1999	40 TU
	<b>For Q5 and Q5 hybrid:</b>		
	NVLD pressure switch remove + reinstall	2041 1950	See SRT
	Activated charcoal filter remove + reinstall	2025 1910	See SRT
	Rear wheel housing liner remove + reinstall (includes time for filter replacement)	6676 1999	40 TU
	<b>For A8:</b>		
	NVLD pressure switch remove + reinstall	2041 1950	See SRT
	Activated charcoal filter remove + reinstall	2025 1900	See SRT
	Wheel remove + reinstall	4405 1900	See SRT
<b>Diagnostic Time:</b>	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on the diagnostic protocol (Max 20 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU
<b>Claim Comment:</b>	As per TSB #2035073/14		

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.



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## Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
5Q0906253B or 5Q0906253C (For A3 sedan) (Backwards-compatible for all A3 sedans)	Pressure switch	01
8K0906253K (For A8, Q5 hybrid, and A3 Cabriolet)	Pressure switch	01
8K0906253L (For A4, A5, A5 Cabriolet, Q5, A6, and A7)	Pressure switch	01
1C0906621A (For A3 sedan and A3 Cabriolet)	Filter	01
8R0906621E (For A8)	Filter	01
8F0201997D (For A5 Cab)	Filter	01
8R0201997T (For Q5)	Filter	01
8R0906621F (For Q5 hybrid)	Filter	01
4G0201997BA (For A6 and A7)	Filter	01
8K0201997AL (For A4 and A5)	Filter	01
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA

## Additional Information

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