

Technical Service Bulletin



01 Idle speed characteristic during cold start

01 15 07 2028344/5 February 13, 2015. Supersedes Technical Service Bulletin Group 01 number 13-69 dated February 14, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	2005 - 2016	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised header data (Added model years)
4	2/14/2013	Revised header data (RS 5 Cabriolet added)
3	10/25/12	Revised header data (New models added)
2	7/18/12	Revised header data
1	1/13/2012	Original publication

- Noises and inconsistent engine operation after cold start during the catalyst heating phase.
- The customer may misinterpret these symptoms as engine misfiring.
- This bulletin applies only to non-diesel engines.

Technical Background

To comply with the legal requirements on exhaust gas emissions according to the LEV-1 and LEV-2 standards, a high exhaust gas quality must be ensured. The catalyst is heated to the necessary operating temperature of over 300°C (572°F). The catalyst heating phase is achieved by late ignition angles and by introducing additional fresh air to the exhaust valves (secondary air system).

Late ignition angles ensure that the exhaust gas from the cylinders has a higher temperature. This exhaust gas includes fuel that is un-burnt, and was deliberately injected in great quantities. The secondary air system adds fresh air to the exhaust gas as it leaves the cylinder and the extra fuel is burnt. As a result, the temperatures of the exhaust gas and of the catalyst increase quickly.

Effects:

The afterburning in the exhaust manifold before the catalyst changes the sound characteristic of the engine. This heating-up of the catalyst, including afterburning, is normal and has no effect on the service life of the engine. During this catalyst heating phase, the engine has increased idle speed, may have increased vibrations, and has a different sound characteristic.

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Conditions for the catalyst heating phase:

Depending on conditions, the time of the catalyst heating phase varies.

Production Solution

No change.

Service

Do not repair. Explain the technical background to the customer.

Warranty

This TSB is informational only and not applicable to any Audi warranty.

Additional Information

All parts and service references provided in this TSB (2028344) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.