



Technical Service Bulletin

90 Outside air temperature reading: general information

90 20 44 2032113/3 April 24, 2020. Supersedes Technical Service Bulletin Group 90 number 19-19 dated June 21, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	2008 - 2021	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
3	-	Revised header (Added MY 2021 and Audi e-tron quattro)
2	06/21/2019	Revised header (Added MY 2015 to 2020)
1	12/07/2012	Initial publication

Customer states:

- The outside ambient temperature display is incorrect.

Technical Background

To achieve a smoothening effect of the displayed outside ambient temperature, the value shown does not instantaneously follow the temperature sensor measurement. The display will not change faster than 4° F (2° C) per minute. This concept applies to both falling and rising temperatures.

A programming strategy is also implemented to avoid incorrect readings on a parked vehicle, due to the temperature sensor being affected by outside influences such as radiant heat from the engine bay, elevated road surface temperatures, etc. Incorrect readings are avoided through the following logic:

- After switching the ignition **on**, temperature changes are only shown after 30 seconds for a stationary vehicle (vehicle speed = zero and engine switched off).
- Only when the vehicle drives faster than 12 mph (20 km/h), rising temperature values are displayed during the first 3 miles (5 km).
- If the measured ambient temperature is above the displayed value but falling, the display is not changed.
- When the coolant temperature reaches 104° F (40° C) and the speed drops to under 12 mph (20 km/h), only falling ambient temperature values are shown. For example, in stop and go traffic when the vehicle is often below 12 mph (20 km/h), it can take some time before the displayed temperature is correct.



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- If the conditions above are noted during these typical driving scenarios, the sensor is not at fault and does not need to be replaced.

Production Solution

Not applicable.

Service

Explain the operation to the customer.

Warranty

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

Additional Information

All part and service references provided in this TSB (2032113) 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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